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Appendix L

Asset Score Sensitivity Analysis Results

Asset Score Sensitivity Analysis

The results of sensitivity analysis are shown in a series of tornado diagrams, which indicate the potential impact (sensitivity) of the studied variables as a function of the output (energy use). Note that the variables were evaluated independently, meaning that the interaction of variables was not evaluated in this context. The x axis of the tornado diagrams is the examined variables and the y axis is the output of building energy use (Total Source Energy, Total Electricity, or Total Natural Gas). The plots are designed to be eye-charts and provide a quick visual on the importance of each variable. The further to the left a variable, the greater it's first-order sensitivity. Only the twenty most important variables are shown in the tornado diagram. In addition to each Total Source Energy tornado diagram, a table is supplied describing the input variable ranges simulated and the minimum and maximum Total Source Energy across the simulations associated with that input variable.

Variables

The variables for all the preflight simulations are listed below.

Summary of input variables for all buildings * There is/are 1 pivot variables * There are 38 variables

Variable	Units	Type
Aspect Ratio Multiplier	non-dim	double
Floor Plate Area Multiplier	ft2	double
Square Footage Multiplier	ft2	double
Floor-To-Floor Height Multiplier	ft	double
Perimeter Zone Depth	ft	double
Floor R-Value for 24 in	h ft2 F/Btu	double
Window-To-Wall Ratio	non-dim	double
Window Sill Height	ft	double
Window U-Value	Btu/h ft2 F	double
Window SHGC	non-dim	double
Window VLT	non-dim	double
Wall Construction Type		string
Wall U-Value	Btu/h ft2 F	double
Roof Construction Type		string
Roof U-Value	Btu/h ft2 F	double
Daylighting Control Setpoint	ft-c	double
Interior Lighting Power Density	W/ft2	double
Shading Projection Factor	non-dim	double
Shading Height above Window	ft	double
Chiller Cooling Efficiency	COP	double
District Chiller Cooling Efficiency	COP	double
Boiler Heating Efficiency	percent	double
District Heating Efficiency	percent	double
Air Handler Fan Efficiency	percent	double
Air Source Heat Pump Cooling Efficiency	COP	double

Variable	Units	Type
Air Source Heat Pump Heating Efficiency	COP	double
Packaged DX Cooling Efficiency	COP	double
Gas Heating Efficiency	percent	double
Terminal DX Cooling Efficiency	percent	double
Terminal Furnace Heating Efficiency	percent	double
Terminal Furnace Heat Pump Heating Efficiency	percent	double
Water Heater Energy Factor	percent	double
Economizer		string
Fan Control		string
Condenser Pump Control		string
Fan Static Pressure Reset		string
Supply Air Temperature Reset		string
Orientation	degrees	double

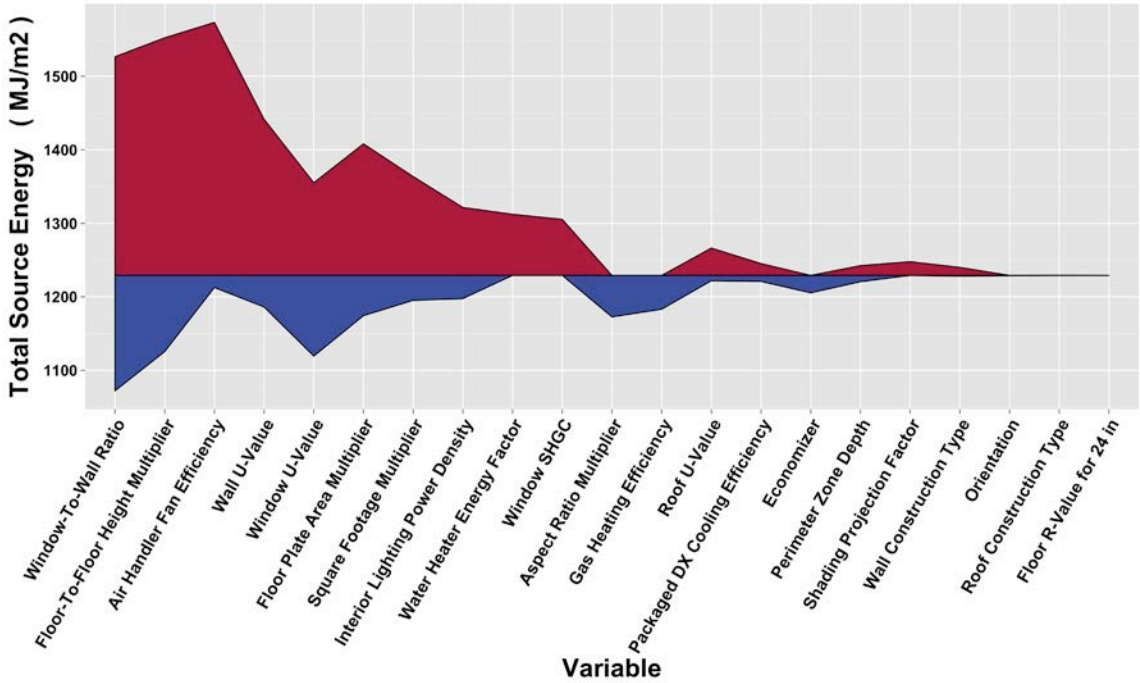
Highrise Apartment

Location: Climate Zone 1A

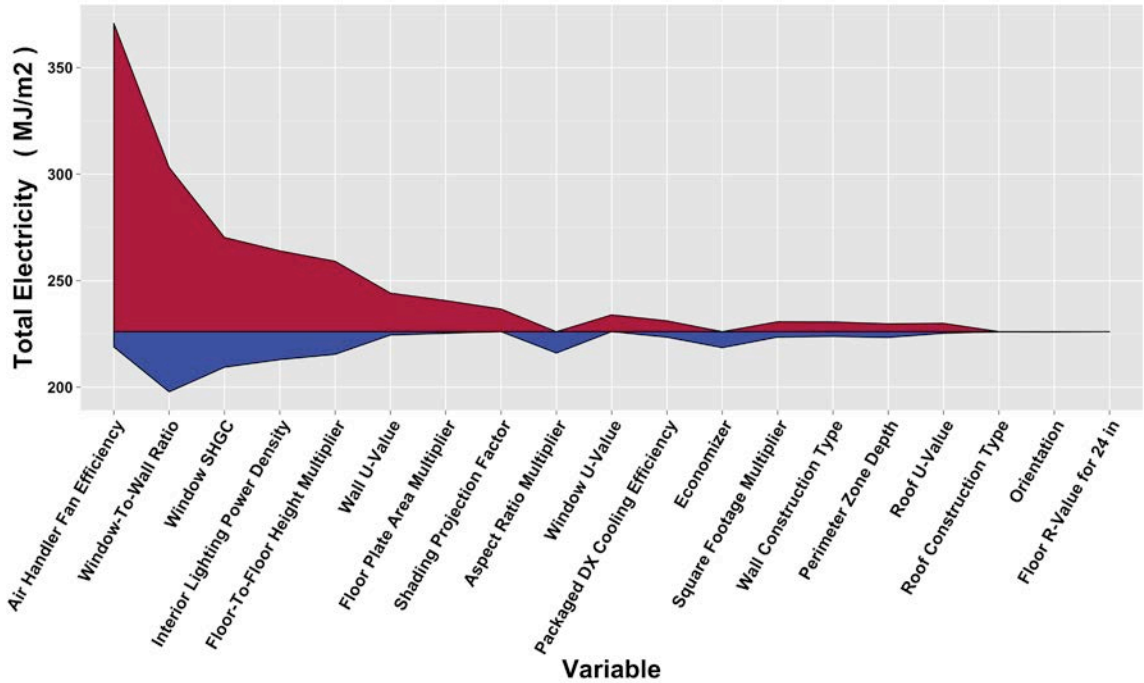
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1172.61	1229.12
Floor Plate Area Multiplier	4218	28120	1174.32	1408.16
Square Footage Multiplier	25308	253080	1195.19	1363.62
Floor-To-Floor Height Multiplier	8	16	1125.41	1552.36
Perimeter Zone Depth	10	20	1220.50	1242.46
Floor R-Value for 24 in	0	0	1229.12	1229.12
Window-To-Wall Ratio	0	0.71	1072.05	1526.62
Window Sill Height	1	6	1229.12	1229.12
Window U-Value	0.12	1.22	1119.28	1355.19
Window SHGC	0.08	0.7	1229.12	1305.41
Window VLT	0.06	0.89	1229.12	1229.12
Wall Construction Type	masonry-on-masonry	wood-siding	1228.10	1240.04
Wall U-Value	0.03	0.58	1186.12	1441.57
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1229.12	1229.33
Roof U-Value	0.01	0.2	1221.82	1266.36
Daylighting Control Setpoint	0	0	1229.12	1229.12
Interior Lighting Power Density	0.04	0.43	1197.55	1321.59
Shading Projection Factor	0	1	1229.12	1247.81
District Chiller Cooling Efficiency	0.52	1.48	1229.12	1229.12
Air Handler Fan Efficiency	22.66	81.56	1212.62	1573.33
Packaged DX Cooling Efficiency	2.18	4.26	1220.89	1245.23
Gas Heating Efficiency	1	1.13	1183.05	1229.12
Terminal DX Cooling Efficiency	0.68	1.32	1229.12	1229.12
Terminal Furnace Heating Efficiency	0.87	1.13	1229.12	1229.12
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1229.12	1229.12
Water Heater Energy Factor	1	99	1229.12	1312.26
Economizer	false	true	1205.36	1229.12

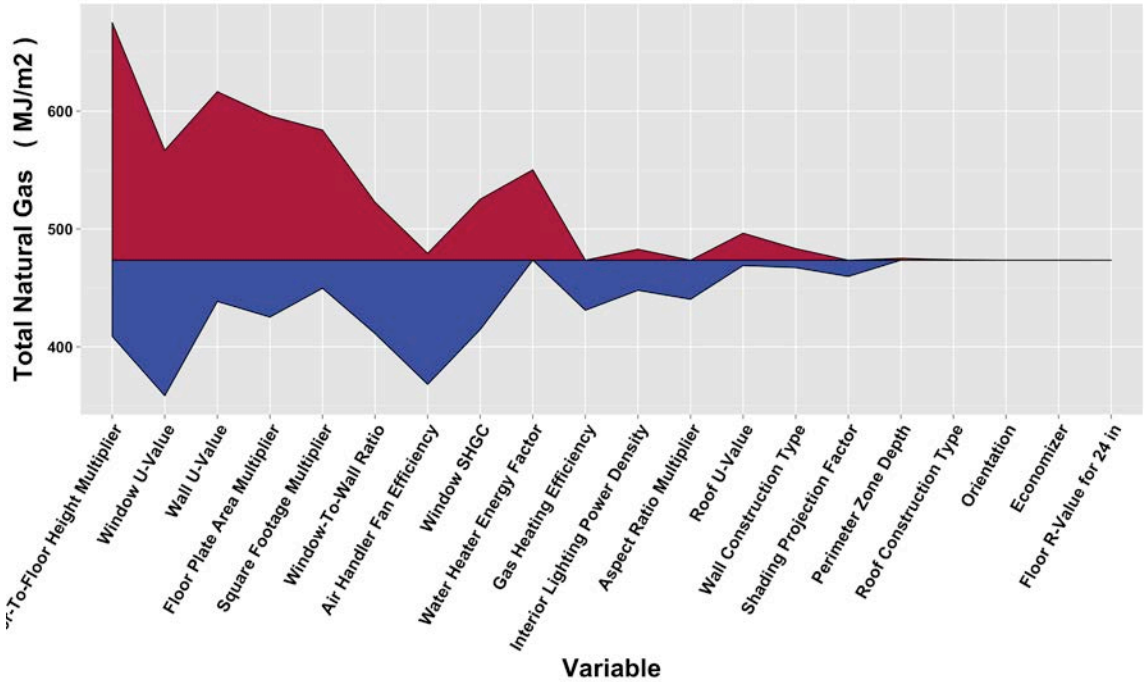
Fan Control	cav	false	1229.12	1229.12
Orientation	0	359	1228.80	1229.12



Total Electricity



Total Natural Gas

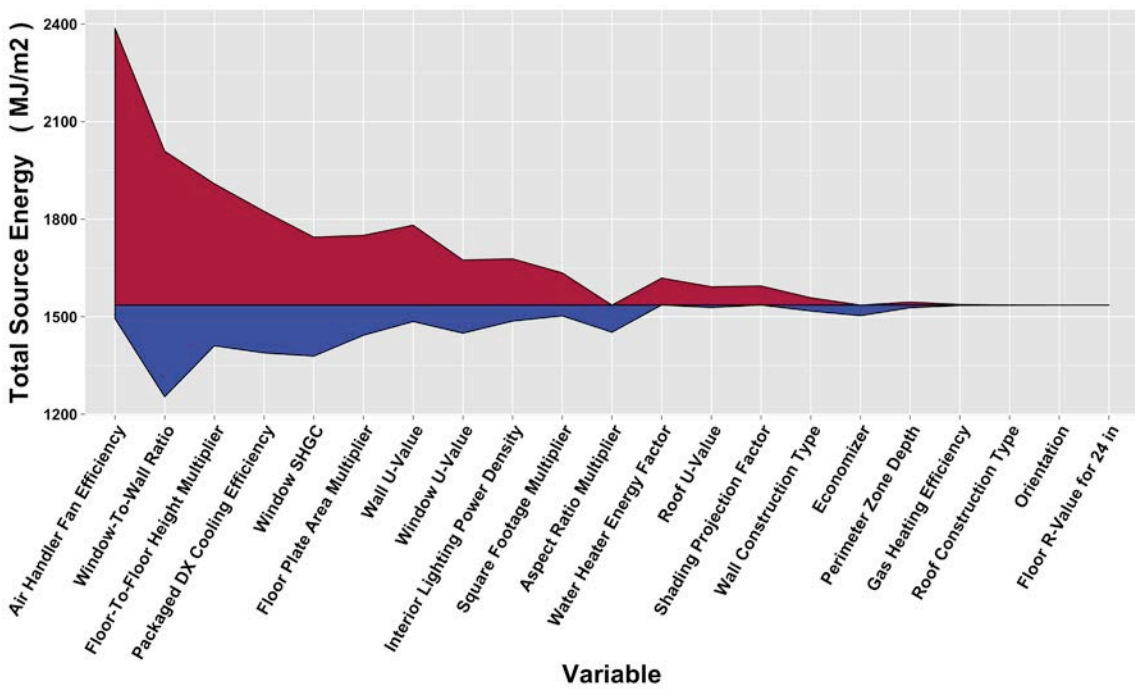


Location: Climate Zone 1B

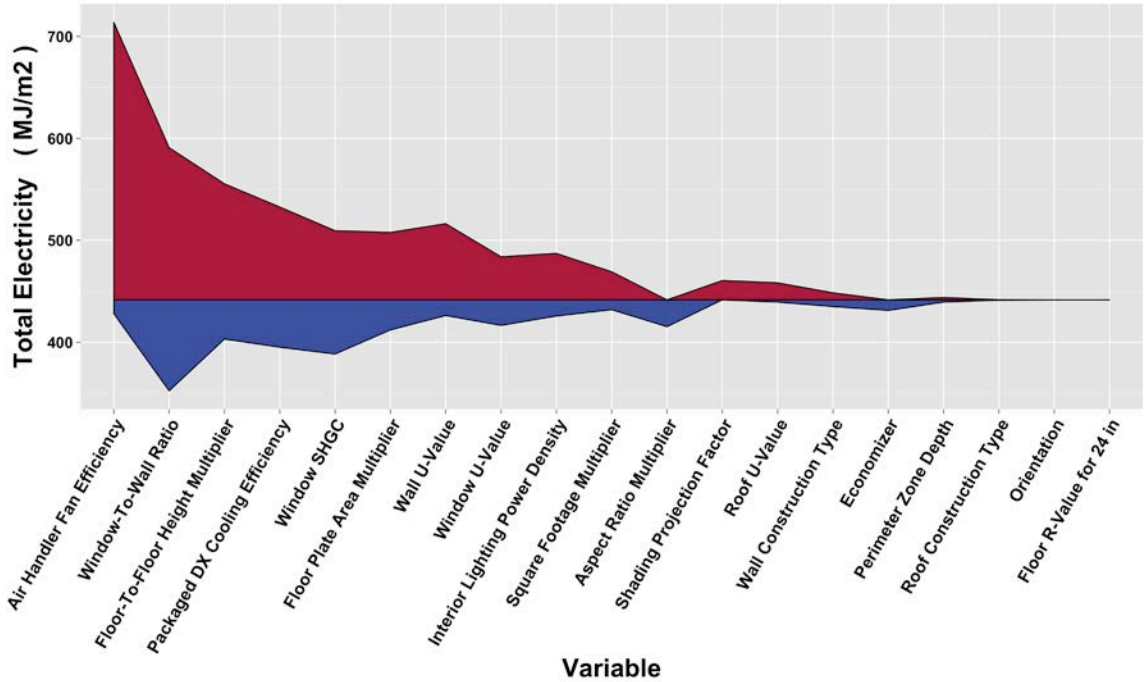
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1451.99	1535.67
Floor Plate Area Multiplier	4218	28120	1442.69	1750.18
Square Footage Multiplier	25308	253080	1502.40	1634.74
Floor-To-Floor Height Multiplier	8	16	1410.44	1908.86
Perimeter Zone Depth	10	20	1527.45	1544.90
Floor R-Value for 24 in	0	0	1535.67	1535.67
Window-To-Wall Ratio	0	0.71	1253.34	2009.15
Window Sill Height	1	6	1535.67	1535.67
Window U-Value	0.12	1.22	1449.12	1674.44
Window SHGC	0.08	0.7	1378.61	1744.61
Window VLT	0.06	0.89	1535.67	1535.67
Wall Construction Type	masonry-on-masonry	wood-siding	1517.26	1558.26
Wall U-Value	0.03	0.58	1484.85	1781.41
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1534.73	1536.12
Roof U-Value	0.01	0.2	1528.19	1592.06
Daylighting Control Setpoint	0	0	1535.67	1535.67
Interior Lighting Power Density	0.04	0.43	1486.21	1677.83
Shading Projection Factor	0	1	1535.67	1594.40

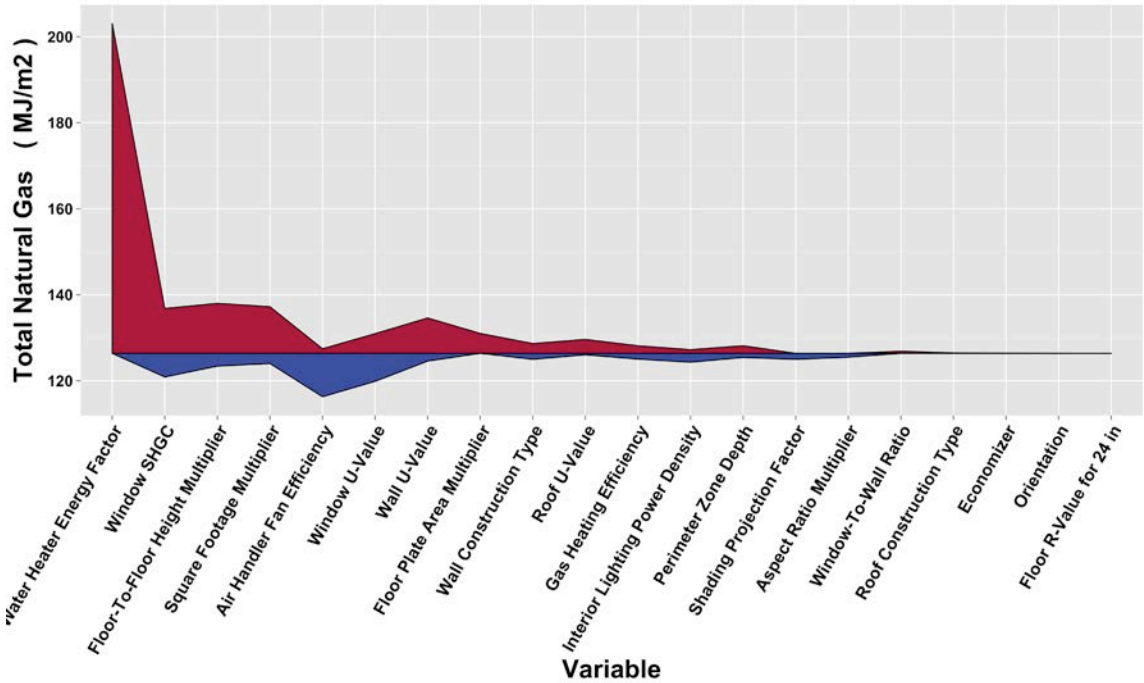
District Chiller Cooling Efficiency	0.52	1.48	1535.67	1535.67
Air Handler Fan Efficiency	22.66	81.56	1493.65	2386.69
Packaged DX Cooling Efficiency	2.18	4.26	1388.40	1824.08
Gas Heating Efficiency	0.87	1.13	1534.22	1537.57
Terminal DX Cooling Efficiency	0.68	1.32	1535.67	1535.67
Terminal Furnace Heating Efficiency	0.87	1.13	1535.67	1535.67
Terminal Furnace Heat Pump Heating Efficiency	0.73	1	1535.67	1535.67
Water Heater Energy Factor	1	99	1535.67	1618.78
Economizer	false	true	1502.84	1535.67
Fan Control	cav	false	1535.67	1535.67
Orientation	0	359	1535.46	1535.67



Total Electricity



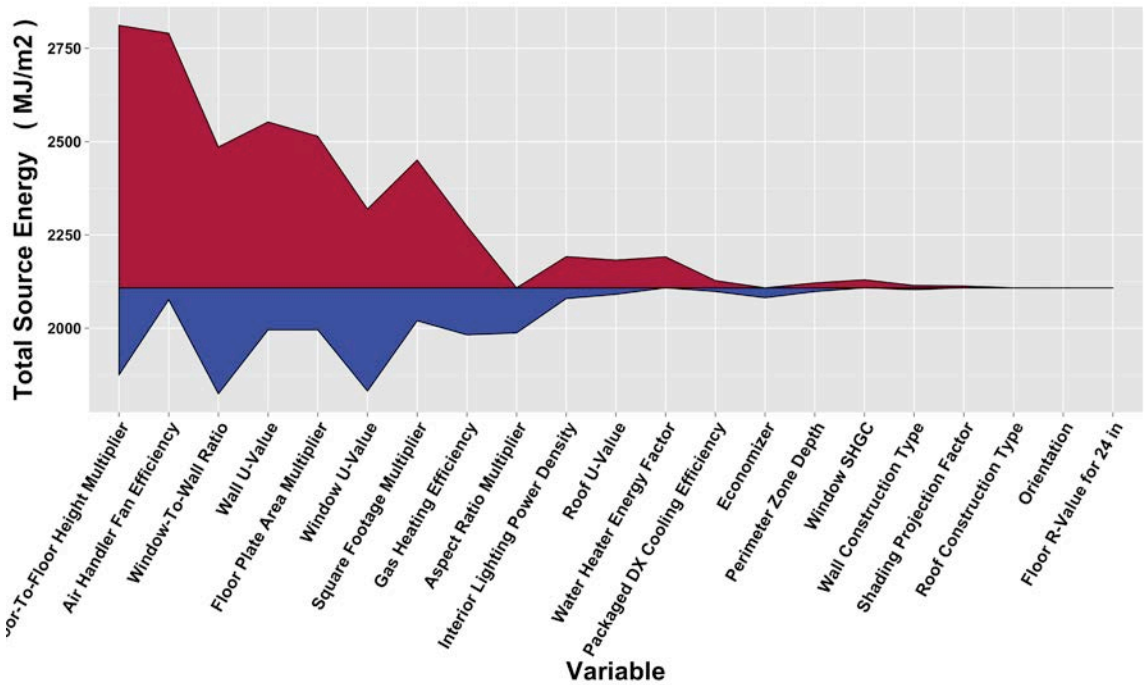
Total Natural Gas



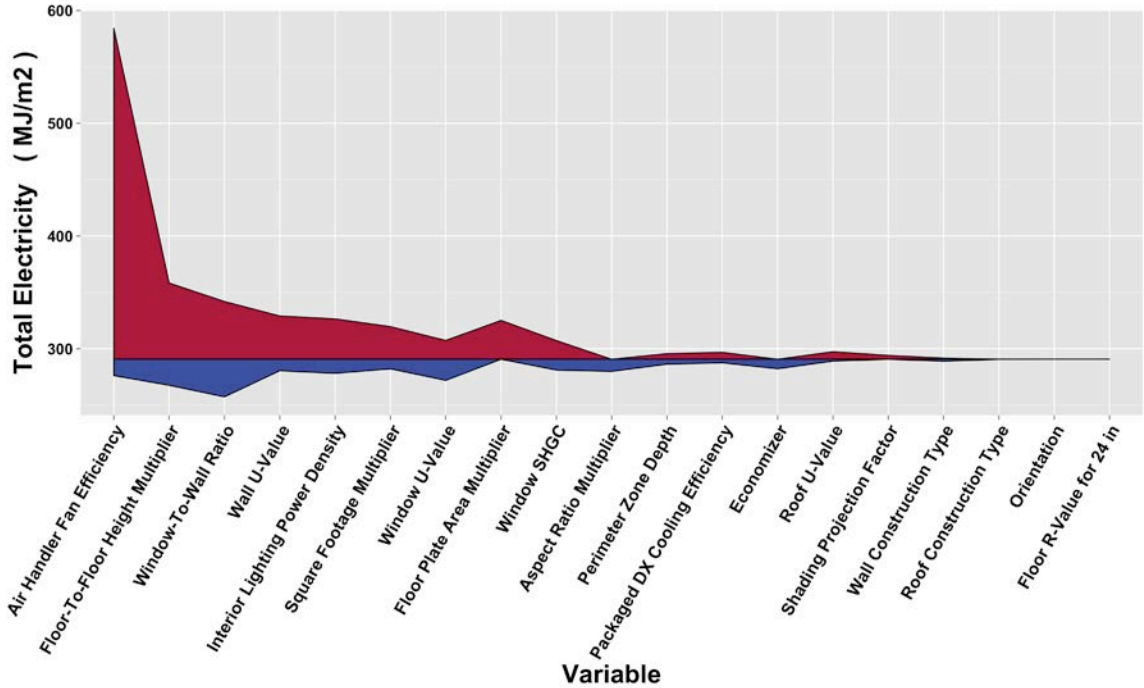
Location: Climate Zone 2A

Total Source Energy

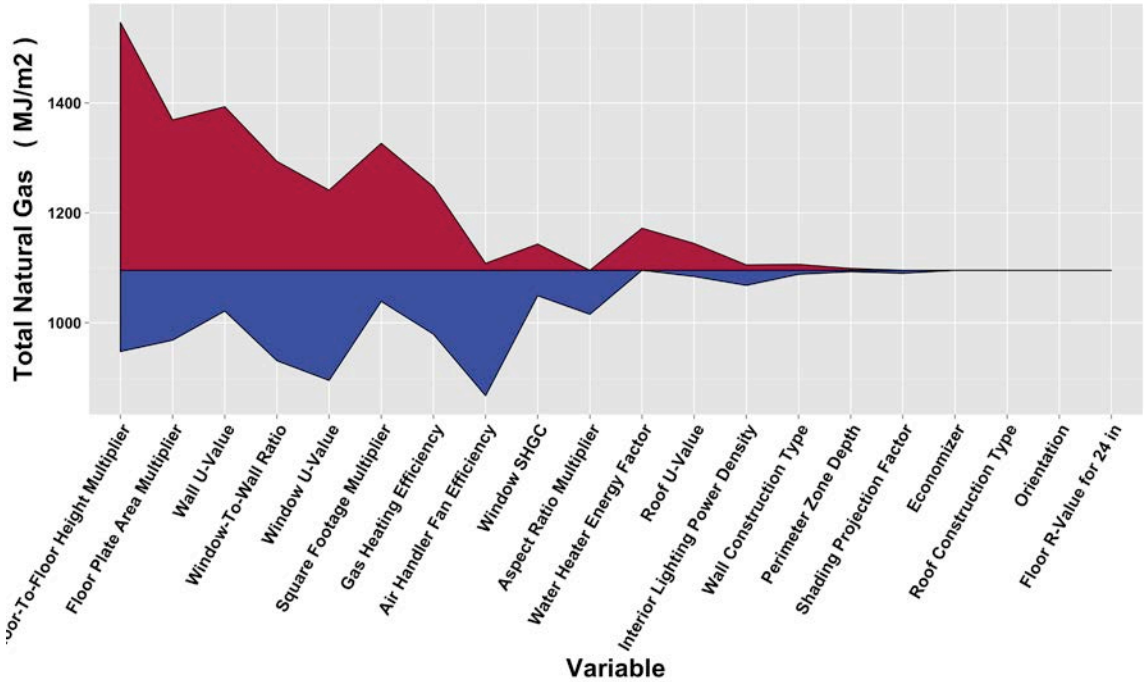
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1987.37	2108.23
Floor Plate Area Multiplier	4218	28120	1995.62	2514.23
Square Footage Multiplier	25308	253080	2020.03	2450.64
Floor-To-Floor Height Multiplier	8	16	1874.84	2811.29
Perimeter Zone Depth	10	20	2098.12	2121.30
Floor R-Value for 24 in	0	0	2108.23	2108.23
Window-To-Wall Ratio	0	0.71	1824.17	2485.53
Window Sill Height	1	6	2108.23	2108.23
Window U-Value	0.12	1.22	1831.56	2319.31
Window SHGC	0.08	0.7	2108.23	2129.80
Window VLT	0.06	0.89	2108.23	2108.23
Wall Construction Type	masonry-on-masonry	wood-siding	2103.27	2114.51
Wall U-Value	0.03	0.58	1995.66	2552.58
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2108.08	2108.39
Roof U-Value	0.01	0.2	2090.82	2182.38
Daylighting Control Setpoint	0	0	2108.23	2108.23
Interior Lighting Power Density	0.04	0.43	2079.44	2191.96
Shading Projection Factor	0	1	2108.23	2113.19
District Chiller Cooling Efficiency	0.52	1.48	2108.23	2108.23
Air Handler Fan Efficiency	22.66	81.56	2076.13	2790.18
Packaged DX Cooling Efficiency	2.18	4.26	2098.31	2127.65
Gas Heating Efficiency	0.87	1.13	1982.25	2273.37
Terminal DX Cooling Efficiency	0.68	1.32	2108.23	2108.23
Terminal Furnace Heating Efficiency	0.87	1.13	2108.23	2108.23
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2108.23	2108.23
Water Heater Energy Factor	1	99	2108.23	2191.38
Economizer	false	true	2081.69	2108.23
Fan Control	cav	false	2108.23	2108.23
Orientation	0	359	2108.23	2108.27



Total Electricity



Total Natural Gas

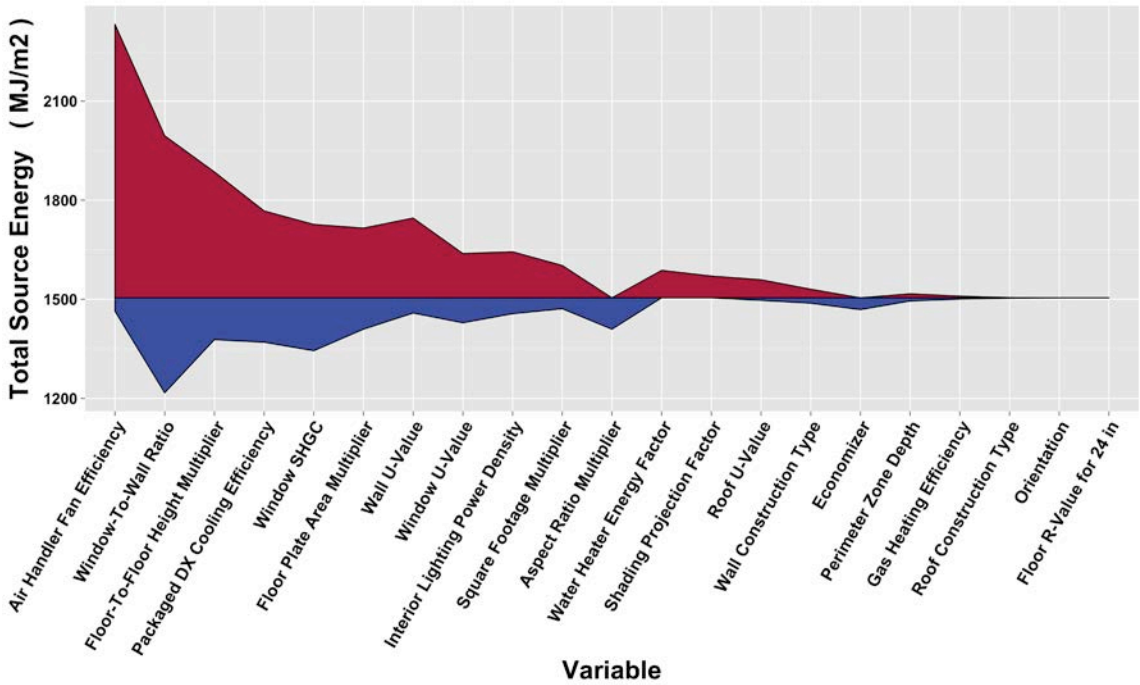


Location: Climate Zone 2B

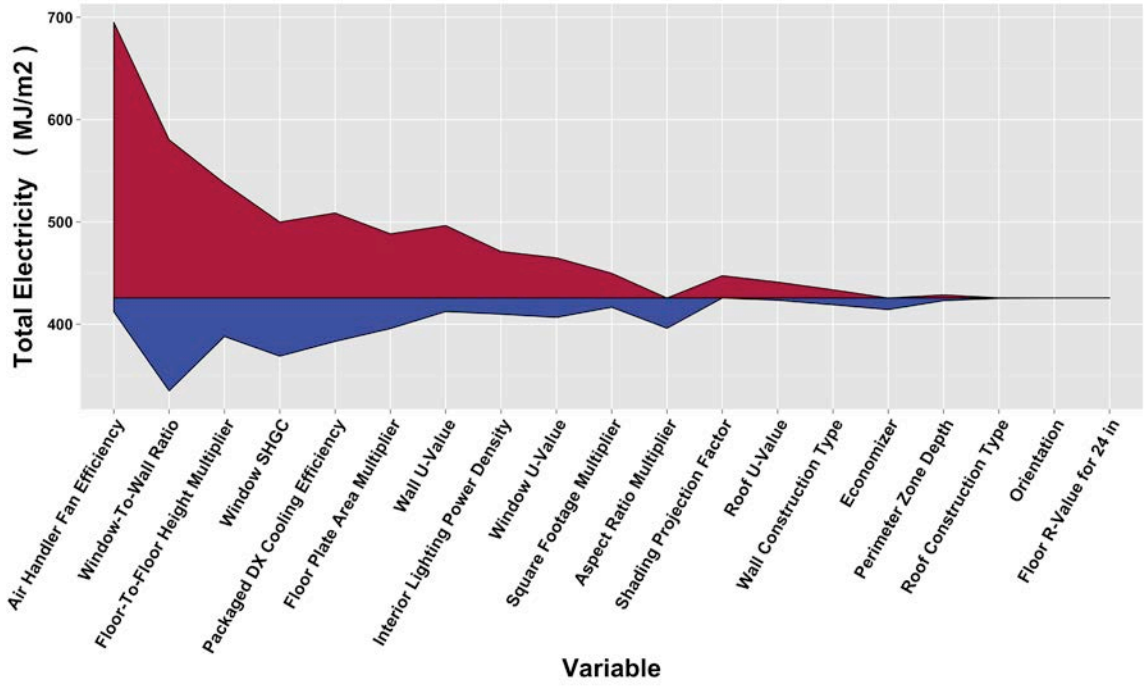
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1409.39	1504.40
Floor Plate Area Multiplier	4218	28120	1409.42	1715.50
Square Footage Multiplier	25308	253080	1471.38	1602.44
Floor-To-Floor Height Multiplier	8	16	1377.81	1885.69
Perimeter Zone Depth	10	20	1494.81	1516.68
Floor R-Value for 24 in	0	0	1504.40	1504.40
Window-To-Wall Ratio	0	0.71	1216.61	1995.19
Window Sill Height	1	6	1504.40	1504.40
Window U-Value	0.12	1.22	1428.74	1638.53
Window SHGC	0.08	0.7	1344.19	1726.62
Window VLT	0.06	0.89	1504.40	1504.40
Wall Construction Type	masonry-on-masonry	wood-siding	1488.10	1530.50
Wall U-Value	0.03	0.58	1458.32	1746.04
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1503.46	1504.95
Roof U-Value	0.01	0.2	1496.79	1559.09
Daylighting Control Setpoint	0	0	1504.40	1504.40
Interior Lighting Power Density	0.04	0.43	1456.30	1643.73
Shading Projection Factor	0	1	1504.40	1570.30

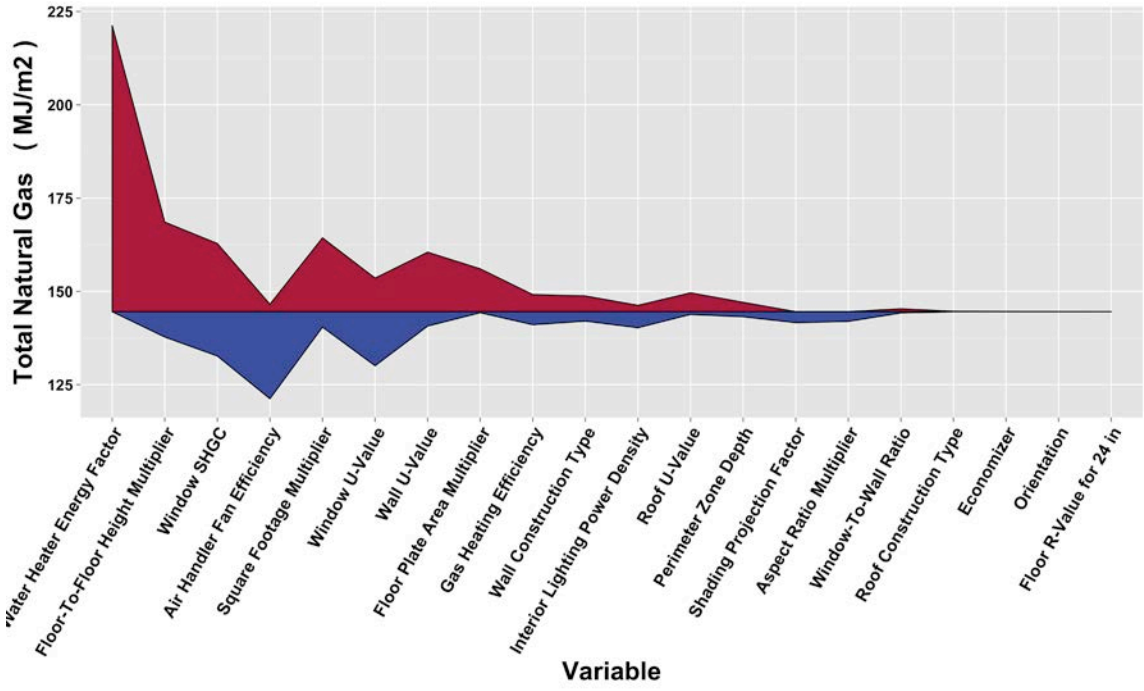
District Chiller Cooling Efficiency	0.52	1.48	1504.40	1504.40
Air Handler Fan Efficiency	22.66	81.56	1463.96	2332.39
Packaged DX Cooling Efficiency	2.18	4.26	1370.03	1767.55
Gas Heating Efficiency	0.87	1.13	1500.62	1509.37
Terminal DX Cooling Efficiency	0.68	1.32	1504.40	1504.40
Terminal Furnace Heating Efficiency	0.87	1.13	1504.40	1504.40
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1504.40	1504.40
Water Heater Energy Factor	1	99	1504.40	1587.52
Economizer	false	true	1468.70	1504.40
Fan Control	cav	false	1504.40	1504.40
Orientation	0	359	1504.23	1504.40



Total Electricity



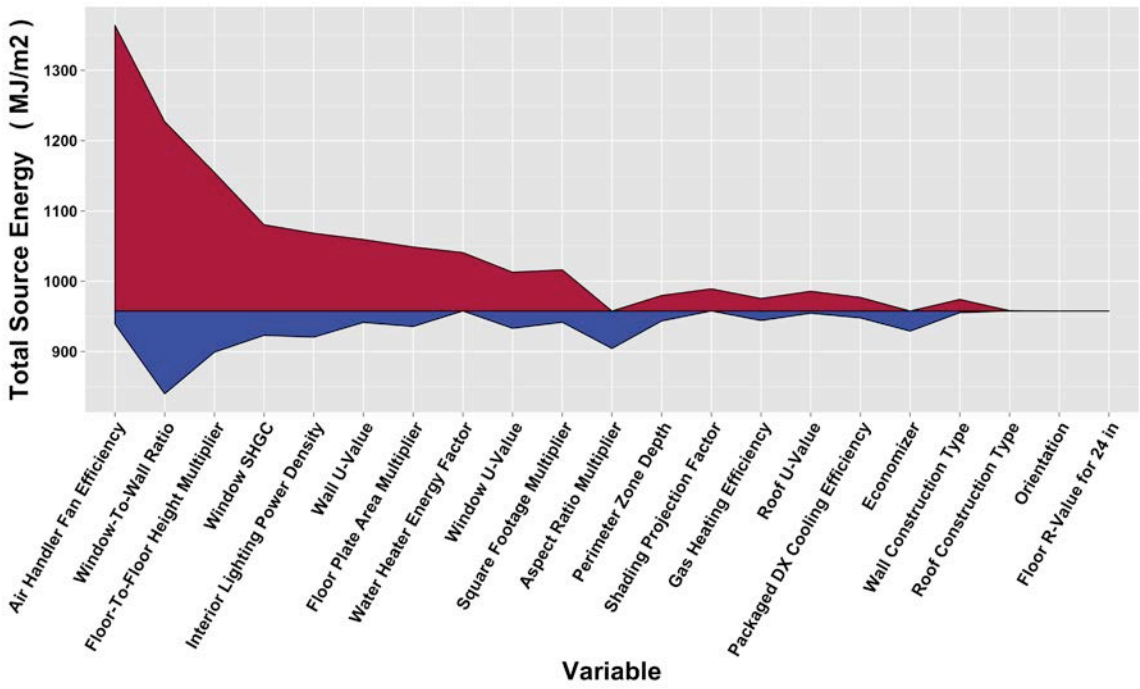
Total Natural Gas



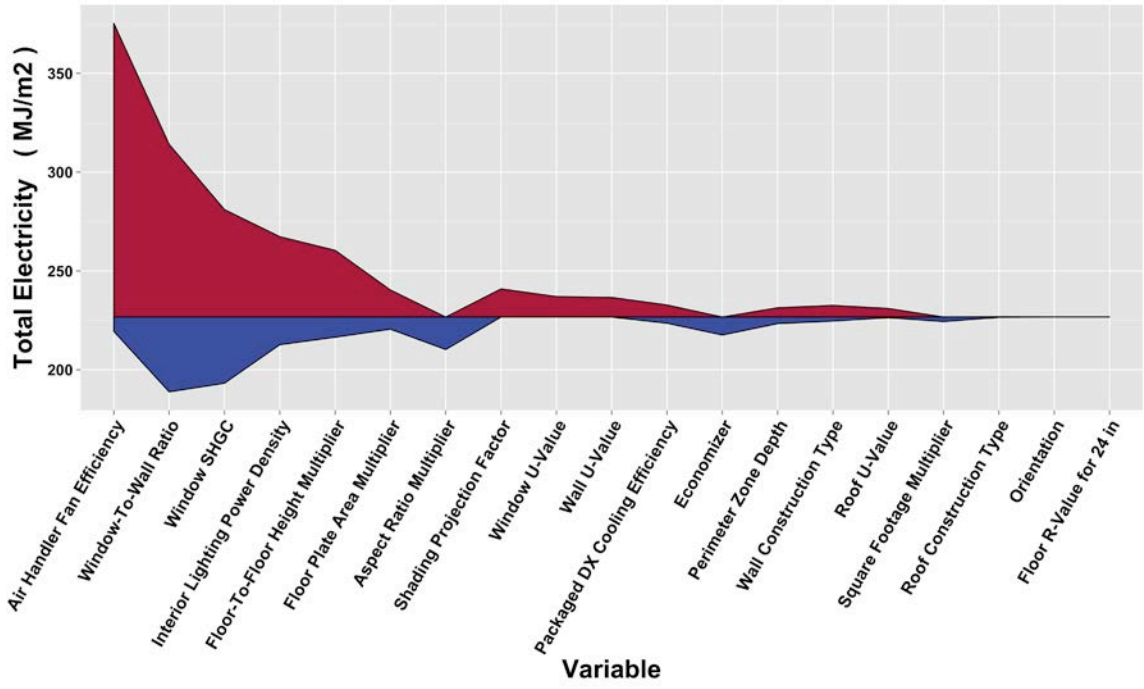
Location: Climate Zone 3A

Total Source Energy

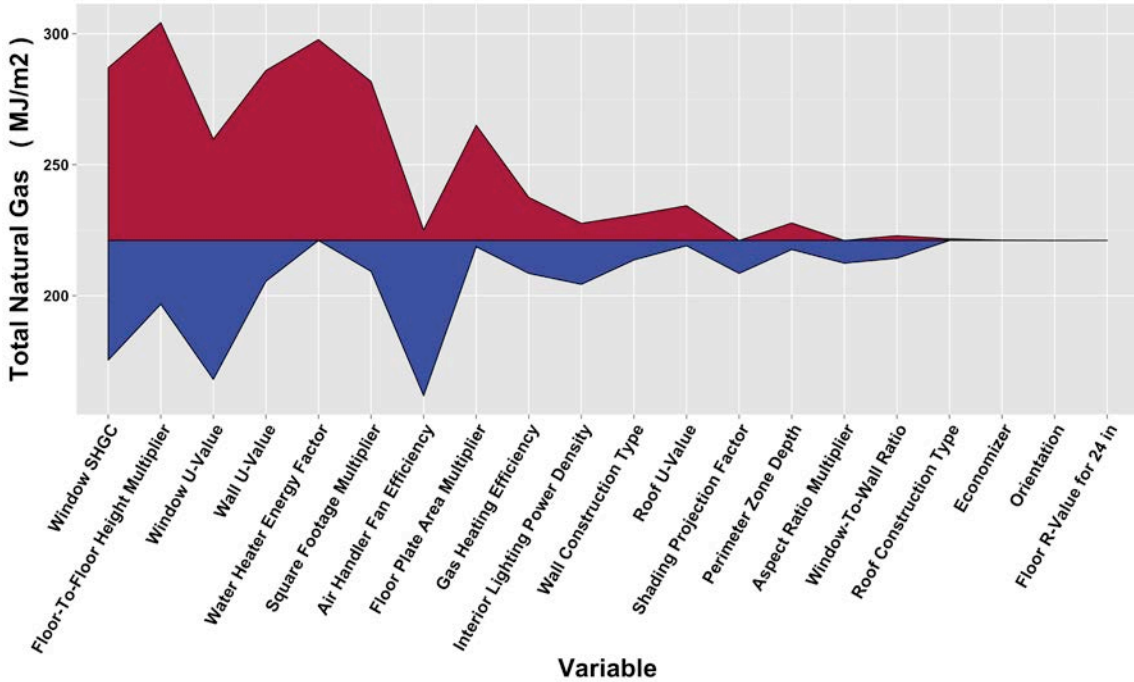
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	904.23	957.59
Floor Plate Area Multiplier	4218	28120	935.52	1048.68
Square Footage Multiplier	25308	253080	941.58	1016.18
Floor-To-Floor Height Multiplier	8	16	898.96	1154.72
Perimeter Zone Depth	10	20	943.35	979.72
Floor R-Value for 24 in	0	0	957.59	957.59
Window-To-Wall Ratio	0	0.71	839.69	1227.04
Window Sill Height	1	6	957.59	957.59
Window U-Value	0.12	1.22	932.91	1012.80
Window SHGC	0.08	0.7	923.00	1080.33
Window VLT	0.06	0.89	957.59	957.59
Wall Construction Type	masonry-on-masonry	wood-siding	955.20	974.15
Wall U-Value	0.03	0.58	941.32	1059.34
Roof Construction Type	built-up concrete-deck	built-up wood-deck	957.59	958.16
Roof U-Value	0.01	0.2	954.44	985.74
Daylighting Control Setpoint	0	0	957.59	957.59
Interior Lighting Power Density	0.04	0.43	920.36	1068.23
Shading Projection Factor	0	1	957.59	989.11
District Chiller Cooling Efficiency	0.52	1.48	957.59	957.59
Air Handler Fan Efficiency	22.66	81.56	938.96	1363.97
Packaged DX Cooling Efficiency	2.18	4.26	947.71	976.93
Gas Heating Efficiency	0.87	1.13	943.97	975.44
Terminal DX Cooling Efficiency	0.68	1.32	957.59	957.59
Terminal Furnace Heating Efficiency	0.87	1.13	957.59	957.59
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	957.59	957.59
Water Heater Energy Factor	1	99	957.59	1040.72
Economizer	false	true	928.90	957.59
Fan Control	cav	false	957.59	957.59
Orientation	0	359	957.52	957.59



Total Electricity



Total Natural Gas

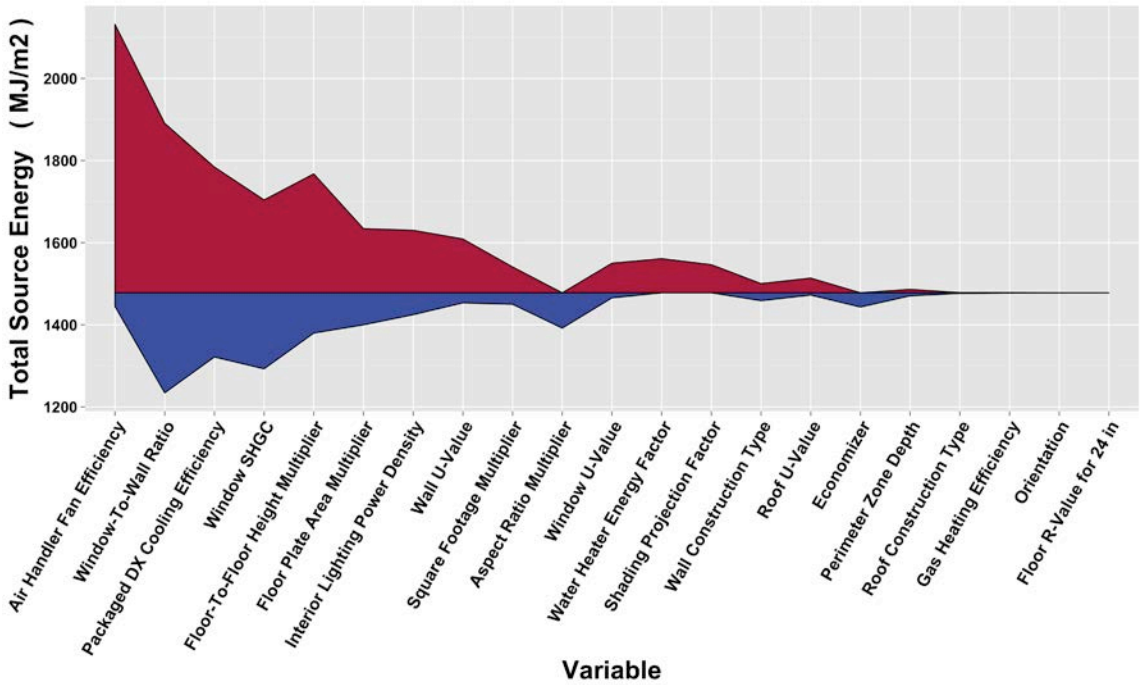


Location: Climate Zone 3B

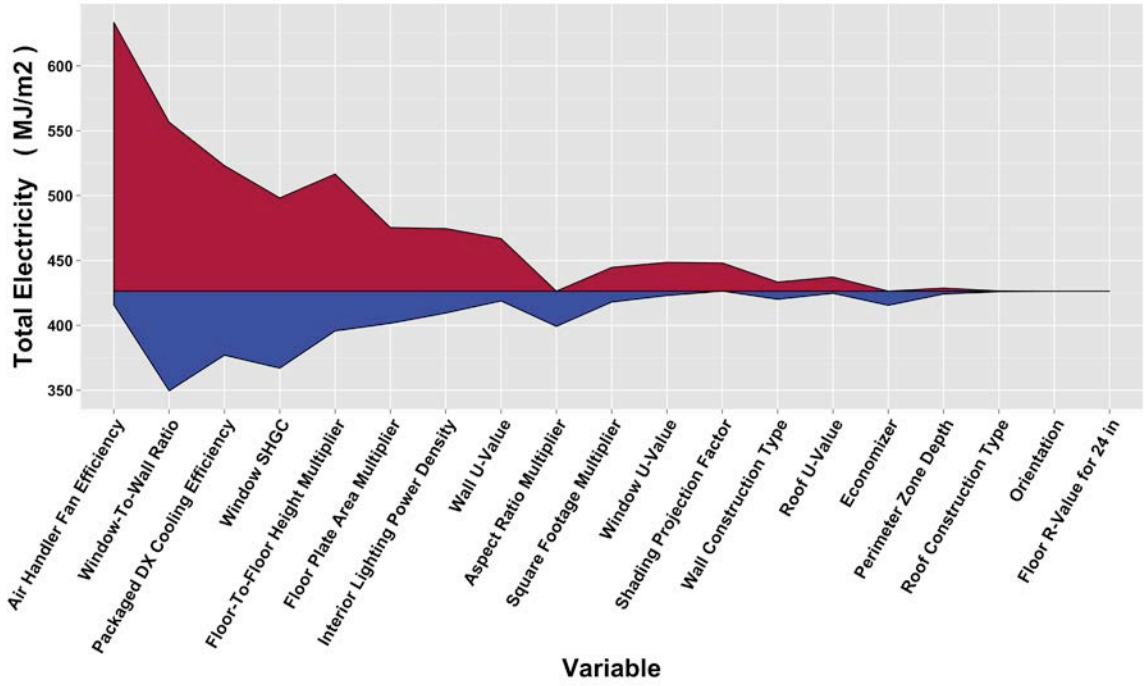
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1391.95	1478.01
Floor Plate Area Multiplier	4218	28120	1399.90	1634.31
Square Footage Multiplier	25308	253080	1450.03	1541.05
Floor-To-Floor Height Multiplier	8	16	1379.87	1767.78
Perimeter Zone Depth	10	20	1470.56	1486.29
Floor R-Value for 24 in	0	0	1478.01	1478.01
Window-To-Wall Ratio	0	0.71	1234.22	1890.99
Window Sill Height	1	6	1478.01	1478.01
Window U-Value	0.12	1.22	1465.55	1550.12
Window SHGC	0.08	0.7	1292.77	1704.30
Window VLT	0.06	0.89	1478.01	1478.01
Wall Construction Type	masonry-on-masonry	wood-siding	1458.74	1500.37
Wall U-Value	0.03	0.58	1453.46	1609.16
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1476.55	1478.45
Roof U-Value	0.01	0.2	1472.48	1513.83
Daylighting Control Setpoint	0	0	1478.01	1478.01
Interior Lighting Power Density	0.04	0.43	1424.68	1630.25
Shading Projection Factor	0	1	1478.01	1546.46

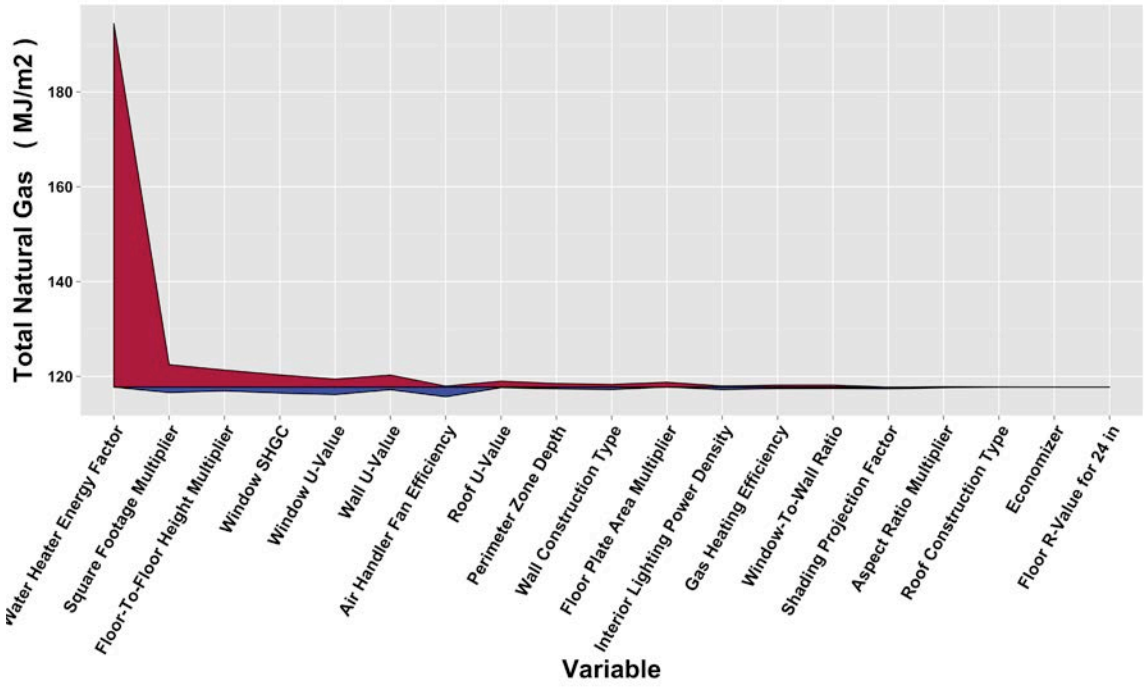
District Chiller Cooling Efficiency	0.52	1.48	1478.01	1478.01
Air Handler Fan Efficiency	22.66	81.56	1444.72	2131.89
Packaged DX Cooling Efficiency	2.18	4.26	1321.55	1784.40
Gas Heating Efficiency	0.87	1.13	1477.66	1478.45
Terminal DX Cooling Efficiency	0.68	1.32	1478.01	1478.01
Terminal Furnace Heating Efficiency	0.87	1.13	1478.01	1478.01
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1478.01	1478.01
Water Heater Energy Factor	1	99	1478.01	1561.12
Economizer	false	true	1443.28	1478.01
Fan Control	cav	false	1478.01	1478.01
Orientation	0	359	1477.82	1478.01



Total Electricity



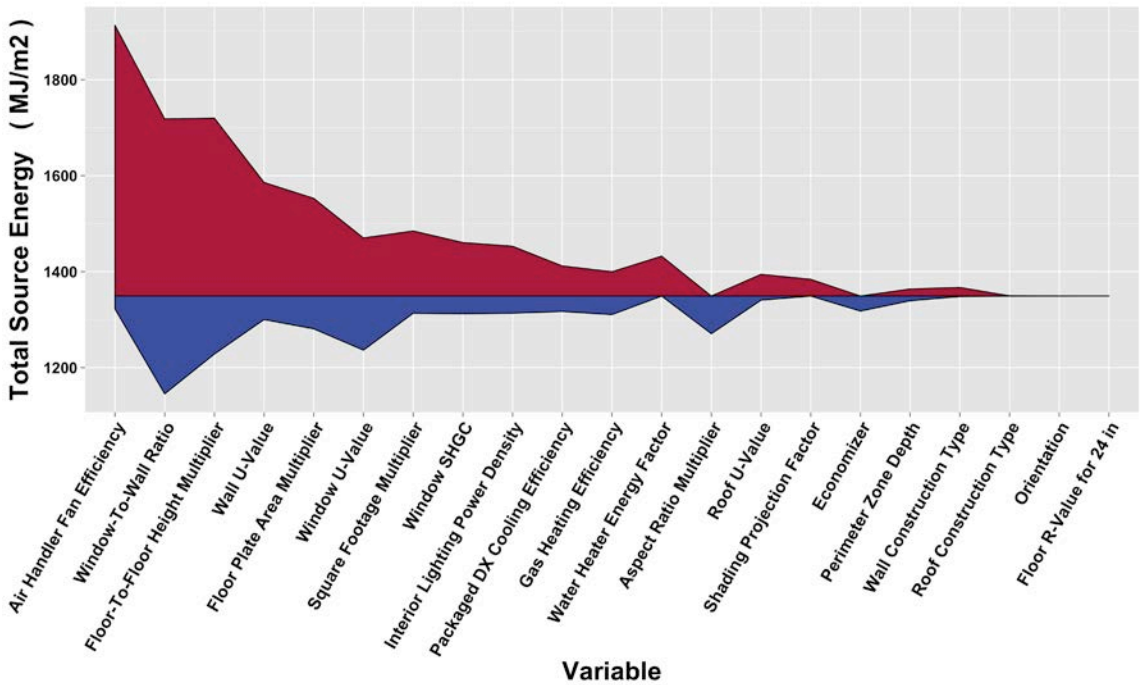
Total Natural Gas



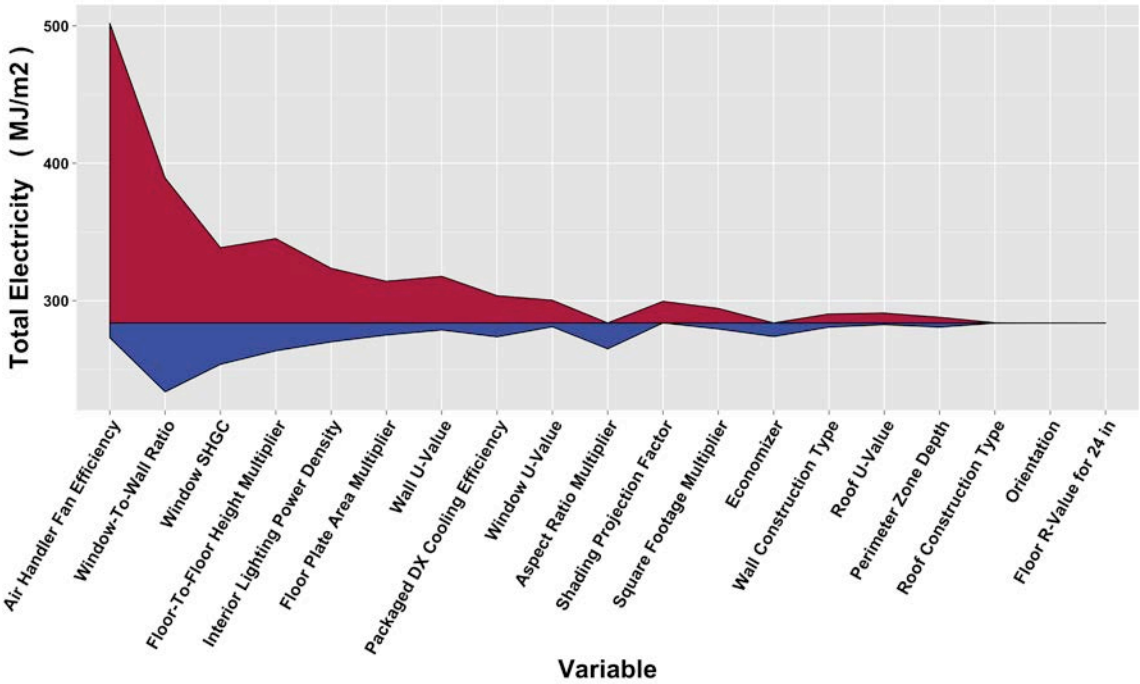
Location: Climate Zone 3C

Total Source Energy

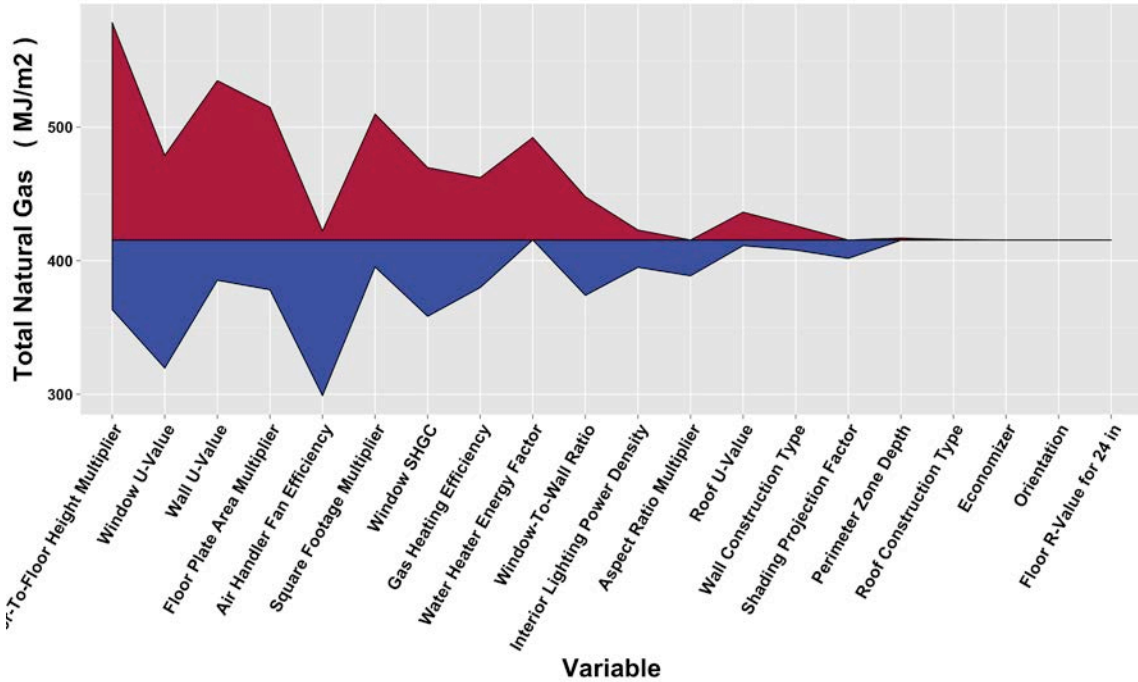
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1270.78	1349.24
Floor Plate Area Multiplier	4218	28120	1280.97	1552.78
Square Footage Multiplier	25308	253080	1313.45	1484.84
Floor-To-Floor Height Multiplier	8	16	1228.49	1719.95
Perimeter Zone Depth	10	20	1339.45	1363.85
Floor R-Value for 24 in	0	0	1349.24	1349.24
Window-To-Wall Ratio	0	0.71	1145.45	1718.22
Window Sill Height	1	6	1349.24	1349.24
Window U-Value	0.12	1.22	1236.48	1470.27
Window SHGC	0.08	0.7	1312.64	1460.69
Window VLT	0.06	0.89	1349.24	1349.24
Wall Construction Type	masonry-on-masonry	wood-siding	1348.36	1367.12
Wall U-Value	0.03	0.58	1300.31	1585.92
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1349.01	1349.66
Roof U-Value	0.01	0.2	1340.75	1394.48
Daylighting Control Setpoint	0	0	1349.24	1349.24
Interior Lighting Power Density	0.04	0.43	1313.63	1453.00
Shading Projection Factor	0	1	1349.24	1384.06
District Chiller Cooling Efficiency	0.52	1.48	1349.24	1349.24
Air Handler Fan Efficiency	22.66	81.56	1322.26	1913.24
Packaged DX Cooling Efficiency	2.18	4.26	1317.19	1411.99
Gas Heating Efficiency	0.87	1.13	1310.64	1399.83
Terminal DX Cooling Efficiency	0.68	1.32	1349.24	1349.24
Terminal Furnace Heating Efficiency	0.87	1.13	1349.24	1349.24
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1349.24	1349.24
Water Heater Energy Factor	1	99	1349.24	1432.37
Economizer	false	true	1317.95	1349.24
Fan Control	cav	false	1349.24	1349.24
Orientation	0	359	1349.10	1349.24



Total Electricity



Total Natural Gas

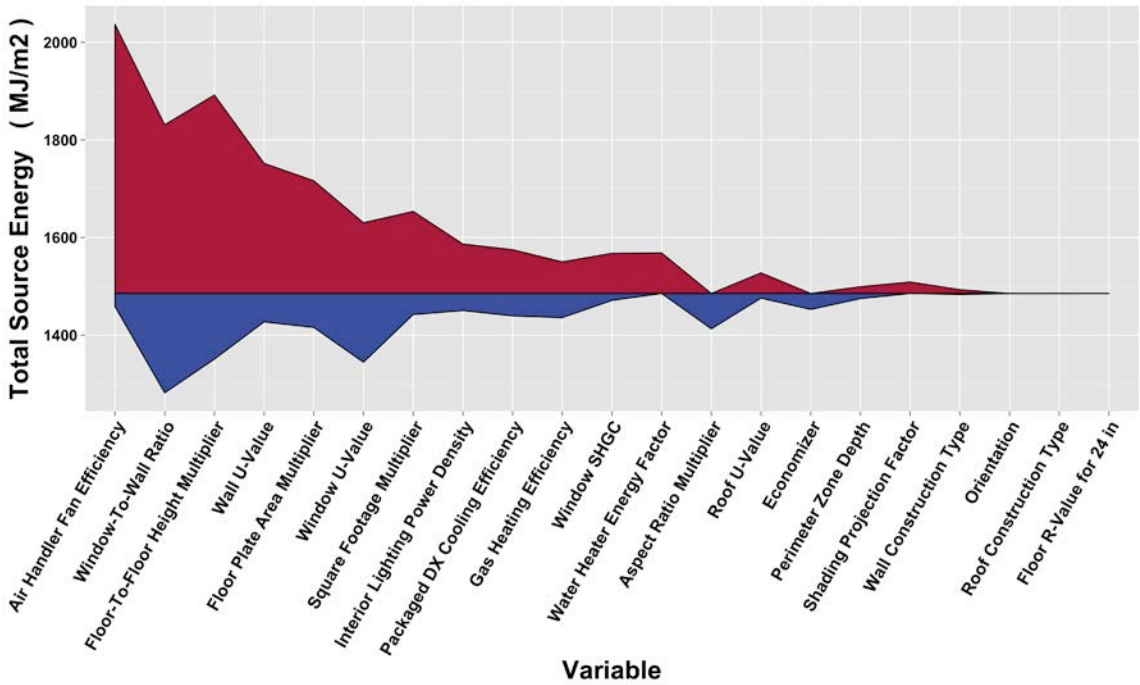


Location: Climate Zone 4A

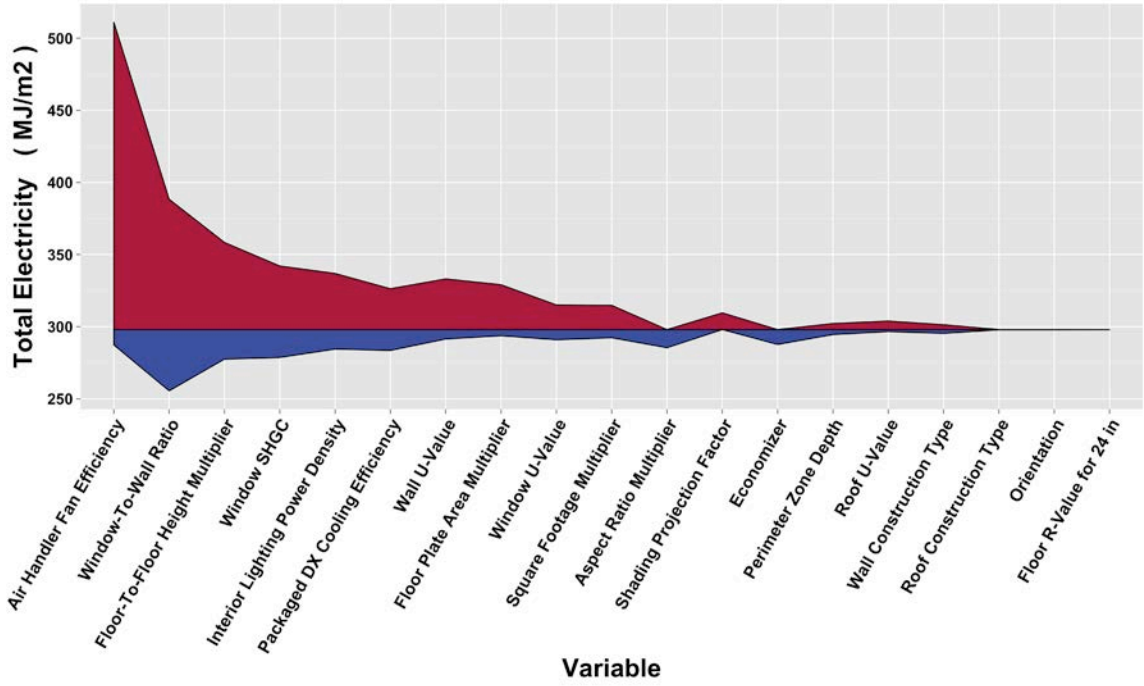
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1413.02	1485.37
Floor Plate Area Multiplier	4218	28120	1415.85	1716.36
Square Footage Multiplier	25308	253080	1442.21	1653.58
Floor-To-Floor Height Multiplier	8	16	1350.97	1891.96
Perimeter Zone Depth	10	20	1474.91	1499.24
Floor R-Value for 24 in	0	0	1485.37	1485.37
Window-To-Wall Ratio	0	0.71	1281.82	1831.09
Window Sill Height	1	6	1485.37	1485.37
Window U-Value	0.12	1.22	1344.47	1630.28
Window SHGC	0.08	0.7	1471.28	1567.71
Window VLT	0.06	0.89	1485.37	1485.37
Wall Construction Type	masonry-on-masonry	wood-siding	1483.47	1493.19
Wall U-Value	0.03	0.58	1427.20	1752.02
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1485.14	1485.50
Roof U-Value	0.01	0.2	1475.84	1527.75
Daylighting Control Setpoint	0	0	1485.37	1485.37
Interior Lighting Power Density	0.04	0.43	1450.52	1586.79
Shading Projection Factor	0	1	1485.37	1508.96

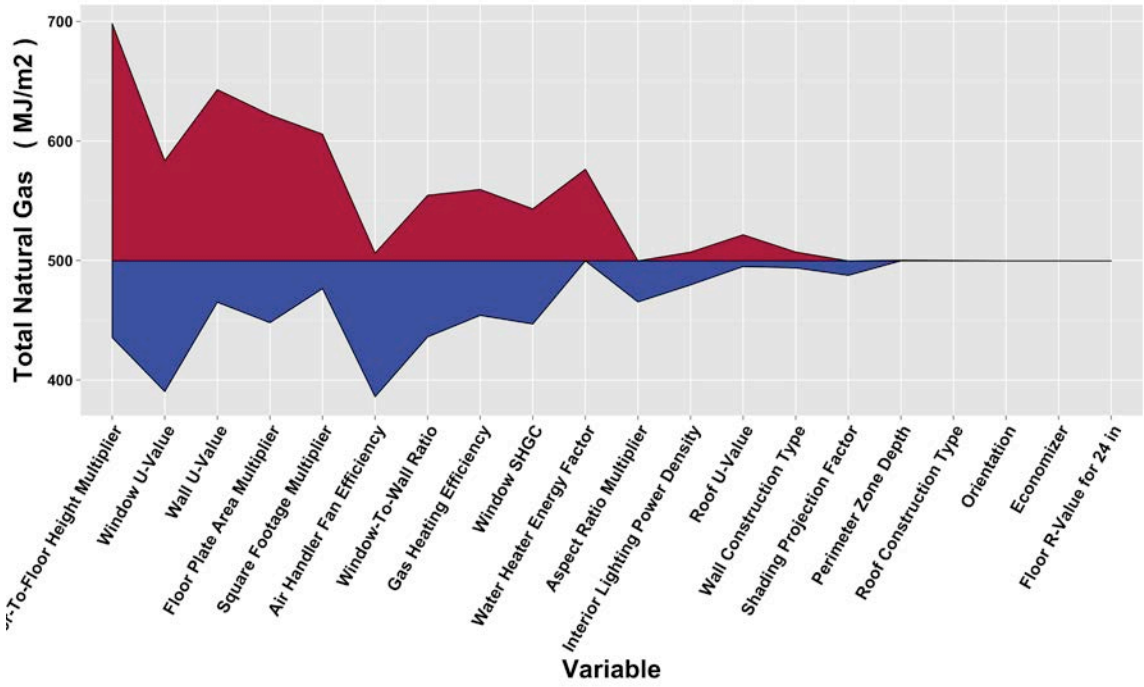
District Chiller Cooling Efficiency	0.52	1.48	1485.37	1485.37
Air Handler Fan Efficiency	22.66	81.56	1458.71	2036.68
Packaged DX Cooling Efficiency	2.18	4.26	1439.56	1575.10
Gas Heating Efficiency	0.87	1.13	1435.95	1550.16
Terminal DX Cooling Efficiency	0.68	1.32	1485.37	1485.37
Terminal Furnace Heating Efficiency	0.87	1.13	1485.37	1485.37
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1485.37	1485.37
Water Heater Energy Factor	1	99	1485.37	1568.51
Economizer	false	true	1452.73	1485.37
Fan Control	cav	false	1485.37	1485.37
Orientation	0	359	1484.99	1485.37



Total Electricity



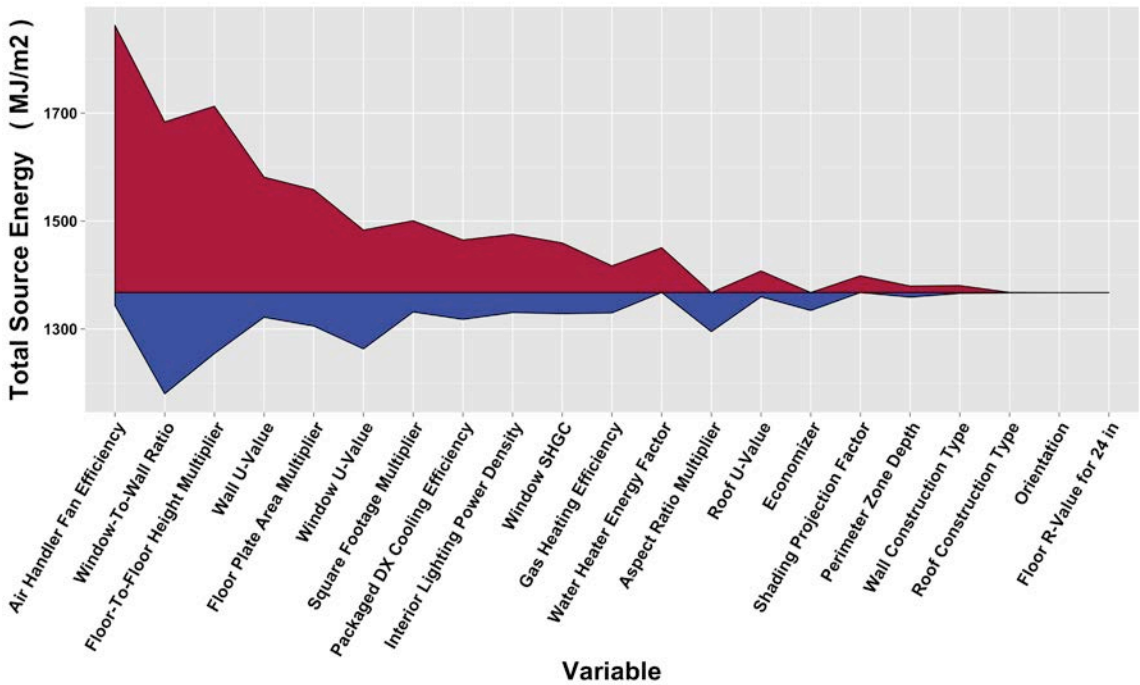
Total Natural Gas



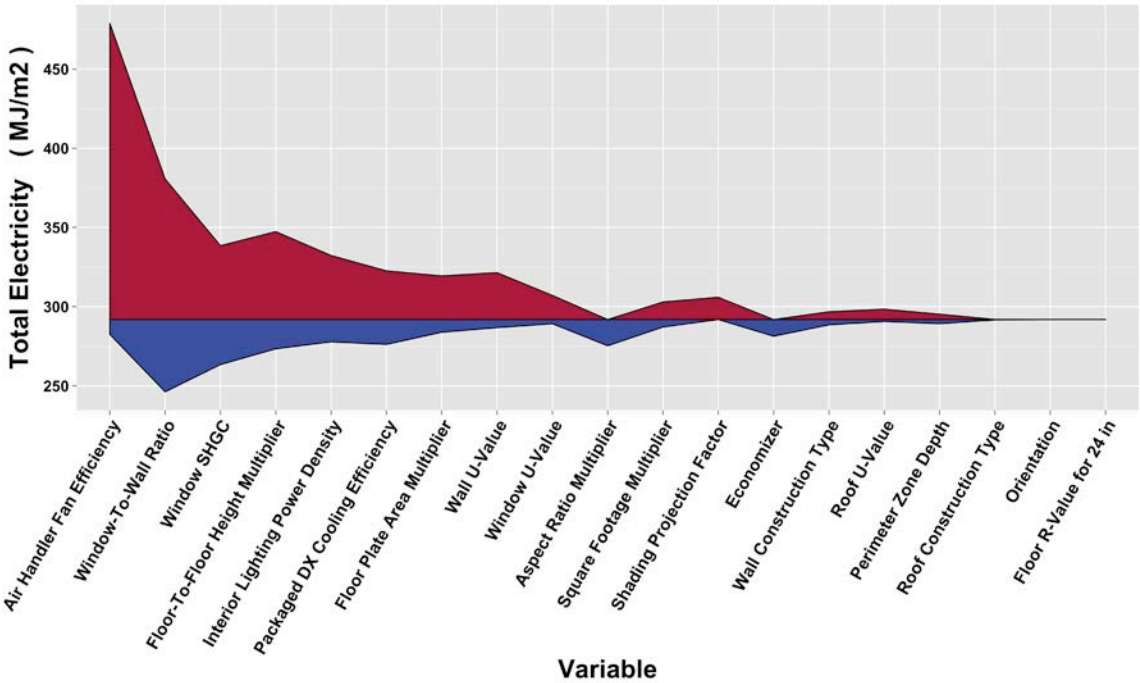
Location: Climate Zone 4B

Total Source Energy

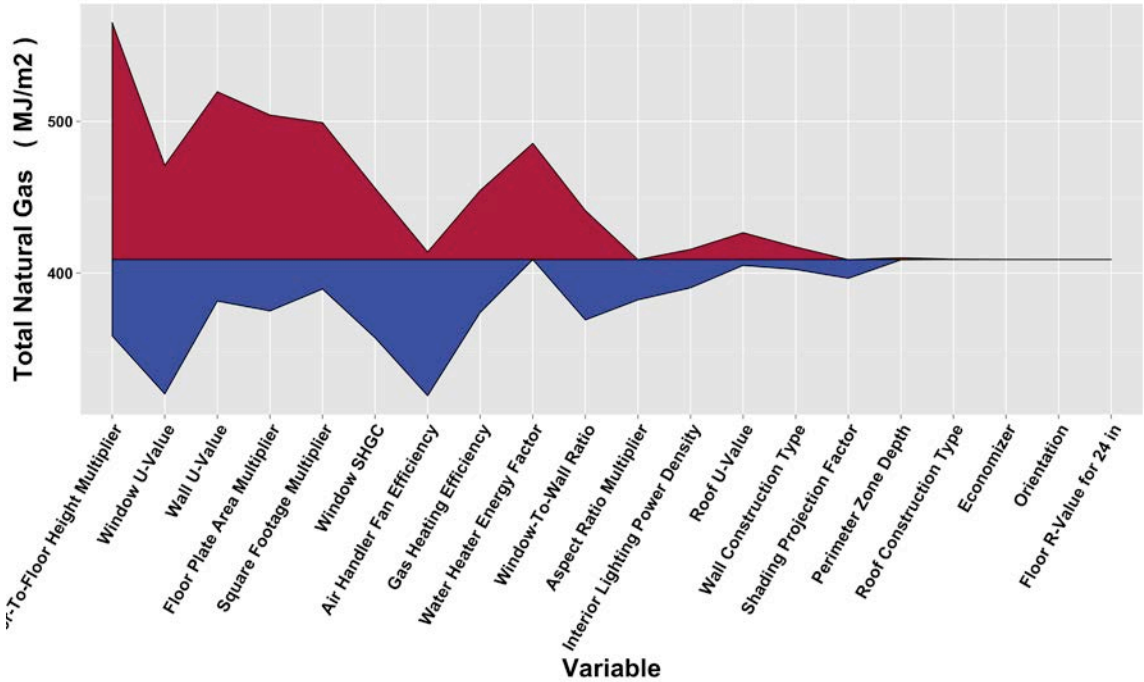
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1294.92	1367.45
Floor Plate Area Multiplier	4218	28120	1305.32	1558.09
Square Footage Multiplier	25308	253080	1331.39	1500.56
Floor-To-Floor Height Multiplier	8	16	1254.36	1712.82
Perimeter Zone Depth	10	20	1358.92	1379.50
Floor R-Value for 24 in	0	0	1367.45	1367.45
Window-To-Wall Ratio	0	0.71	1179.64	1683.72
Window Sill Height	1	6	1367.45	1367.45
Window U-Value	0.12	1.22	1263.01	1483.19
Window SHGC	0.08	0.7	1328.46	1459.36
Window VLT	0.06	0.89	1367.45	1367.45
Wall Construction Type	masonry-on-masonry	wood-siding	1365.81	1380.38
Wall U-Value	0.03	0.58	1321.61	1581.27
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1367.06	1367.71
Roof U-Value	0.01	0.2	1359.51	1407.40
Daylighting Control Setpoint	0	0	1367.45	1367.45
Interior Lighting Power Density	0.04	0.43	1330.23	1475.42
Shading Projection Factor	0	1	1367.45	1398.57
District Chiller Cooling Efficiency	0.52	1.48	1367.45	1367.45
Air Handler Fan Efficiency	22.66	81.56	1343.25	1862.61
Packaged DX Cooling Efficiency	2.18	4.26	1317.71	1464.85
Gas Heating Efficiency	0.87	1.13	1329.69	1416.93
Terminal DX Cooling Efficiency	0.68	1.32	1367.45	1367.45
Terminal Furnace Heating Efficiency	0.87	1.13	1367.45	1367.45
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1367.45	1367.45
Water Heater Energy Factor	1	99	1367.45	1450.58
Economizer	false	true	1334.14	1367.45
Fan Control	cav	false	1367.45	1367.45
Orientation	0	359	1367.28	1367.45



Total Electricity



Total Natural Gas

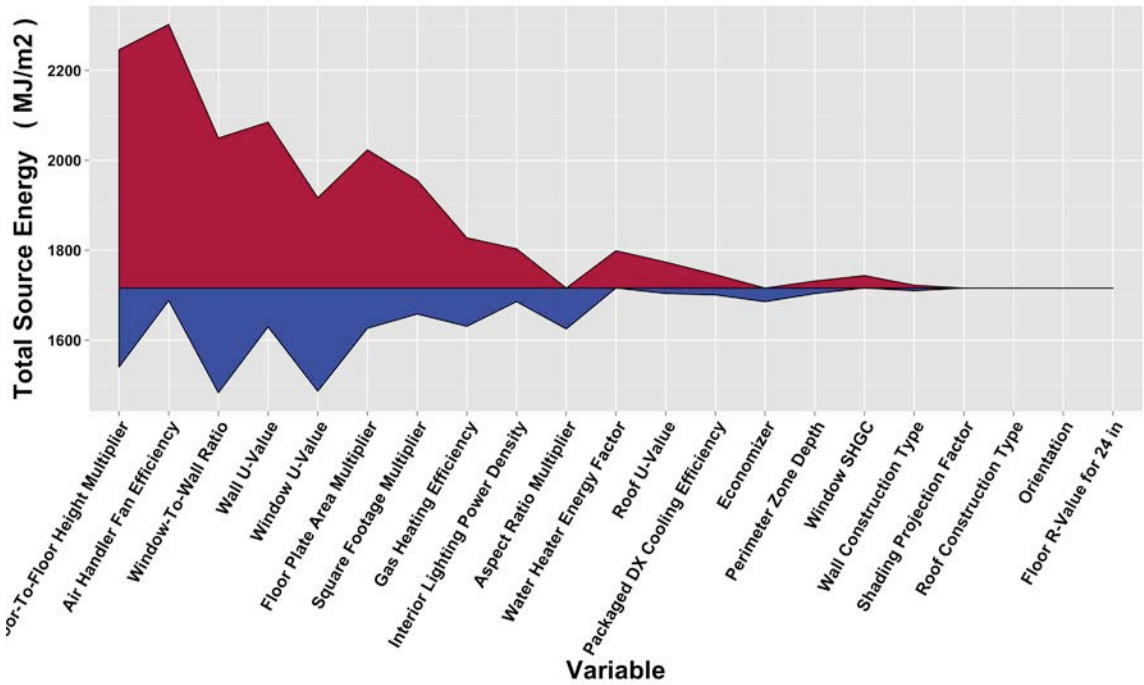


Location: Climate Zone 4C

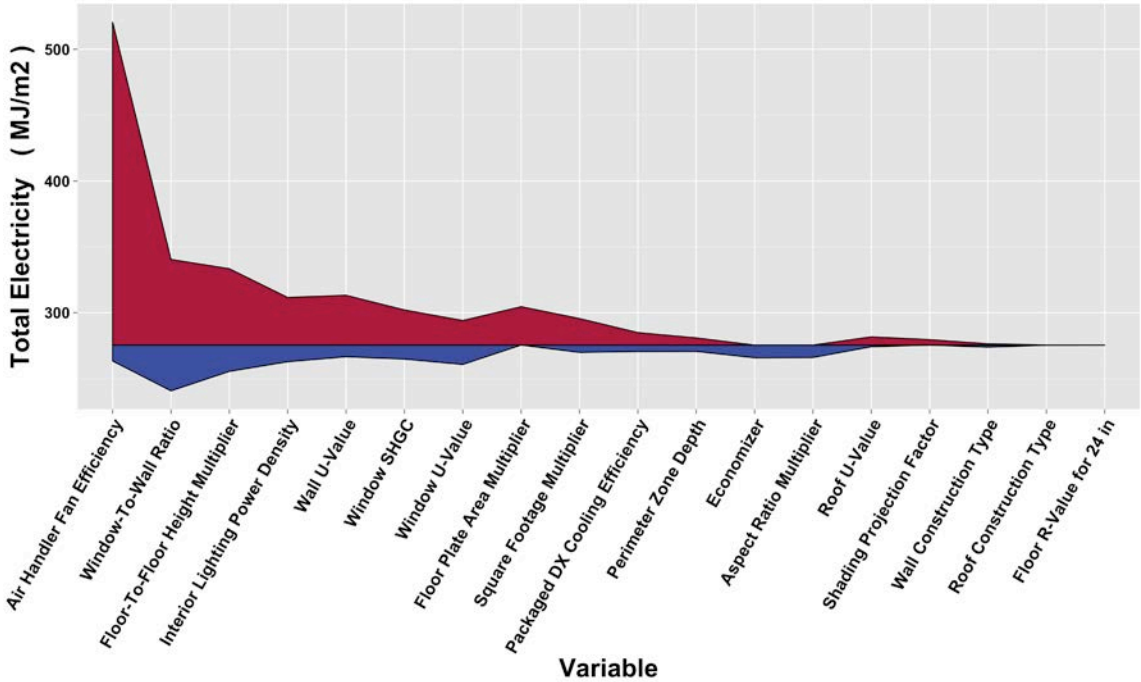
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1624.87	1716.01
Floor Plate Area Multiplier	4218	28120	1626.42	2023.55
Square Footage Multiplier	25308	253080	1658.11	1955.90
Floor-To-Floor Height Multiplier	8	16	1540.06	2246.11
Perimeter Zone Depth	10	20	1703.64	1731.62
Floor R-Value for 24 in	0	0	1716.01	1716.01
Window-To-Wall Ratio	0	0.71	1482.84	2049.57
Window Sill Height	1	6	1716.01	1716.01
Window U-Value	0.12	1.22	1486.41	1916.83
Window SHGC	0.08	0.7	1716.01	1743.82
Window VLT	0.06	0.89	1716.01	1716.01
Wall Construction Type	masonry-on-masonry	wood-siding	1710.00	1722.38
Wall U-Value	0.03	0.58	1629.62	2085.13
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1716.01	1716.21
Roof U-Value	0.01	0.2	1703.76	1773.68
Daylighting Control Setpoint	0	0	1716.01	1716.01
Interior Lighting Power Density	0.04	0.43	1685.73	1803.33
Shading Projection Factor	0	1	1715.65	1716.01

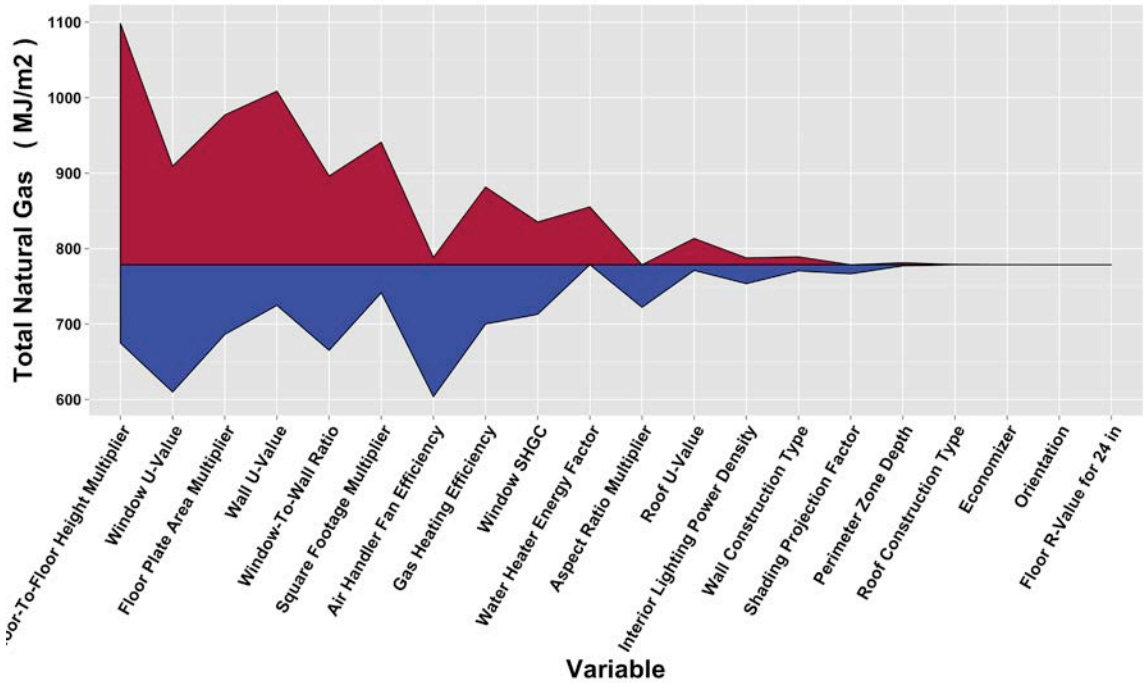
District Chiller Cooling Efficiency	0.52	1.48	1716.01	1716.01
Air Handler Fan Efficiency	22.66	81.56	1688.15	2302.48
Packaged DX Cooling Efficiency	2.18	4.26	1700.65	1746.08
Gas Heating Efficiency	0.87	1.13	1630.75	1827.76
Terminal DX Cooling Efficiency	0.68	1.32	1716.01	1716.01
Terminal Furnace Heating Efficiency	0.87	1.13	1716.01	1716.01
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1716.01	1716.01
Water Heater Energy Factor	1	99	1716.01	1799.15
Economizer	false	true	1685.52	1716.01
Fan Control	cav	false	1716.01	1716.01
Orientation	0	359	1715.91	1716.01



Total Electricity



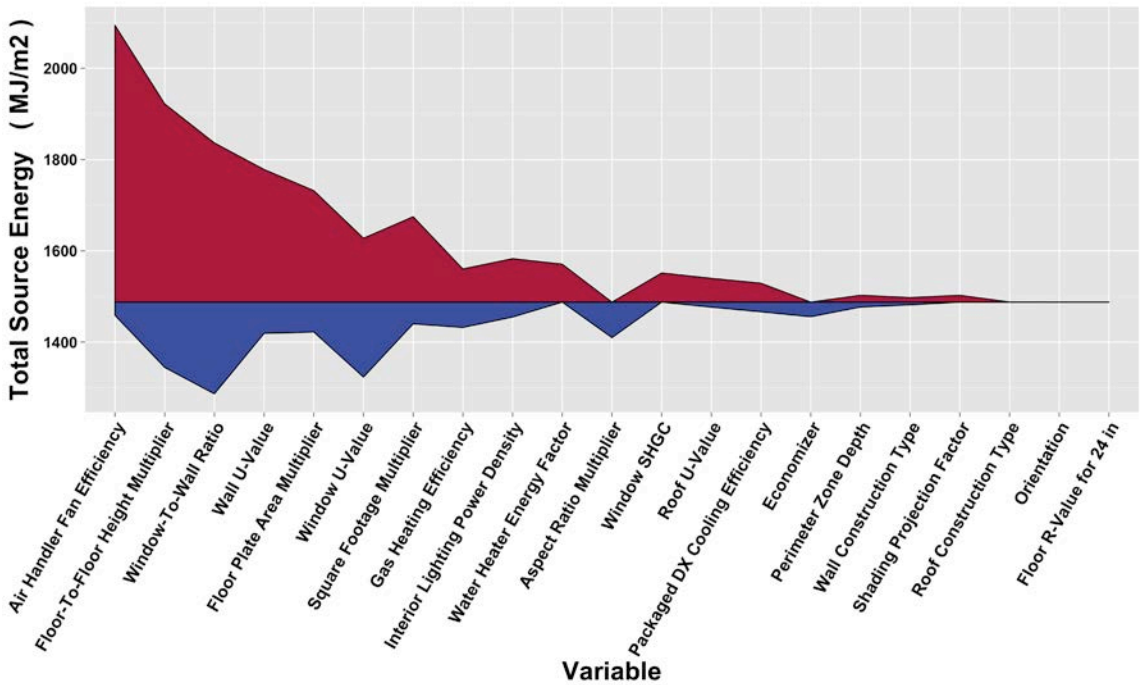
Total Natural Gas



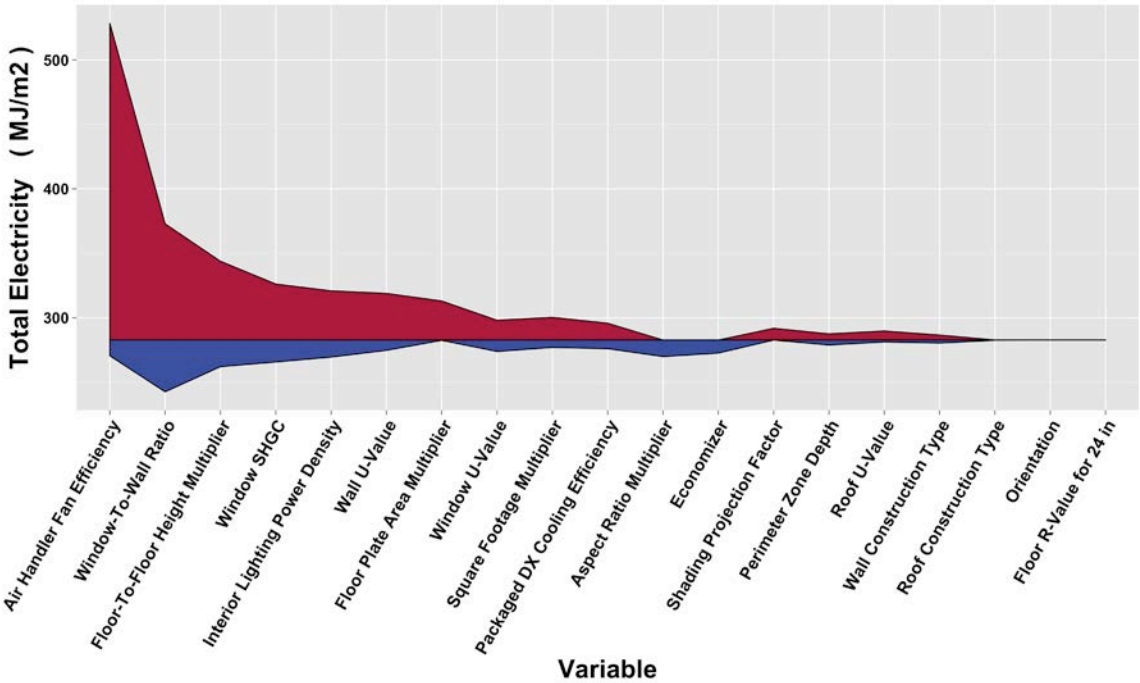
Location: Climate Zone 5A

Total Source Energy

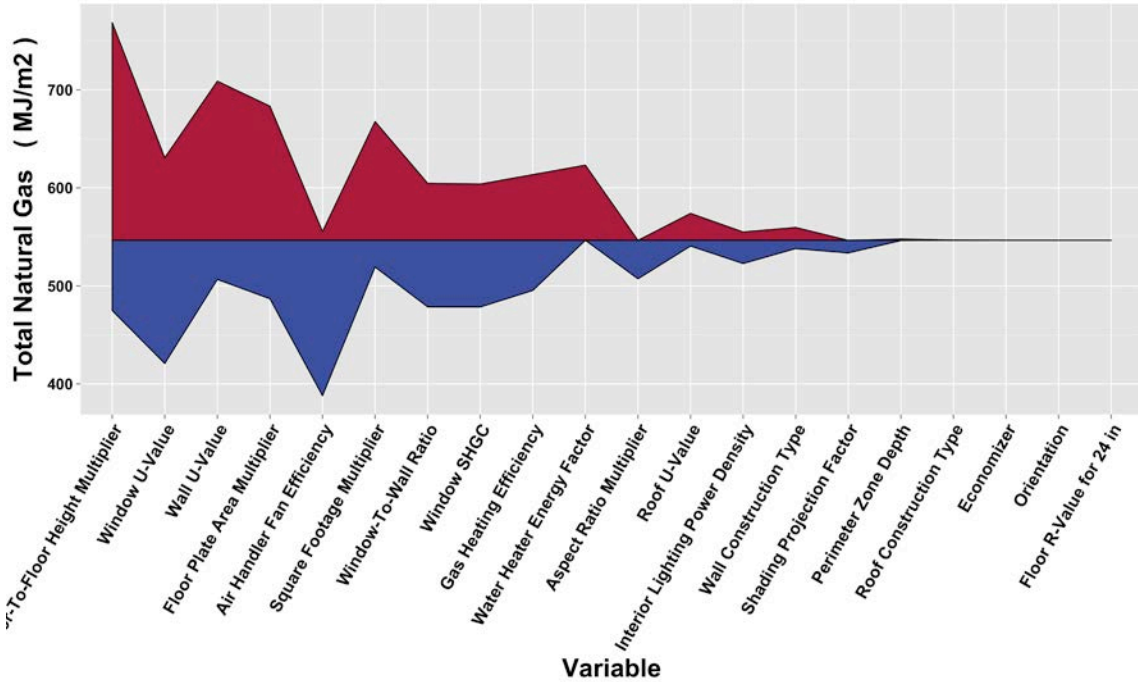
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1409.83	1487.57
Floor Plate Area Multiplier	4218	28120	1422.21	1731.93
Square Footage Multiplier	25308	253080	1440.03	1674.70
Floor-To-Floor Height Multiplier	8	16	1344.59	1921.97
Perimeter Zone Depth	10	20	1476.82	1502.56
Floor R-Value for 24 in	0	0	1487.57	1487.57
Window-To-Wall Ratio	0	0.71	1286.63	1836.29
Window Sill Height	1	6	1487.57	1487.57
Window U-Value	0.12	1.22	1323.37	1627.60
Window SHGC	0.08	0.7	1487.57	1551.48
Window VLT	0.06	0.89	1487.57	1487.57
Wall Construction Type	masonry-on-masonry	wood-siding	1481.71	1497.49
Wall U-Value	0.03	0.58	1419.08	1778.19
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1487.45	1487.81
Roof U-Value	0.01	0.2	1476.66	1539.66
Daylighting Control Setpoint	0	0	1487.57	1487.57
Interior Lighting Power Density	0.04	0.43	1454.97	1582.80
Shading Projection Factor	0	1	1487.57	1502.53
District Chiller Cooling Efficiency	0.52	1.48	1487.57	1487.57
Air Handler Fan Efficiency	22.66	81.56	1458.64	2093.87
Packaged DX Cooling Efficiency	2.18	4.26	1466.42	1528.98
Gas Heating Efficiency	0.87	1.13	1432.13	1560.23
Terminal DX Cooling Efficiency	0.68	1.32	1487.57	1487.57
Terminal Furnace Heating Efficiency	0.87	1.13	1487.57	1487.57
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1487.57	1487.57
Water Heater Energy Factor	1	99	1487.57	1570.71
Economizer	false	true	1455.66	1487.57
Fan Control	cav	false	1487.57	1487.57
Orientation	0	359	1487.49	1487.58



Total Electricity



Total Natural Gas

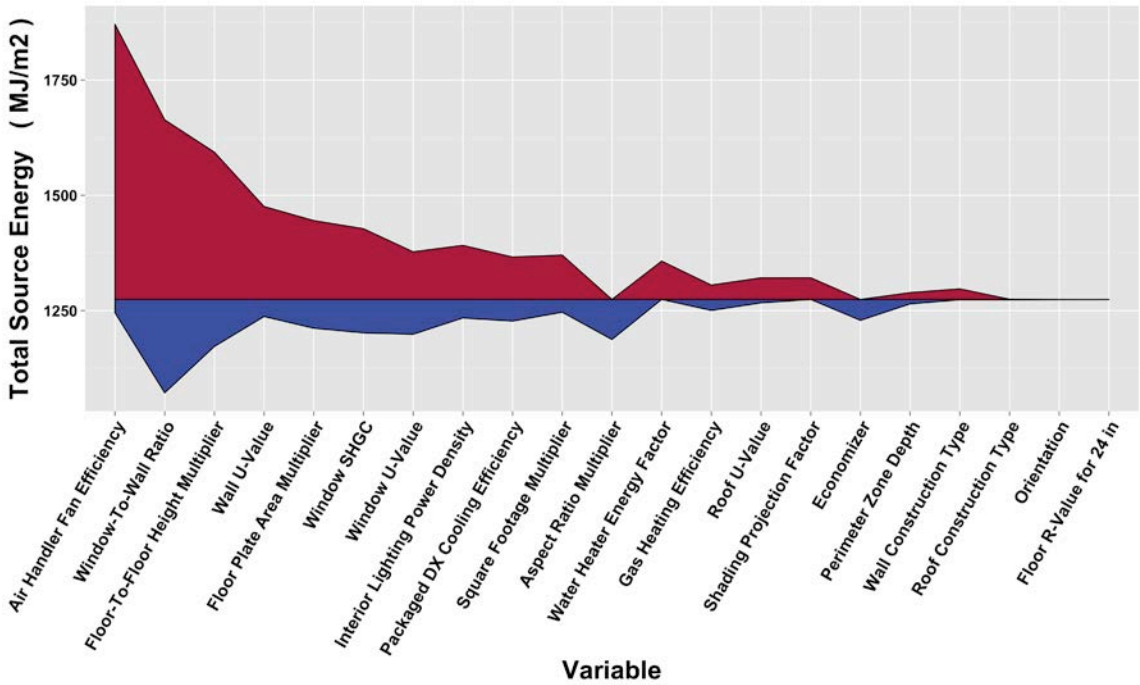


Location: Climate Zone 5B

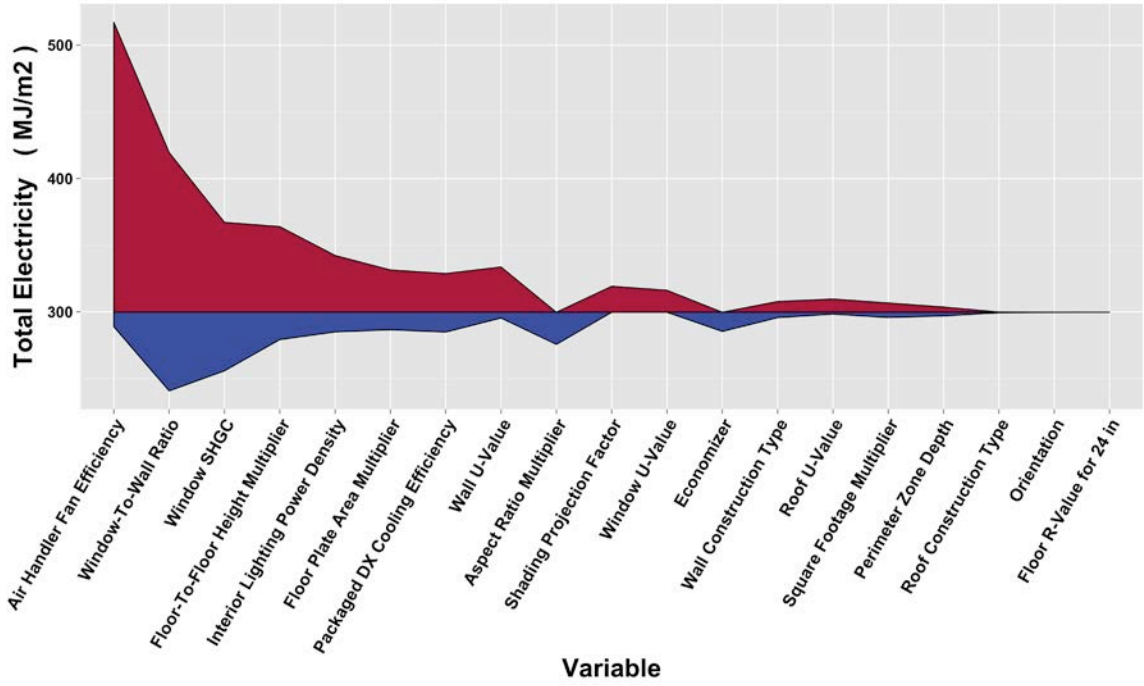
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1187.35	1274.23
Floor Plate Area Multiplier	4218	28120	1211.86	1445.24
Square Footage Multiplier	25308	253080	1246.54	1370.41
Floor-To-Floor Height Multiplier	8	16	1172.31	1593.64
Perimeter Zone Depth	10	20	1264.59	1289.04
Floor R-Value for 24 in	0	0	1274.23	1274.23
Window-To-Wall Ratio	0	0.71	1071.67	1663.87
Window Sill Height	1	6	1274.23	1274.23
Window U-Value	0.12	1.22	1198.76	1377.54
Window SHGC	0.08	0.7	1201.79	1427.63
Window VLT	0.06	0.89	1274.23	1274.23
Wall Construction Type	masonry-on-masonry	wood-siding	1273.52	1297.23
Wall U-Value	0.03	0.58	1237.16	1475.75
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1273.67	1274.71
Roof U-Value	0.01	0.2	1266.83	1321.15
Daylighting Control Setpoint	0	0	1274.23	1274.23
Interior Lighting Power Density	0.04	0.43	1234.11	1391.54
Shading Projection Factor	0	1	1274.23	1321.33

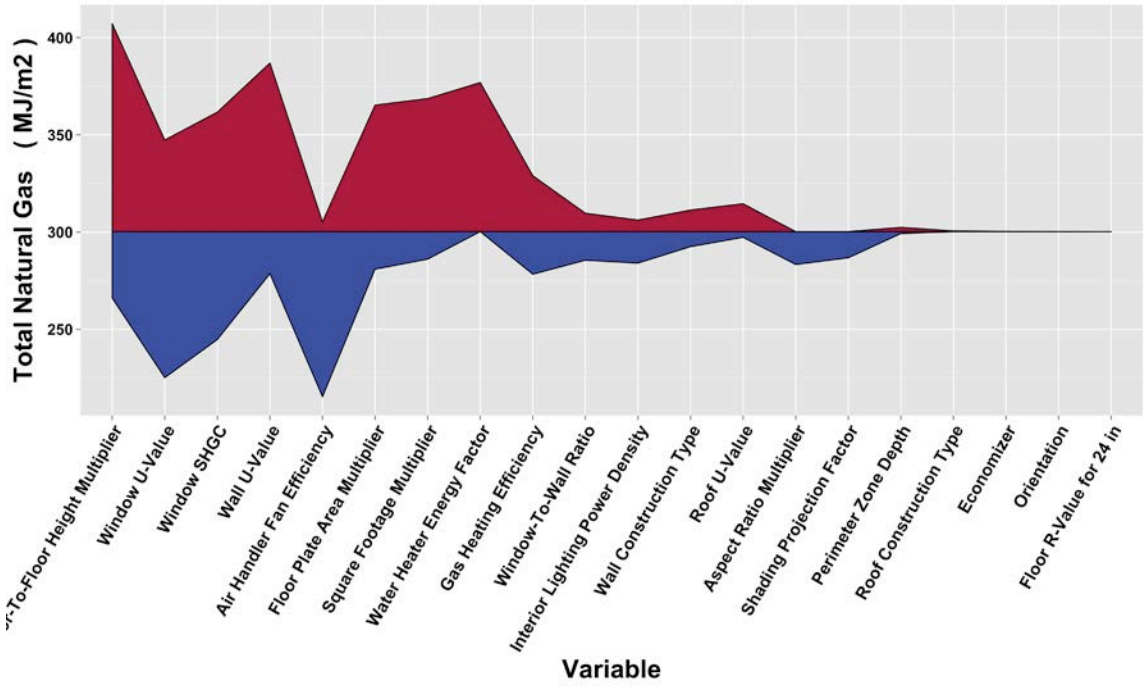
District Chiller Cooling Efficiency	0.52	1.48	1274.23	1274.23
Air Handler Fan Efficiency	22.66	81.56	1245.37	1870.68
Packaged DX Cooling Efficiency	2.18	4.26	1227.27	1366.20
Gas Heating Efficiency	0.87	1.13	1250.44	1305.41
Terminal DX Cooling Efficiency	0.68	1.32	1274.23	1274.23
Terminal Furnace Heating Efficiency	0.87	1.13	1274.23	1274.23
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1274.23	1274.23
Water Heater Energy Factor	1	99	1274.23	1357.36
Economizer	false	true	1228.92	1274.23
Fan Control	cav	false	1274.23	1274.23
Orientation	0	359	1274.05	1274.23



Total Electricity



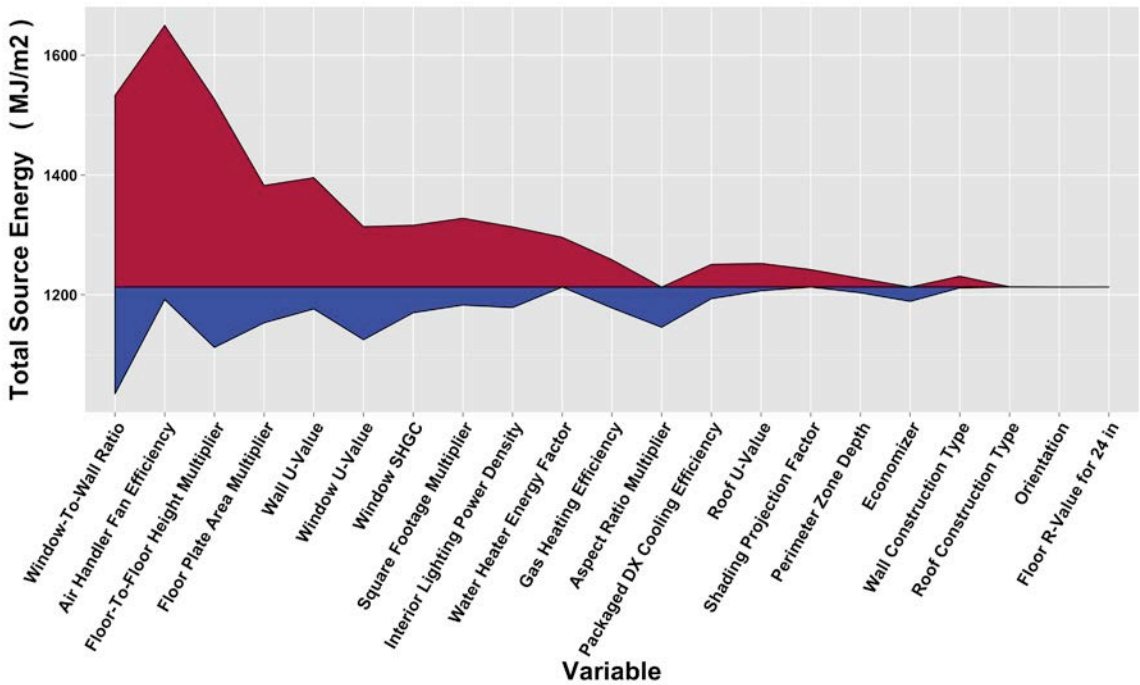
Total Natural Gas



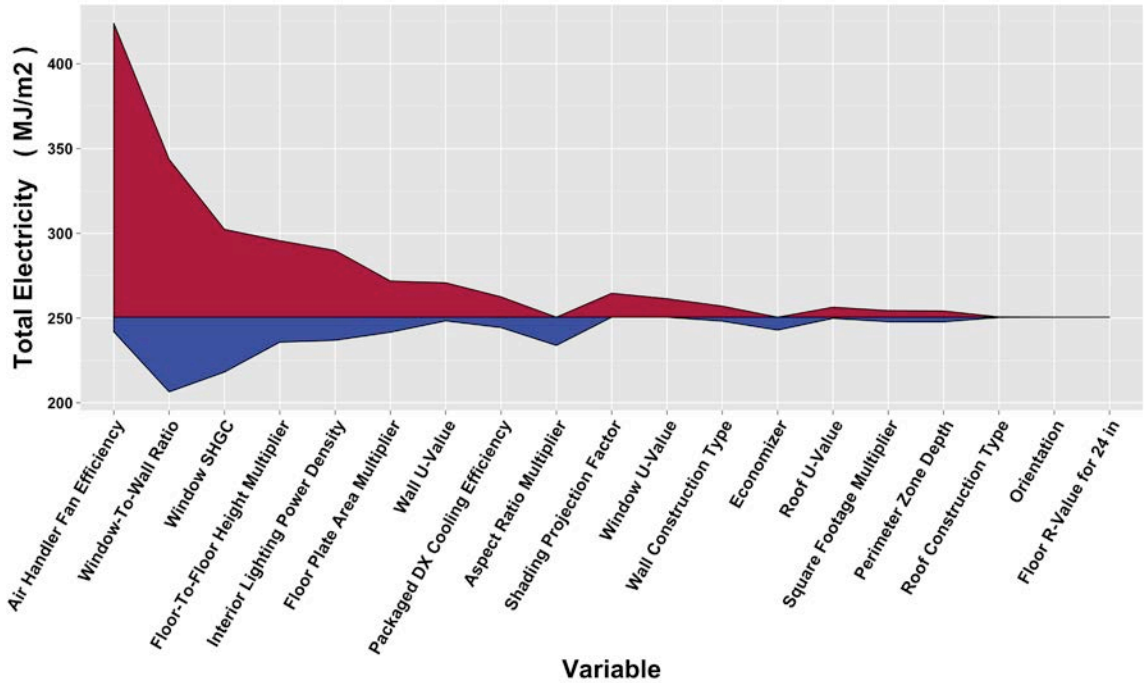
Location: Climate Zone 5C

Total Source Energy

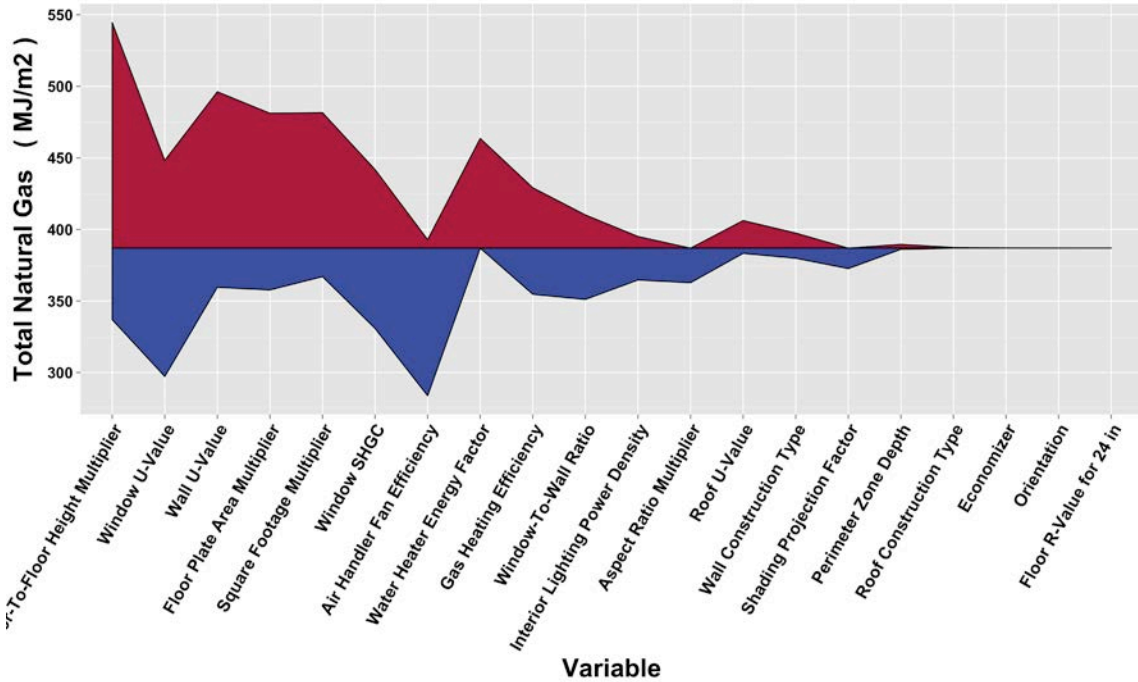
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1145.63	1212.78
Floor Plate Area Multiplier	4218	28120	1153.10	1382.50
Square Footage Multiplier	25308	253080	1182.78	1327.72
Floor-To-Floor Height Multiplier	8	16	1111.96	1526.49
Perimeter Zone Depth	10	20	1203.20	1227.27
Floor R-Value for 24 in	0	0	1212.78	1212.78
Window-To-Wall Ratio	0	0.71	1034.48	1532.79
Window Sill Height	1	6	1212.78	1212.78
Window U-Value	0.12	1.22	1124.83	1313.80
Window SHGC	0.08	0.7	1169.87	1315.97
Window VLT	0.06	0.89	1212.78	1212.78
Wall Construction Type	masonry-on-masonry	wood-siding	1211.45	1230.99
Wall U-Value	0.03	0.58	1176.26	1395.51
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1212.74	1213.30
Roof U-Value	0.01	0.2	1206.64	1252.40
Daylighting Control Setpoint	0	0	1212.78	1212.78
Interior Lighting Power Density	0.04	0.43	1178.49	1313.34
Shading Projection Factor	0	1	1212.78	1242.03
District Chiller Cooling Efficiency	0.52	1.48	1212.78	1212.78
Air Handler Fan Efficiency	22.66	81.56	1191.96	1649.84
Packaged DX Cooling Efficiency	2.18	4.26	1193.38	1250.76
Gas Heating Efficiency	0.87	1.13	1177.85	1258.56
Terminal DX Cooling Efficiency	0.68	1.32	1212.78	1212.78
Terminal Furnace Heating Efficiency	0.87	1.13	1212.78	1212.78
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1212.78	1212.78
Water Heater Energy Factor	1	99	1212.78	1295.92
Economizer	false	true	1188.79	1212.78
Fan Control	cav	false	1212.78	1212.78
Orientation	0	359	1212.59	1212.78



Total Electricity



Total Natural Gas

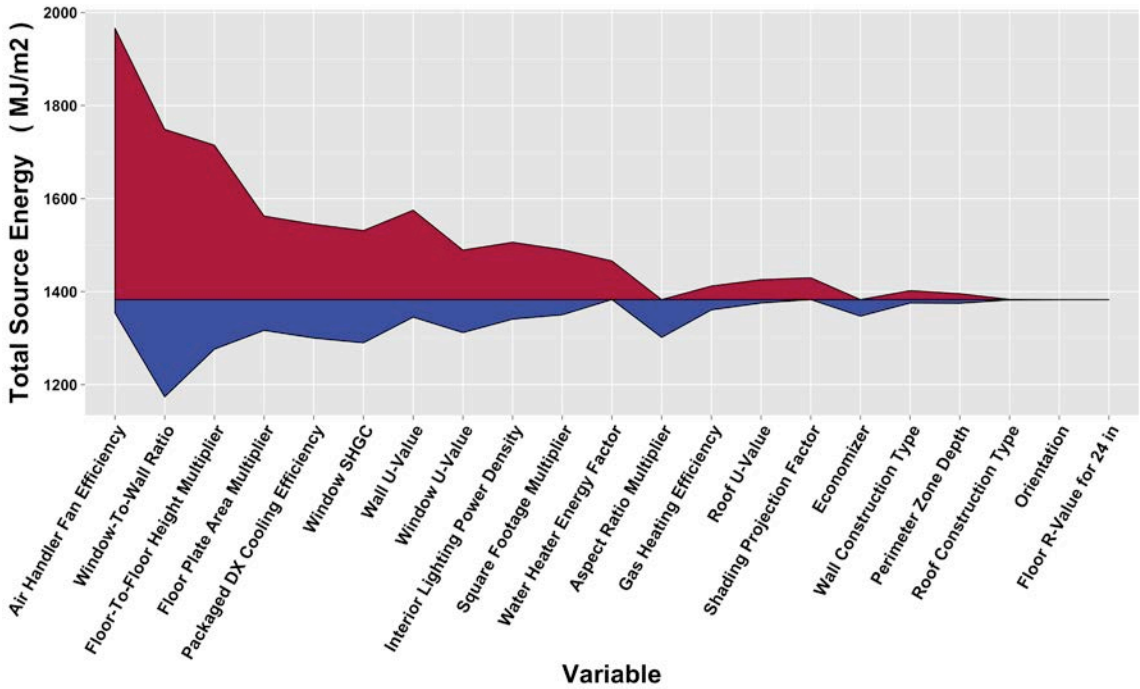


Location: Climate Zone 6A

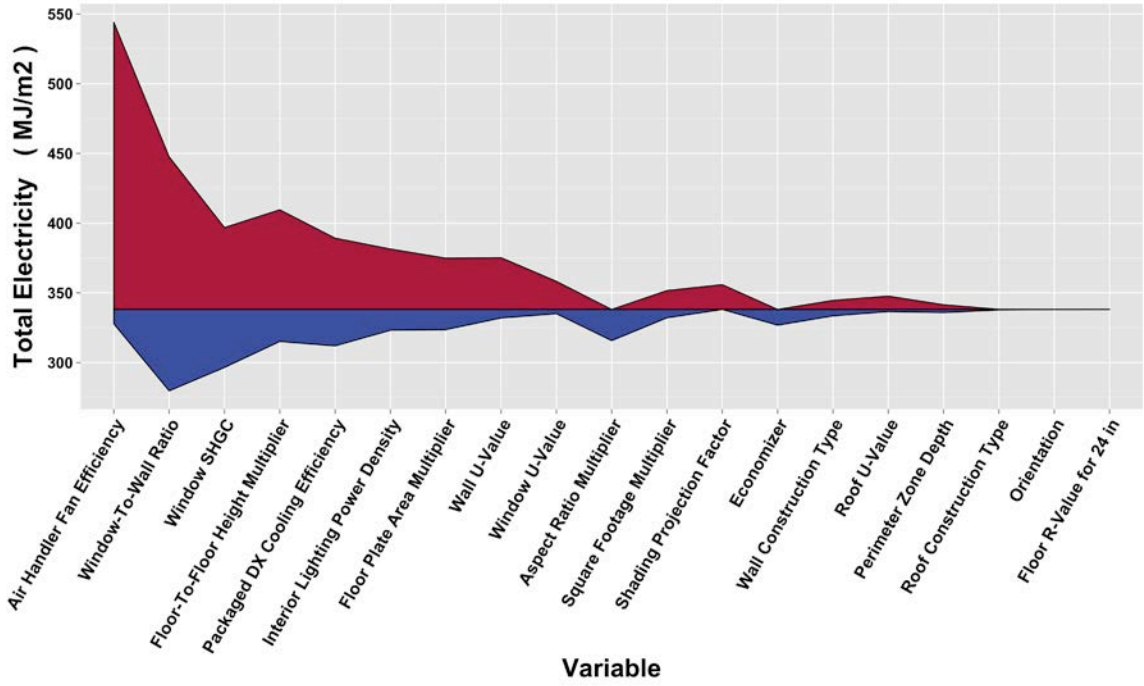
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1301.42	1382.82
Floor Plate Area Multiplier	4218	28120	1316.64	1562.43
Square Footage Multiplier	25308	253080	1350.11	1490.25
Floor-To-Floor Height Multiplier	8	16	1276.22	1714.86
Perimeter Zone Depth	10	20	1374.82	1395.46
Floor R-Value for 24 in	0	0	1382.82	1382.82
Window-To-Wall Ratio	0	0.71	1173.69	1748.86
Window Sill Height	1	6	1382.82	1382.82
Window U-Value	0.12	1.22	1311.80	1489.24
Window SHGC	0.08	0.7	1289.85	1531.22
Window VLT	0.06	0.89	1382.82	1382.82
Wall Construction Type	masonry-on-masonry	wood-siding	1375.43	1402.12
Wall U-Value	0.03	0.58	1345.04	1575.03
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1382.05	1383.19
Roof U-Value	0.01	0.2	1375.44	1425.70
Daylighting Control Setpoint	0	0	1382.82	1382.82
Interior Lighting Power Density	0.04	0.43	1340.70	1506.01
Shading Projection Factor	0	1	1382.82	1429.79

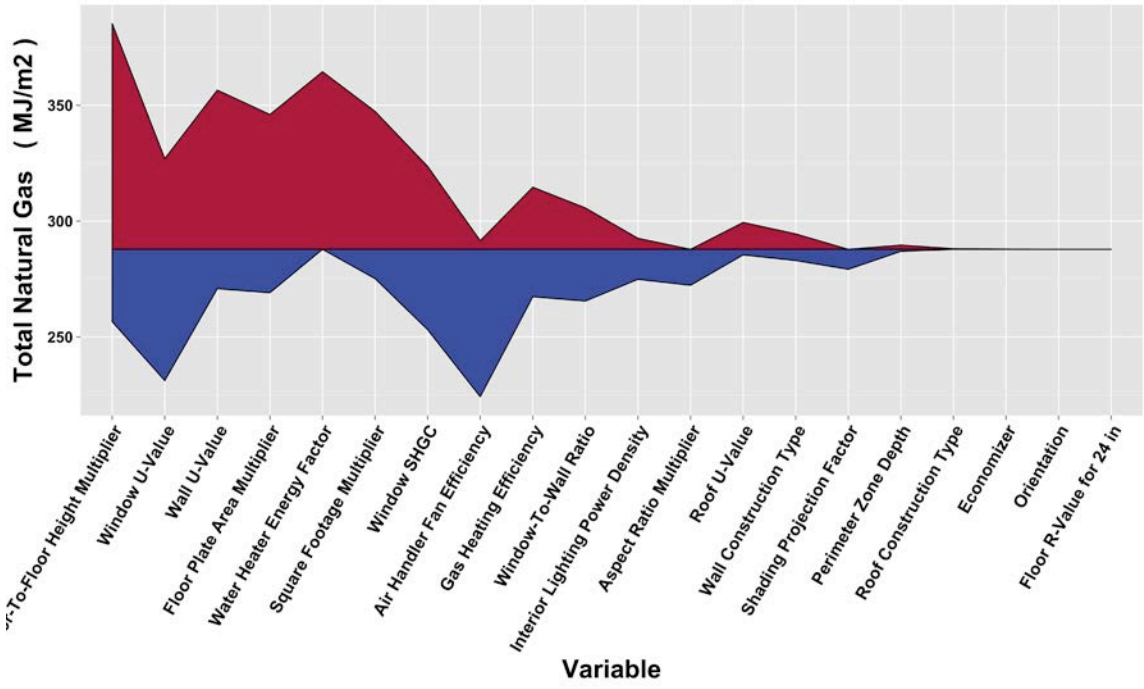
District Chiller Cooling Efficiency	0.52	1.48	1382.82	1382.82
Air Handler Fan Efficiency	22.66	81.56	1354.19	1965.91
Packaged DX Cooling Efficiency	2.18	4.26	1300.10	1544.79
Gas Heating Efficiency	0.87	1.13	1360.62	1411.91
Terminal DX Cooling Efficiency	0.68	1.32	1382.82	1382.82
Terminal Furnace Heating Efficiency	0.87	1.13	1382.82	1382.82
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1382.82	1382.82
Water Heater Energy Factor	1	99	1382.82	1465.94
Economizer	false	true	1347.15	1382.82
Fan Control	cav	false	1382.82	1382.82
Orientation	0	359	1382.66	1382.82



Total Electricity



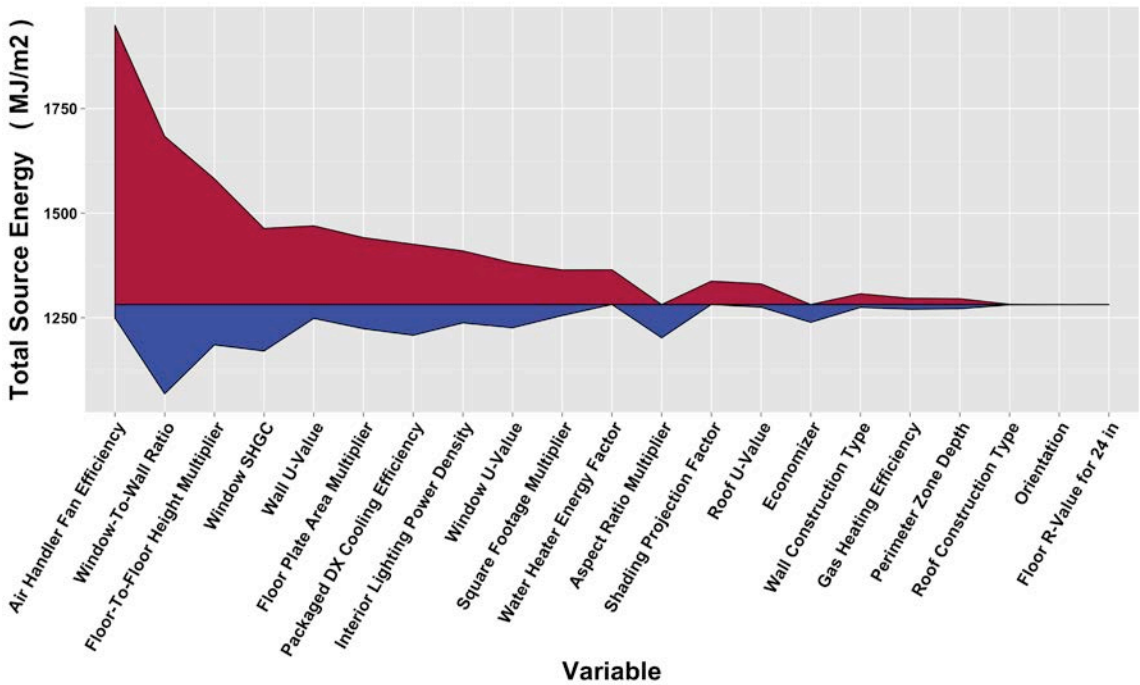
Total Natural Gas



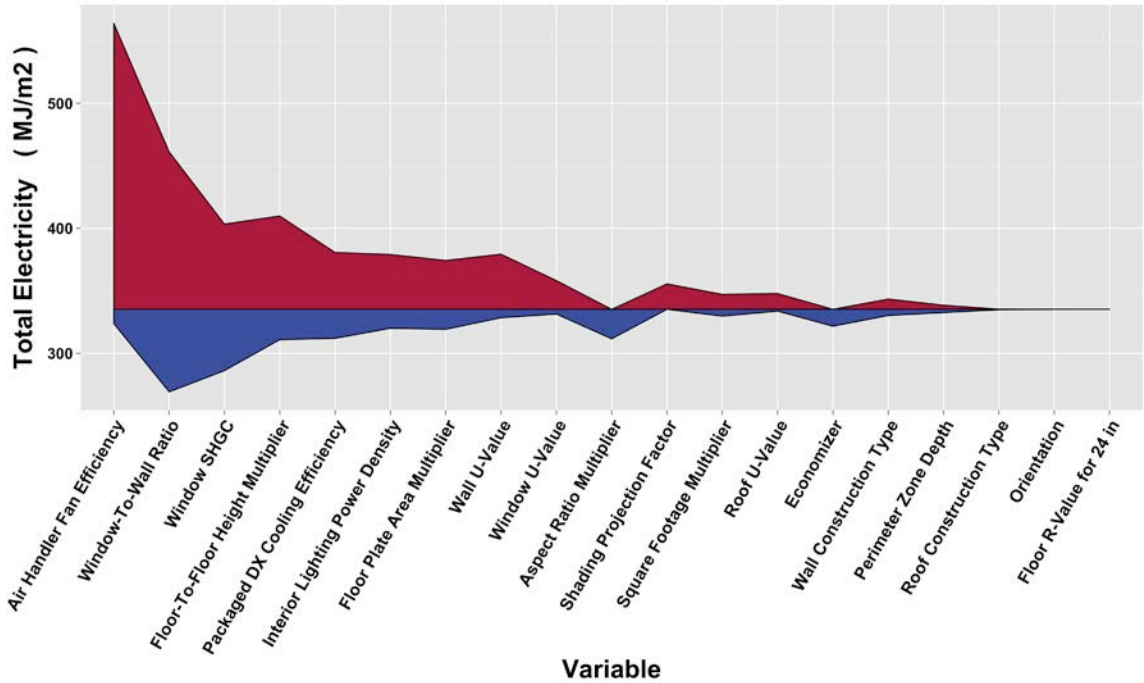
Location: Climate Zone 6B

Total Source Energy

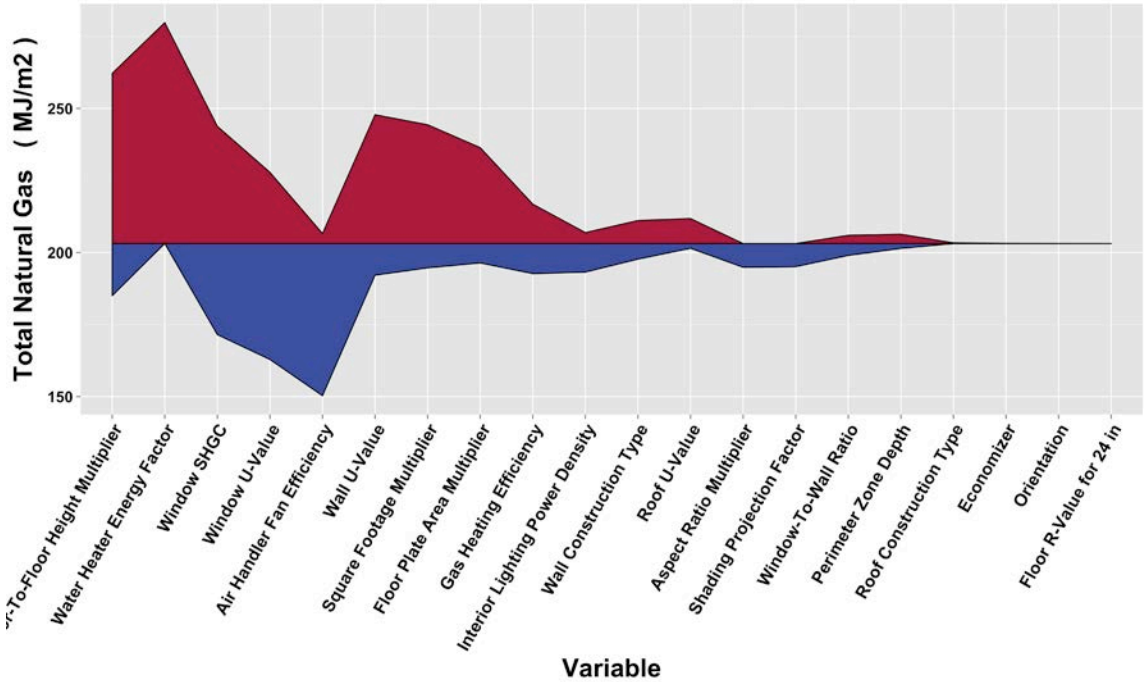
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1201.97	1281.70
Floor Plate Area Multiplier	4218	28120	1223.77	1441.57
Square Footage Multiplier	25308	253080	1255.25	1364.28
Floor-To-Floor Height Multiplier	8	16	1185.25	1582.27
Perimeter Zone Depth	10	20	1271.59	1295.57
Floor R-Value for 24 in	0	0	1281.70	1281.70
Window-To-Wall Ratio	0	0.71	1068.12	1683.67
Window Sill Height	1	6	1281.70	1281.70
Window U-Value	0.12	1.22	1226.06	1381.35
Window SHGC	0.08	0.7	1170.48	1463.46
Window VLT	0.06	0.89	1281.70	1281.70
Wall Construction Type	masonry-on-masonry	wood-siding	1274.73	1307.44
Wall U-Value	0.03	0.58	1248.48	1469.81
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1280.91	1282.25
Roof U-Value	0.01	0.2	1275.30	1331.10
Daylighting Control Setpoint	0	0	1281.70	1281.70
Interior Lighting Power Density	0.04	0.43	1237.68	1409.84
Shading Projection Factor	0	1	1281.70	1337.58
District Chiller Cooling Efficiency	0.52	1.48	1281.70	1281.70
Air Handler Fan Efficiency	22.66	81.56	1249.34	1948.87
Packaged DX Cooling Efficiency	2.18	4.26	1208.17	1425.70
Gas Heating Efficiency	0.87	1.13	1270.39	1296.53
Terminal DX Cooling Efficiency	0.68	1.32	1281.70	1281.70
Terminal Furnace Heating Efficiency	0.87	1.13	1281.70	1281.70
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1281.70	1281.70
Water Heater Energy Factor	1	99	1281.70	1364.82
Economizer	false	true	1239.01	1281.70
Fan Control	cav	false	1281.70	1281.70
Orientation	0	359	1281.42	1281.70



Total Electricity



Total Natural Gas

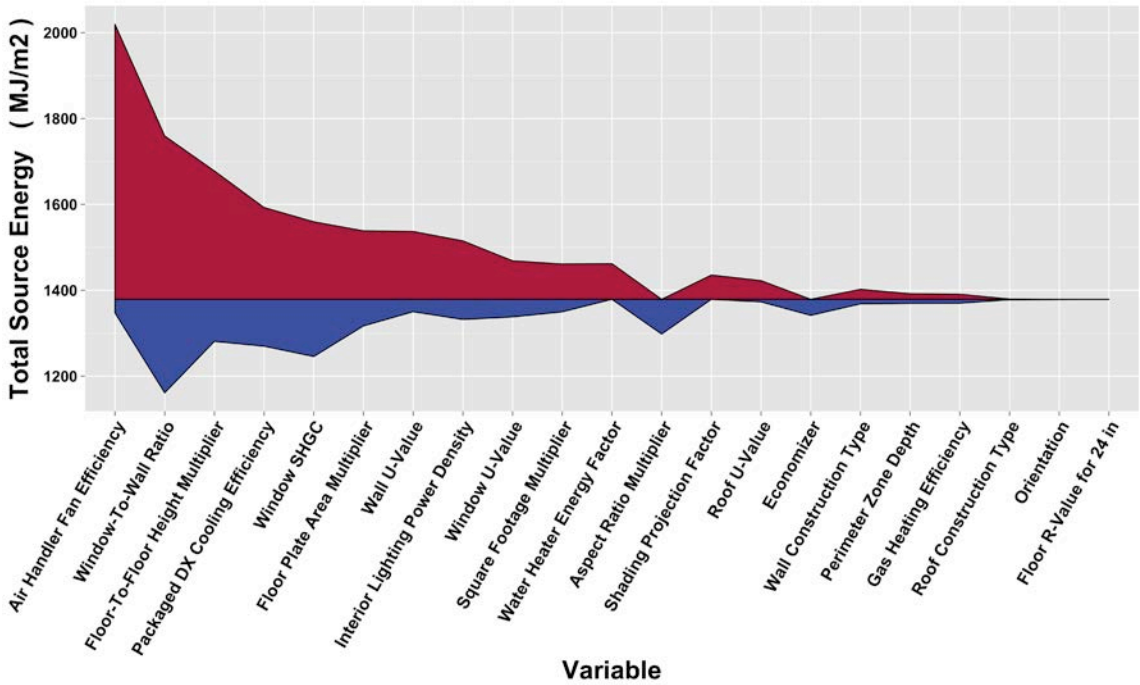


Location: Climate Zone 7

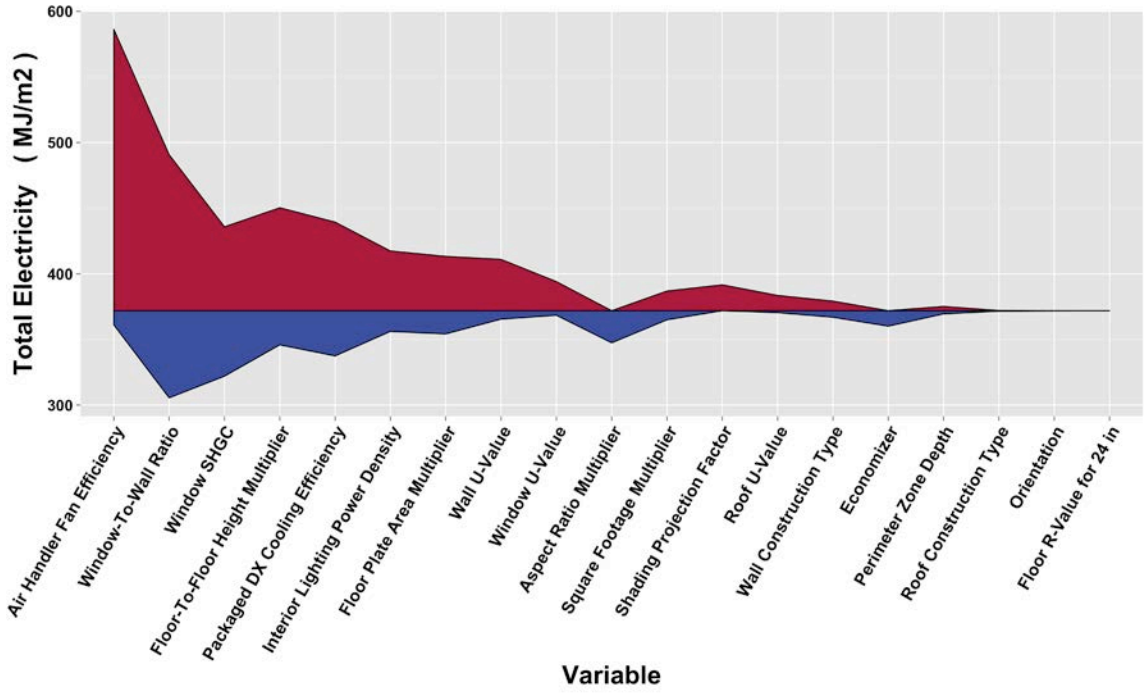
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1297.91	1378.89
Floor Plate Area Multiplier	4218	28120	1316.92	1538.28
Square Footage Multiplier	25308	253080	1349.74	1460.99
Floor-To-Floor Height Multiplier	8	16	1280.88	1677.97
Perimeter Zone Depth	10	20	1369.65	1391.79
Floor R-Value for 24 in	0	0	1378.89	1378.89
Window-To-Wall Ratio	0	0.71	1160.95	1759.52
Window Sill Height	1	6	1378.89	1378.89
Window U-Value	0.12	1.22	1337.94	1468.56
Window SHGC	0.08	0.7	1245.67	1559.48
Window VLT	0.06	0.89	1378.89	1378.89
Wall Construction Type	masonry-on-masonry	wood-siding	1368.32	1402.14
Wall U-Value	0.03	0.58	1350.04	1536.89
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1377.99	1379.42
Roof U-Value	0.01	0.2	1372.91	1422.44
Daylighting Control Setpoint	0	0	1378.89	1378.89
Interior Lighting Power Density	0.04	0.43	1331.94	1515.01
Shading Projection Factor	0	1	1378.89	1435.41

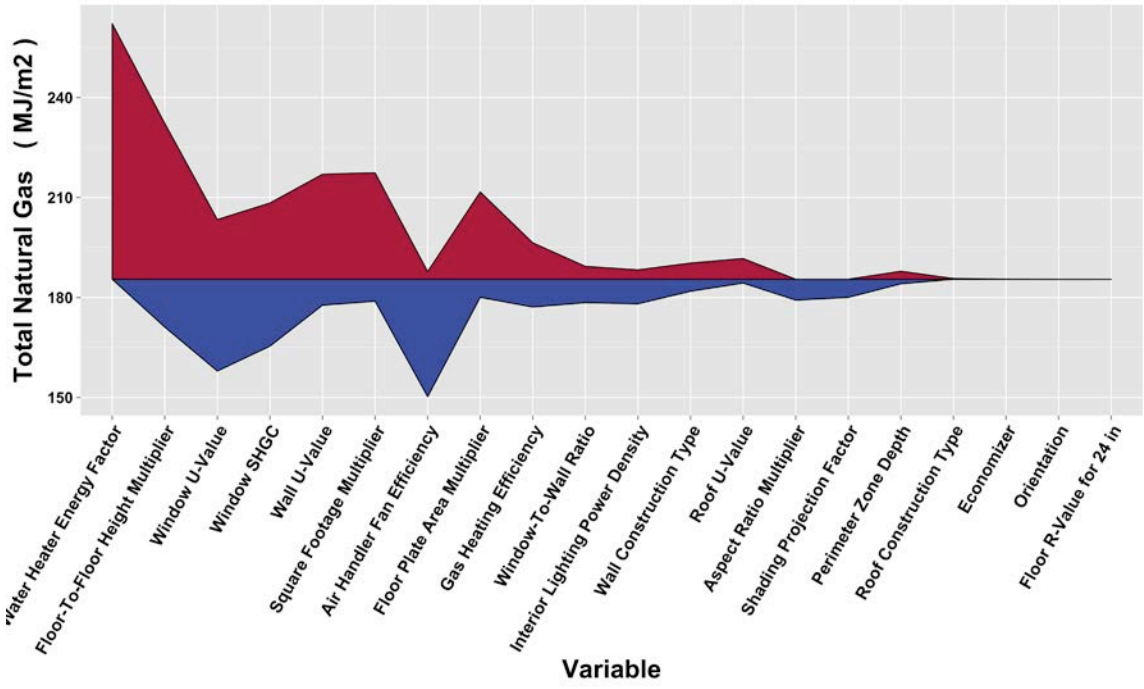
District Chiller Cooling Efficiency	0.52	1.48	1378.89	1378.89
Air Handler Fan Efficiency	22.66	81.56	1347.19	2019.37
Packaged DX Cooling Efficiency	2.18	4.26	1269.71	1592.70
Gas Heating Efficiency	0.87	1.13	1369.85	1390.74
Terminal DX Cooling Efficiency	0.68	1.32	1378.89	1378.89
Terminal Furnace Heating Efficiency	0.87	1.13	1378.89	1378.89
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1378.89	1378.89
Water Heater Energy Factor	1	99	1378.89	1462.01
Economizer	false	true	1341.52	1378.89
Fan Control	cav	false	1378.89	1378.89
Orientation	0	359	1378.52	1378.89



Total Electricity



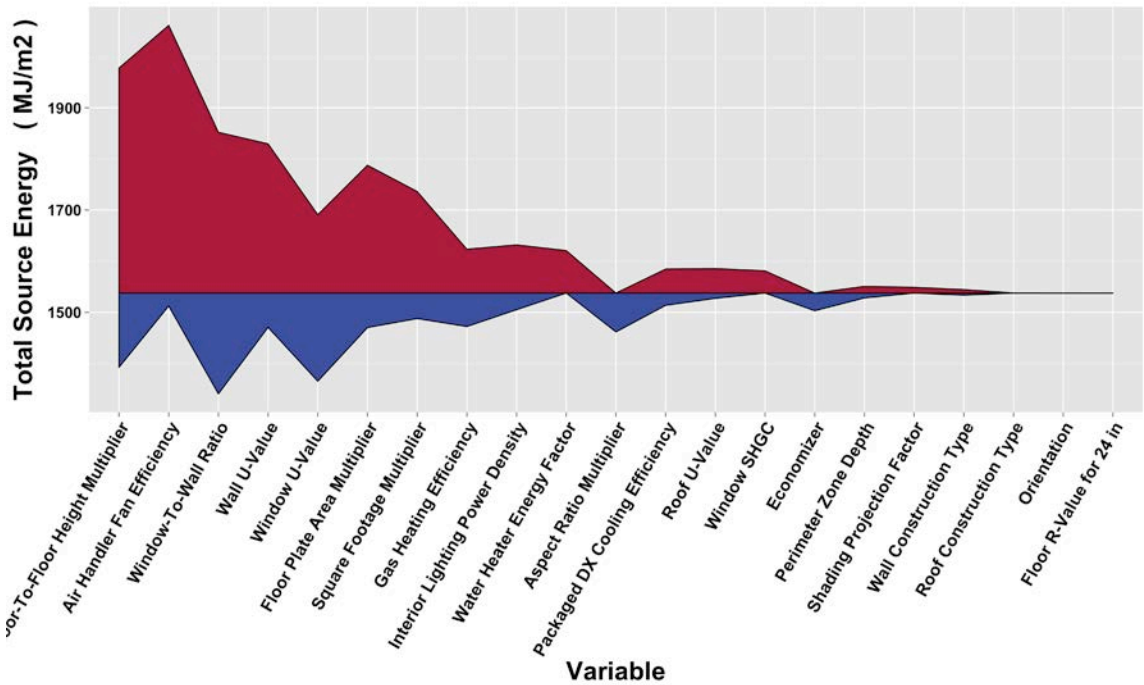
Total Natural Gas



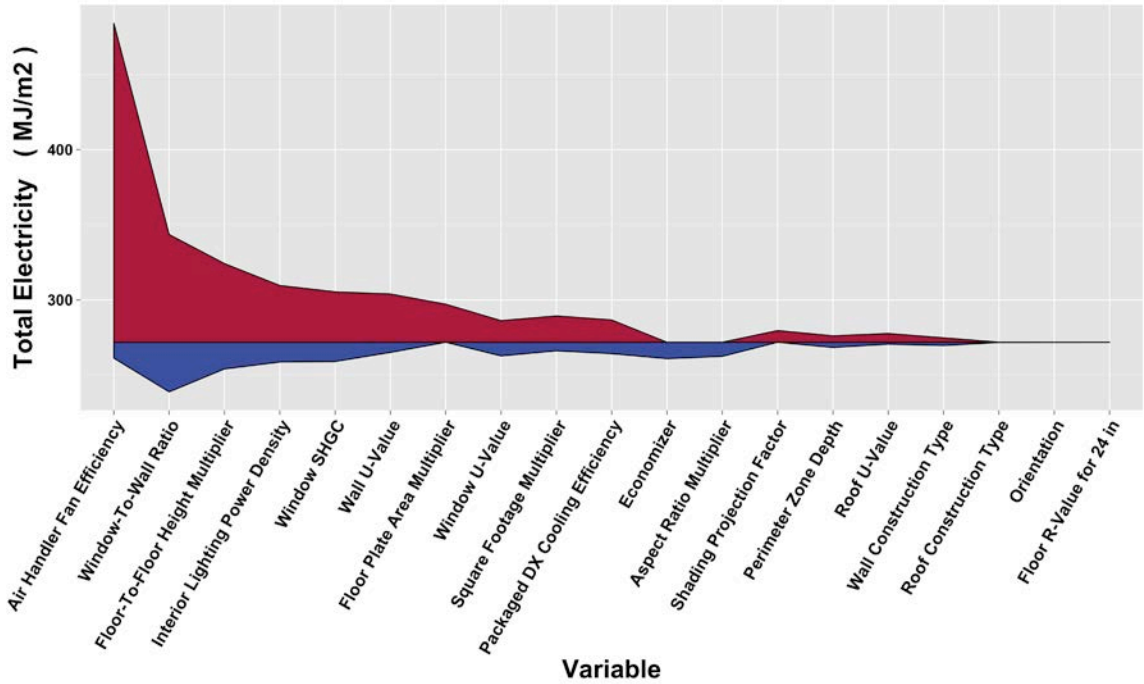
Location: Climate Zone 8

Total Source Energy

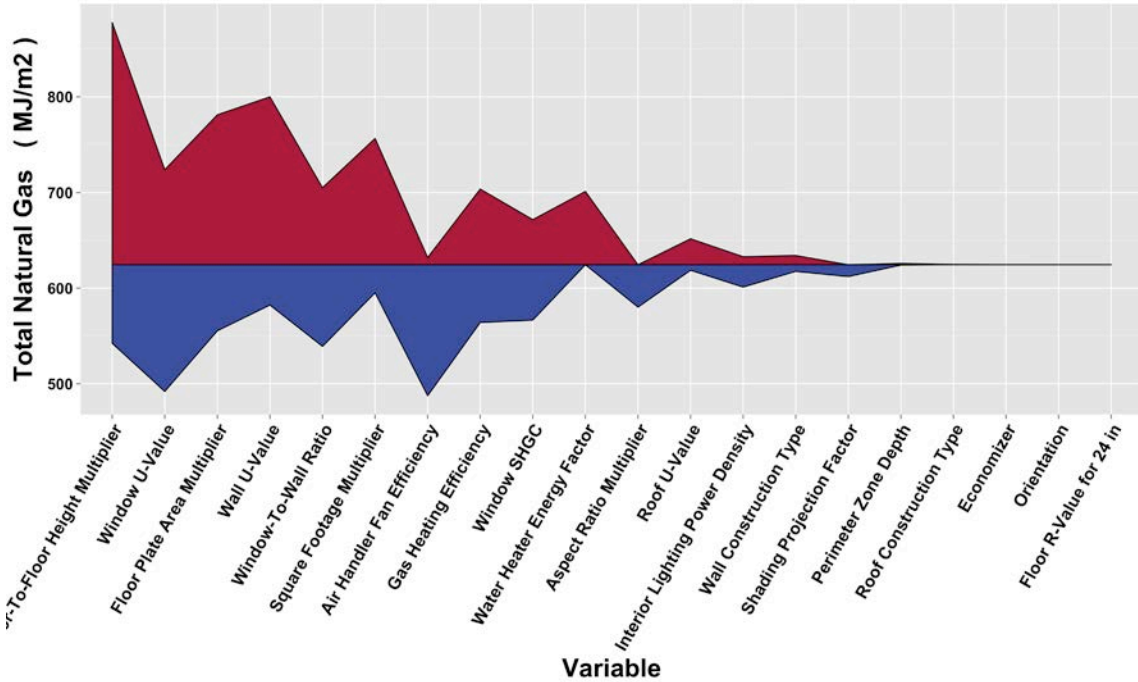
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1461.55	1537.63
Floor Plate Area Multiplier	4218	28120	1470.11	1787.75
Square Footage Multiplier	25308	253080	1487.78	1736.35
Floor-To-Floor Height Multiplier	8	16	1392.30	1977.88
Perimeter Zone Depth	10	20	1528.10	1550.72
Floor R-Value for 24 in	0	0	1537.63	1537.63
Window-To-Wall Ratio	0	0.71	1340.48	1852.14
Window Sill Height	1	6	1537.63	1537.63
Window U-Value	0.12	1.22	1365.15	1690.95
Window SHGC	0.08	0.7	1537.63	1581.12
Window VLT	0.06	0.89	1537.63	1537.63
Wall Construction Type	masonry-on-masonry	wood-siding	1533.51	1544.40
Wall U-Value	0.03	0.58	1470.51	1829.63
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1537.54	1537.81
Roof U-Value	0.01	0.2	1527.34	1585.50
Daylighting Control Setpoint	0	0	1537.63	1537.63
Interior Lighting Power Density	0.04	0.43	1505.08	1631.91
Shading Projection Factor	0	1	1537.63	1548.85
District Chiller Cooling Efficiency	0.52	1.48	1537.63	1537.63
Air Handler Fan Efficiency	22.66	81.56	1512.30	2061.28
Packaged DX Cooling Efficiency	2.18	4.26	1513.64	1584.60
Gas Heating Efficiency	0.87	1.13	1472.17	1623.43
Terminal DX Cooling Efficiency	0.68	1.32	1537.63	1537.63
Terminal Furnace Heating Efficiency	0.87	1.13	1537.63	1537.63
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1537.63	1537.63
Water Heater Energy Factor	1	99	1537.63	1620.77
Economizer	false	true	1503.08	1537.63
Fan Control	cav	false	1537.63	1537.63
Orientation	0	359	1537.54	1537.63



Total Electricity



Total Natural Gas



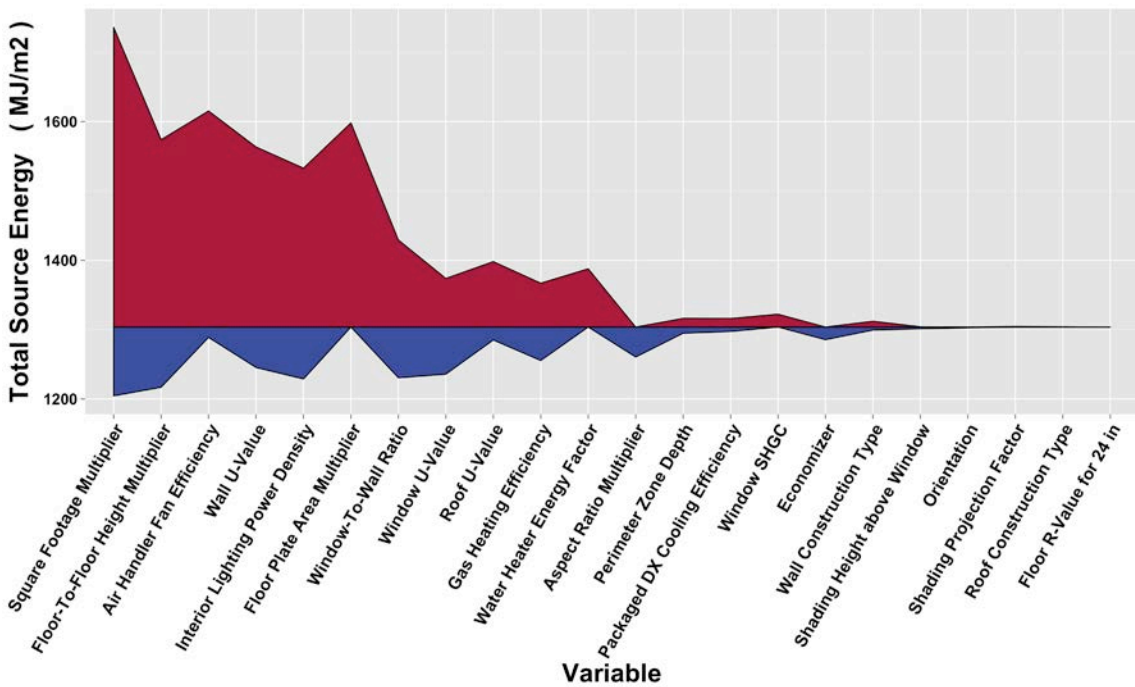
Midrise Apartment

Location: Climate Zone 1A

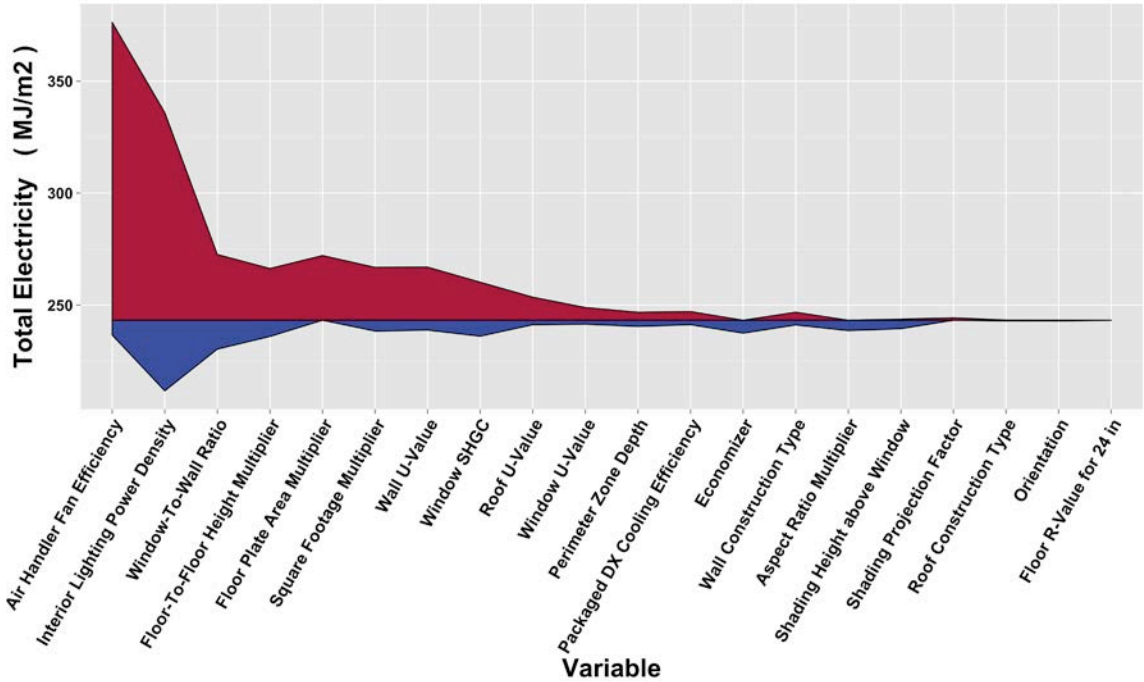
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1260.41	1303.62
Floor Plate Area Multiplier	4218	33744	1303.62	1598.04
Square Footage Multiplier	10123.2	101232	1204.39	1735.79
Floor-To-Floor Height Multiplier	8	16	1216.82	1573.90
Perimeter Zone Depth	10	20	1294.72	1316.10
Floor R-Value for 24 in	0	0	1303.62	1303.62
Window-To-Wall Ratio	0	0.36	1230.49	1429.19
Window Sill Height	1	6	1303.62	1303.62
Window U-Value	0.12	1.22	1235.72	1373.72
Window SHGC	0.08	0.7	1303.62	1322.13
Window VLT	0.06	0.89	1303.62	1303.62
Wall Construction Type	masonry-on-masonry	wood-siding	1299.26	1311.99
Wall U-Value	0.03	0.58	1245.31	1563.33
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1303.62	1304.09
Roof U-Value	0.01	0.2	1284.96	1398.00
Daylighting Control Setpoint	0	0	1303.62	1303.62

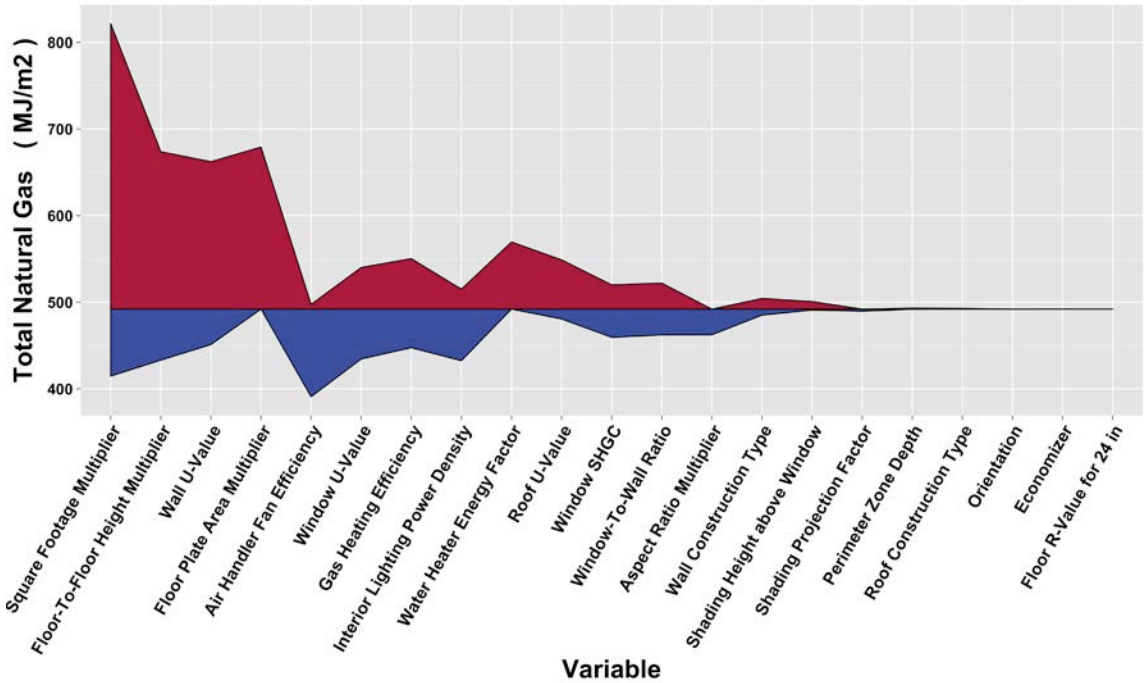
Interior Lighting Power Density	0.11	1.08	1228.76	1532.78
Shading Projection Factor	0	1	1303.62	1304.46
Shading Height above Window	0	2	1301.19	1304.02
District Chiller Cooling Efficiency	0.52	1.48	1303.62	1303.62
Air Handler Fan Efficiency	22.66	81.56	1288.69	1615.27
Packaged DX Cooling Efficiency	2.18	4.26	1297.34	1315.92
Gas Heating Efficiency	0.87	1.13	1255.36	1366.88
Terminal DX Cooling Efficiency	0.68	1.32	1303.62	1303.62
Terminal Furnace Heating Efficiency	0.87	1.13	1303.62	1303.62
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1303.62	1303.62
Water Heater Energy Factor	1	99	1303.62	1387.67
Economizer	false	true	1285.42	1303.62
Fan Control	cav	false	1303.62	1303.62
Orientation	0	359	1302.59	1303.69



Total Electricity



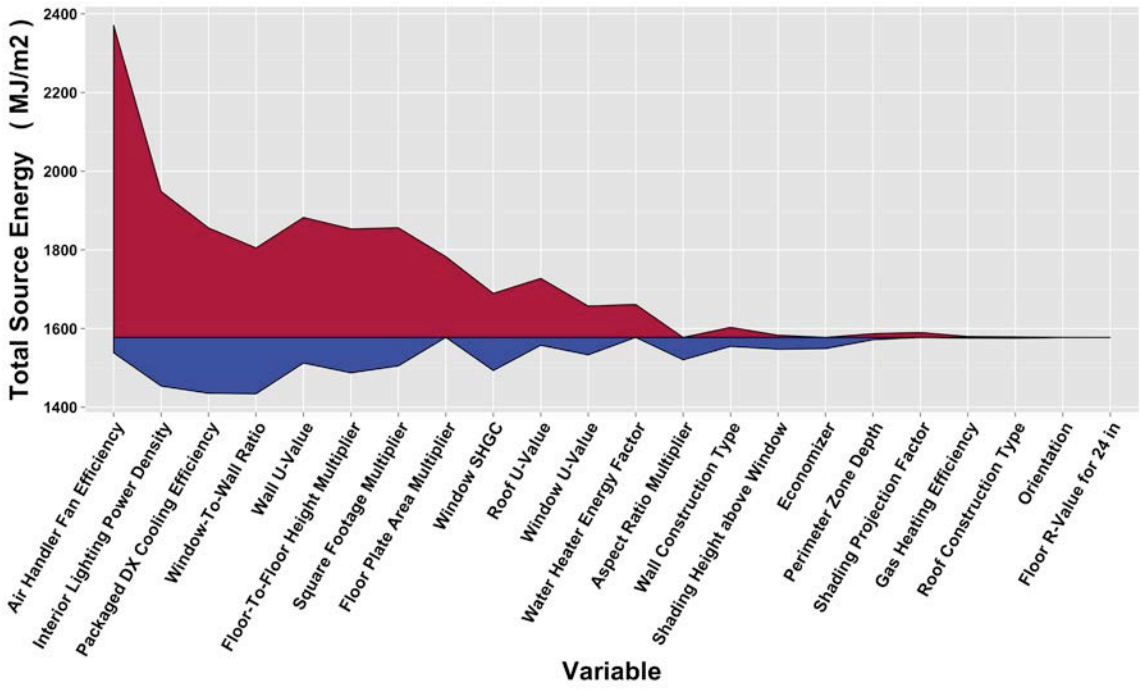
Total Natural Gas



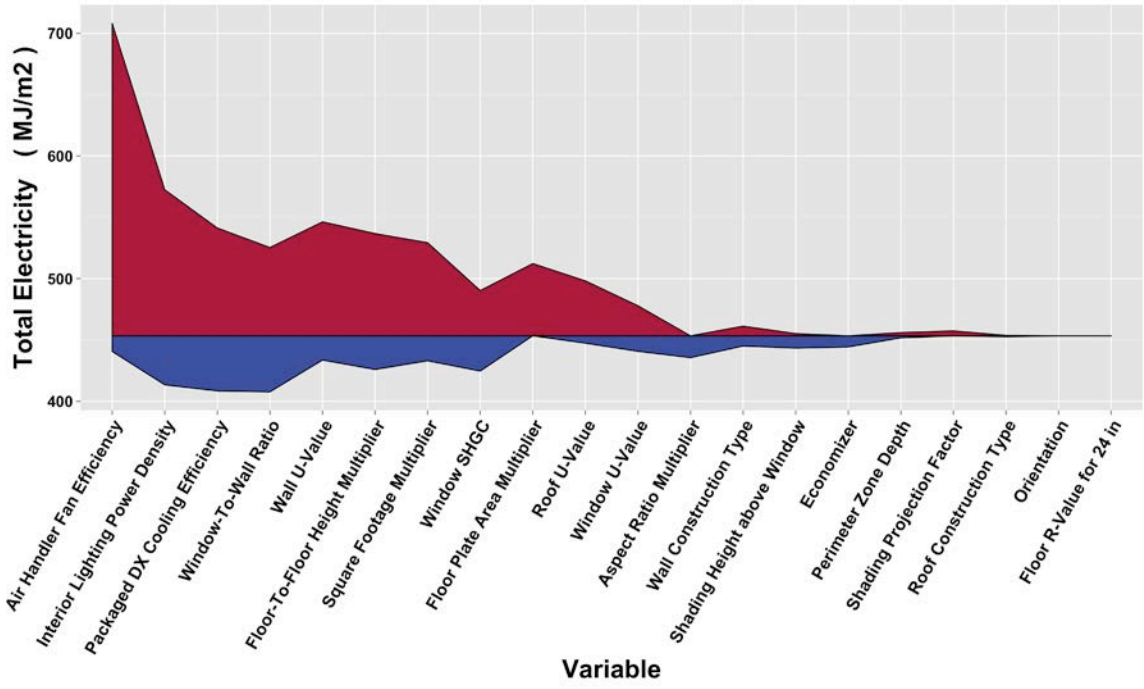
Location: Climate Zone 1B

Total Source Energy

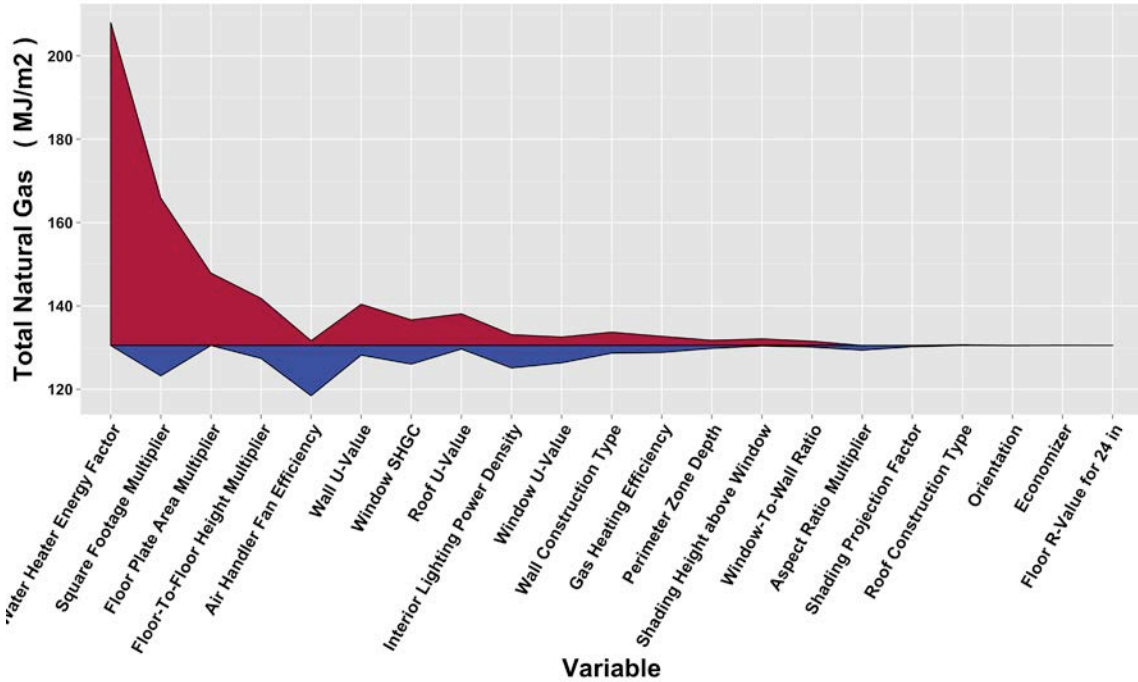
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1520.38	1577.42
Floor Plate Area Multiplier	4218	33744	1577.42	1782.79
Square Footage Multiplier	10123.2	101232	1505.02	1856.13
Floor-To-Floor Height Multiplier	8	16	1487.19	1853.59
Perimeter Zone Depth	10	20	1571.43	1587.01
Floor R-Value for 24 in	0	0	1577.42	1577.42
Window-To-Wall Ratio	0	0.36	1433.85	1804.92
Window Sill Height	1	6	1577.42	1577.42
Window U-Value	0.12	1.22	1532.90	1657.25
Window SHGC	0.08	0.7	1493.08	1689.42
Window VLT	0.06	0.89	1577.42	1577.42
Wall Construction Type	masonry-on-masonry	wood-siding	1554.62	1603.02
Wall U-Value	0.03	0.58	1512.29	1882.41
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1575.20	1578.64
Roof U-Value	0.01	0.2	1557.46	1727.54
Daylighting Control Setpoint	0	0	1577.42	1577.42
Interior Lighting Power Density	0.11	1.08	1453.69	1948.60
Shading Projection Factor	0	1	1577.42	1589.80
Shading Height above Window	0	2	1547.40	1583.00
District Chiller Cooling Efficiency	0.52	1.48	1577.42	1577.42
Air Handler Fan Efficiency	22.66	81.56	1538.27	2370.80
Packaged DX Cooling Efficiency	2.18	4.26	1435.28	1855.78
Gas Heating Efficiency	0.87	1.13	1575.61	1579.80
Terminal DX Cooling Efficiency	0.68	1.32	1577.42	1577.42
Terminal Furnace Heating Efficiency	0.87	1.13	1577.42	1577.42
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1577.42	1577.42
Water Heater Energy Factor	1	99	1577.42	1661.39
Economizer	false	true	1548.78	1577.42
Fan Control	cav	false	1577.42	1577.42
Orientation	0	359	1577.35	1577.62



Total Electricity



Total Natural Gas

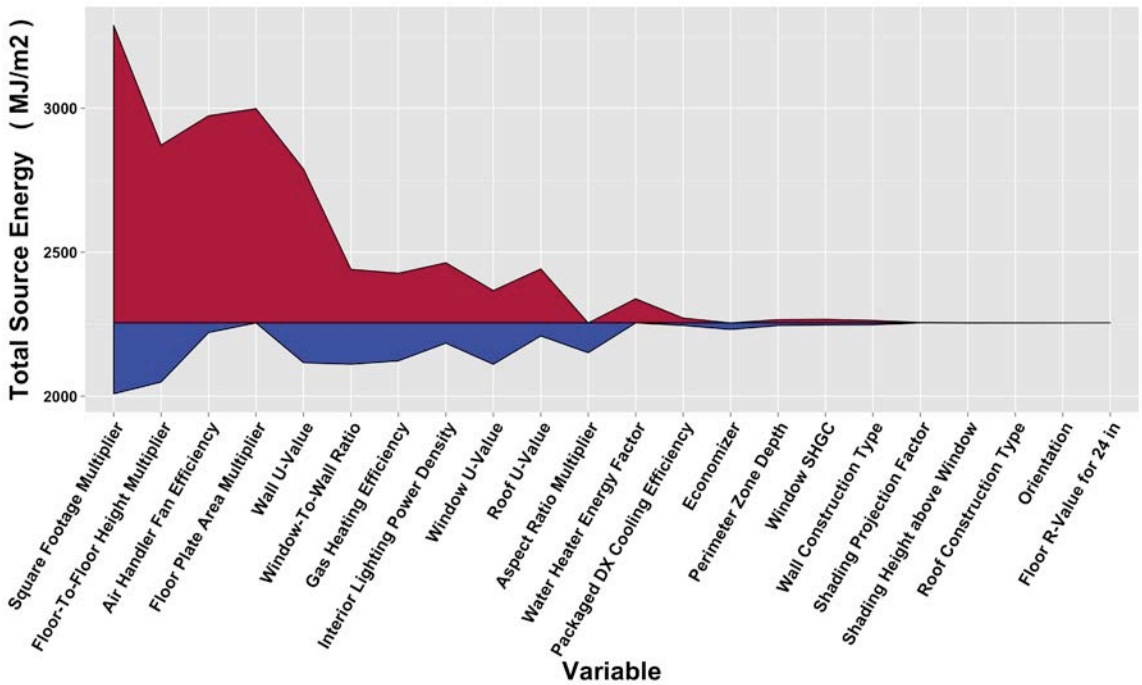


Location: Climate Zone 2A

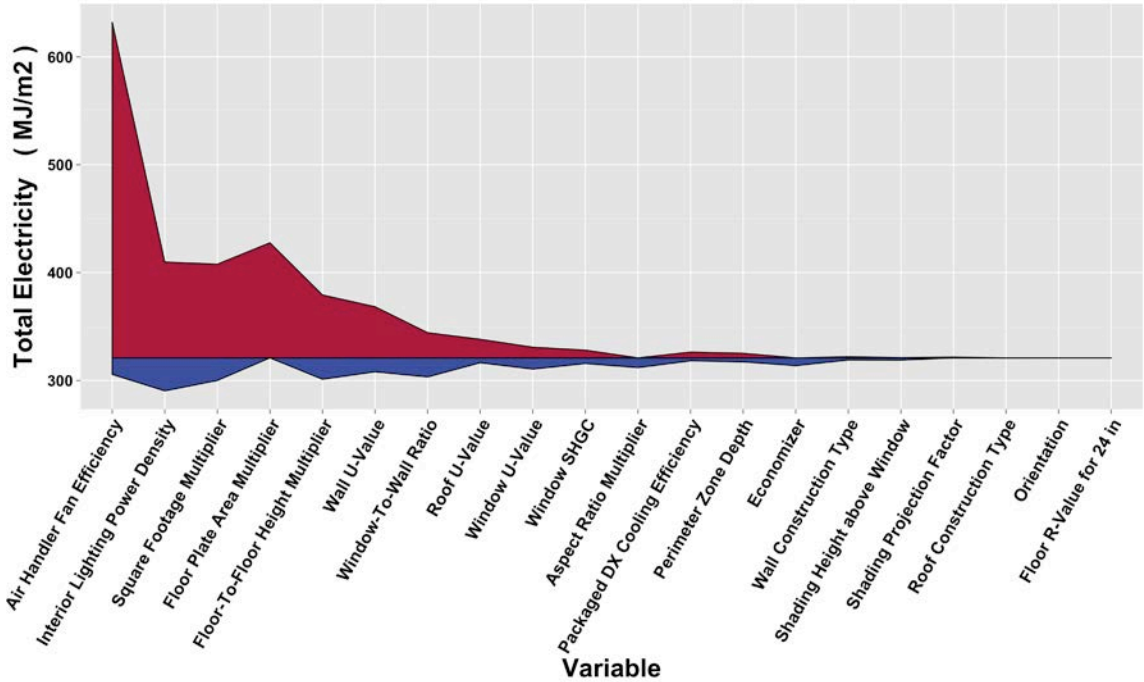
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	2150.72	2254.35
Floor Plate Area Multiplier	4218	33744	2254.35	2998.45
Square Footage Multiplier	10123.2	101232	2008.08	3287.47
Floor-To-Floor Height Multiplier	8	16	2049.07	2872.14
Perimeter Zone Depth	10	20	2245.17	2265.87
Floor R-Value for 24 in	0	0	2254.35	2254.35
Window-To-Wall Ratio	0	0.36	2110.86	2440.49
Window Sill Height	1	6	2254.35	2254.35
Window U-Value	0.12	1.22	2110.54	2366.85
Window SHGC	0.08	0.7	2247.43	2267.04
Window VLT	0.06	0.89	2254.35	2254.35
Wall Construction Type	masonry-on-masonry	wood-siding	2247.91	2262.95
Wall U-Value	0.03	0.58	2116.25	2788.82
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2253.91	2254.74
Roof U-Value	0.01	0.2	2209.25	2442.19
Daylighting Control Setpoint	0	0	2254.35	2254.35
Interior Lighting Power Density	0.11	1.08	2184.07	2463.29
Shading Projection Factor	0	1	2254.35	2256.03

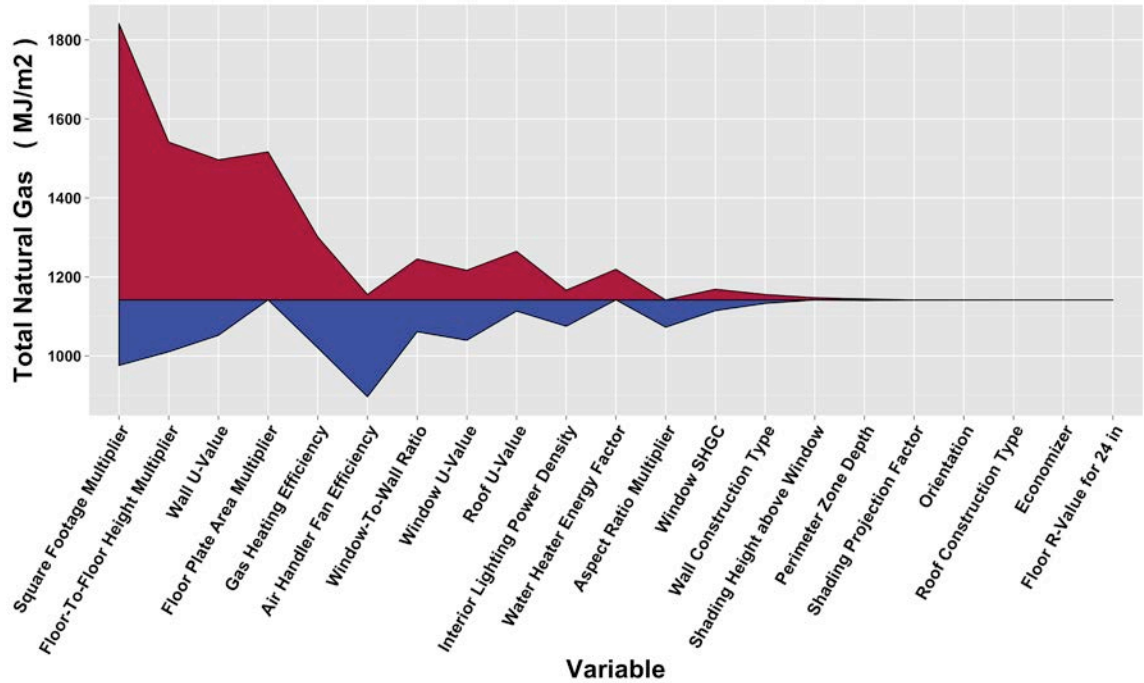
Shading Height above Window	0	2	2253.77	2254.92
District Chiller Cooling Efficiency	0.52	1.48	2254.35	2254.35
Air Handler Fan Efficiency	22.66	81.56	2220.66	2973.61
Packaged DX Cooling Efficiency	2.18	4.26	2245.70	2271.30
Gas Heating Efficiency	0.87	1.13	2122.57	2427.09
Terminal DX Cooling Efficiency	0.68	1.32	2254.35	2254.35
Terminal Furnace Heating Efficiency	0.87	1.13	2254.35	2254.35
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2254.35	2254.35
Water Heater Energy Factor	1	99	2254.35	2338.40
Economizer	false	true	2231.62	2254.35
Fan Control	cav	false	2254.35	2254.35
Orientation	0	359	2254.11	2254.37



Total Electricity



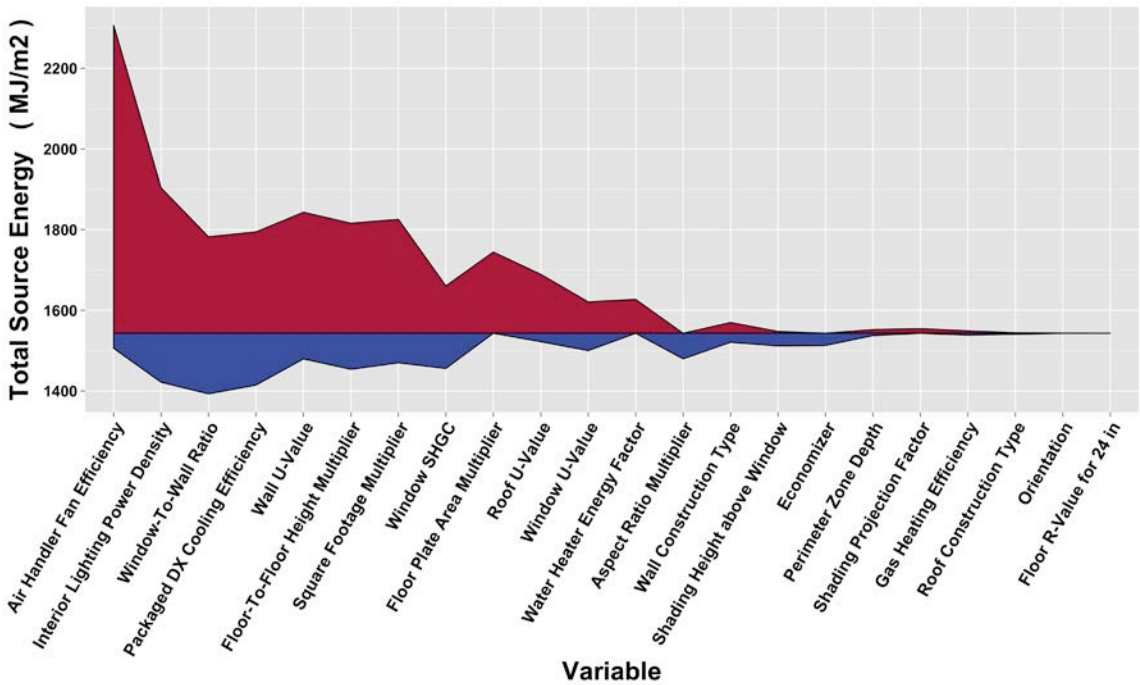
Total Natural Gas



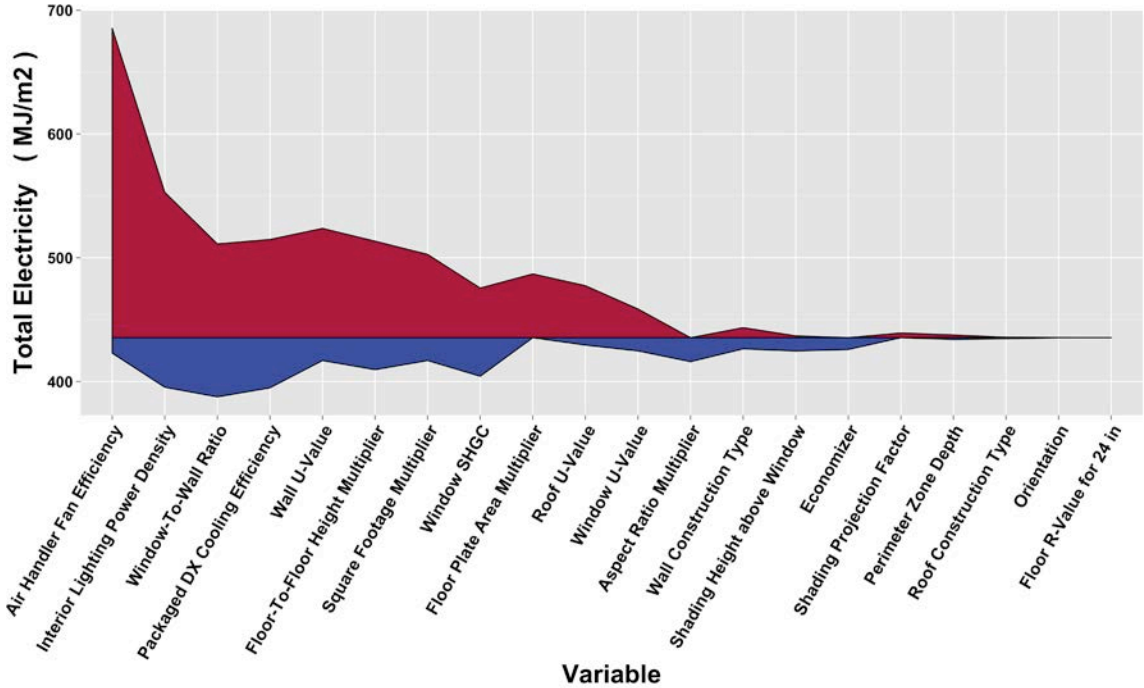
Location: Climate Zone 2B

Total Source Energy

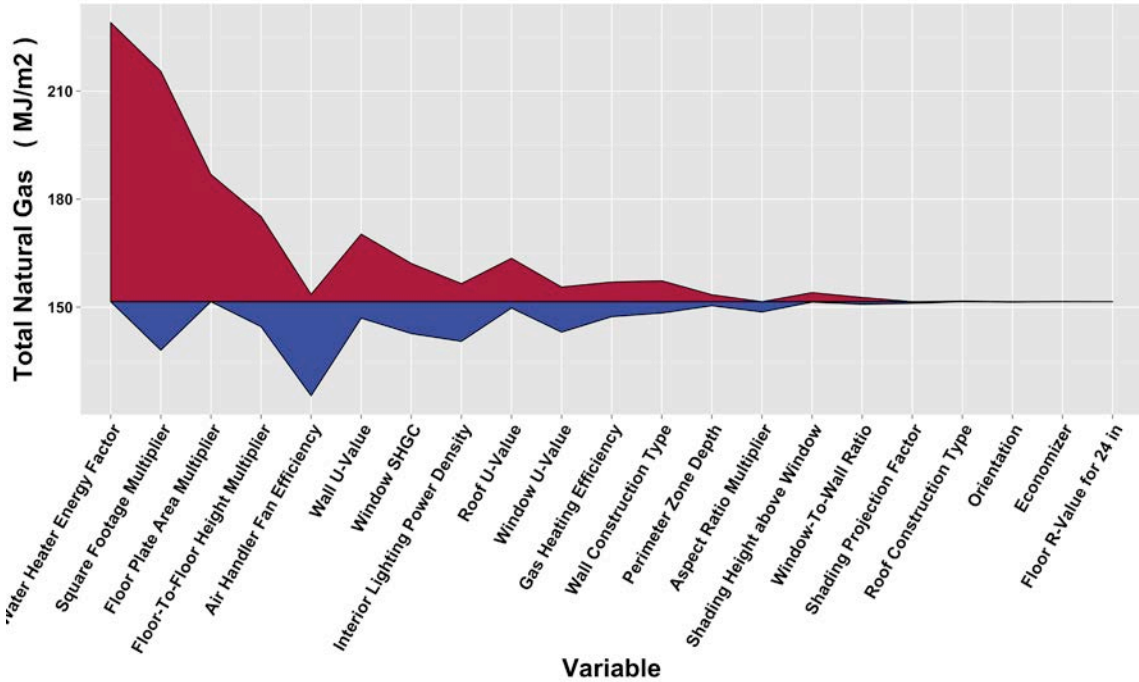
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1479.80	1543.17
Floor Plate Area Multiplier	4218	33744	1543.17	1744.59
Square Footage Multiplier	10123.2	101232	1470.06	1825.59
Floor-To-Floor Height Multiplier	8	16	1453.87	1815.81
Perimeter Zone Depth	10	20	1537.53	1552.17
Floor R-Value for 24 in	0	0	1543.17	1543.17
Window-To-Wall Ratio	0	0.36	1393.01	1782.26
Window Sill Height	1	6	1543.17	1543.17
Window U-Value	0.12	1.22	1500.22	1621.03
Window SHGC	0.08	0.7	1456.00	1660.62
Window VLT	0.06	0.89	1543.17	1543.17
Wall Construction Type	masonry-on-masonry	wood-siding	1520.92	1569.86
Wall U-Value	0.03	0.58	1479.69	1843.13
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1540.83	1544.47
Roof U-Value	0.01	0.2	1522.37	1689.29
Daylighting Control Setpoint	0	0	1543.17	1543.17
Interior Lighting Power Density	0.11	1.08	1421.85	1903.50
Shading Projection Factor	0	1	1543.17	1554.60
Shading Height above Window	0	2	1511.94	1547.65
District Chiller Cooling Efficiency	0.52	1.48	1543.17	1543.17
Air Handler Fan Efficiency	22.66	81.56	1505.82	2306.30
Packaged DX Cooling Efficiency	2.18	4.26	1414.88	1794.41
Gas Heating Efficiency	0.87	1.13	1538.65	1549.09
Terminal DX Cooling Efficiency	0.68	1.32	1543.17	1543.17
Terminal Furnace Heating Efficiency	0.87	1.13	1543.17	1543.17
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1543.17	1543.17
Water Heater Energy Factor	1	99	1543.17	1627.15
Economizer	false	true	1513.10	1543.17
Fan Control	cav	false	1543.17	1543.17
Orientation	0	359	1543.09	1543.38



Total Electricity



Total Natural Gas

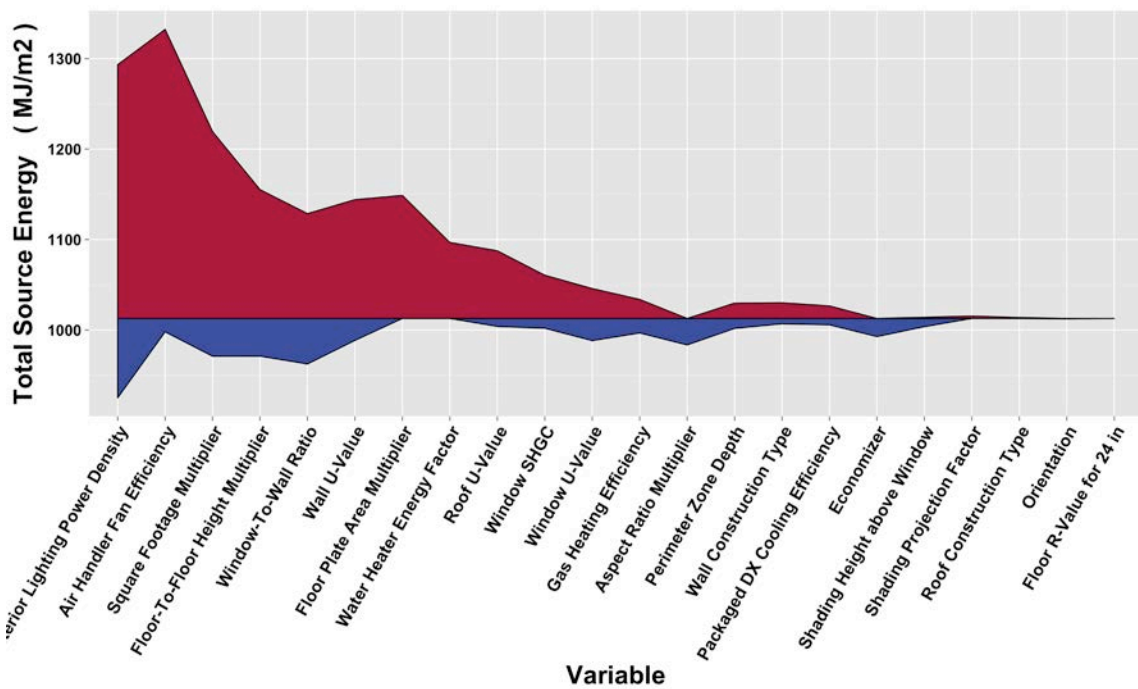


Location: Climate Zone 3A

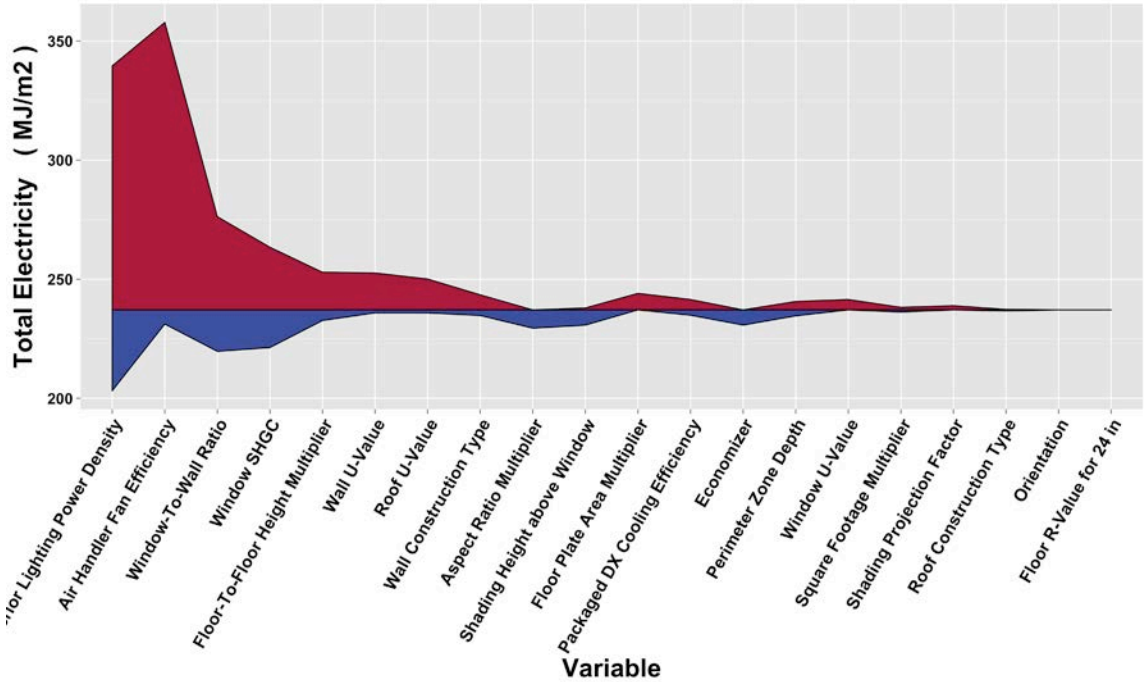
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	983.48	1012.77
Floor Plate Area Multiplier	4218	33744	1012.77	1148.82
Square Footage Multiplier	10123.2	101232	971.02	1219.31
Floor-To-Floor Height Multiplier	8	16	971.10	1155.19
Perimeter Zone Depth	10	20	1001.74	1029.74
Floor R-Value for 24 in	0	0	1012.77	1012.77
Window-To-Wall Ratio	0	0.36	962.44	1128.65
Window Sill Height	1	6	1012.77	1012.77
Window U-Value	0.12	1.22	988.23	1045.82
Window SHGC	0.08	0.7	1001.95	1060.57
Window VLT	0.06	0.89	1012.77	1012.77
Wall Construction Type	masonry-on-masonry	wood-siding	1006.91	1030.08
Wall U-Value	0.03	0.58	988.47	1144.09
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1012.77	1013.80
Roof U-Value	0.01	0.2	1003.96	1087.58
Daylighting Control Setpoint	0	0	1012.77	1012.77
Interior Lighting Power Density	0.11	1.08	925.00	1293.26
Shading Projection Factor	0	1	1012.77	1015.36

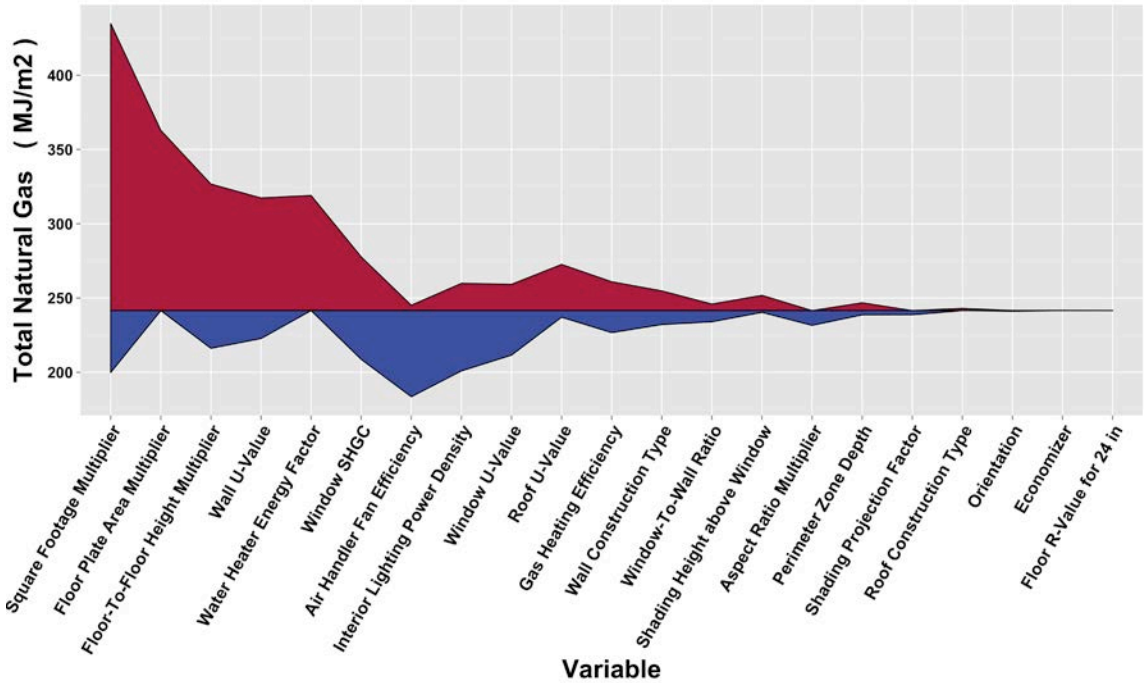
Shading Height above Window	0	2	1003.68	1014.11
District Chiller Cooling Efficiency	0.52	1.48	1012.77	1012.77
Air Handler Fan Efficiency	22.66	81.56	997.92	1332.26
Packaged DX Cooling Efficiency	2.18	4.26	1005.70	1026.62
Gas Heating Efficiency	0.87	1.13	996.70	1033.84
Terminal DX Cooling Efficiency	0.68	1.32	1012.77	1012.77
Terminal Furnace Heating Efficiency	0.87	1.13	1012.77	1012.77
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1012.77	1012.77
Water Heater Energy Factor	1	99	1012.77	1096.80
Economizer	false	true	992.71	1012.77
Fan Control	cav	false	1012.77	1012.77
Orientation	0	359	1012.43	1012.77



Total Electricity



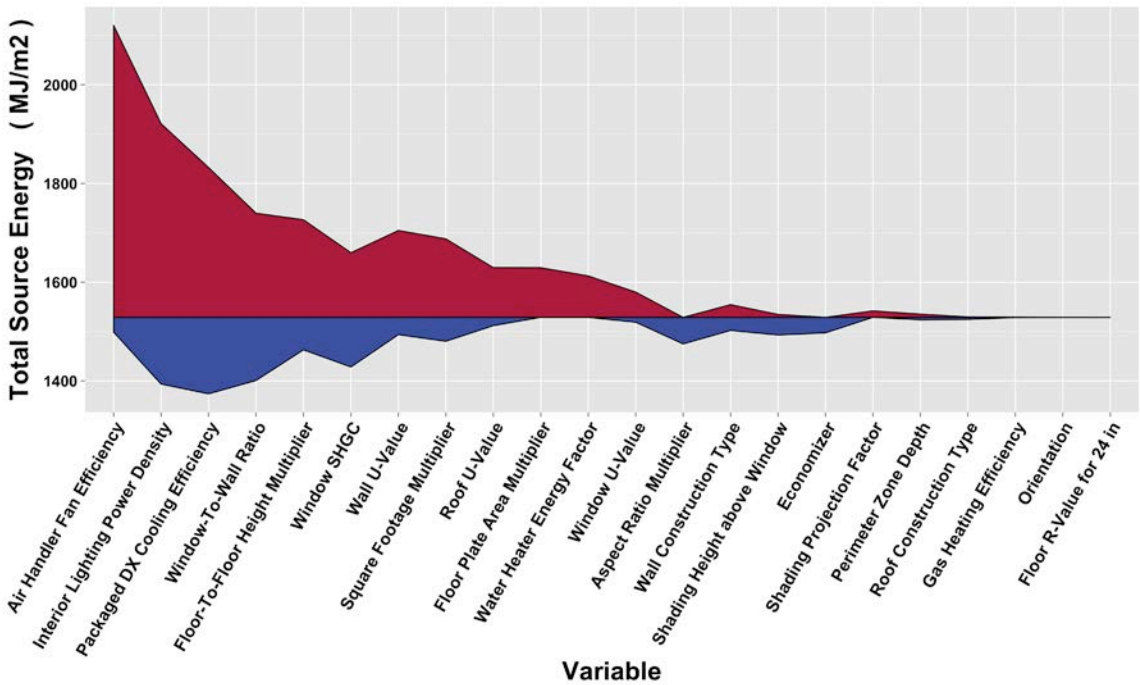
Total Natural Gas



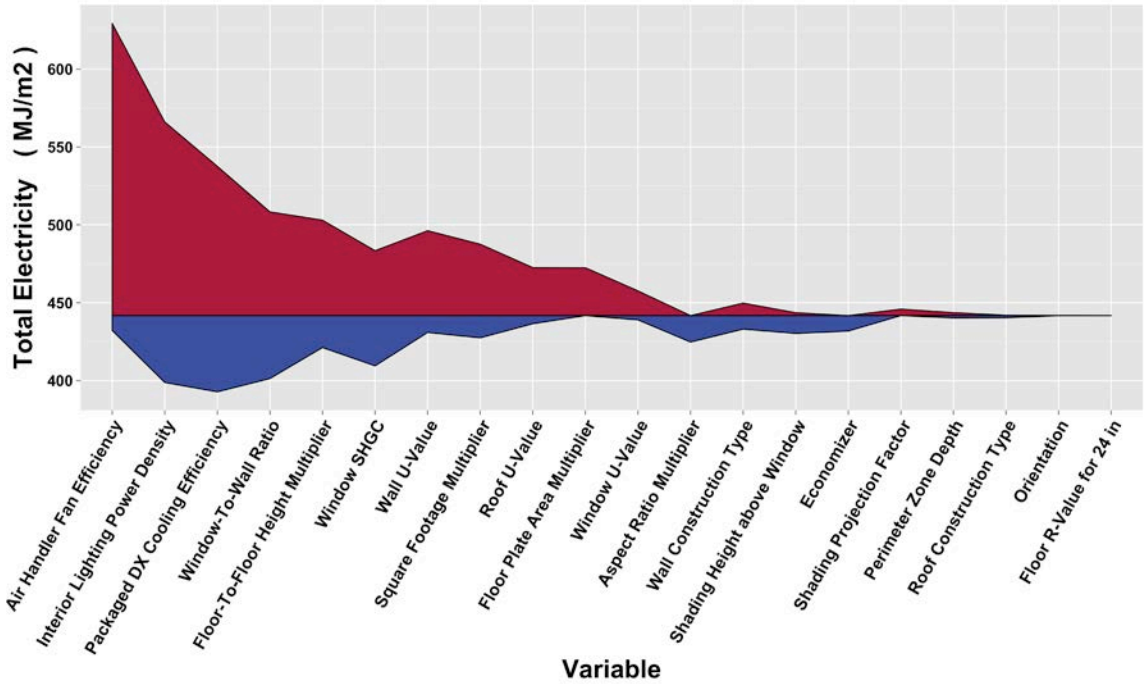
Location: Climate Zone 3B

Total Source Energy

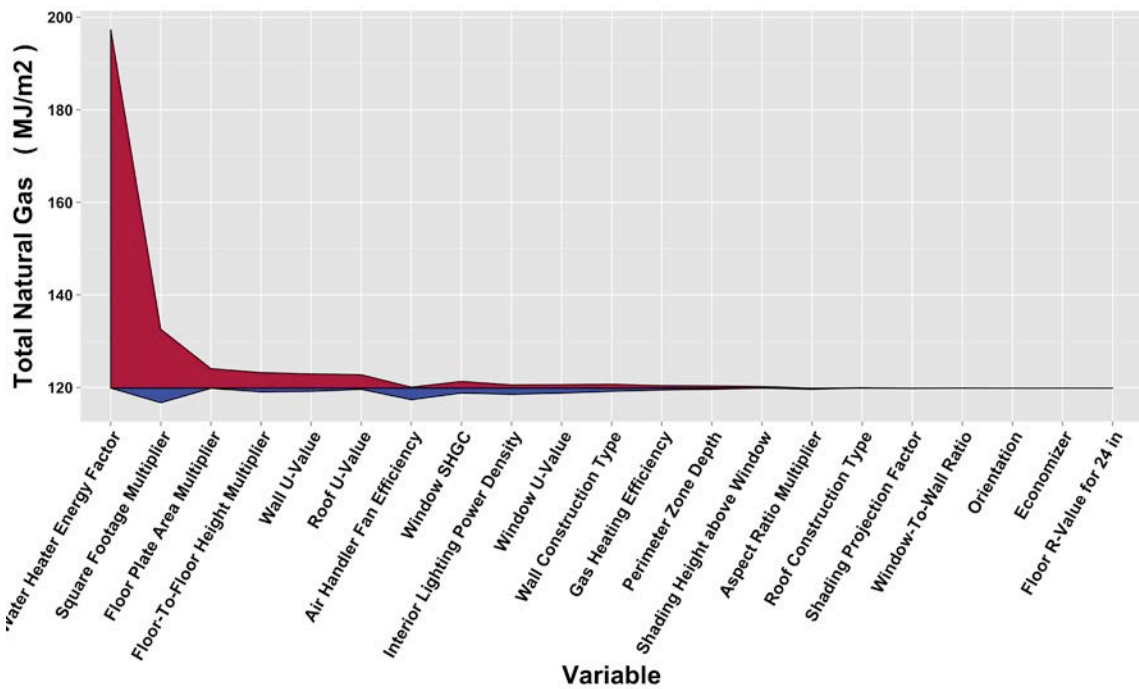
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1474.92	1528.82
Floor Plate Area Multiplier	4218	33744	1528.82	1629.38
Square Footage Multiplier	10123.2	101232	1480.22	1687.88
Floor-To-Floor Height Multiplier	8	16	1462.94	1726.57
Perimeter Zone Depth	10	20	1523.87	1535.33
Floor R-Value for 24 in	0	0	1528.82	1528.82
Window-To-Wall Ratio	0	0.36	1400.82	1739.85
Window Sill Height	1	6	1528.82	1528.82
Window U-Value	0.12	1.22	1518.89	1579.99
Window SHGC	0.08	0.7	1428.17	1659.72
Window VLT	0.06	0.89	1528.82	1528.82
Wall Construction Type	masonry-on-masonry	wood-siding	1502.25	1554.59
Wall U-Value	0.03	0.58	1493.76	1704.81
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1524.63	1529.69
Roof U-Value	0.01	0.2	1511.96	1629.60
Daylighting Control Setpoint	0	0	1528.82	1528.82
Interior Lighting Power Density	0.11	1.08	1393.53	1921.16
Shading Projection Factor	0	1	1528.82	1541.93
Shading Height above Window	0	2	1493.03	1534.71
District Chiller Cooling Efficiency	0.52	1.48	1528.82	1528.82
Air Handler Fan Efficiency	22.66	81.56	1498.73	2120.33
Packaged DX Cooling Efficiency	2.18	4.26	1373.78	1832.44
Gas Heating Efficiency	0.87	1.13	1528.37	1529.40
Terminal DX Cooling Efficiency	0.68	1.32	1528.82	1528.82
Terminal Furnace Heating Efficiency	0.87	1.13	1528.82	1528.82
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1528.82	1528.82
Water Heater Energy Factor	1	99	1528.82	1612.78
Economizer	false	true	1497.35	1528.82
Fan Control	cav	false	1528.82	1528.82
Orientation	0	359	1528.69	1529.12



Total Electricity



Total Natural Gas

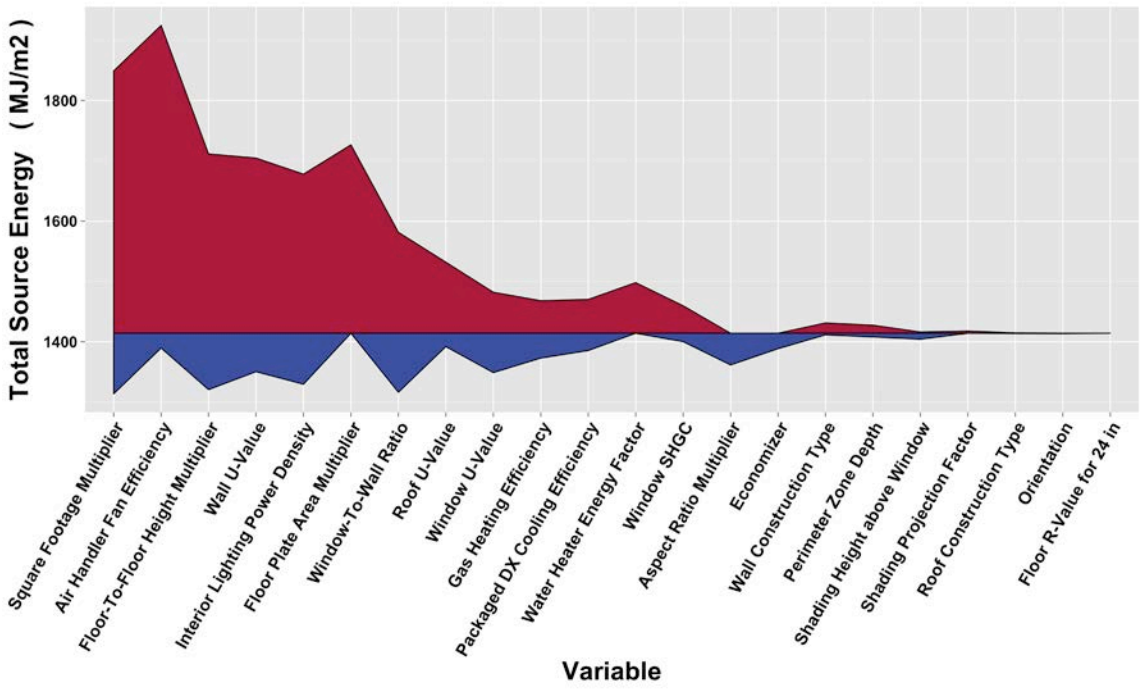


Location: Climate Zone 3C

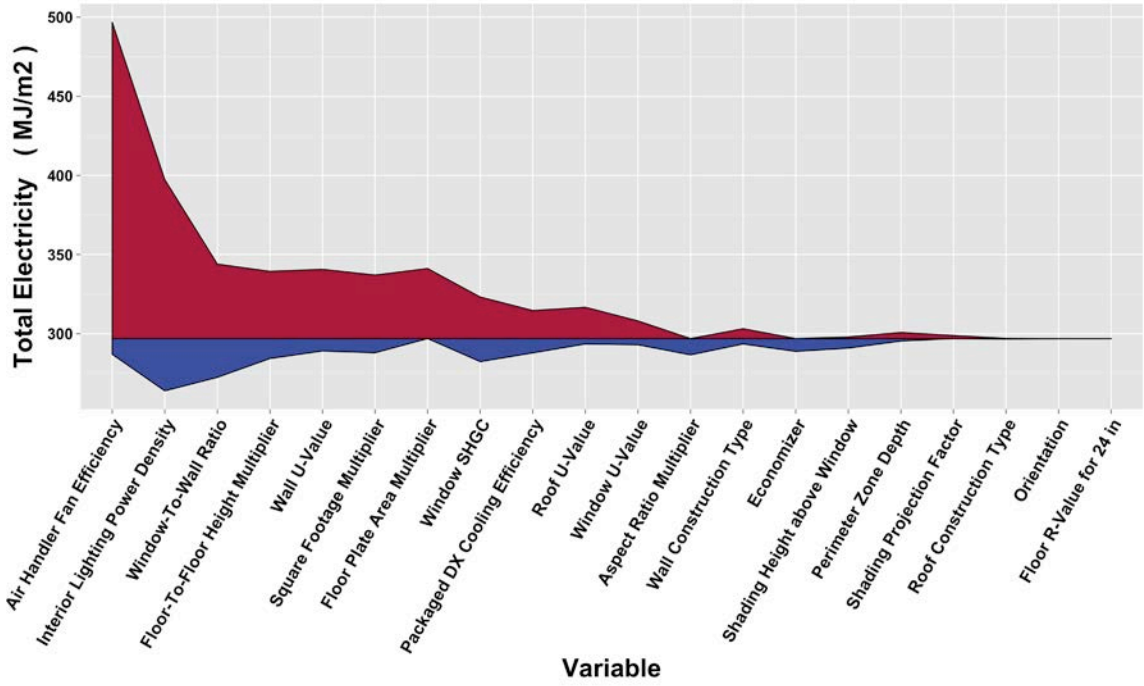
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1361.41	1413.97
Floor Plate Area Multiplier	4218	33744	1413.97	1726.45
Square Footage Multiplier	10123.2	101232	1313.50	1849.01
Floor-To-Floor Height Multiplier	8	16	1320.46	1711.34
Perimeter Zone Depth	10	20	1407.87	1427.35
Floor R-Value for 24 in	0	0	1413.97	1413.97
Window-To-Wall Ratio	0	0.36	1316.12	1581.48
Window Sill Height	1	6	1413.97	1413.97
Window U-Value	0.12	1.22	1348.70	1482.04
Window SHGC	0.08	0.7	1400.04	1459.62
Window VLT	0.06	0.89	1413.97	1413.97
Wall Construction Type	masonry-on-masonry	wood-siding	1411.34	1431.13
Wall U-Value	0.03	0.58	1350.28	1704.49
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1413.53	1414.56
Roof U-Value	0.01	0.2	1391.84	1531.90
Daylighting Control Setpoint	0	0	1413.97	1413.97
Interior Lighting Power Density	0.11	1.08	1329.44	1677.83
Shading Projection Factor	0	1	1413.97	1417.74

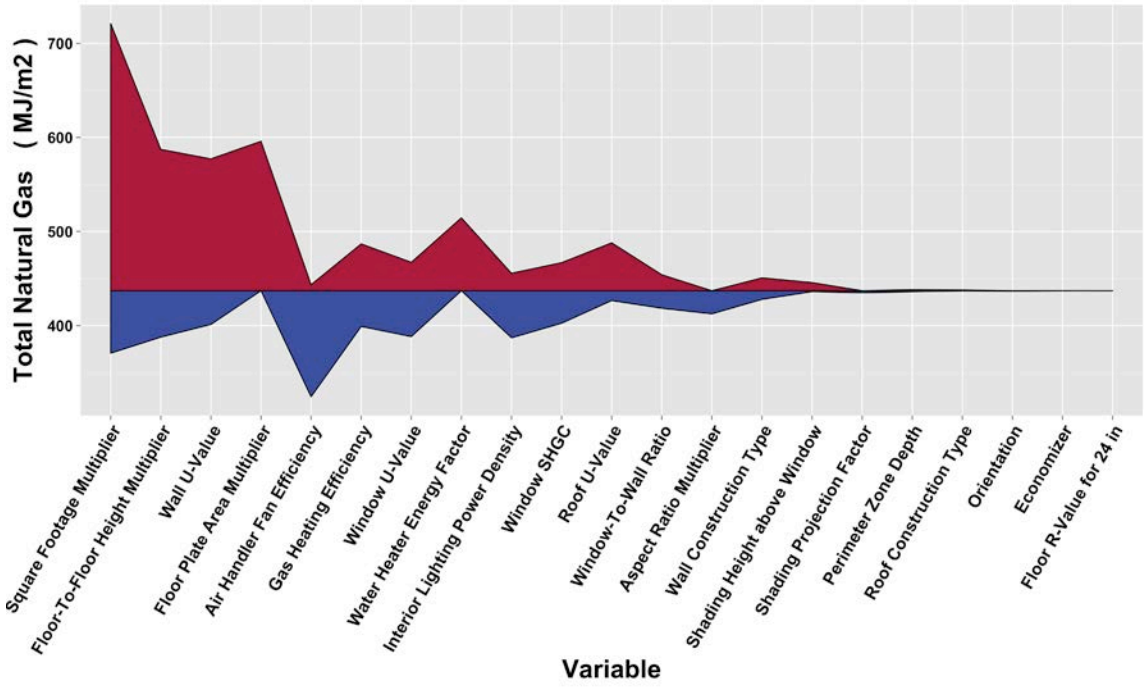
Shading Height above Window	0	2	1404.19	1416.08
District Chiller Cooling Efficiency	0.52	1.48	1413.97	1413.97
Air Handler Fan Efficiency	22.66	81.56	1389.46	1924.46
Packaged DX Cooling Efficiency	2.18	4.26	1385.31	1470.09
Gas Heating Efficiency	0.87	1.13	1372.78	1467.96
Terminal DX Cooling Efficiency	0.68	1.32	1413.97	1413.97
Terminal Furnace Heating Efficiency	0.87	1.13	1413.97	1413.97
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1413.97	1413.97
Water Heater Energy Factor	1	99	1413.97	1498.00
Economizer	false	true	1388.35	1413.97
Fan Control	cav	false	1413.97	1413.97
Orientation	0	359	1413.37	1413.97



Total Electricity



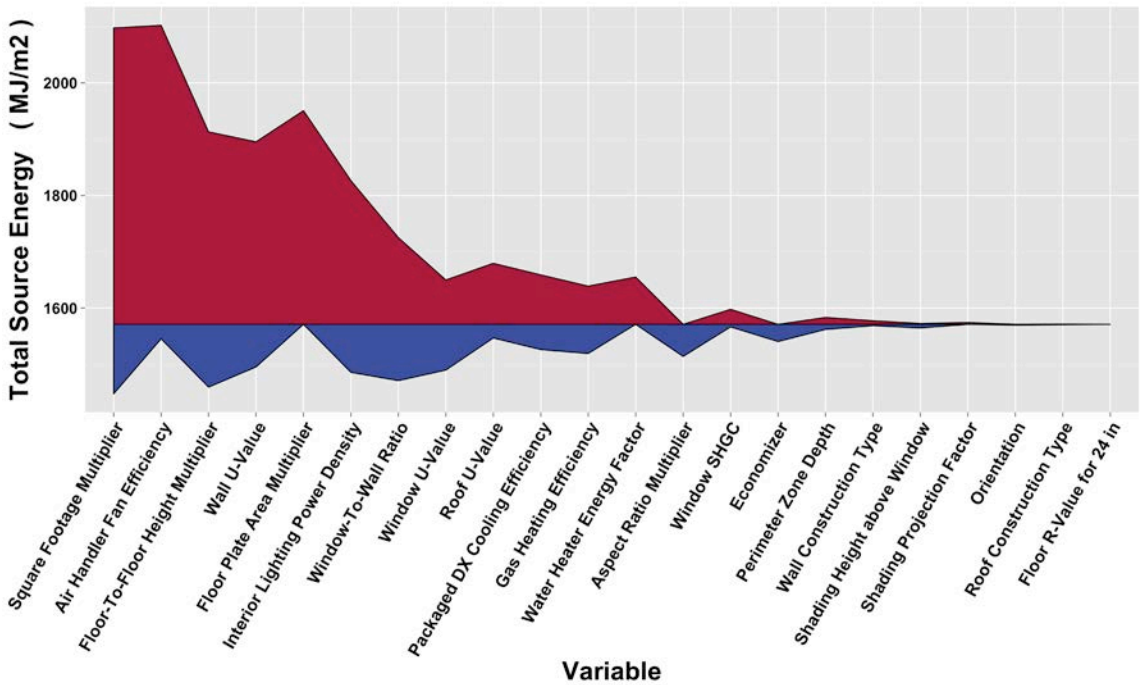
Total Natural Gas



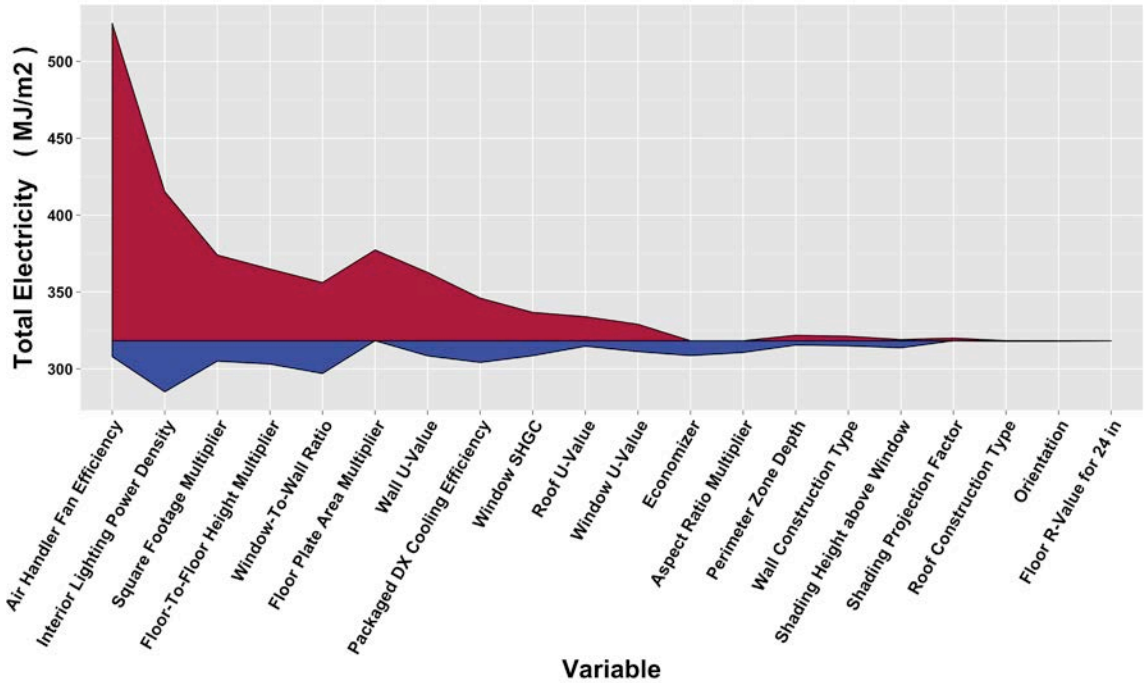
Location: Climate Zone 4A

Total Source Energy

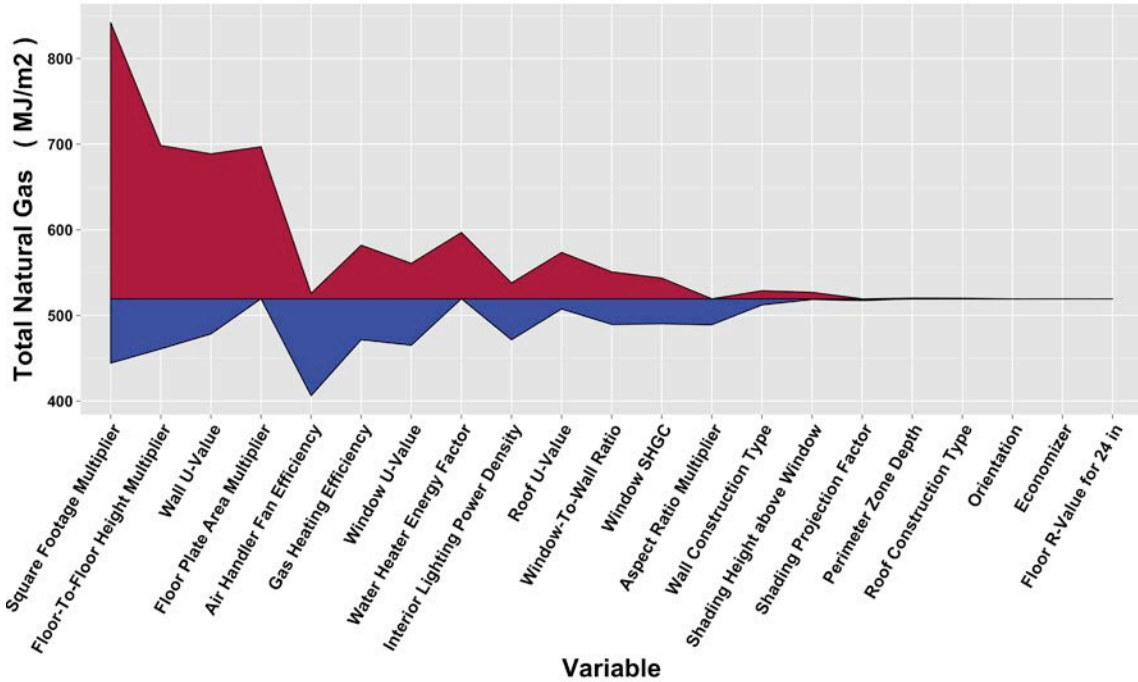
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1514.01	1571.04
Floor Plate Area Multiplier	4218	33744	1571.04	1950.58
Square Footage Multiplier	10123.2	101232	1447.56	2097.31
Floor-To-Floor Height Multiplier	8	16	1459.51	1912.88
Perimeter Zone Depth	10	20	1561.99	1583.27
Floor R-Value for 24 in	0	0	1571.04	1571.04
Window-To-Wall Ratio	0	0.36	1471.09	1725.03
Window Sill Height	1	6	1571.04	1571.04
Window U-Value	0.12	1.22	1489.83	1649.85
Window SHGC	0.08	0.7	1566.45	1597.71
Window VLT	0.06	0.89	1571.04	1571.04
Wall Construction Type	masonry-on-masonry	wood-siding	1568.68	1577.42
Wall U-Value	0.03	0.58	1495.33	1895.19
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1570.46	1571.33
Roof U-Value	0.01	0.2	1546.77	1679.46
Daylighting Control Setpoint	0	0	1571.04	1571.04
Interior Lighting Power Density	0.11	1.08	1485.79	1826.22
Shading Projection Factor	0	1	1571.04	1574.25
Shading Height above Window	0	2	1564.63	1572.52
District Chiller Cooling Efficiency	0.52	1.48	1571.04	1571.04
Air Handler Fan Efficiency	22.66	81.56	1545.29	2101.97
Packaged DX Cooling Efficiency	2.18	4.26	1526.21	1658.83
Gas Heating Efficiency	0.87	1.13	1519.26	1638.92
Terminal DX Cooling Efficiency	0.68	1.32	1571.04	1571.04
Terminal Furnace Heating Efficiency	0.87	1.13	1571.04	1571.04
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1571.04	1571.04
Water Heater Energy Factor	1	99	1571.04	1655.07
Economizer	false	true	1540.46	1571.04
Fan Control	cav	false	1571.04	1571.04
Orientation	0	359	1569.80	1571.04



Total Electricity



Total Natural Gas

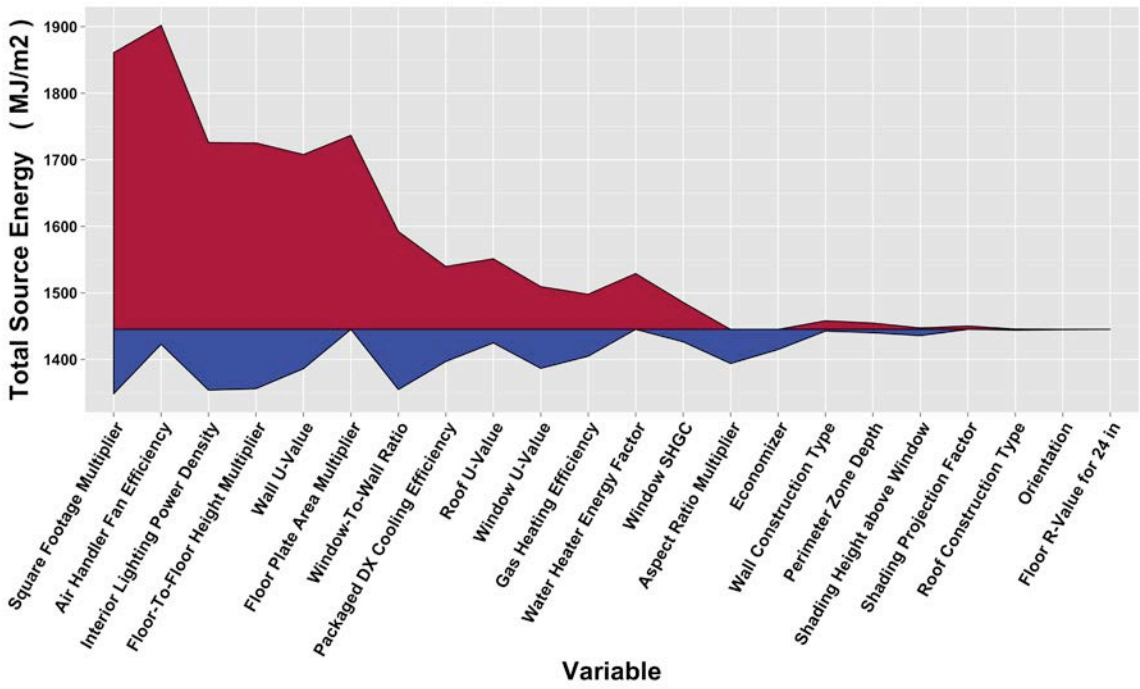


Location: Climate Zone 4B

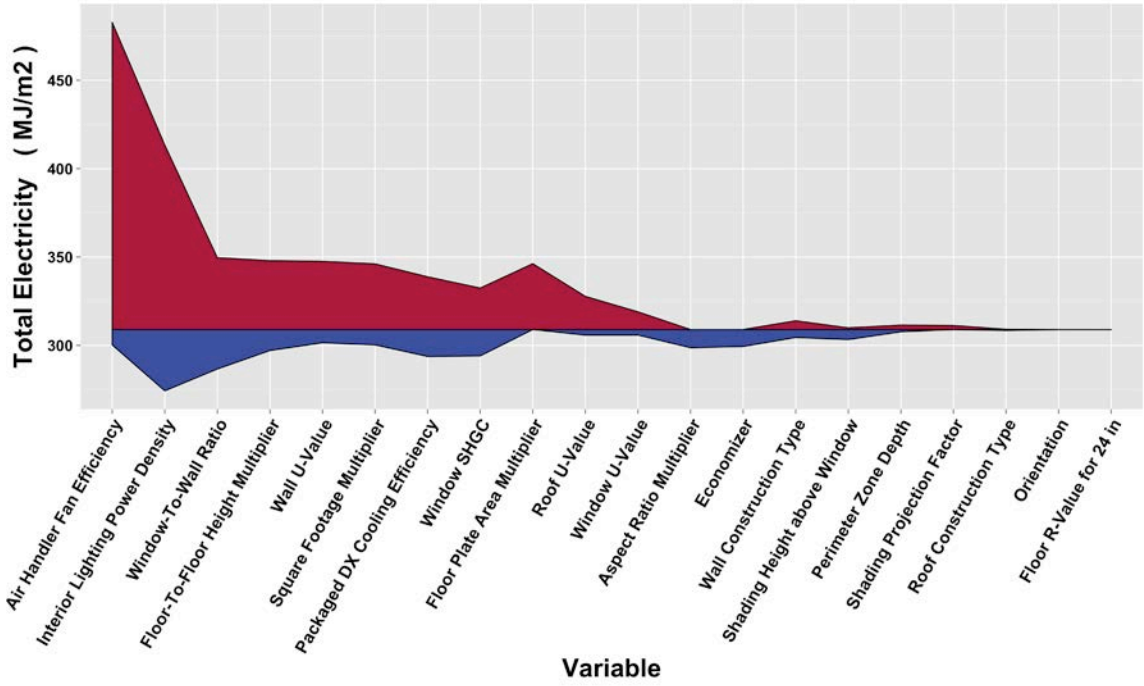
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1393.70	1445.06
Floor Plate Area Multiplier	4218	33744	1445.06	1736.80
Square Footage Multiplier	10123.2	101232	1348.17	1860.96
Floor-To-Floor Height Multiplier	8	16	1355.97	1725.27
Perimeter Zone Depth	10	20	1439.98	1454.57
Floor R-Value for 24 in	0	0	1445.06	1445.06
Window-To-Wall Ratio	0	0.36	1354.57	1592.21
Window Sill Height	1	6	1445.06	1445.06
Window U-Value	0.12	1.22	1386.46	1509.33
Window SHGC	0.08	0.7	1426.34	1485.76
Window VLT	0.06	0.89	1445.06	1445.06
Wall Construction Type	masonry-on-masonry	wood-siding	1442.54	1458.05
Wall U-Value	0.03	0.58	1386.00	1707.90
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1444.06	1445.60
Roof U-Value	0.01	0.2	1424.69	1551.23
Daylighting Control Setpoint	0	0	1445.06	1445.06
Interior Lighting Power Density	0.11	1.08	1353.72	1725.92
Shading Projection Factor	0	1	1445.06	1450.20

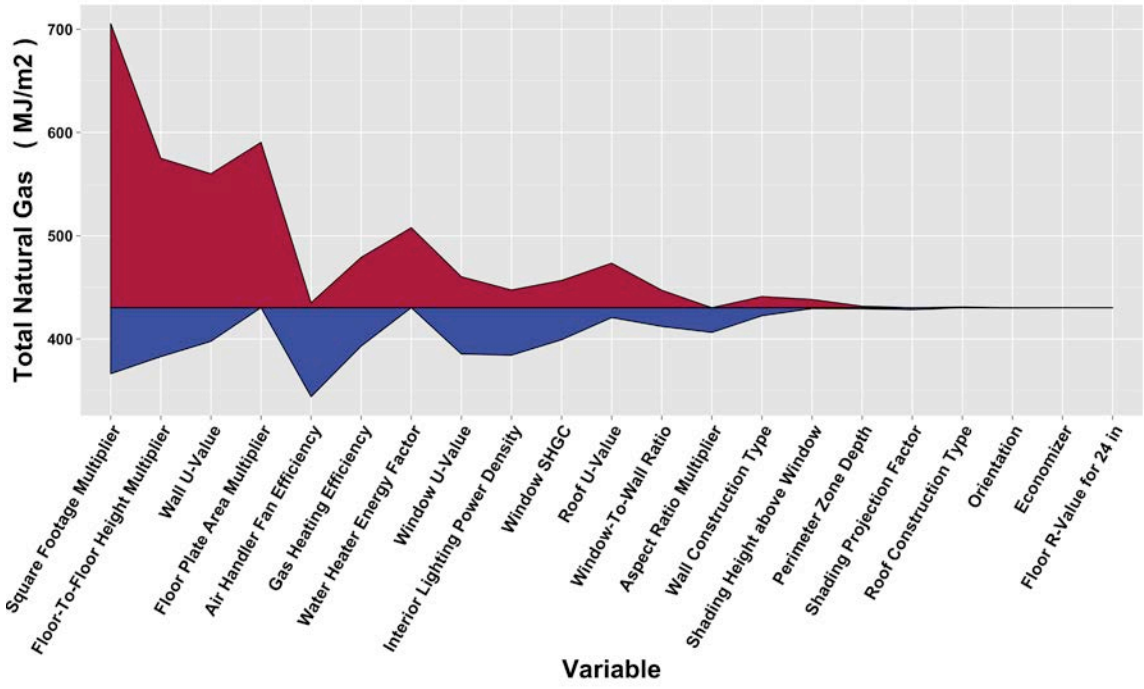
Shading Height above Window	0	2	1435.70	1447.24
District Chiller Cooling Efficiency	0.52	1.48	1445.06	1445.06
Air Handler Fan Efficiency	22.66	81.56	1422.66	1901.98
Packaged DX Cooling Efficiency	2.18	4.26	1396.77	1539.61
Gas Heating Efficiency	0.87	1.13	1404.72	1497.92
Terminal DX Cooling Efficiency	0.68	1.32	1445.06	1445.06
Terminal Furnace Heating Efficiency	0.87	1.13	1445.06	1445.06
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1445.06	1445.06
Water Heater Energy Factor	1	99	1445.06	1529.08
Economizer	false	true	1414.74	1445.06
Fan Control	cav	false	1445.06	1445.06
Orientation	0	359	1444.67	1445.06



Total Electricity



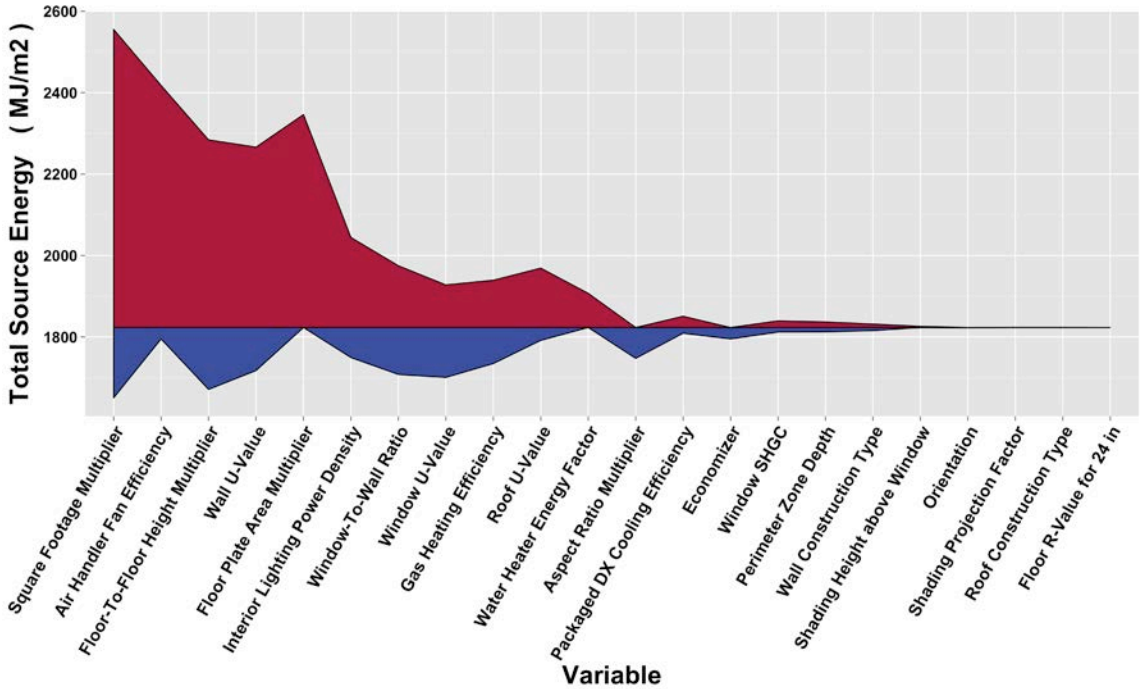
Total Natural Gas



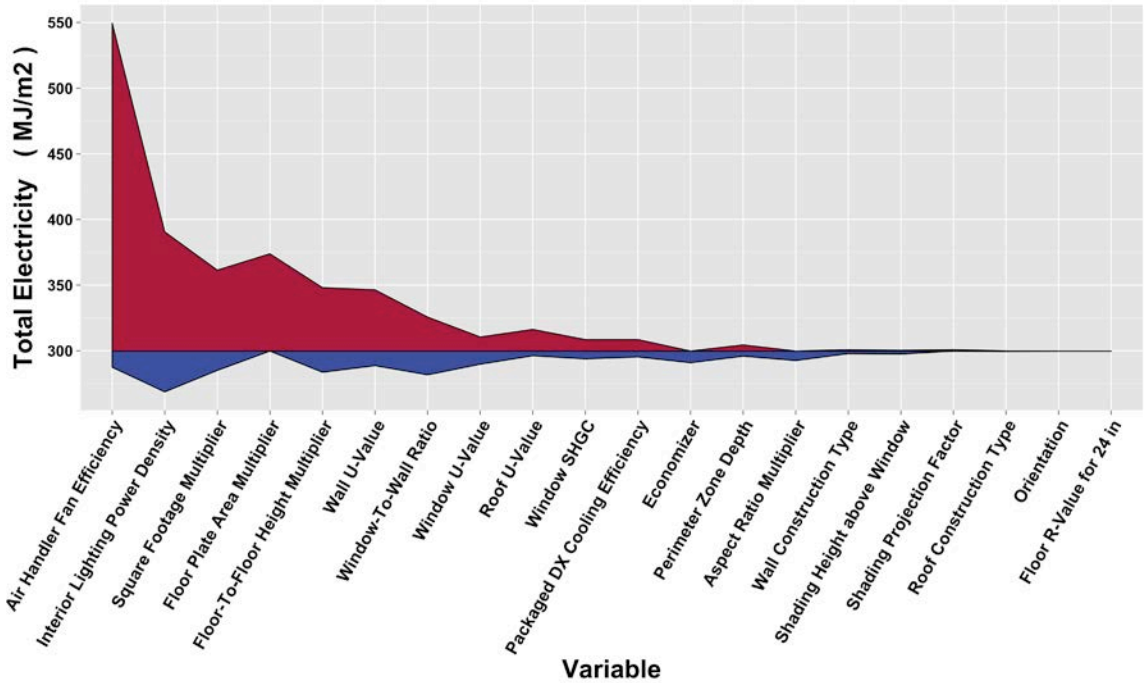
Location: Climate Zone 4C

Total Source Energy

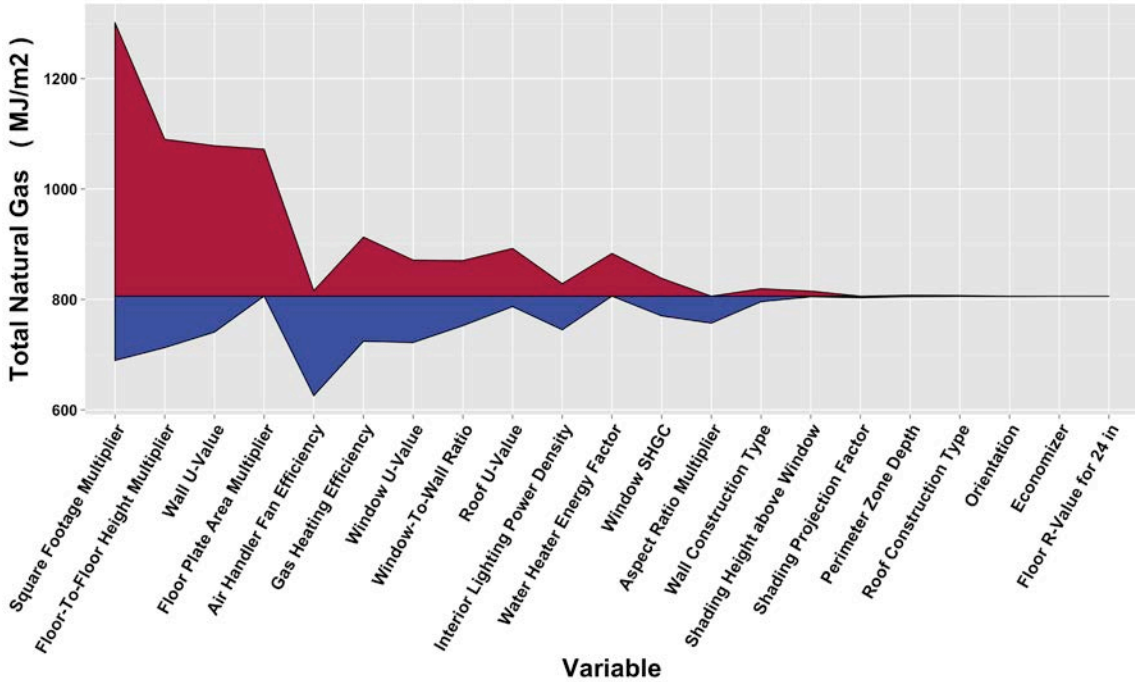
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1747.27	1823.10
Floor Plate Area Multiplier	4218	33744	1823.10	2346.31
Square Footage Multiplier	10123.2	101232	1650.26	2555.49
Floor-To-Floor Height Multiplier	8	16	1670.96	2284.12
Perimeter Zone Depth	10	20	1812.55	1836.74
Floor R-Value for 24 in	0	0	1823.10	1823.10
Window-To-Wall Ratio	0	0.36	1707.80	1974.90
Window Sill Height	1	6	1823.10	1823.10
Window U-Value	0.12	1.22	1700.45	1927.75
Window SHGC	0.08	0.7	1811.86	1839.45
Window VLT	0.06	0.89	1823.10	1823.10
Wall Construction Type	masonry-on-masonry	wood-siding	1815.43	1831.56
Wall U-Value	0.03	0.58	1717.30	2266.21
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1823.10	1823.54
Roof U-Value	0.01	0.2	1791.42	1969.09
Daylighting Control Setpoint	0	0	1823.10	1823.10
Interior Lighting Power Density	0.11	1.08	1749.25	2044.38
Shading Projection Factor	0	1	1823.10	1823.56
Shading Height above Window	0	2	1823.10	1825.94
District Chiller Cooling Efficiency	0.52	1.48	1823.10	1823.10
Air Handler Fan Efficiency	22.66	81.56	1794.91	2417.82
Packaged DX Cooling Efficiency	2.18	4.26	1808.99	1850.73
Gas Heating Efficiency	0.87	1.13	1734.49	1939.24
Terminal DX Cooling Efficiency	0.68	1.32	1823.10	1823.10
Terminal Furnace Heating Efficiency	0.87	1.13	1823.10	1823.10
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1823.10	1823.10
Water Heater Energy Factor	1	99	1823.10	1907.14
Economizer	false	true	1795.04	1823.10
Fan Control	cav	false	1823.10	1823.10
Orientation	0	359	1822.61	1823.10



Total Electricity



Total Natural Gas

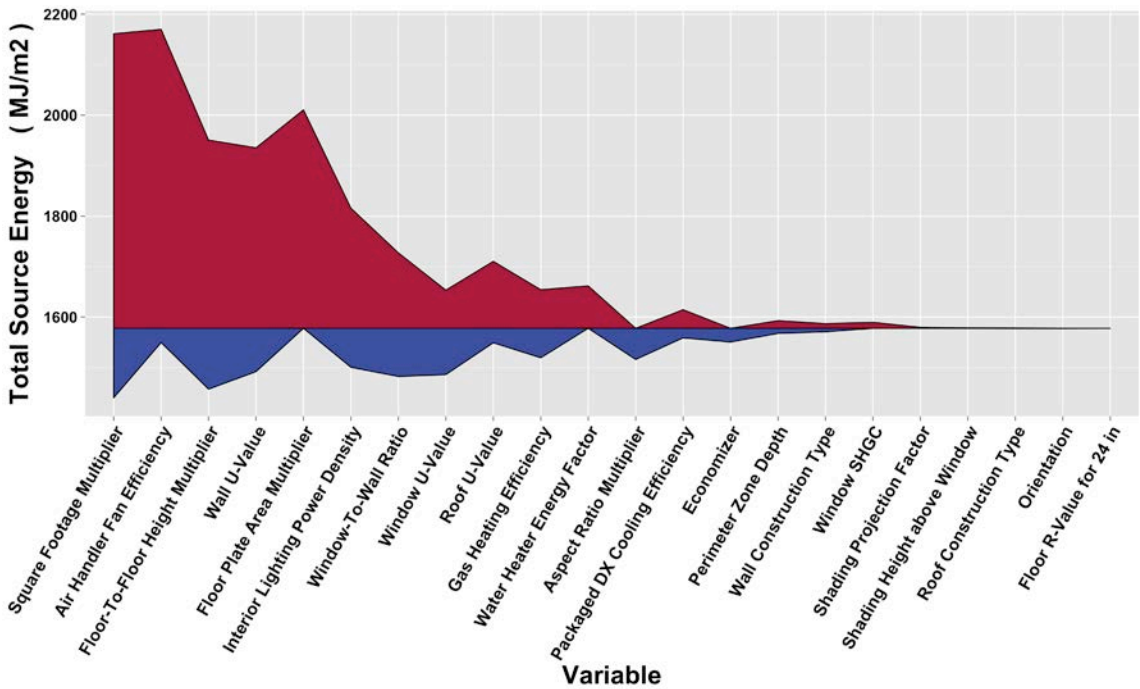


Location: Climate Zone 5A

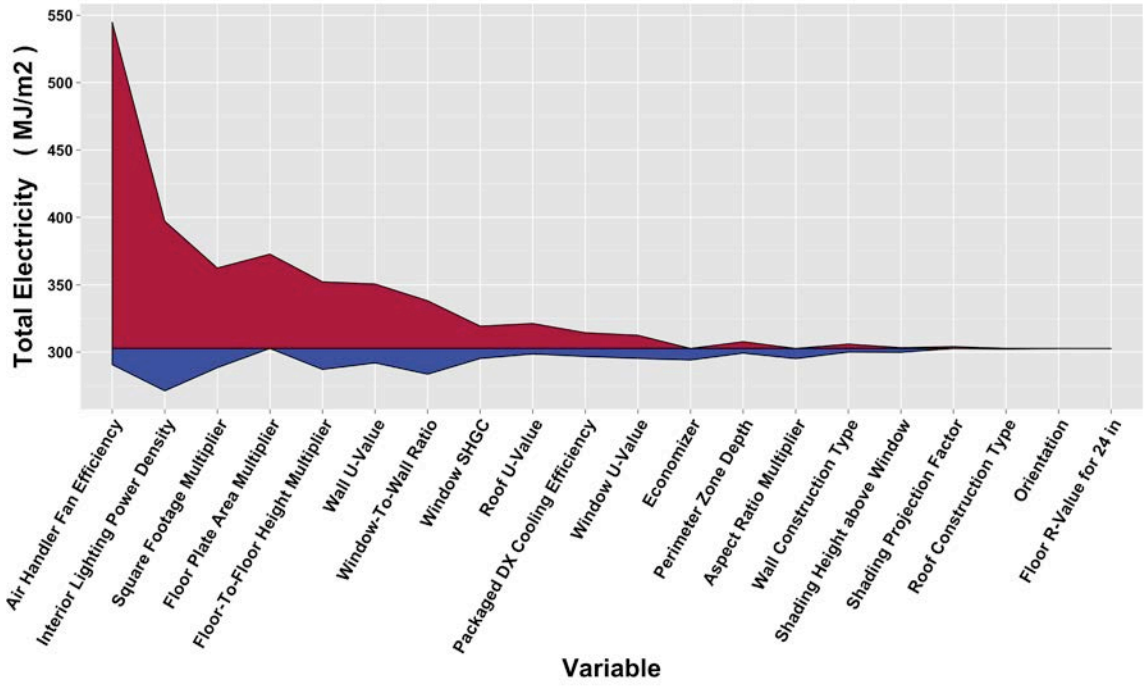
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1515.80	1577.55
Floor Plate Area Multiplier	4218	33744	1577.55	2010.50
Square Footage Multiplier	10123.2	101232	1439.76	2161.17
Floor-To-Floor Height Multiplier	8	16	1457.03	1950.53
Perimeter Zone Depth	10	20	1567.49	1592.74
Floor R-Value for 24 in	0	0	1577.55	1577.55
Window-To-Wall Ratio	0	0.36	1482.16	1727.08
Window Sill Height	1	6	1577.55	1577.55
Window U-Value	0.12	1.22	1485.92	1653.20
Window SHGC	0.08	0.7	1577.55	1589.44
Window VLT	0.06	0.89	1577.55	1577.55
Wall Construction Type	masonry-on-masonry	wood-siding	1570.75	1586.80
Wall U-Value	0.03	0.58	1491.72	1935.23
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1577.15	1578.06
Roof U-Value	0.01	0.2	1548.92	1710.29
Daylighting Control Setpoint	0	0	1577.55	1577.55
Interior Lighting Power Density	0.11	1.08	1500.36	1815.63
Shading Projection Factor	0	1	1577.55	1579.47

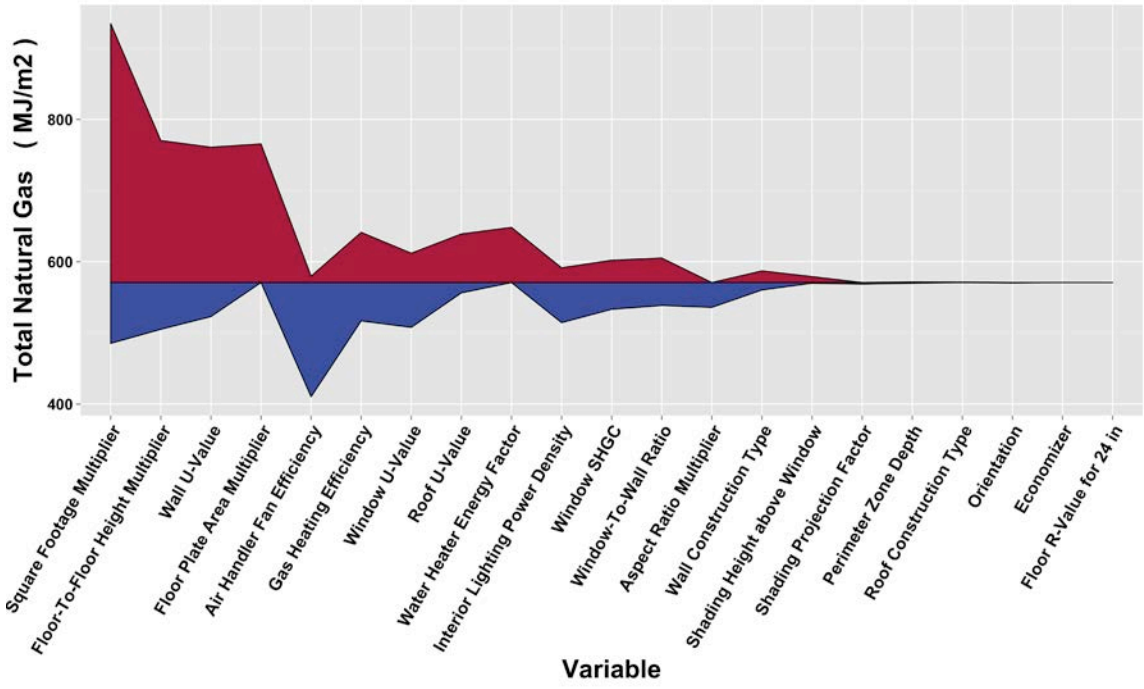
Shading Height above Window	0	2	1577.45	1578.53
District Chiller Cooling Efficiency	0.52	1.48	1577.55	1577.55
Air Handler Fan Efficiency	22.66	81.56	1549.31	2169.93
Packaged DX Cooling Efficiency	2.18	4.26	1558.68	1614.51
Gas Heating Efficiency	0.87	1.13	1519.16	1654.08
Terminal DX Cooling Efficiency	0.68	1.32	1577.55	1577.55
Terminal Furnace Heating Efficiency	0.87	1.13	1577.55	1577.55
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1577.55	1577.55
Water Heater Energy Factor	1	99	1577.55	1661.59
Economizer	false	true	1550.43	1577.55
Fan Control	cav	false	1577.55	1577.55
Orientation	0	359	1577.14	1577.55



Total Electricity



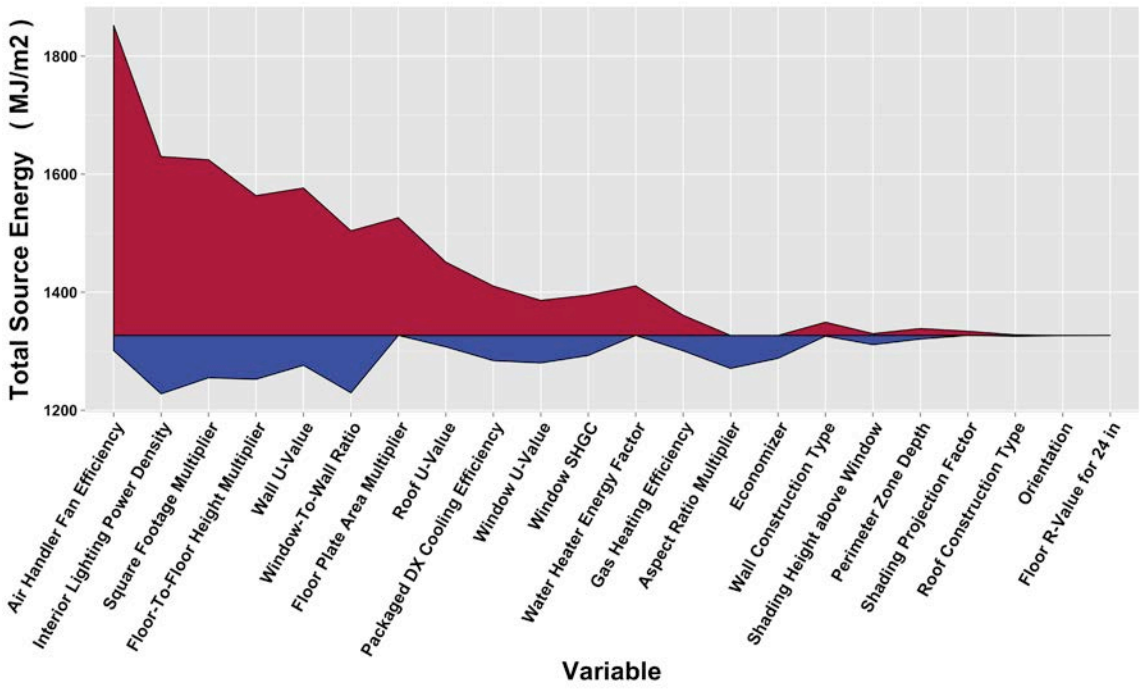
Total Natural Gas



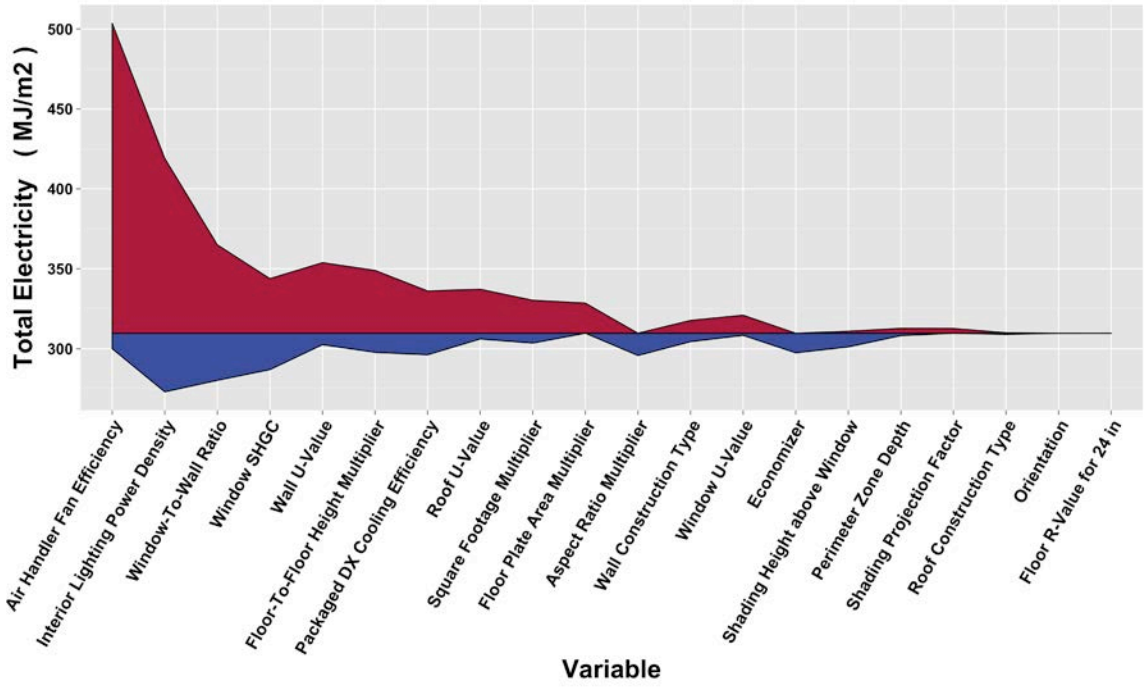
Location: Climate Zone 5B

Total Source Energy

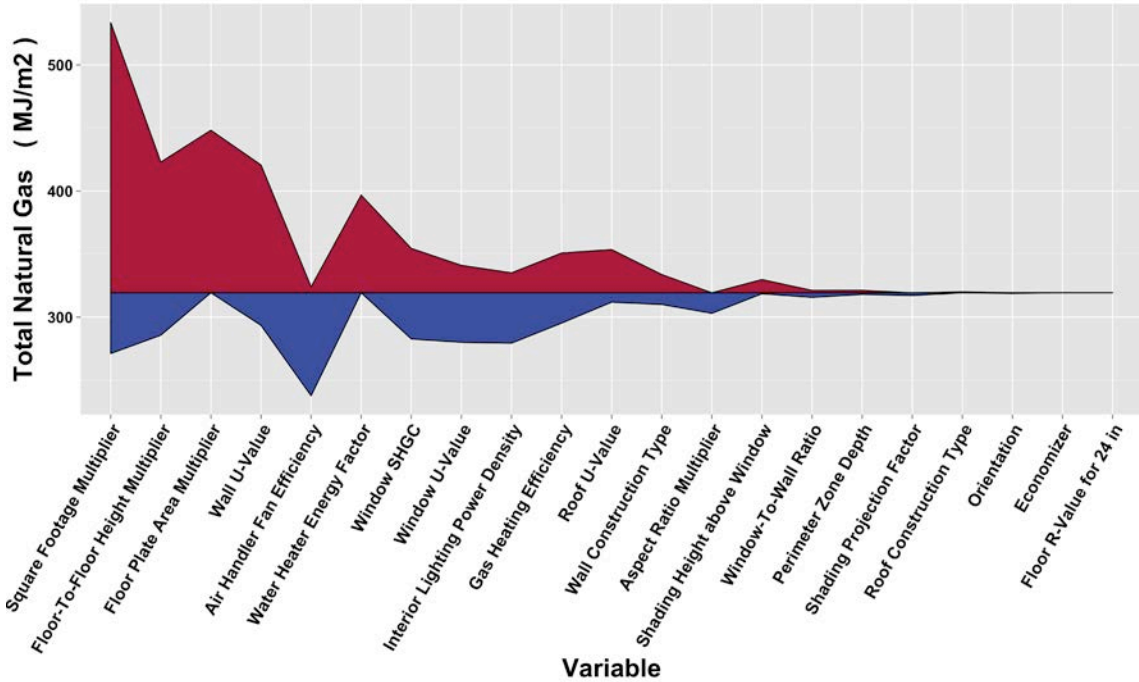
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1270.81	1326.86
Floor Plate Area Multiplier	4218	33744	1326.86	1526.28
Square Footage Multiplier	10123.2	101232	1255.06	1624.47
Floor-To-Floor Height Multiplier	8	16	1252.52	1563.68
Perimeter Zone Depth	10	20	1320.70	1338.54
Floor R-Value for 24 in	0	0	1326.86	1326.86
Window-To-Wall Ratio	0	0.36	1229.55	1504.03
Window Sill Height	1	6	1326.86	1326.86
Window U-Value	0.12	1.22	1280.13	1386.14
Window SHGC	0.08	0.7	1292.86	1395.32
Window VLT	0.06	0.89	1326.86	1326.86
Wall Construction Type	masonry-on-masonry	wood-siding	1325.67	1349.26
Wall U-Value	0.03	0.58	1276.19	1576.58
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1325.40	1327.88
Roof U-Value	0.01	0.2	1307.44	1451.09
Daylighting Control Setpoint	0	0	1326.86	1326.86
Interior Lighting Power Density	0.11	1.08	1227.82	1629.87
Shading Projection Factor	0	1	1326.86	1333.88
Shading Height above Window	0	2	1311.15	1329.85
District Chiller Cooling Efficiency	0.52	1.48	1326.86	1326.86
Air Handler Fan Efficiency	22.66	81.56	1301.33	1852.12
Packaged DX Cooling Efficiency	2.18	4.26	1284.13	1410.53
Gas Heating Efficiency	0.87	1.13	1300.79	1361.03
Terminal DX Cooling Efficiency	0.68	1.32	1326.86	1326.86
Terminal Furnace Heating Efficiency	0.87	1.13	1326.86	1326.86
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1326.86	1326.86
Water Heater Energy Factor	1	99	1326.86	1410.87
Economizer	false	true	1288.09	1326.86
Fan Control	cav	false	1326.86	1326.86
Orientation	0	359	1326.39	1326.86



Total Electricity



Total Natural Gas

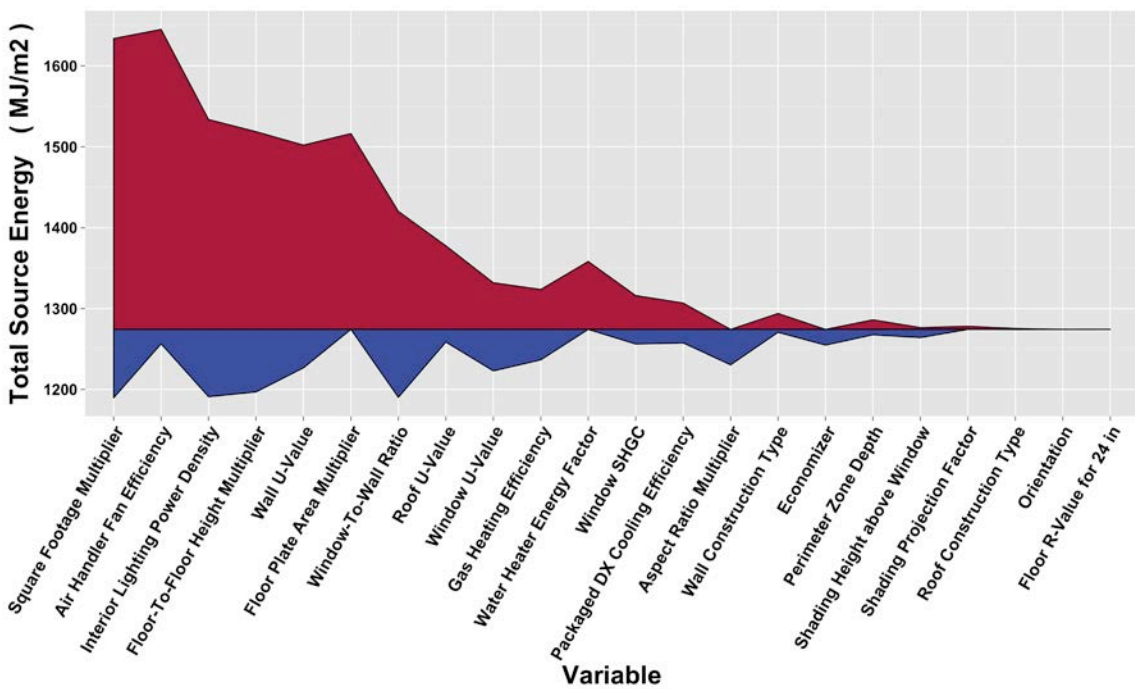


Location: Climate Zone 5C

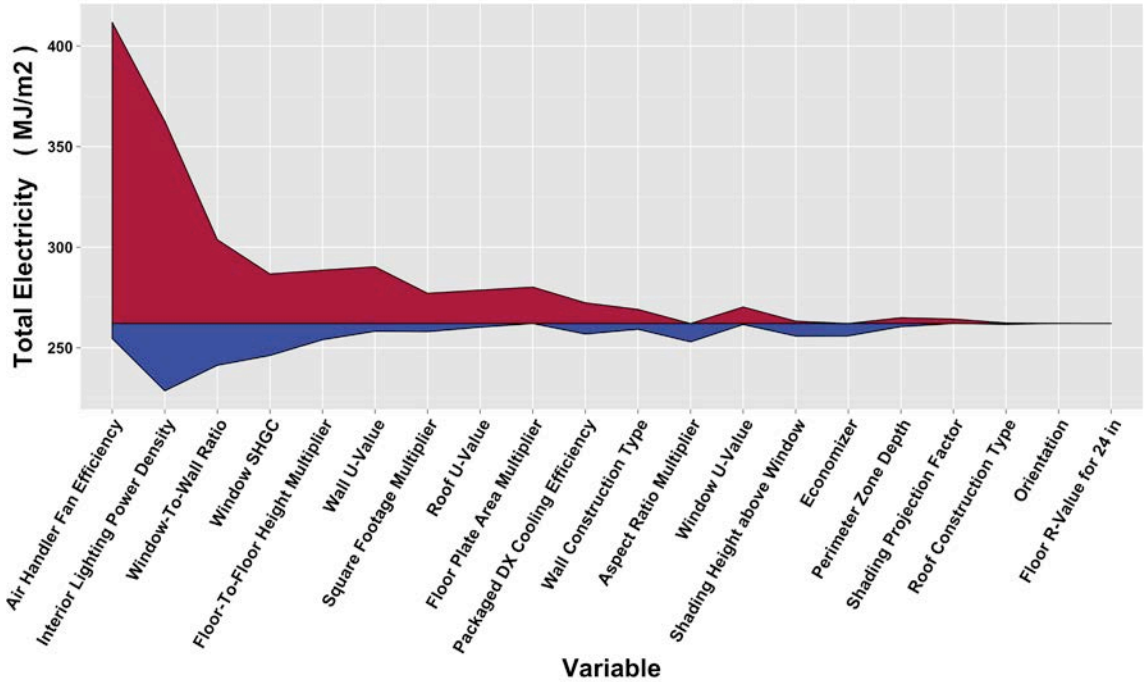
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1230.33	1274.19
Floor Plate Area Multiplier	4218	33744	1274.19	1516.32
Square Footage Multiplier	10123.2	101232	1189.56	1633.77
Floor-To-Floor Height Multiplier	8	16	1196.87	1518.65
Perimeter Zone Depth	10	20	1267.55	1286.04
Floor R-Value for 24 in	0	0	1274.19	1274.19
Window-To-Wall Ratio	0	0.36	1190.20	1420.11
Window Sill Height	1	6	1274.19	1274.19
Window U-Value	0.12	1.22	1222.87	1331.91
Window SHGC	0.08	0.7	1256.12	1316.05
Window VLT	0.06	0.89	1274.19	1274.19
Wall Construction Type	masonry-on-masonry	wood-siding	1270.58	1293.94
Wall U-Value	0.03	0.58	1226.66	1502.03
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1273.97	1275.36
Roof U-Value	0.01	0.2	1258.57	1377.59
Daylighting Control Setpoint	0	0	1274.19	1274.19
Interior Lighting Power Density	0.11	1.08	1190.96	1533.68
Shading Projection Factor	0	1	1274.19	1278.01

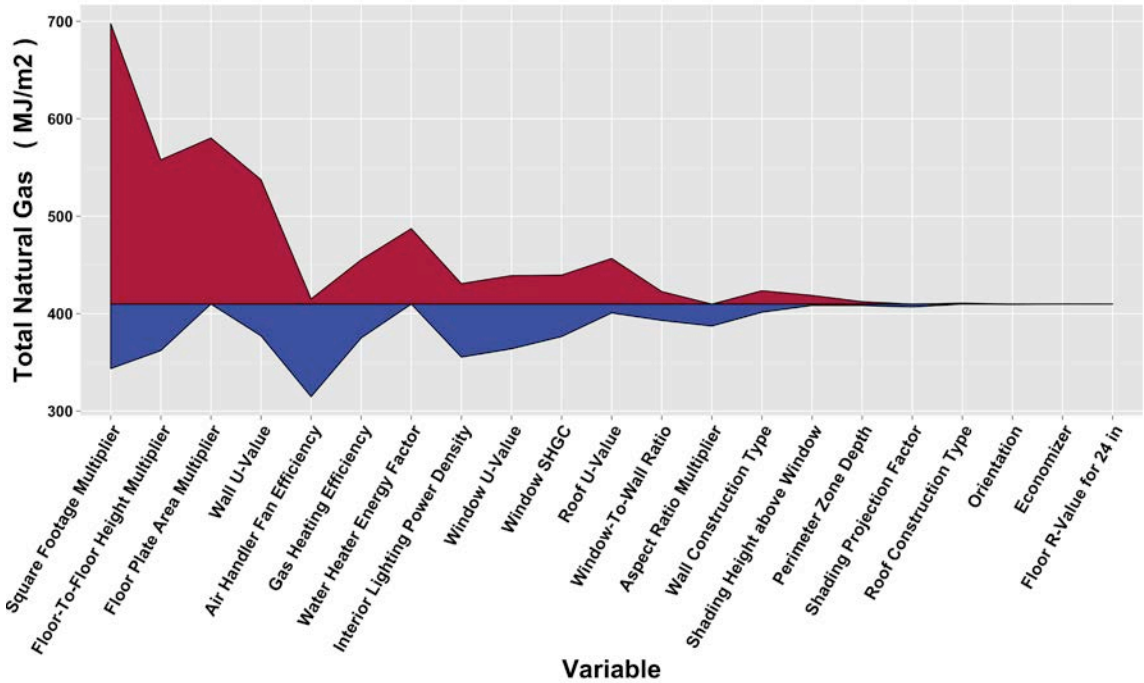
Shading Height above Window	0	2	1264.07	1276.43
District Chiller Cooling Efficiency	0.52	1.48	1274.19	1274.19
Air Handler Fan Efficiency	22.66	81.56	1256.36	1645.11
Packaged DX Cooling Efficiency	2.18	4.26	1257.53	1306.81
Gas Heating Efficiency	0.87	1.13	1236.50	1323.60
Terminal DX Cooling Efficiency	0.68	1.32	1274.19	1274.19
Terminal Furnace Heating Efficiency	0.87	1.13	1274.19	1274.19
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1274.19	1274.19
Water Heater Energy Factor	1	99	1274.19	1358.22
Economizer	false	true	1254.76	1274.19
Fan Control	cav	false	1274.19	1274.19
Orientation	0	359	1274.11	1274.19



Total Electricity



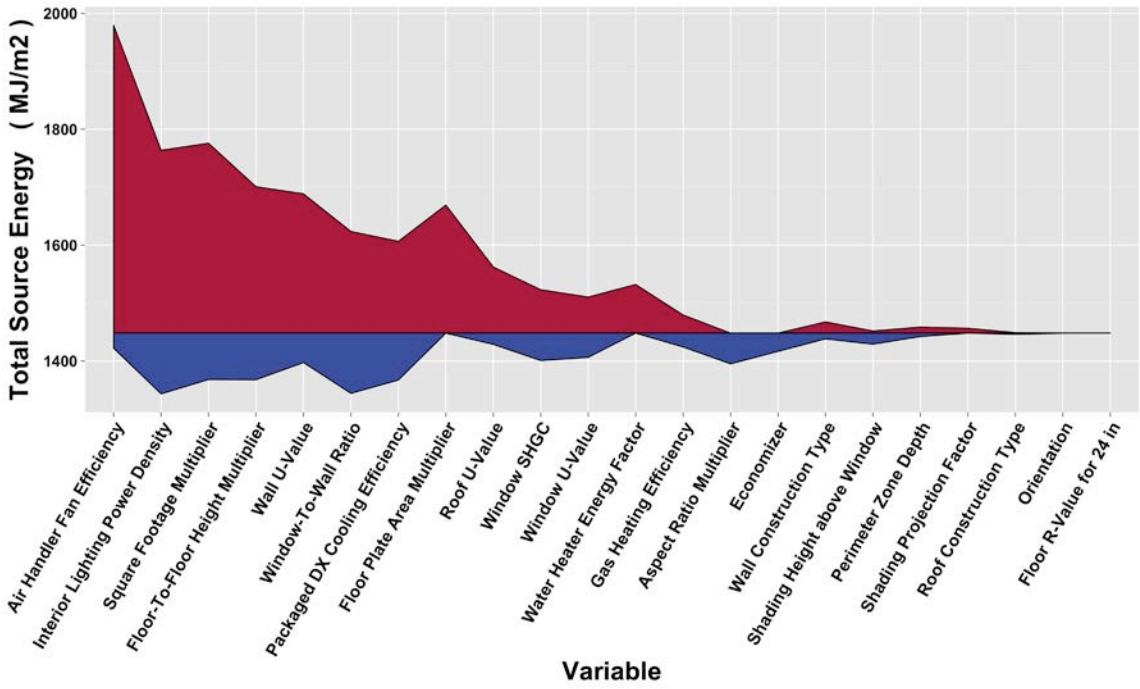
Total Natural Gas



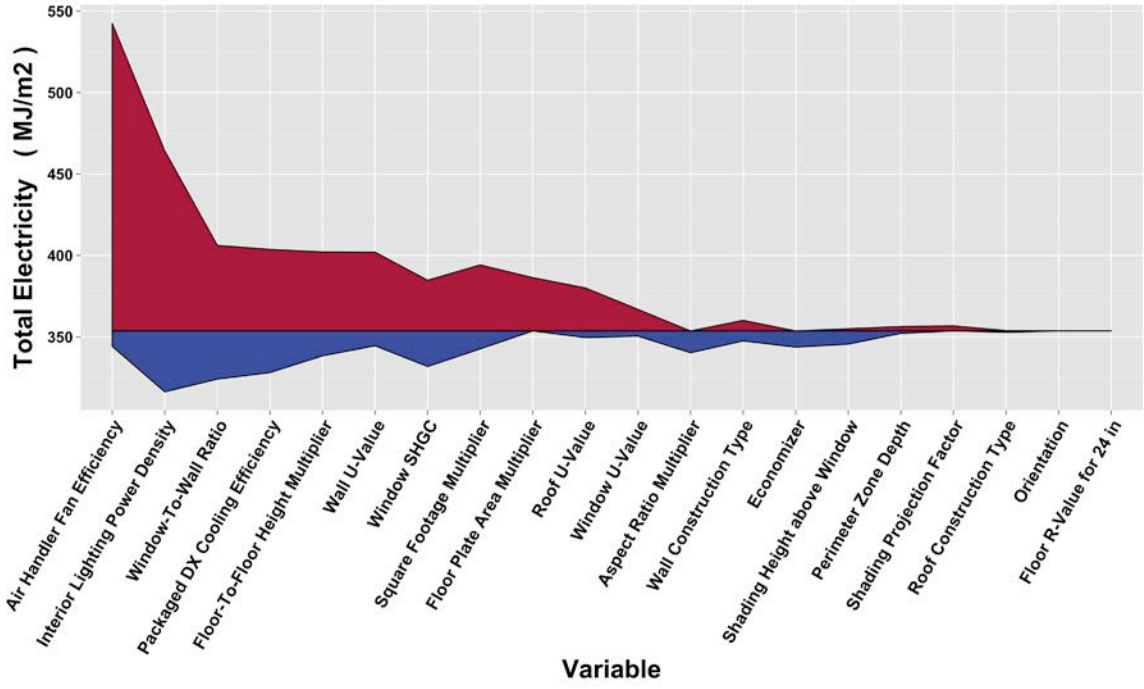
Location: Climate Zone 6A

Total Source Energy

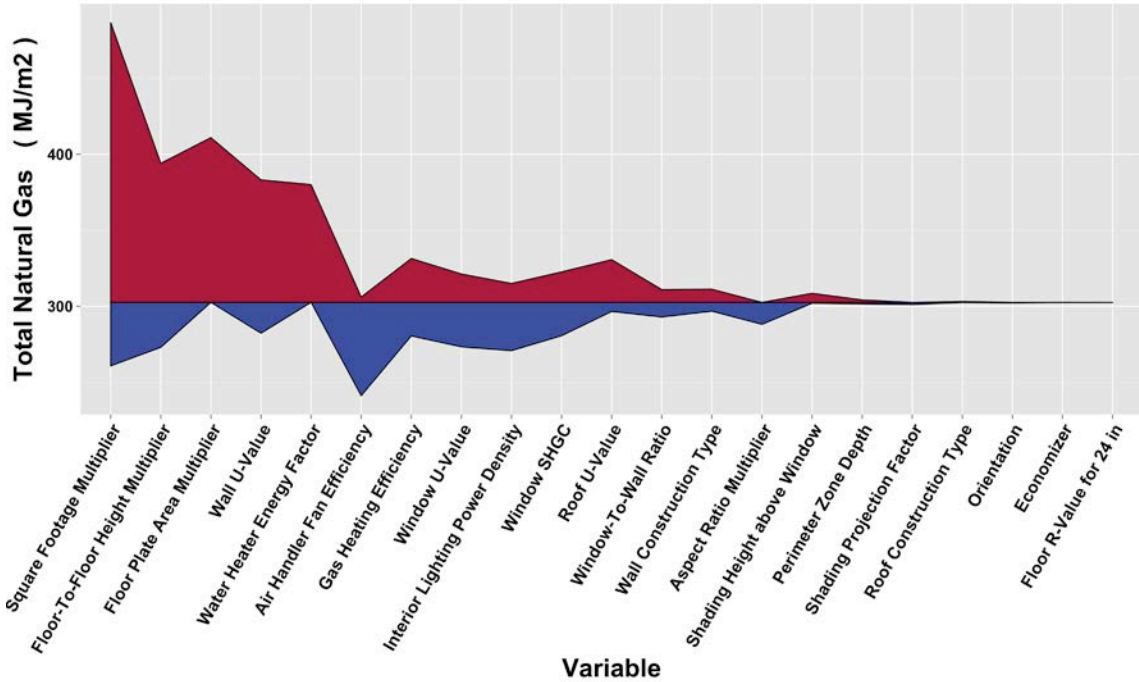
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1394.89	1447.97
Floor Plate Area Multiplier	4218	33744	1447.97	1669.11
Square Footage Multiplier	10123.2	101232	1367.85	1775.80
Floor-To-Floor Height Multiplier	8	16	1367.54	1700.76
Perimeter Zone Depth	10	20	1442.11	1458.41
Floor R-Value for 24 in	0	0	1447.97	1447.97
Window-To-Wall Ratio	0	0.36	1343.96	1623.47
Window Sill Height	1	6	1447.97	1447.97
Window U-Value	0.12	1.22	1406.16	1510.24
Window SHGC	0.08	0.7	1400.59	1522.86
Window VLT	0.06	0.89	1447.97	1447.97
Wall Construction Type	masonry-on-masonry	wood-siding	1438.05	1467.35
Wall U-Value	0.03	0.58	1397.16	1688.49
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1446.09	1448.80
Roof U-Value	0.01	0.2	1428.54	1562.16
Daylighting Control Setpoint	0	0	1447.97	1447.97
Interior Lighting Power Density	0.11	1.08	1343.10	1763.64
Shading Projection Factor	0	1	1447.97	1456.31
Shading Height above Window	0	2	1428.84	1451.63
District Chiller Cooling Efficiency	0.52	1.48	1447.97	1447.97
Air Handler Fan Efficiency	22.66	81.56	1421.86	1979.30
Packaged DX Cooling Efficiency	2.18	4.26	1367.01	1606.51
Gas Heating Efficiency	0.87	1.13	1424.06	1479.31
Terminal DX Cooling Efficiency	0.68	1.32	1447.97	1447.97
Terminal Furnace Heating Efficiency	0.87	1.13	1447.97	1447.97
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1447.97	1447.97
Water Heater Energy Factor	1	99	1447.97	1531.97
Economizer	false	true	1416.52	1447.97
Fan Control	cav	false	1447.97	1447.97
Orientation	0	359	1447.77	1447.97



Total Electricity



Total Natural Gas

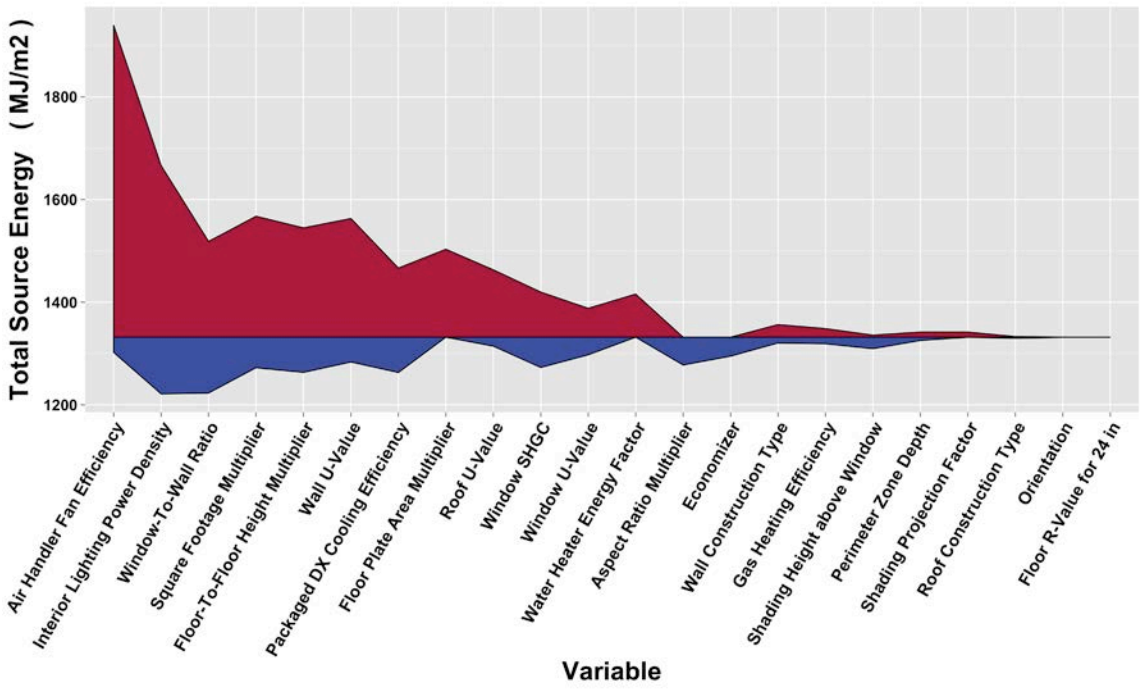


Location: Climate Zone 6B

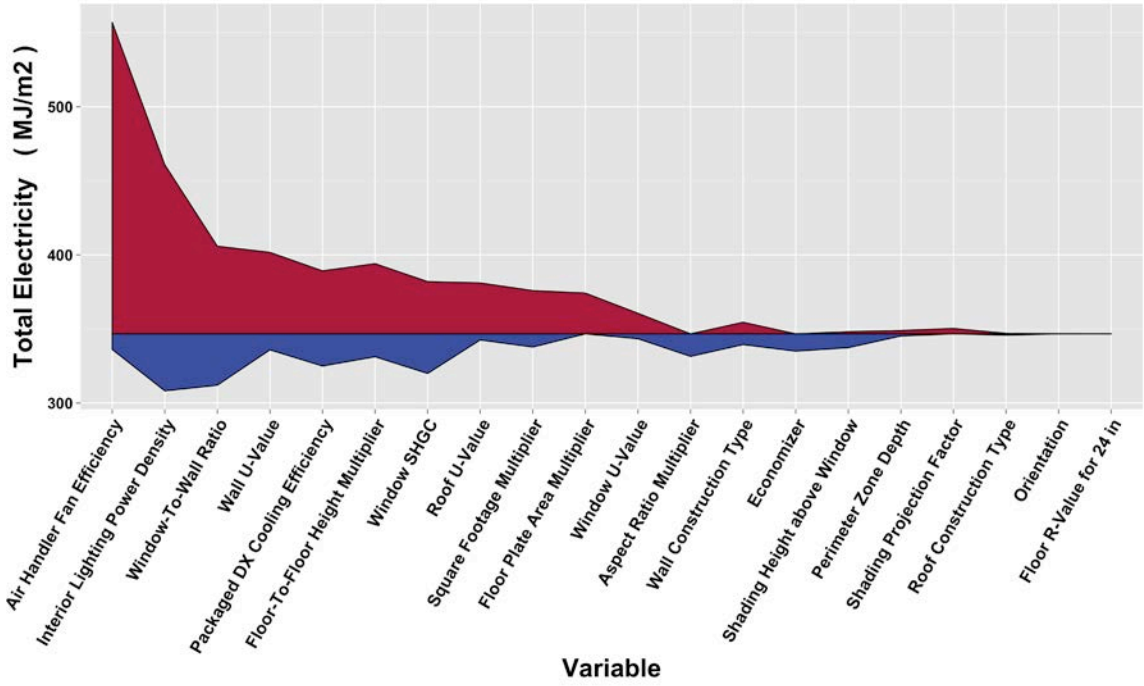
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1277.63	1331.76
Floor Plate Area Multiplier	4218	33744	1331.76	1503.11
Square Footage Multiplier	10123.2	101232	1272.33	1567.29
Floor-To-Floor Height Multiplier	8	16	1263.27	1544.67
Perimeter Zone Depth	10	20	1325.45	1341.77
Floor R-Value for 24 in	0	0	1331.76	1331.76
Window-To-Wall Ratio	0	0.36	1223.07	1518.29
Window Sill Height	1	6	1331.76	1331.76
Window U-Value	0.12	1.22	1297.47	1388.07
Window SHGC	0.08	0.7	1272.77	1419.65
Window VLT	0.06	0.89	1331.76	1331.76
Wall Construction Type	masonry-on-masonry	wood-siding	1320.58	1356.34
Wall U-Value	0.03	0.58	1283.51	1562.92
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1329.79	1333.01
Roof U-Value	0.01	0.2	1314.40	1463.03
Daylighting Control Setpoint	0	0	1331.76	1331.76
Interior Lighting Power Density	0.11	1.08	1221.42	1666.07
Shading Projection Factor	0	1	1331.76	1341.75

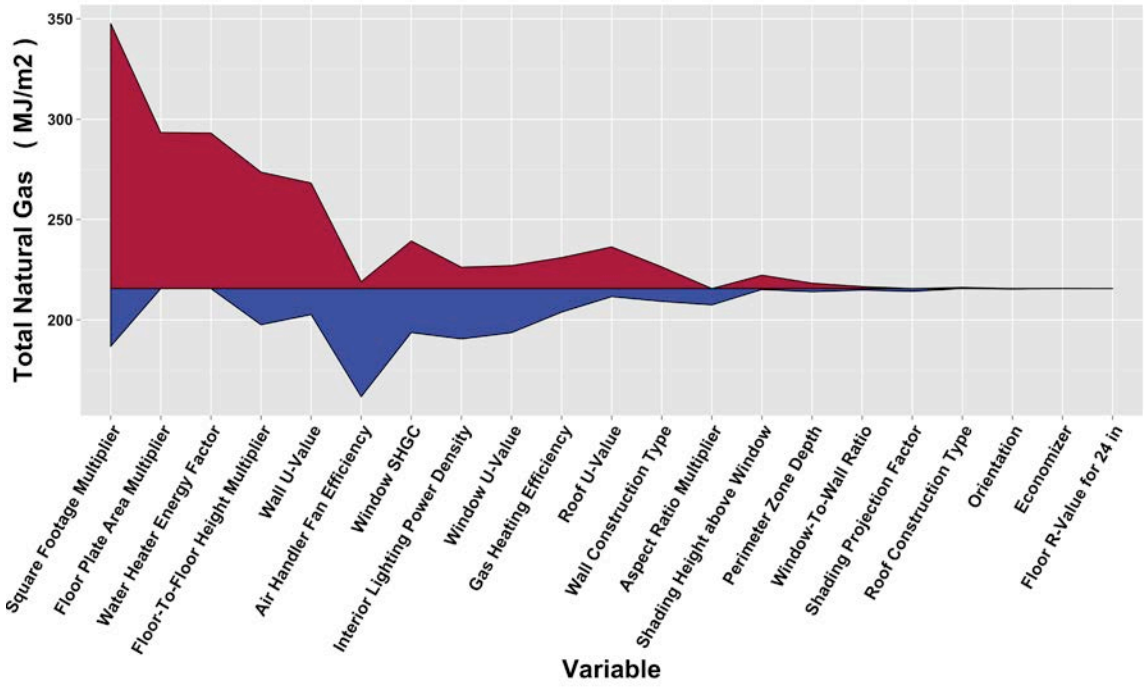
Shading Height above Window	0	2	1309.47	1335.77
District Chiller Cooling Efficiency	0.52	1.48	1331.76	1331.76
Air Handler Fan Efficiency	22.66	81.56	1302.19	1939.02
Packaged DX Cooling Efficiency	2.18	4.26	1263.01	1466.38
Gas Heating Efficiency	0.87	1.13	1319.01	1348.47
Terminal DX Cooling Efficiency	0.68	1.32	1331.76	1331.76
Terminal Furnace Heating Efficiency	0.87	1.13	1331.76	1331.76
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1331.76	1331.76
Water Heater Energy Factor	1	99	1331.76	1415.75
Economizer	false	true	1294.85	1331.76
Fan Control	cav	false	1331.76	1331.76
Orientation	0	359	1331.60	1331.76



Total Electricity



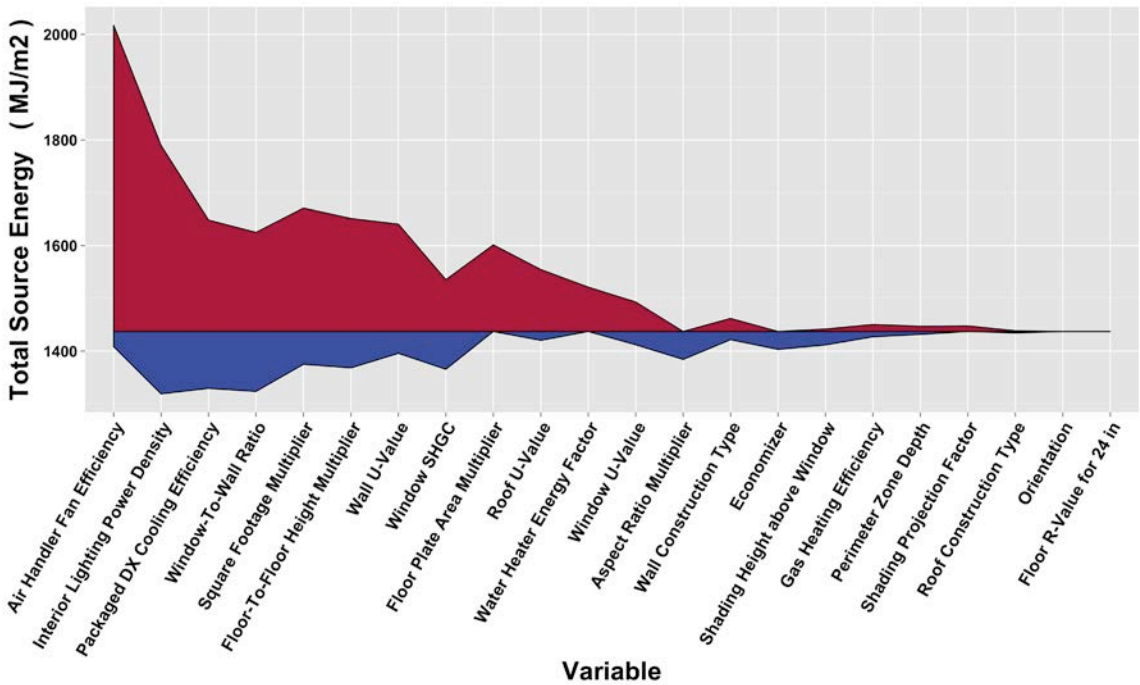
Total Natural Gas



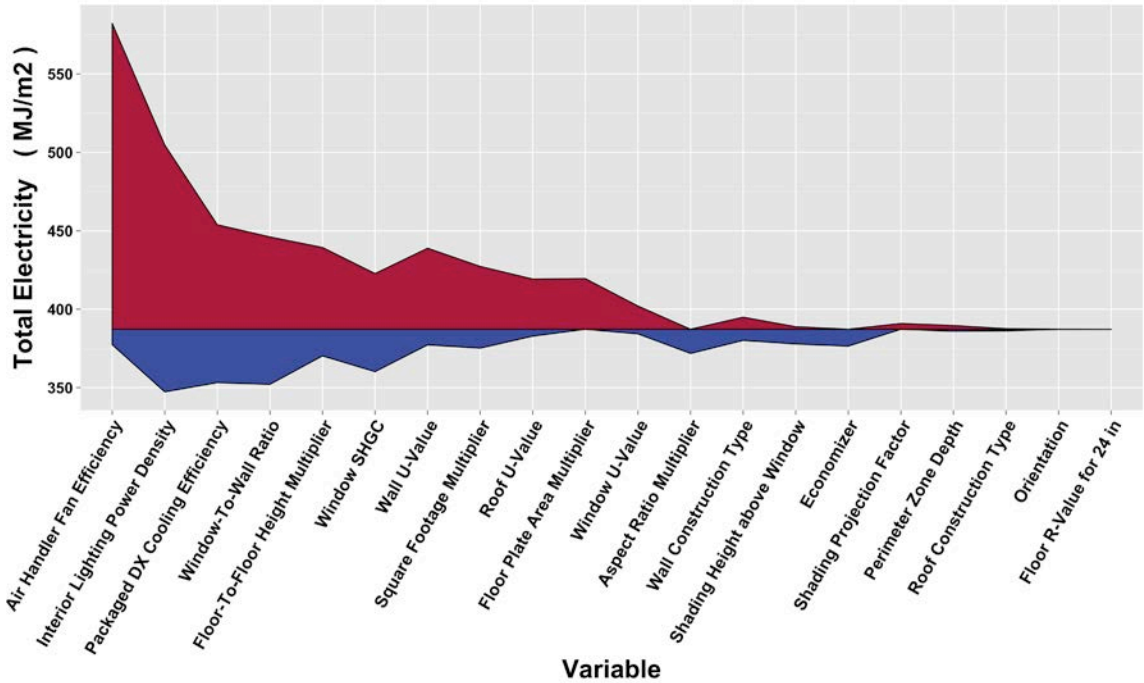
Location: Climate Zone 7

Total Source Energy

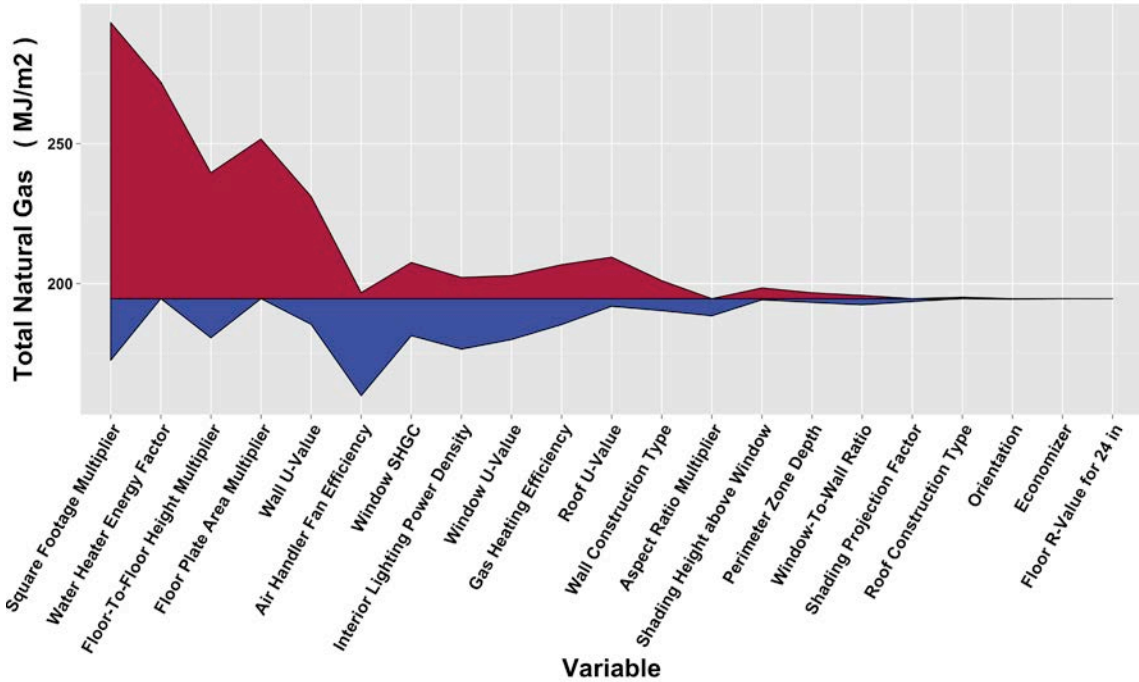
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1384.35	1437.31
Floor Plate Area Multiplier	4218	33744	1437.31	1601.36
Square Footage Multiplier	10123.2	101232	1375.27	1671.10
Floor-To-Floor Height Multiplier	8	16	1368.35	1651.21
Perimeter Zone Depth	10	20	1431.83	1447.10
Floor R-Value for 24 in	0	0	1437.31	1437.31
Window-To-Wall Ratio	0	0.36	1323.71	1624.93
Window Sill Height	1	6	1437.31	1437.31
Window U-Value	0.12	1.22	1412.17	1493.17
Window SHGC	0.08	0.7	1365.71	1535.39
Window VLT	0.06	0.89	1437.31	1437.31
Wall Construction Type	masonry-on-masonry	wood-siding	1421.83	1462.02
Wall U-Value	0.03	0.58	1395.83	1640.56
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1434.69	1438.55
Roof U-Value	0.01	0.2	1420.51	1554.67
Daylighting Control Setpoint	0	0	1437.31	1437.31
Interior Lighting Power Density	0.11	1.08	1319.10	1789.57
Shading Projection Factor	0	1	1437.31	1447.81
Shading Height above Window	0	2	1411.84	1441.88
District Chiller Cooling Efficiency	0.52	1.48	1437.31	1437.31
Air Handler Fan Efficiency	22.66	81.56	1408.53	2017.20
Packaged DX Cooling Efficiency	2.18	4.26	1329.59	1648.27
Gas Heating Efficiency	0.87	1.13	1427.27	1450.48
Terminal DX Cooling Efficiency	0.68	1.32	1437.31	1437.31
Terminal Furnace Heating Efficiency	0.87	1.13	1437.31	1437.31
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1437.31	1437.31
Water Heater Energy Factor	1	99	1437.31	1521.30
Economizer	false	true	1403.35	1437.31
Fan Control	cav	false	1437.31	1437.31
Orientation	0	359	1437.17	1437.31



Total Electricity



Total Natural Gas

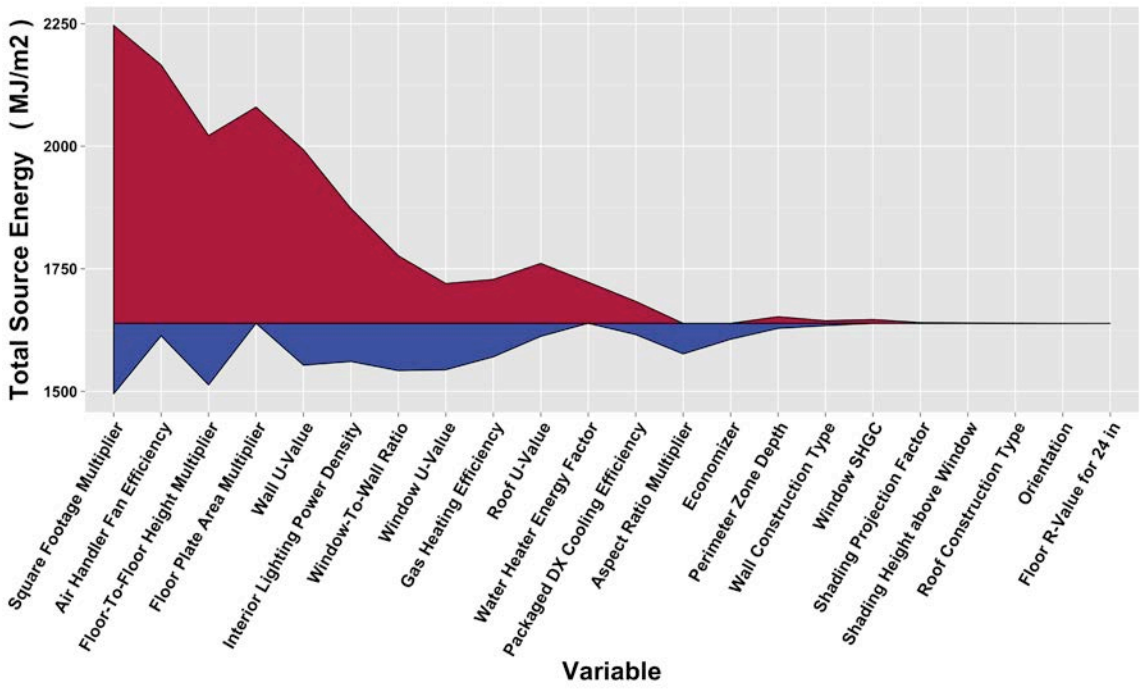


Location: Climate Zone 8

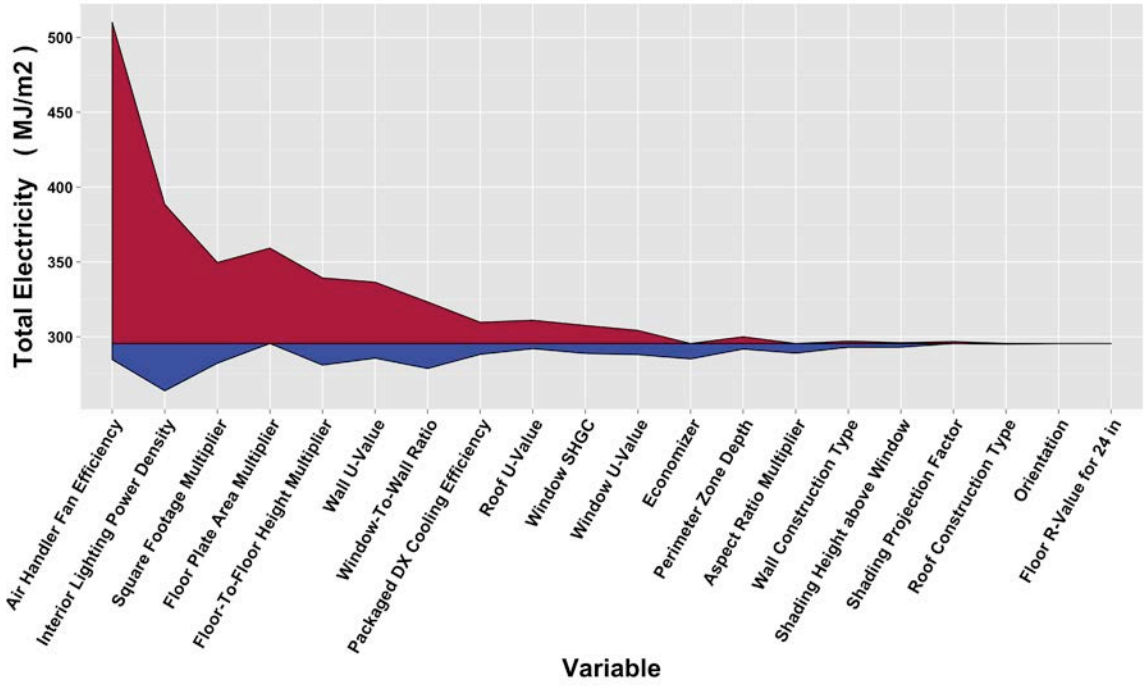
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.37	1.83	1576.31	1638.73
Floor Plate Area Multiplier	4218	33744	1638.73	2080.05
Square Footage Multiplier	10123.2	101232	1494.81	2246.59
Floor-To-Floor Height Multiplier	8	16	1513.07	2021.83
Perimeter Zone Depth	10	20	1628.38	1652.29
Floor R-Value for 24 in	0	0	1638.73	1638.73
Window-To-Wall Ratio	0	0.36	1542.17	1776.62
Window Sill Height	1	6	1638.73	1638.73
Window U-Value	0.12	1.22	1544.06	1719.86
Window SHGC	0.08	0.7	1638.73	1646.60
Window VLT	0.06	0.89	1638.73	1638.73
Wall Construction Type	masonry-on-masonry	wood-siding	1634.04	1644.02
Wall U-Value	0.03	0.58	1553.34	1992.91
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1638.39	1639.13
Roof U-Value	0.01	0.2	1612.17	1761.03
Daylighting Control Setpoint	0	0	1638.73	1638.73
Interior Lighting Power Density	0.11	1.08	1560.85	1873.11
Shading Projection Factor	0	1	1638.73	1640.31

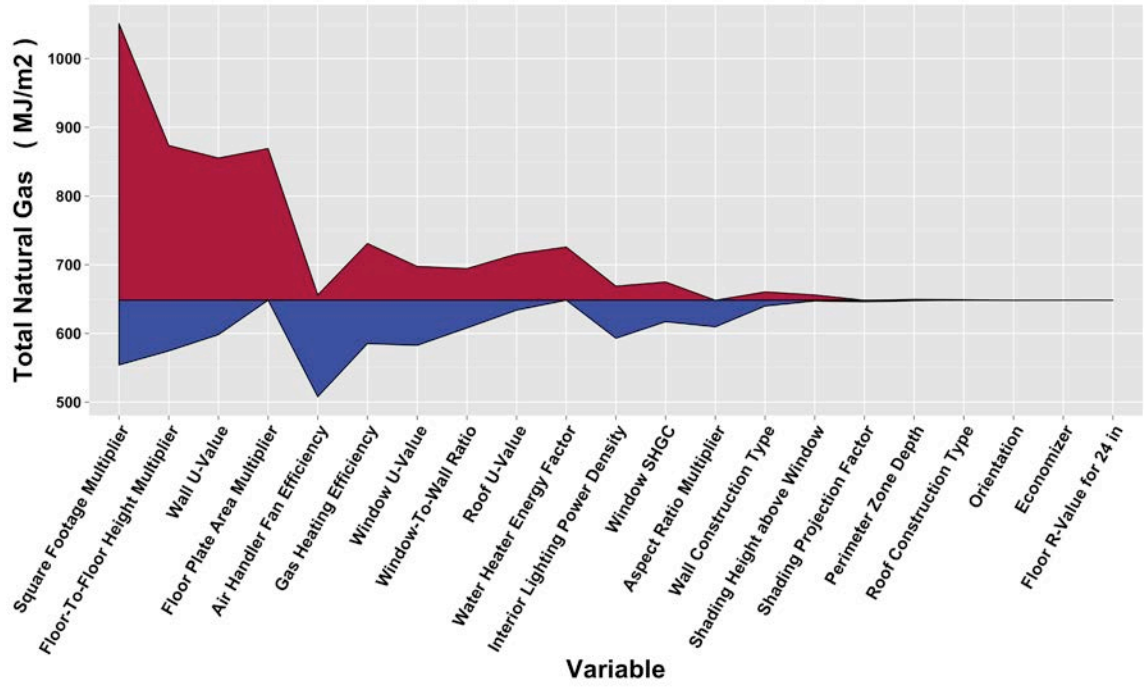
Shading Height above Window	0	2	1638.73	1639.52
District Chiller Cooling Efficiency	0.52	1.48	1638.73	1638.73
Air Handler Fan Efficiency	22.66	81.56	1613.24	2165.90
Packaged DX Cooling Efficiency	2.18	4.26	1615.80	1683.63
Gas Heating Efficiency	0.87	1.13	1570.38	1728.32
Terminal DX Cooling Efficiency	0.68	1.32	1638.73	1638.73
Terminal Furnace Heating Efficiency	0.87	1.13	1638.73	1638.73
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1638.73	1638.73
Water Heater Energy Factor	1	99	1638.73	1722.76
Economizer	false	true	1606.22	1638.73
Fan Control	cav	false	1638.73	1638.73
Orientation	0	359	1638.38	1638.73



Total Electricity



Total Natural Gas

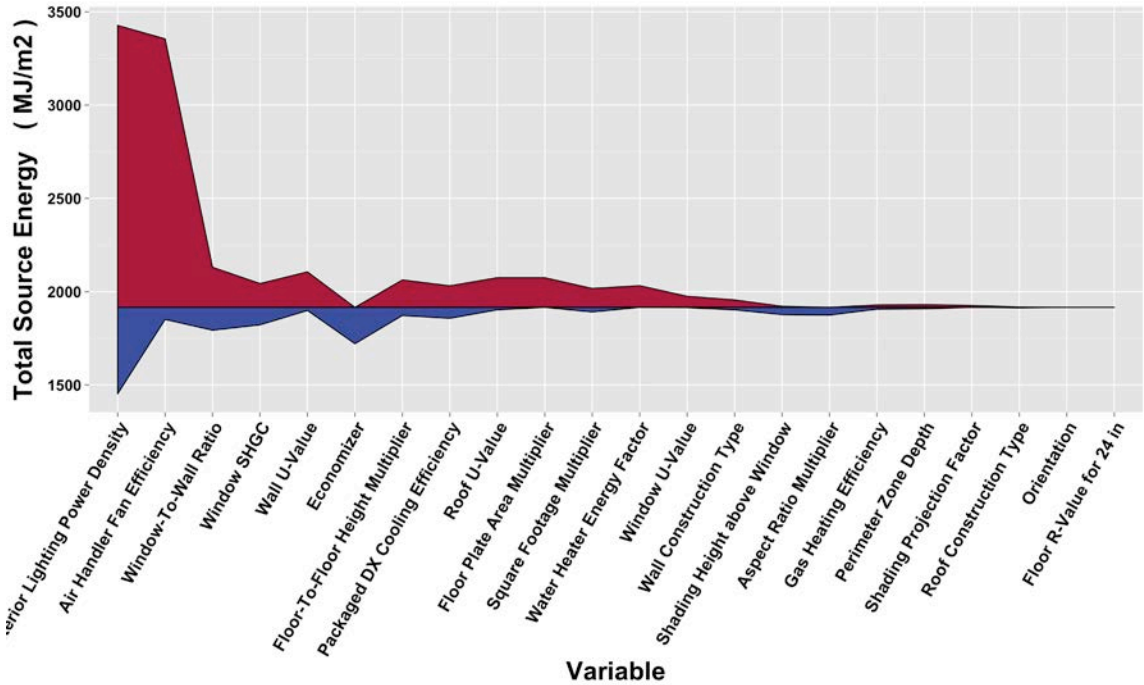


Assisted Living

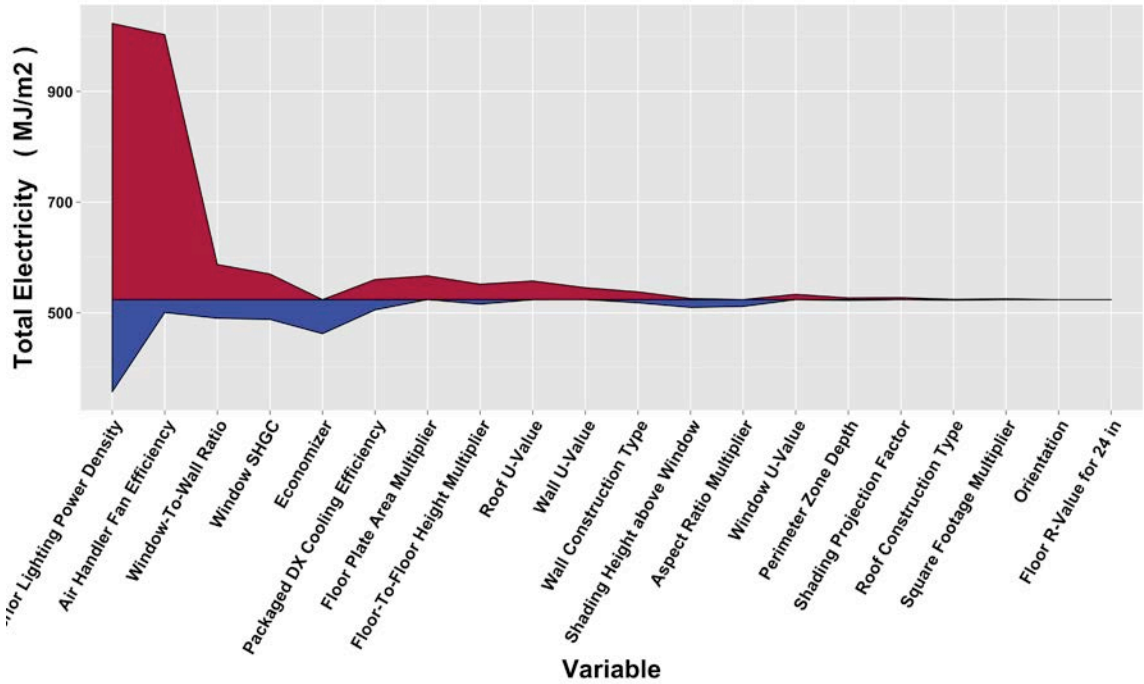
Location: Climate Zone 1A

Total Source Energy

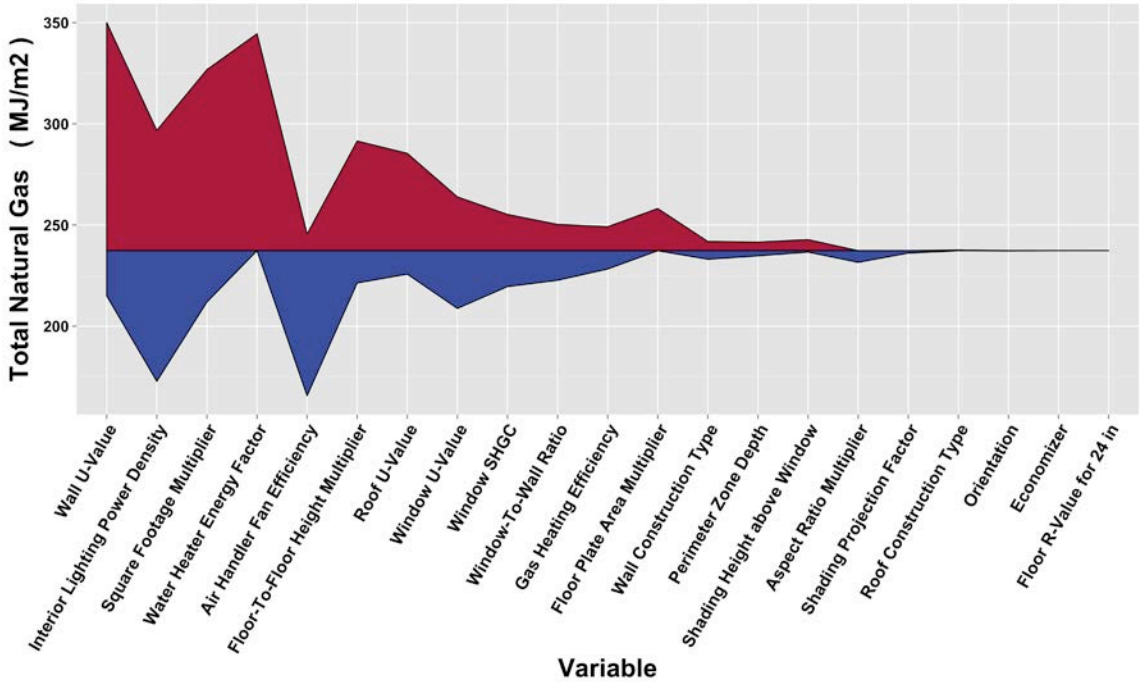
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	1874.29	1915.80
Floor Plate Area Multiplier	5525	33150	1915.80	2074.82
Square Footage Multiplier	9945	99450	1891.01	2017.19
Floor-To-Floor Height Multiplier	8	16	1872.25	2062.98
Perimeter Zone Depth	13.33	26.67	1907.84	1930.18
Floor R-Value for 24 in	0	0	1915.80	1915.80
Window-To-Wall Ratio	0	0.36	1793.20	2130.88
Window Sill Height	1	6	1915.80	1915.80
Window U-Value	0.12	1.22	1914.15	1975.20
Window SHGC	0.08	0.7	1821.93	2043.45
Window VLT	0.06	0.89	1915.80	1915.80
Wall Construction Type	masonry-on-masonry	wood-siding	1902.49	1955.74
Wall U-Value	0.03	0.58	1899.00	2106.13
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1912.87	1917.59
Roof U-Value	0.01	0.2	1902.62	2074.85
Daylighting Control Setpoint	0	0	1915.80	1915.80
Interior Lighting Power Density	0.31	3.14	1452.01	3427.54
Shading Projection Factor	0	1	1915.80	1926.05
Shading Height above Window	0	2	1876.94	1921.56
District Chiller Cooling Efficiency	0.52	1.48	1915.80	1915.80
Air Handler Fan Efficiency	17.5	63	1850.95	3355.40
Packaged DX Cooling Efficiency	2.23	4.37	1856.86	2031.22
Gas Heating Efficiency	0.87	1.13	1906.00	1928.65
Terminal DX Cooling Efficiency	0.68	1.32	1915.80	1915.80
Terminal Furnace Heating Efficiency	0.87	1.13	1915.80	1915.80
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1915.80	1915.80
Water Heater Energy Factor	1	99	1915.80	2032.03
Economizer	false	true	1720.64	1915.80
Fan Control	cav	false	1915.80	1915.80
Orientation	0	359	1915.61	1915.80



Total Electricity



Total Natural Gas

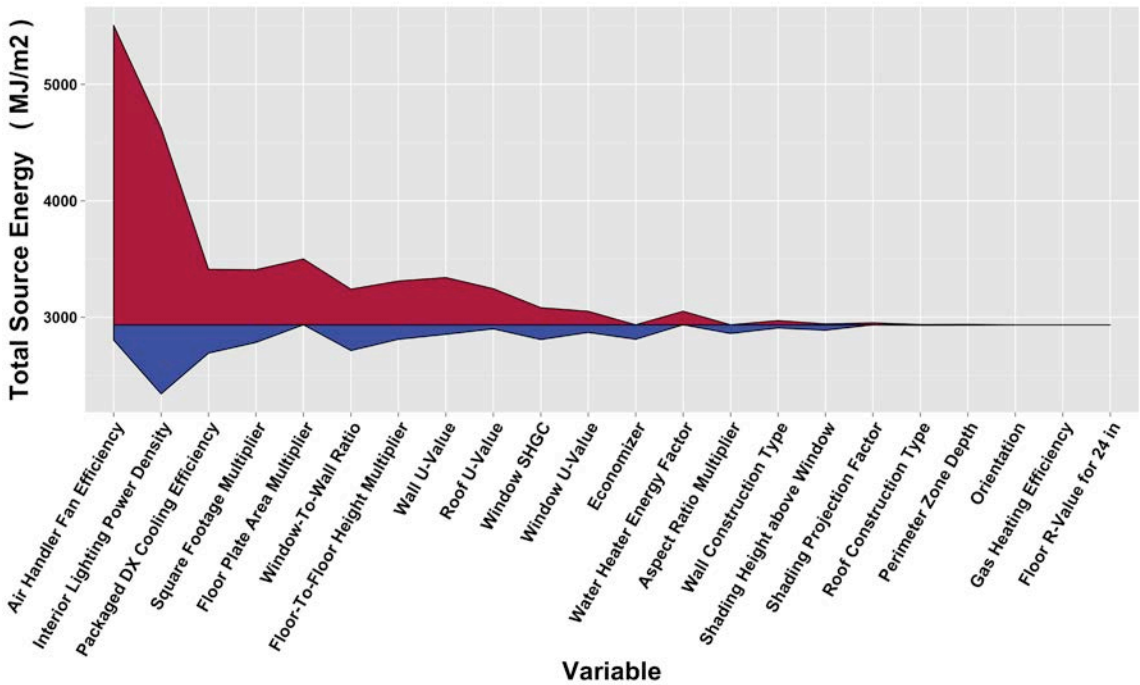


Location: Climate Zone 1B

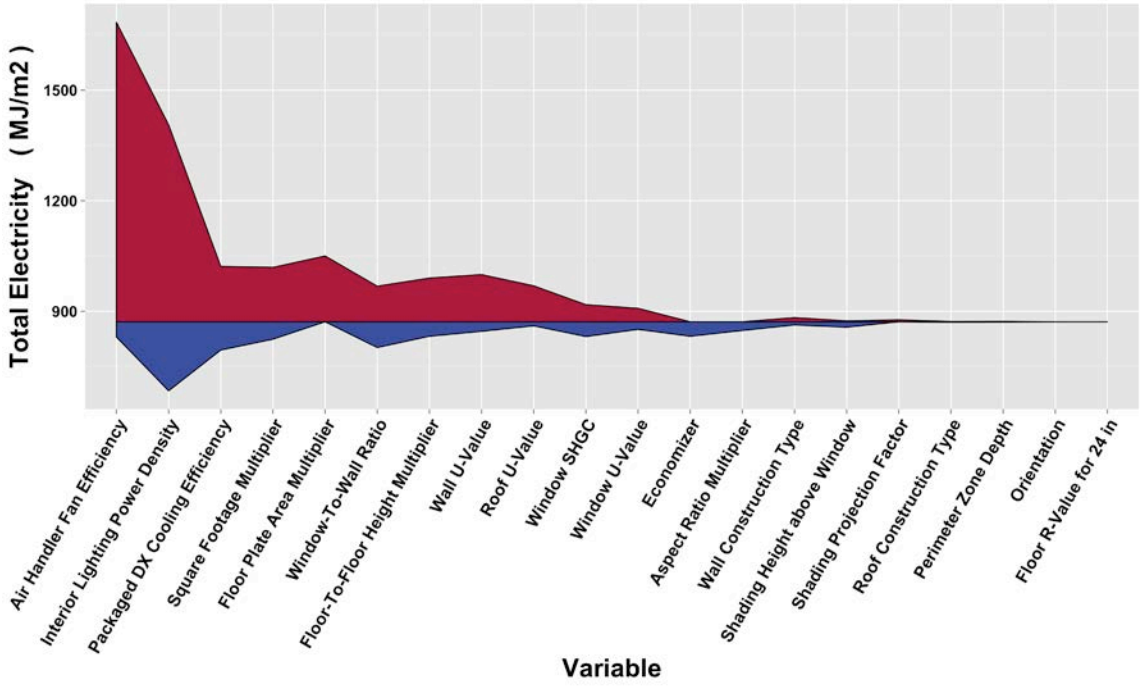
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2859.86	2934.79
Floor Plate Area Multiplier	5525	33150	2934.79	3500.53
Square Footage Multiplier	9945	99450	2783.42	3408.46
Floor-To-Floor Height Multiplier	8	16	2810.28	3310.71
Perimeter Zone Depth	13.33	26.67	2932.87	2938.26
Floor R-Value for 24 in	0	0	2934.79	2934.79
Window-To-Wall Ratio	0	0.36	2713.32	3241.04
Window Sill Height	1	6	2934.79	2934.79
Window U-Value	0.12	1.22	2869.46	3050.62
Window SHGC	0.08	0.7	2807.91	3081.93
Window VLT	0.06	0.89	2934.79	2934.79
Wall Construction Type	masonry-on-masonry	wood-siding	2907.42	2970.80
Wall U-Value	0.03	0.58	2852.88	3340.82
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2931.05	2937.08
Roof U-Value	0.01	0.2	2899.93	3245.00
Daylighting Control Setpoint	0	0	2934.79	2934.79
Interior Lighting Power Density	0.31	3.14	2341.43	4627.23
Shading Projection Factor	0	1	2934.79	2951.55

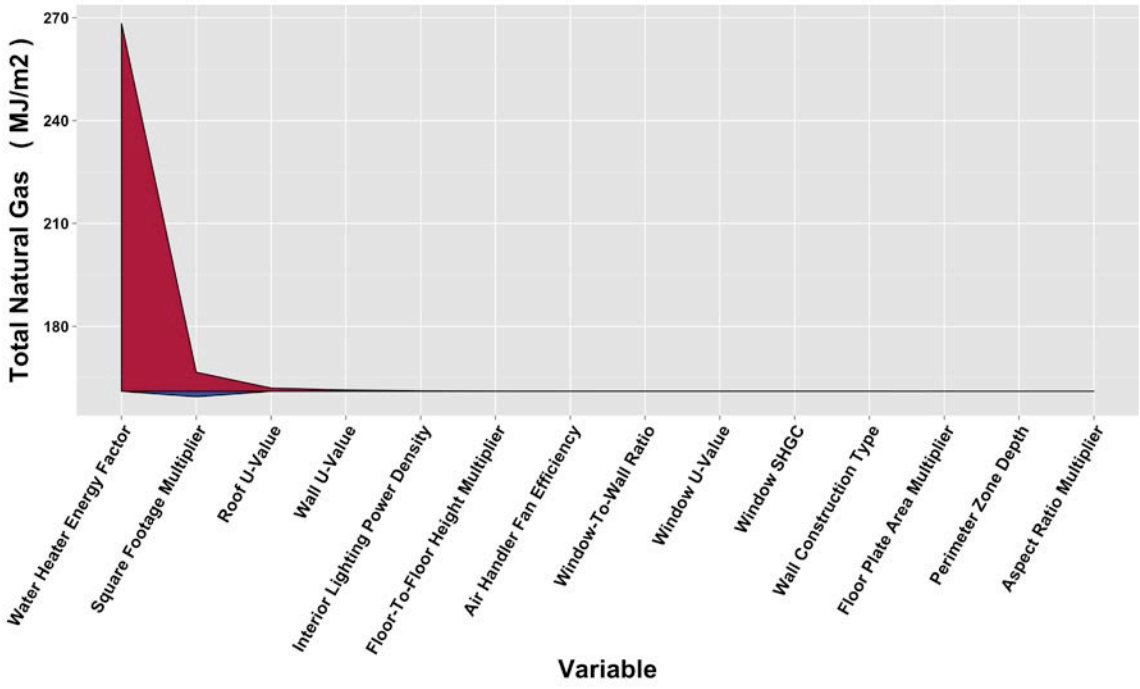
Shading Height above Window	0	2	2888.32	2942.54
District Chiller Cooling Efficiency	0.52	1.48	2934.79	2934.79
Air Handler Fan Efficiency	17.5	63	2803.33	5507.45
Packaged DX Cooling Efficiency	2.23	4.37	2691.48	3411.26
Gas Heating Efficiency	0.87	1.13	2934.78	2934.79
Terminal DX Cooling Efficiency	0.68	1.32	2934.79	2934.79
Terminal Furnace Heating Efficiency	0.87	1.13	2934.79	2934.79
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2934.79	2934.79
Water Heater Energy Factor	1	99	2934.79	3051.02
Economizer	false	true	2810.36	2934.79
Fan Control	cav	false	2934.79	2934.79
Orientation	0	359	2934.64	2934.79



Total Electricity



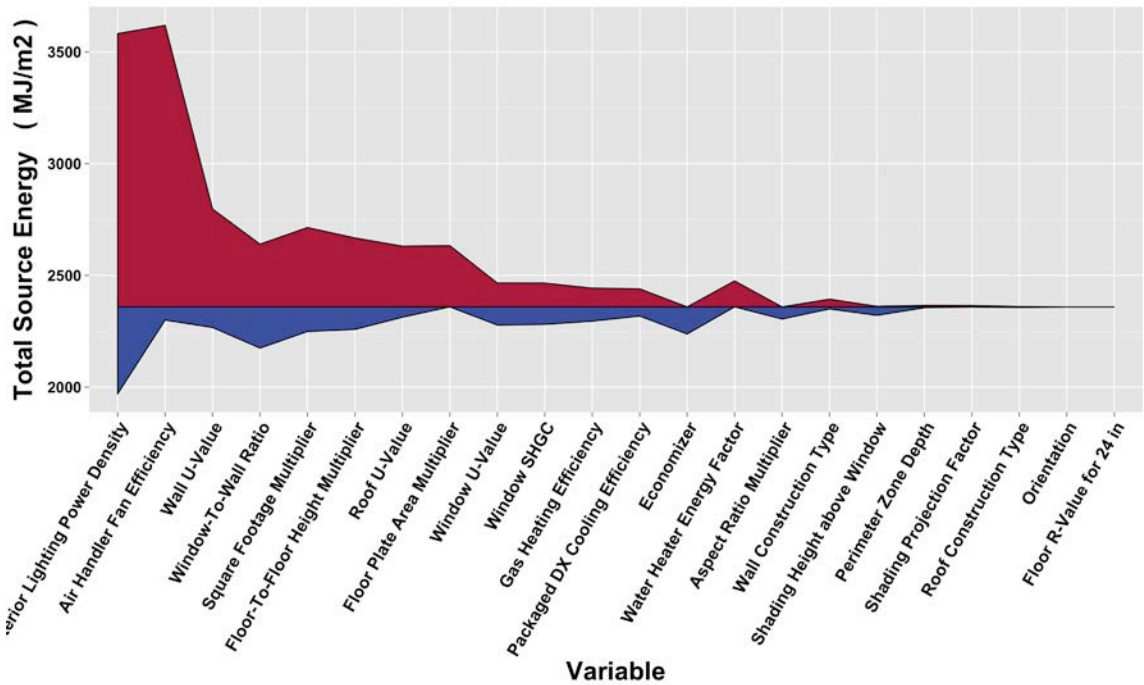
Total Natural Gas



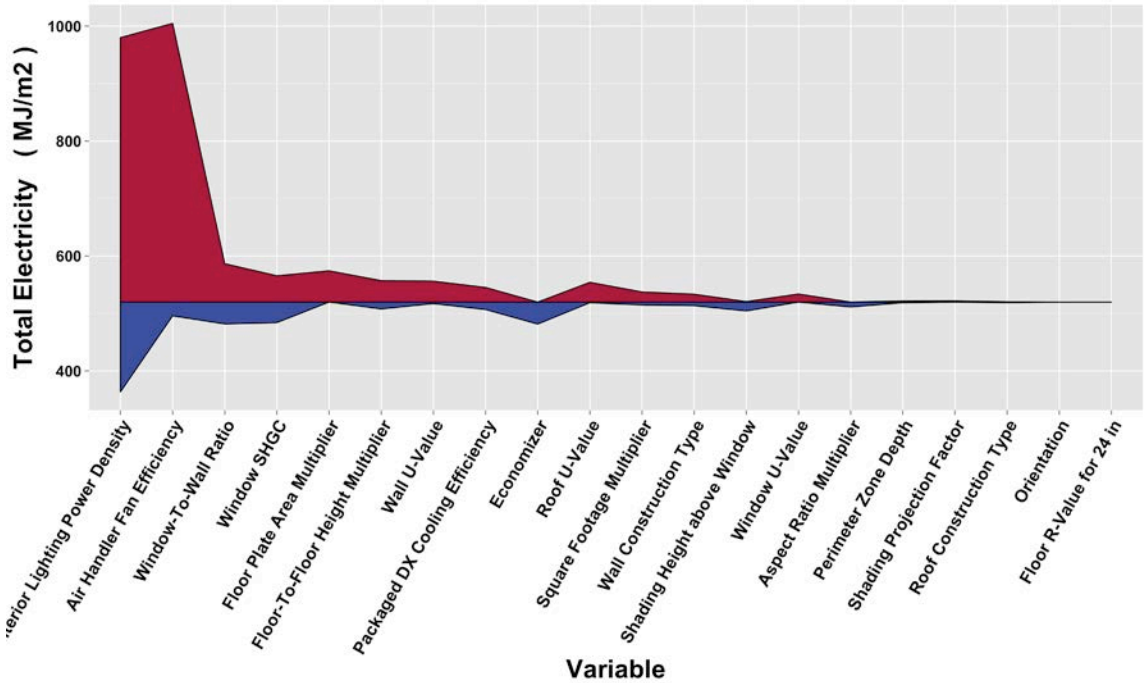
Location: Climate Zone 2A

Total Source Energy

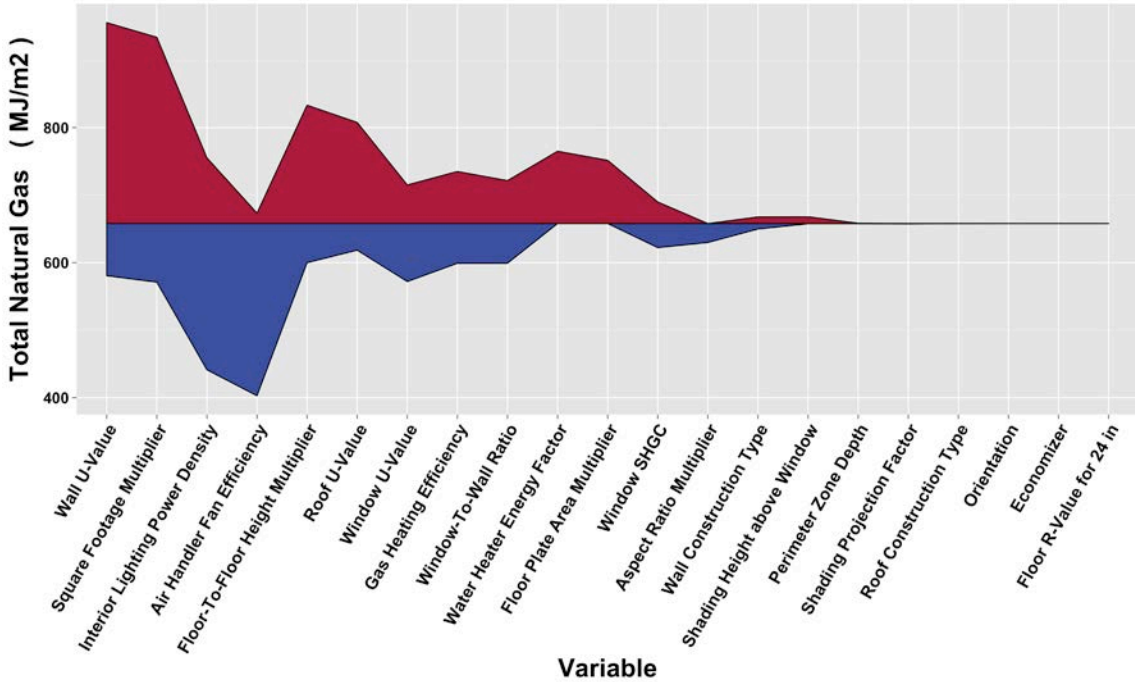
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2304.99	2359.37
Floor Plate Area Multiplier	5525	33150	2359.37	2633.36
Square Footage Multiplier	9945	99450	2249.20	2714.38
Floor-To-Floor Height Multiplier	8	16	2258.52	2667.94
Perimeter Zone Depth	13.33	26.67	2355.47	2366.30
Floor R-Value for 24 in	0	0	2359.37	2359.37
Window-To-Wall Ratio	0	0.36	2174.88	2640.15
Window Sill Height	1	6	2359.37	2359.37
Window U-Value	0.12	1.22	2278.01	2466.04
Window SHGC	0.08	0.7	2280.99	2465.76
Window VLT	0.06	0.89	2359.37	2359.37
Wall Construction Type	masonry-on-masonry	wood-siding	2350.02	2393.94
Wall U-Value	0.03	0.58	2267.10	2797.28
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2356.56	2360.71
Roof U-Value	0.01	0.2	2313.01	2631.00
Daylighting Control Setpoint	0	0	2359.37	2359.37
Interior Lighting Power Density	0.31	3.14	1970.22	3581.94
Shading Projection Factor	0	1	2359.37	2365.64
Shading Height above Window	0	2	2321.40	2361.81
District Chiller Cooling Efficiency	0.52	1.48	2359.37	2359.37
Air Handler Fan Efficiency	17.5	63	2300.17	3618.70
Packaged DX Cooling Efficiency	2.23	4.37	2318.14	2440.11
Gas Heating Efficiency	0.87	1.13	2295.52	2443.07
Terminal DX Cooling Efficiency	0.68	1.32	2359.37	2359.37
Terminal Furnace Heating Efficiency	0.87	1.13	2359.37	2359.37
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2359.37	2359.37
Water Heater Energy Factor	1	99	2359.37	2475.61
Economizer	false	true	2237.90	2359.37
Fan Control	cav	false	2359.37	2359.37
Orientation	0	359	2359.31	2359.38



Total Electricity



Total Natural Gas

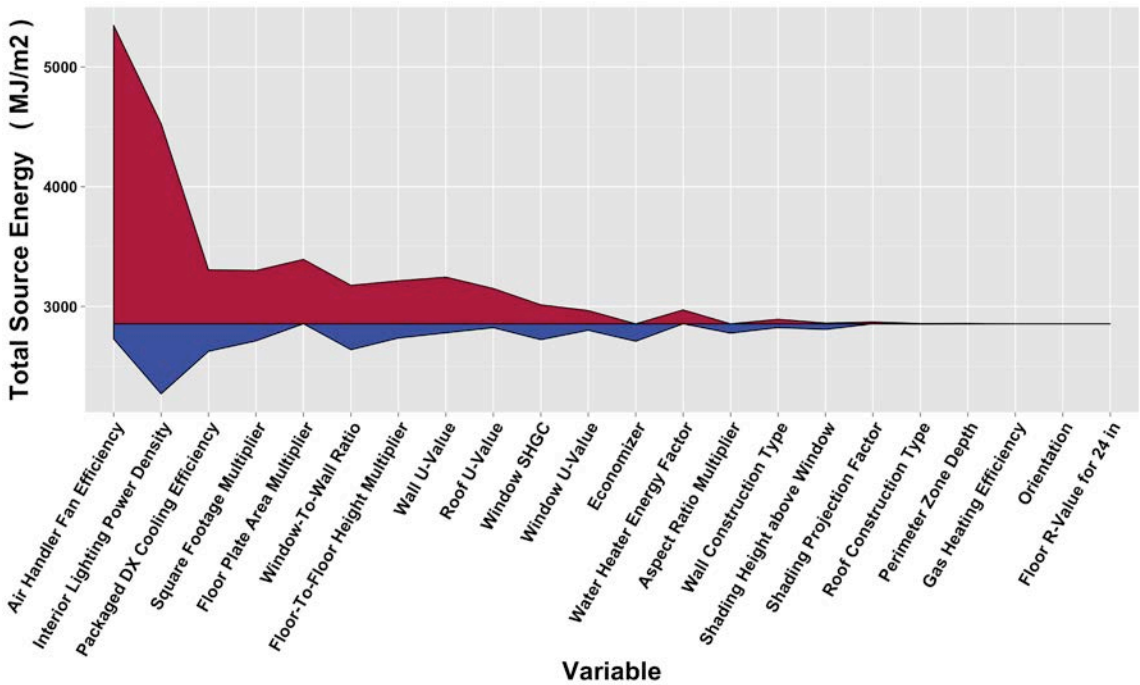


Location: Climate Zone 2B

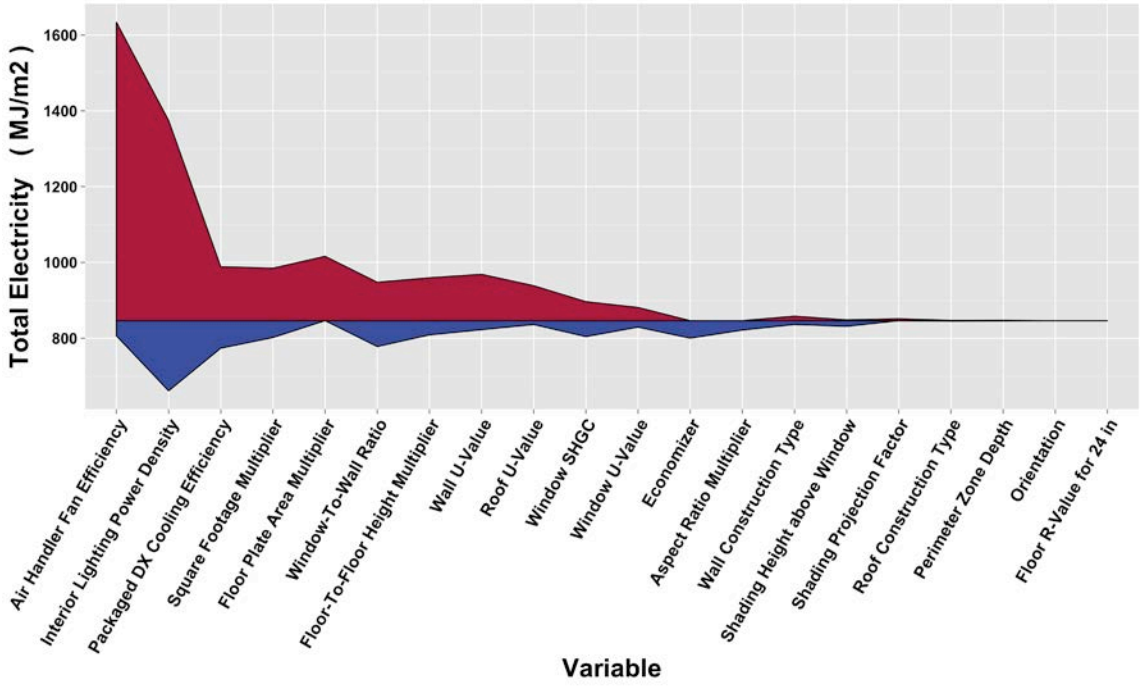
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2776.92	2855.36
Floor Plate Area Multiplier	5525	33150	2855.36	3393.48
Square Footage Multiplier	9945	99450	2712.59	3300.51
Floor-To-Floor Height Multiplier	8	16	2736.37	3214.22
Perimeter Zone Depth	13.33	26.67	2853.54	2858.66
Floor R-Value for 24 in	0	0	2855.36	2855.36
Window-To-Wall Ratio	0	0.36	2638.83	3176.63
Window Sill Height	1	6	2855.36	2855.36
Window U-Value	0.12	1.22	2801.15	2966.01
Window SHGC	0.08	0.7	2722.58	3014.10
Window VLT	0.06	0.89	2855.36	2855.36
Wall Construction Type	masonry-on-masonry	wood-siding	2823.78	2893.28
Wall U-Value	0.03	0.58	2779.98	3245.35
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2851.60	2857.59
Roof U-Value	0.01	0.2	2822.86	3150.15
Daylighting Control Setpoint	0	0	2855.36	2855.36
Interior Lighting Power Density	0.31	3.14	2270.20	4527.65
Shading Projection Factor	0	1	2855.36	2871.39

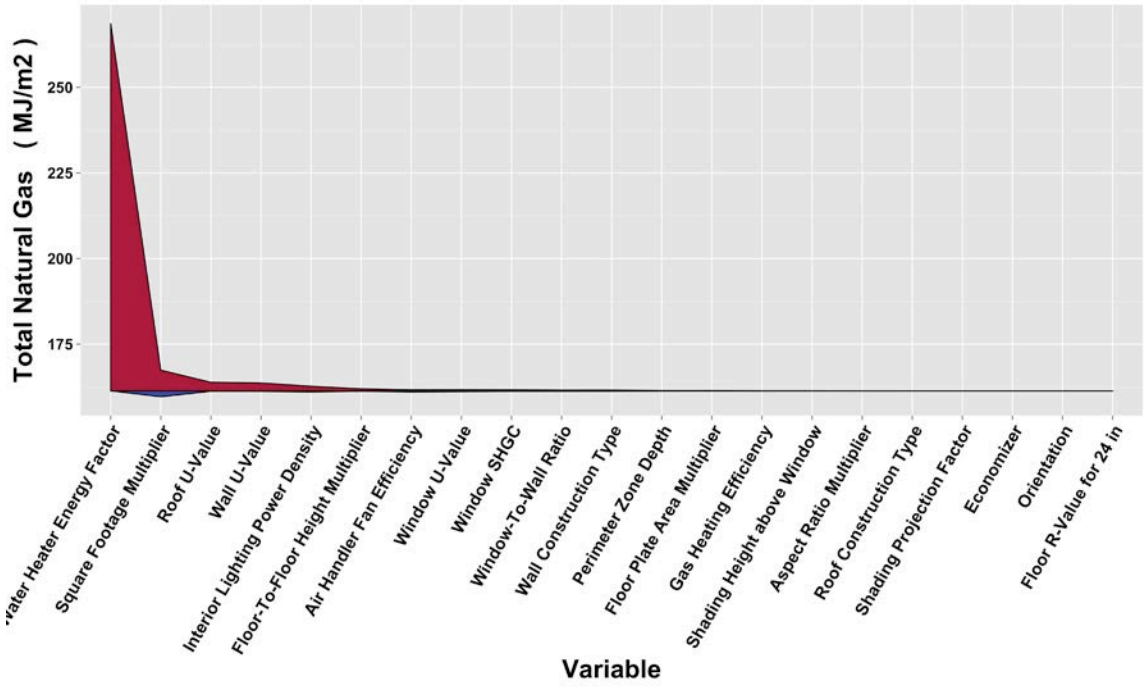
Shading Height above Window	0	2	2808.26	2861.59
District Chiller Cooling Efficiency	0.52	1.48	2855.36	2855.36
Air Handler Fan Efficiency	17.5	63	2728.40	5347.61
Packaged DX Cooling Efficiency	2.23	4.37	2625.44	3305.62
Gas Heating Efficiency	0.87	1.13	2855.32	2855.41
Terminal DX Cooling Efficiency	0.68	1.32	2855.36	2855.36
Terminal Furnace Heating Efficiency	0.87	1.13	2855.36	2855.36
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2855.36	2855.36
Water Heater Energy Factor	1	99	2855.36	2971.59
Economizer	false	true	2709.00	2855.36
Fan Control	cav	false	2855.36	2855.36
Orientation	0	359	2855.30	2855.36



Total Electricity



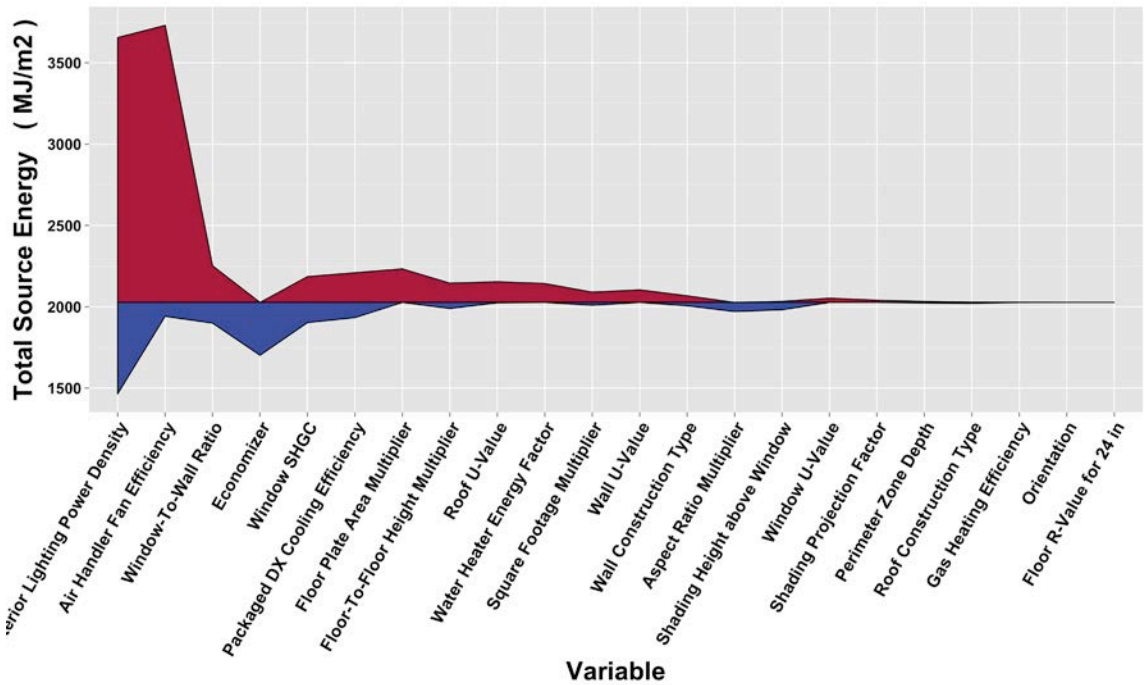
Total Natural Gas



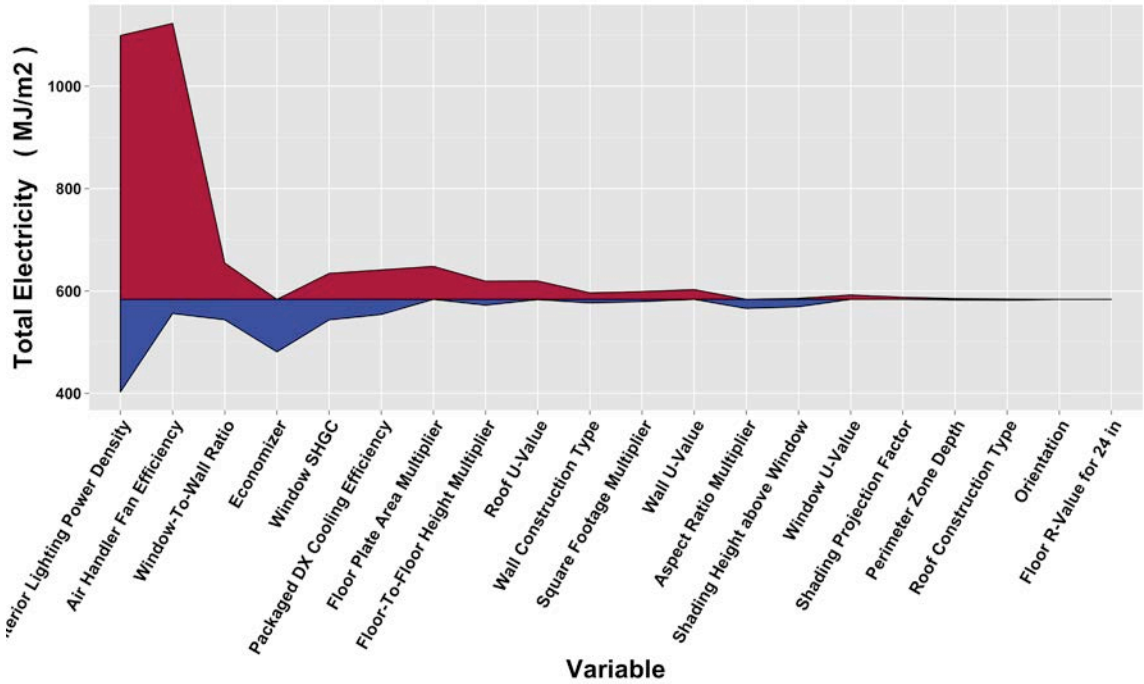
Location: Climate Zone 3A

Total Source Energy

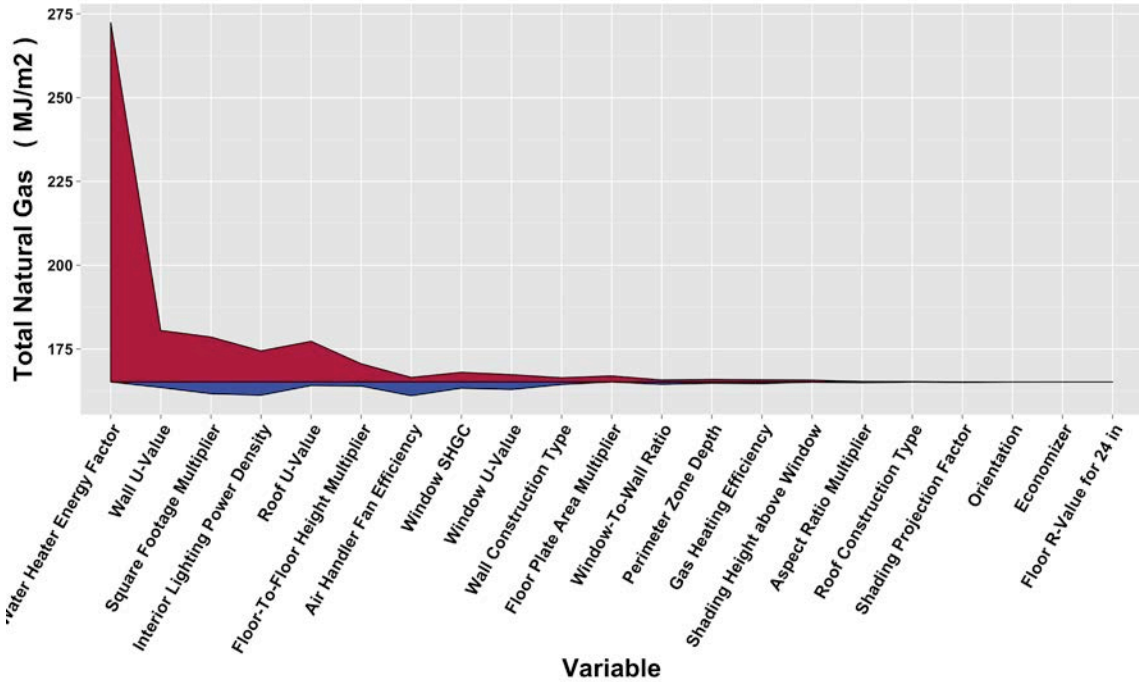
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	1970.70	2026.78
Floor Plate Area Multiplier	5525	33150	2026.78	2233.26
Square Footage Multiplier	9945	99450	2009.24	2089.97
Floor-To-Floor Height Multiplier	8	16	1989.49	2145.28
Perimeter Zone Depth	13.33	26.67	2023.35	2032.85
Floor R-Value for 24 in	0	0	2026.78	2026.78
Window-To-Wall Ratio	0	0.36	1899.63	2252.56
Window Sill Height	1	6	2026.78	2026.78
Window U-Value	0.12	1.22	2026.78	2052.87
Window SHGC	0.08	0.7	1902.80	2185.65
Window VLT	0.06	0.89	2026.78	2026.78
Wall Construction Type	masonry-on-masonry	wood-siding	2006.09	2067.64
Wall U-Value	0.03	0.58	2026.78	2104.30
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2021.82	2028.77
Roof U-Value	0.01	0.2	2024.18	2154.03
Daylighting Control Setpoint	0	0	2026.78	2026.78
Interior Lighting Power Density	0.31	3.14	1464.64	3655.54
Shading Projection Factor	0	1	2026.78	2040.20
Shading Height above Window	0	2	1981.75	2033.27
District Chiller Cooling Efficiency	0.52	1.48	2026.78	2026.78
Air Handler Fan Efficiency	17.5	63	1941.25	3730.36
Packaged DX Cooling Efficiency	2.23	4.37	1933.49	2209.47
Gas Heating Efficiency	0.87	1.13	2026.25	2027.48
Terminal DX Cooling Efficiency	0.68	1.32	2026.78	2026.78
Terminal Furnace Heating Efficiency	0.87	1.13	2026.78	2026.78
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2026.78	2026.78
Water Heater Energy Factor	1	99	2026.78	2143.02
Economizer	false	true	1701.73	2026.78
Fan Control	cav	false	2026.78	2026.78
Orientation	0	359	2026.74	2026.87



Total Electricity



Total Natural Gas

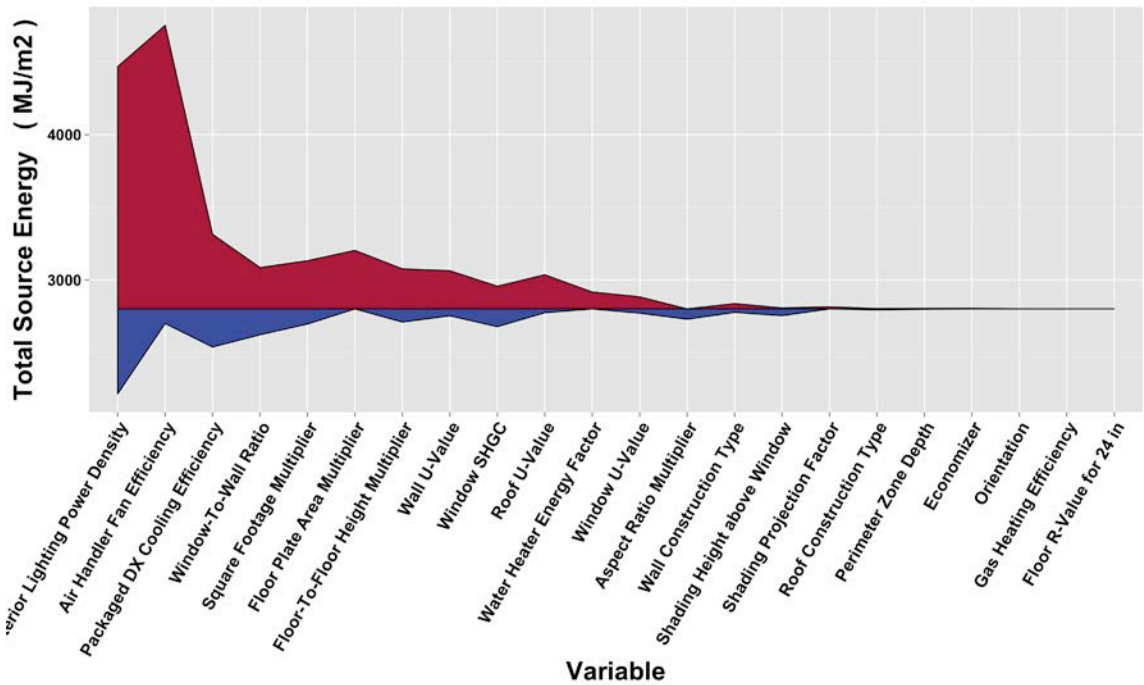


Location: Climate Zone 3B

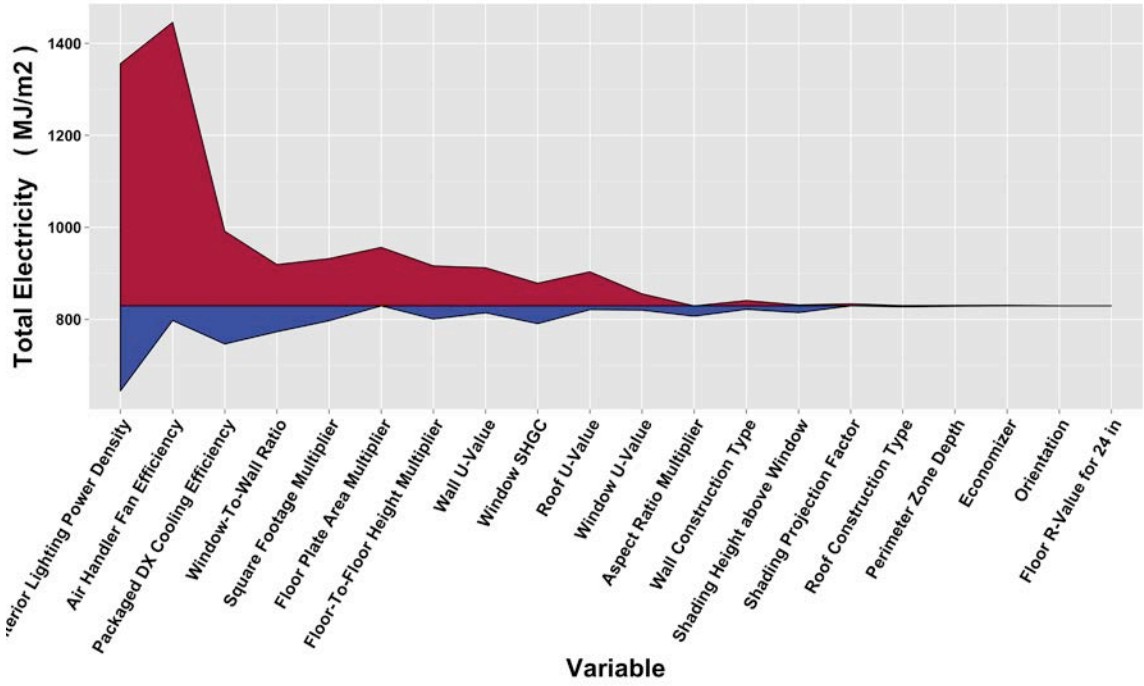
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2729.41	2800.58
Floor Plate Area Multiplier	5525	33150	2800.58	3203.57
Square Footage Multiplier	9945	99450	2696.40	3132.18
Floor-To-Floor Height Multiplier	8	16	2709.66	3076.08
Perimeter Zone Depth	13.33	26.67	2798.57	2803.88
Floor R-Value for 24 in	0	0	2800.58	2800.58
Window-To-Wall Ratio	0	0.36	2622.61	3085.21
Window Sill Height	1	6	2800.58	2800.58
Window U-Value	0.12	1.22	2771.09	2883.61
Window SHGC	0.08	0.7	2678.20	2956.57
Window VLT	0.06	0.89	2800.58	2800.58
Wall Construction Type	masonry-on-masonry	wood-siding	2776.68	2837.22
Wall U-Value	0.03	0.58	2753.05	3063.41
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2794.94	2802.40
Roof U-Value	0.01	0.2	2774.20	3035.73
Daylighting Control Setpoint	0	0	2800.58	2800.58
Interior Lighting Power Density	0.31	3.14	2215.53	4468.84
Shading Projection Factor	0	1	2800.58	2815.06

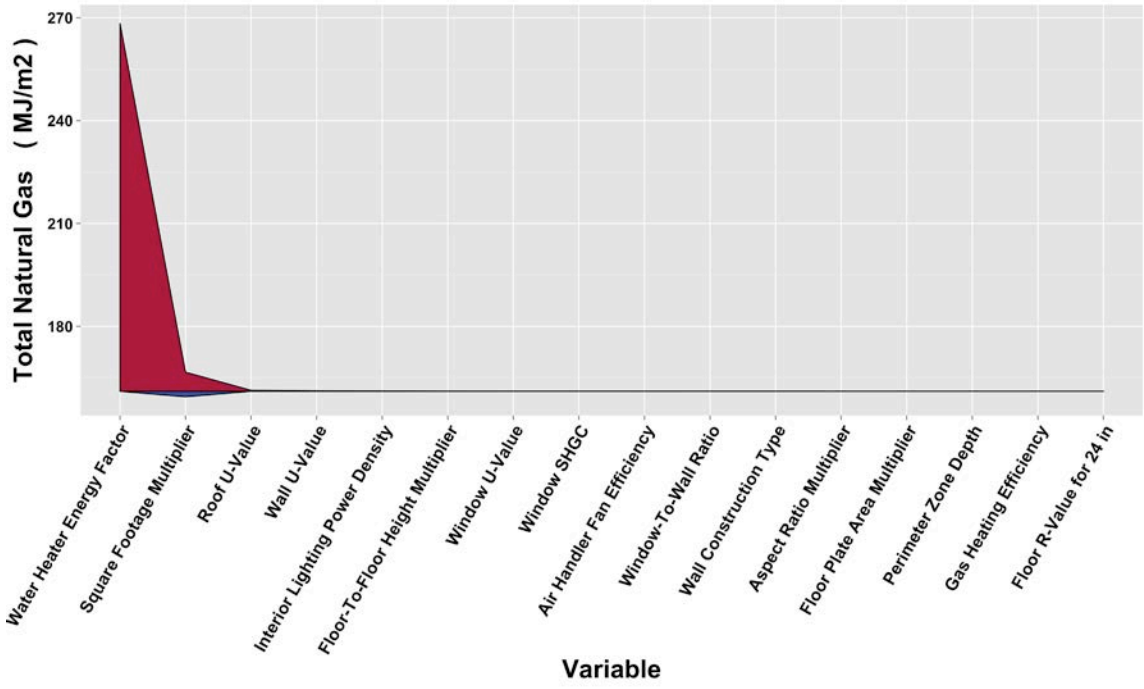
Shading Height above Window	0	2	2754.17	2807.14
District Chiller Cooling Efficiency	0.52	1.48	2800.58	2800.58
Air Handler Fan Efficiency	17.5	63	2699.83	4752.86
Packaged DX Cooling Efficiency	2.23	4.37	2538.13	3314.53
Gas Heating Efficiency	0.87	1.13	2800.57	2800.58
Terminal DX Cooling Efficiency	0.68	1.32	2800.58	2800.58
Terminal Furnace Heating Efficiency	0.87	1.13	2800.58	2800.58
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2800.58	2800.58
Water Heater Energy Factor	1	99	2800.58	2916.81
Economizer	false	true	2800.58	2804.82
Fan Control	cav	false	2800.58	2800.58
Orientation	0	359	2800.34	2800.58



Total Electricity



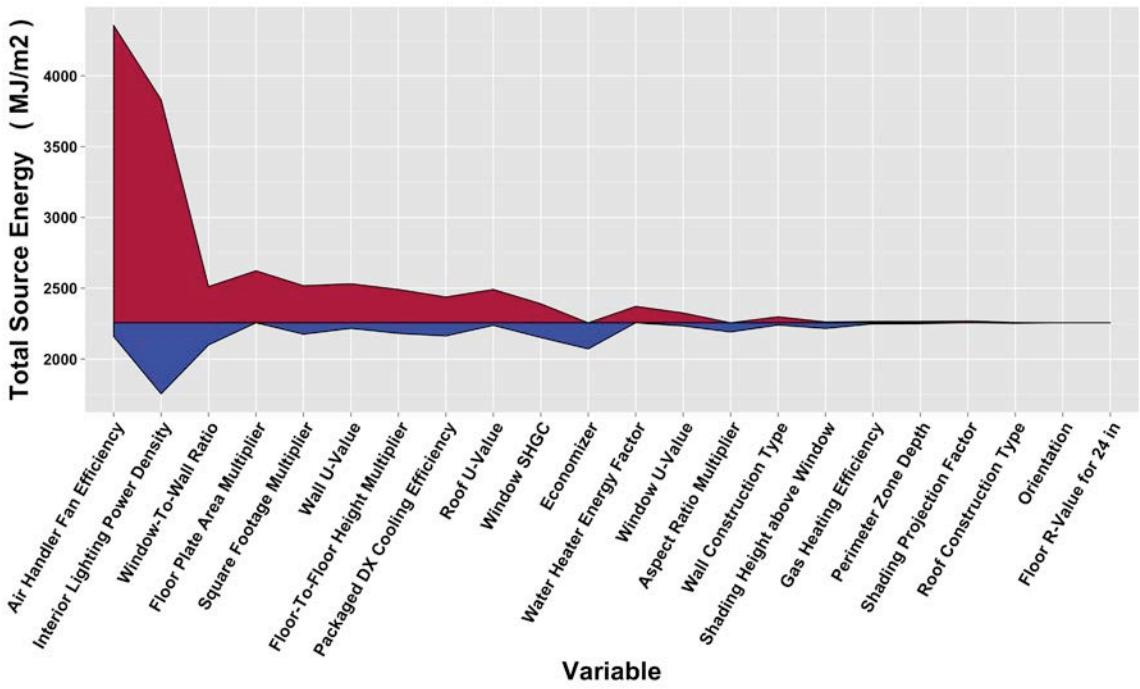
Total Natural Gas



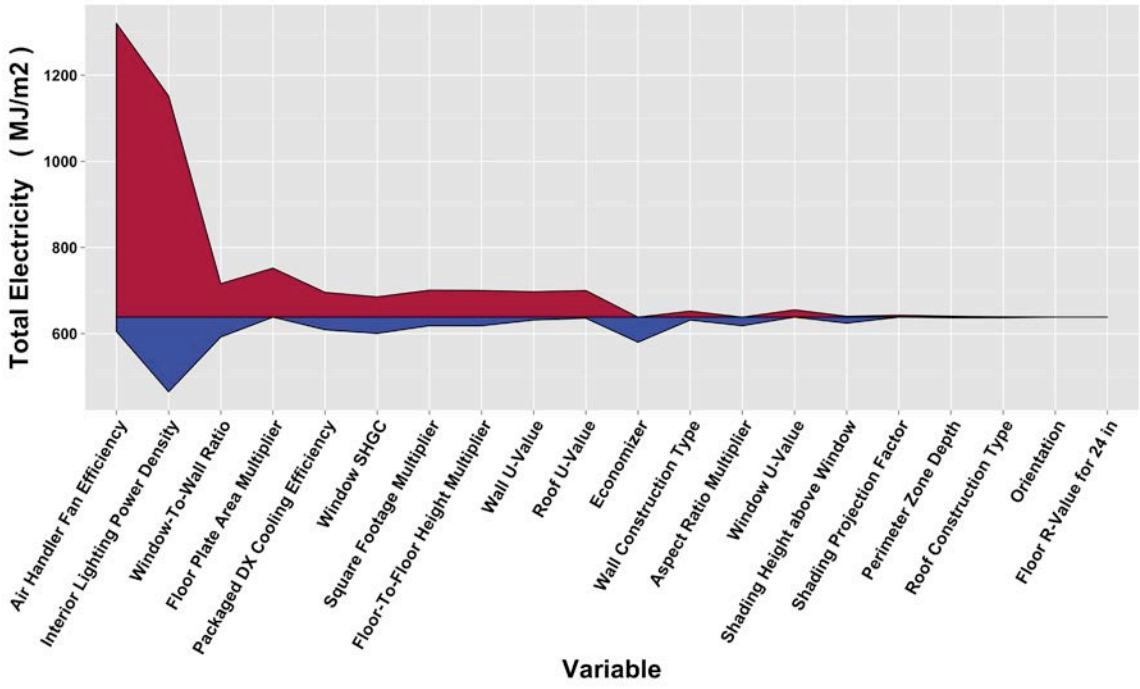
Location: Climate Zone 3C

Total Source Energy

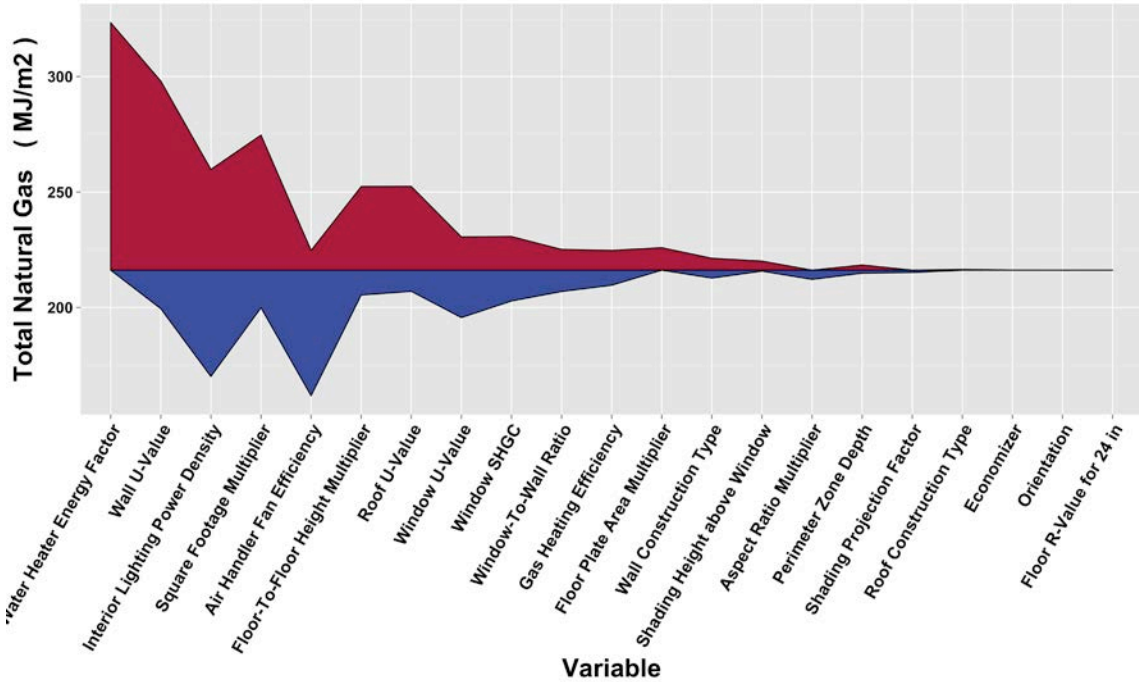
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2191.13	2255.97
Floor Plate Area Multiplier	5525	33150	2255.97	2623.60
Square Footage Multiplier	9945	99450	2175.41	2517.64
Floor-To-Floor Height Multiplier	8	16	2181.08	2491.35
Perimeter Zone Depth	13.33	26.67	2250.37	2265.35
Floor R-Value for 24 in	0	0	2255.97	2255.97
Window-To-Wall Ratio	0	0.36	2099.89	2511.96
Window Sill Height	1	6	2255.97	2255.97
Window U-Value	0.12	1.22	2233.70	2325.65
Window SHGC	0.08	0.7	2152.09	2390.66
Window VLT	0.06	0.89	2255.97	2255.97
Wall Construction Type	masonry-on-masonry	wood-siding	2240.27	2298.44
Wall U-Value	0.03	0.58	2216.66	2531.66
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2252.42	2258.30
Roof U-Value	0.01	0.2	2237.84	2491.42
Daylighting Control Setpoint	0	0	2255.97	2255.97
Interior Lighting Power Density	0.31	3.14	1754.27	3831.76
Shading Projection Factor	0	1	2255.97	2269.12
Shading Height above Window	0	2	2215.86	2261.98
District Chiller Cooling Efficiency	0.52	1.48	2255.97	2255.97
Air Handler Fan Efficiency	17.5	63	2159.74	4356.04
Packaged DX Cooling Efficiency	2.23	4.37	2162.96	2438.12
Gas Heating Efficiency	0.87	1.13	2248.89	2265.25
Terminal DX Cooling Efficiency	0.68	1.32	2255.97	2255.97
Terminal Furnace Heating Efficiency	0.87	1.13	2255.97	2255.97
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2255.97	2255.97
Water Heater Energy Factor	1	99	2255.97	2372.20
Economizer	false	true	2071.38	2255.97
Fan Control	cav	false	2255.97	2255.97
Orientation	0	359	2255.92	2256.04



Total Electricity



Total Natural Gas

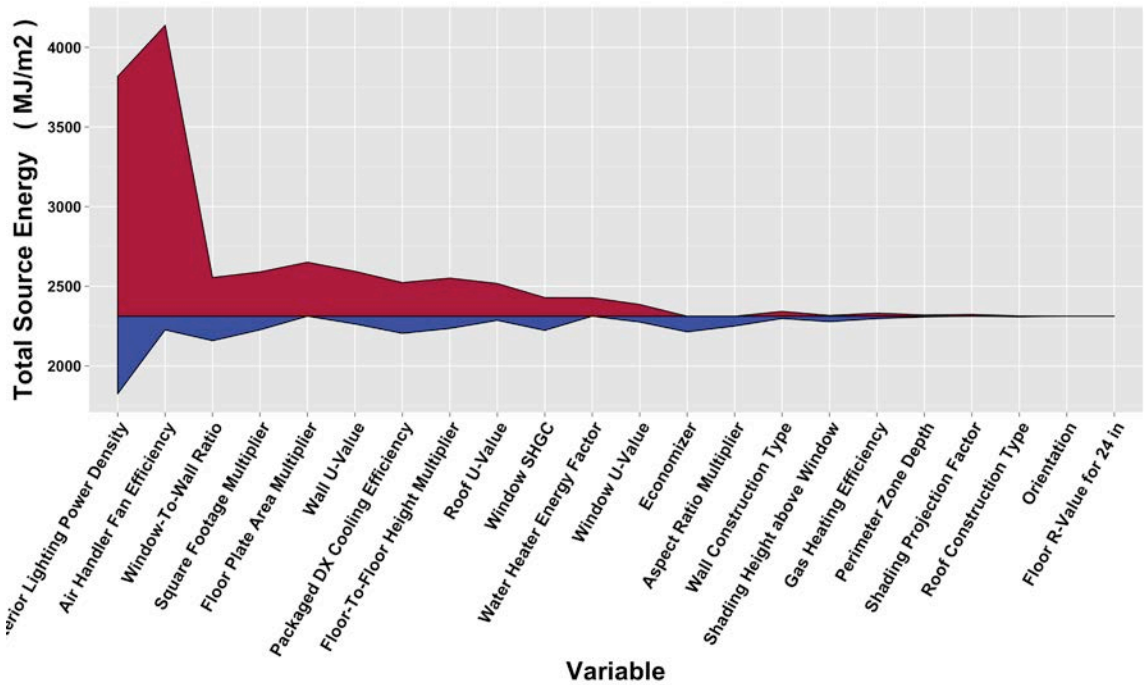


Location: Climate Zone 4A

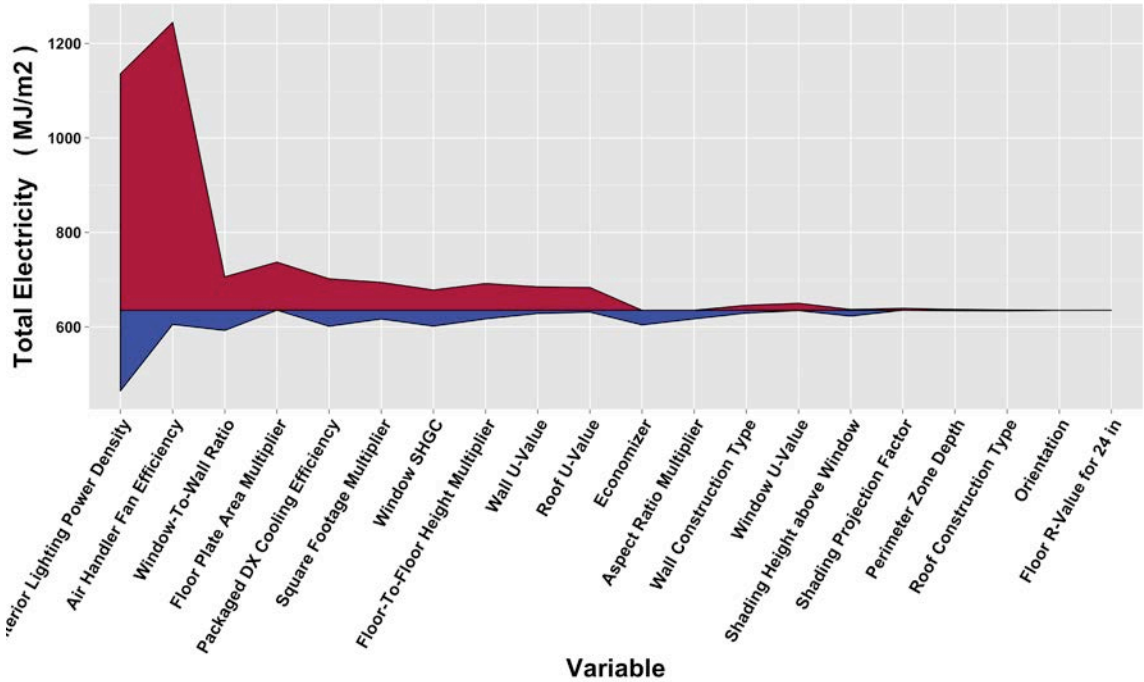
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2249.90	2311.70
Floor Plate Area Multiplier	5525	33150	2311.70	2650.70
Square Footage Multiplier	9945	99450	2226.03	2589.90
Floor-To-Floor Height Multiplier	8	16	2234.67	2551.08
Perimeter Zone Depth	13.33	26.67	2307.04	2319.36
Floor R-Value for 24 in	0	0	2311.70	2311.70
Window-To-Wall Ratio	0	0.36	2157.66	2554.69
Window Sill Height	1	6	2311.70	2311.70
Window U-Value	0.12	1.22	2274.94	2385.57
Window SHGC	0.08	0.7	2222.63	2428.64
Window VLT	0.06	0.89	2311.70	2311.70
Wall Construction Type	masonry-on-masonry	wood-siding	2297.34	2341.87
Wall U-Value	0.03	0.58	2262.87	2593.48
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2307.46	2313.44
Roof U-Value	0.01	0.2	2285.65	2517.02
Daylighting Control Setpoint	0	0	2311.70	2311.70
Interior Lighting Power Density	0.31	3.14	1823.93	3817.45
Shading Projection Factor	0	1	2311.70	2323.20

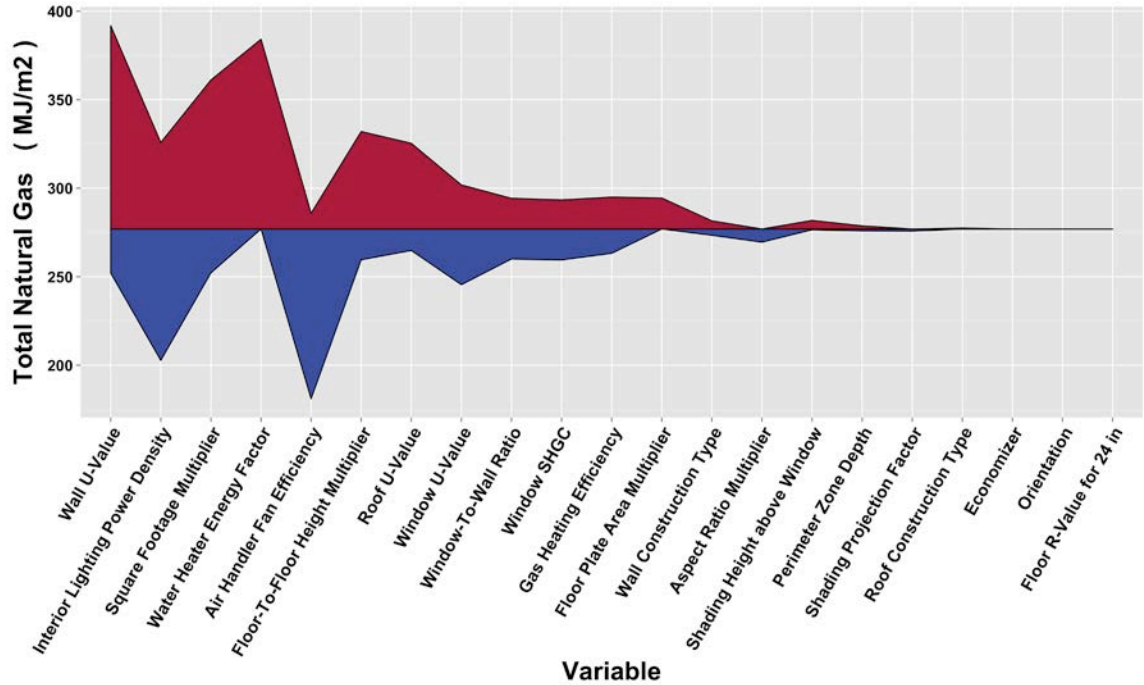
Shading Height above Window	0	2	2277.34	2316.53
District Chiller Cooling Efficiency	0.52	1.48	2311.70	2311.70
Air Handler Fan Efficiency	17.5	63	2225.83	4138.31
Packaged DX Cooling Efficiency	2.23	4.37	2203.92	2522.77
Gas Heating Efficiency	0.87	1.13	2296.80	2331.23
Terminal DX Cooling Efficiency	0.68	1.32	2311.70	2311.70
Terminal Furnace Heating Efficiency	0.87	1.13	2311.70	2311.70
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2311.70	2311.70
Water Heater Energy Factor	1	99	2311.70	2427.93
Economizer	false	true	2213.12	2311.70
Fan Control	cav	false	2311.70	2311.70
Orientation	0	359	2311.64	2311.70



Total Electricity



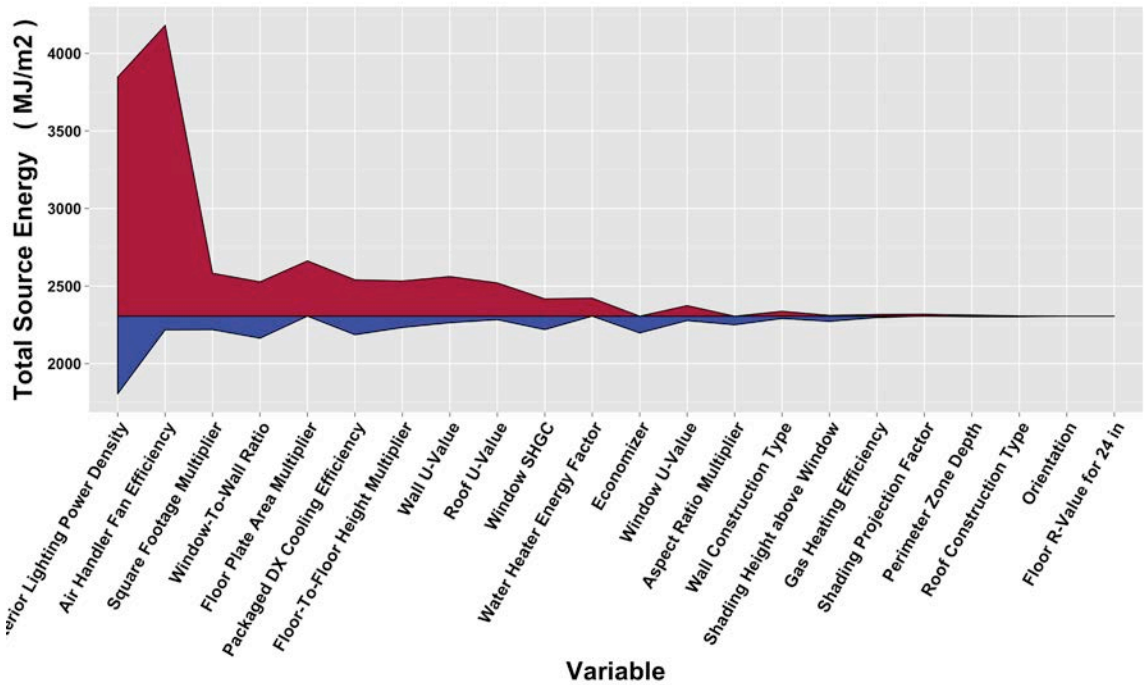
Total Natural Gas



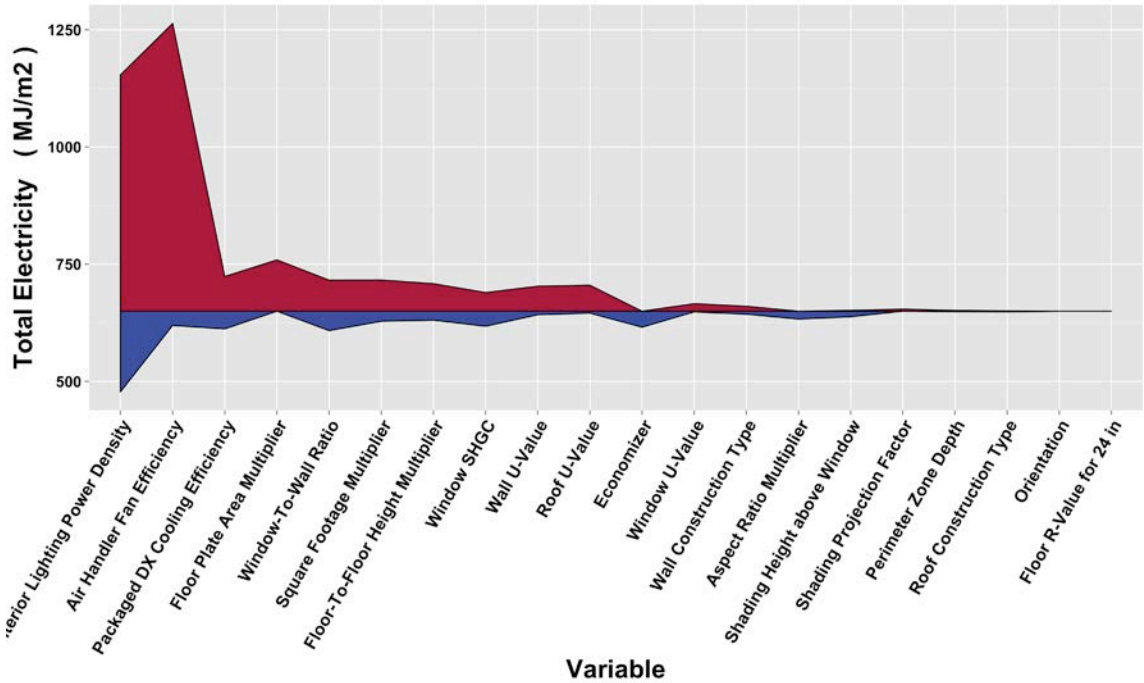
Location: Climate Zone 4B

Total Source Energy

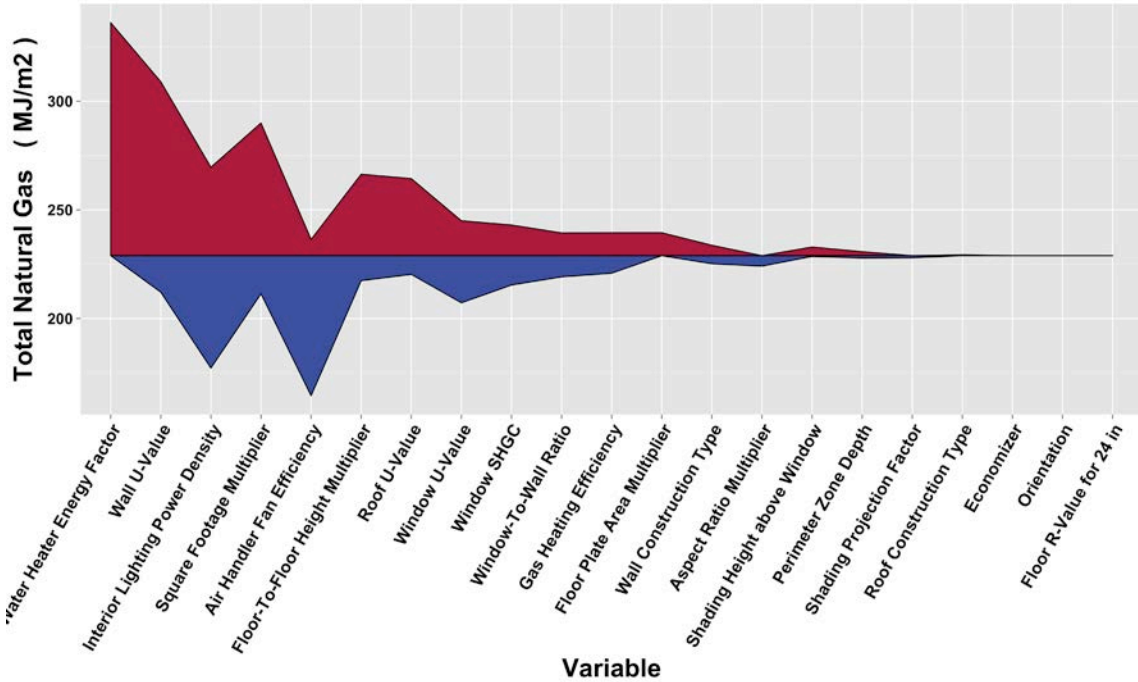
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2249.90	2305.76
Floor Plate Area Multiplier	5525	33150	2305.76	2662.40
Square Footage Multiplier	9945	99450	2218.72	2582.68
Floor-To-Floor Height Multiplier	8	16	2232.78	2532.39
Perimeter Zone Depth	13.33	26.67	2301.52	2312.98
Floor R-Value for 24 in	0	0	2305.76	2305.76
Window-To-Wall Ratio	0	0.36	2163.76	2527.04
Window Sill Height	1	6	2305.76	2305.76
Window U-Value	0.12	1.22	2277.40	2374.04
Window SHGC	0.08	0.7	2219.14	2417.25
Window VLT	0.06	0.89	2305.76	2305.76
Wall Construction Type	masonry-on-masonry	wood-siding	2290.71	2337.34
Wall U-Value	0.03	0.58	2263.46	2561.34
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2301.70	2307.73
Roof U-Value	0.01	0.2	2283.39	2520.09
Daylighting Control Setpoint	0	0	2305.76	2305.76
Interior Lighting Power Density	0.31	3.14	1804.96	3846.88
Shading Projection Factor	0	1	2305.76	2318.63
Shading Height above Window	0	2	2272.31	2310.86
District Chiller Cooling Efficiency	0.52	1.48	2305.76	2305.76
Air Handler Fan Efficiency	17.5	63	2217.63	4180.33
Packaged DX Cooling Efficiency	2.23	4.37	2185.97	2540.33
Gas Heating Efficiency	0.87	1.13	2297.03	2317.20
Terminal DX Cooling Efficiency	0.68	1	2305.76	2305.76
Terminal Furnace Heating Efficiency	0.87	1.13	2305.76	2305.76
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2305.76	2305.76
Water Heater Energy Factor	1	99	2305.76	2421.99
Economizer	false	true	2197.56	2305.76
Fan Control	cav	false	2305.76	2305.76
Orientation	0	359	2305.71	2305.82



Total Electricity



Total Natural Gas

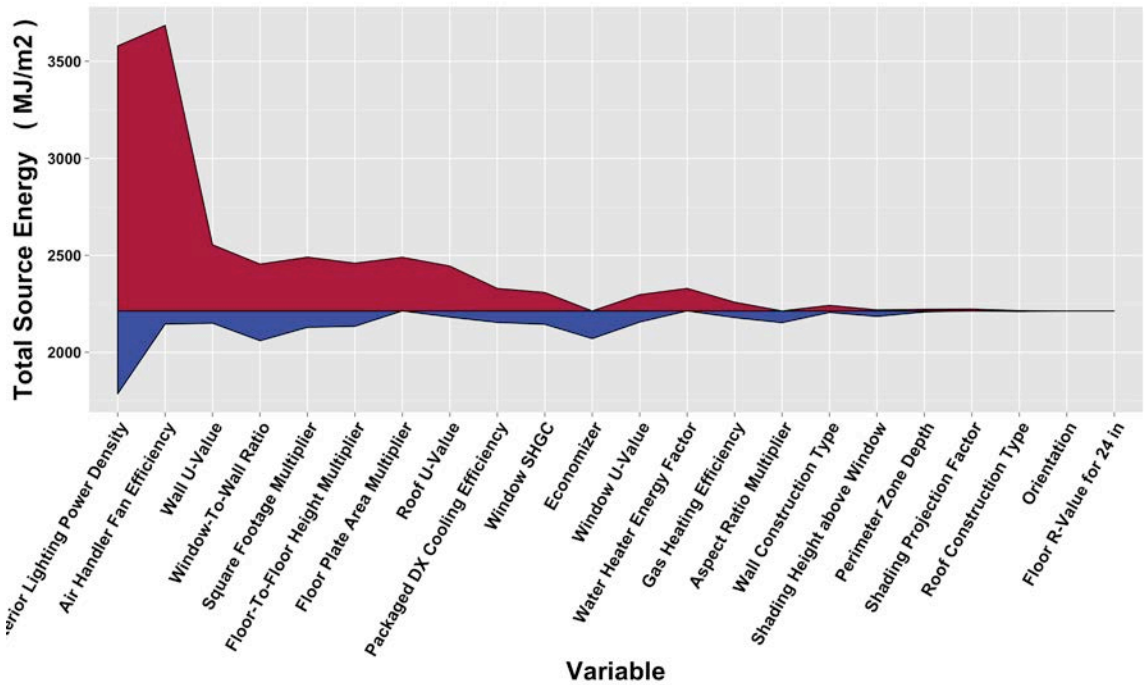


Location: Climate Zone 4C

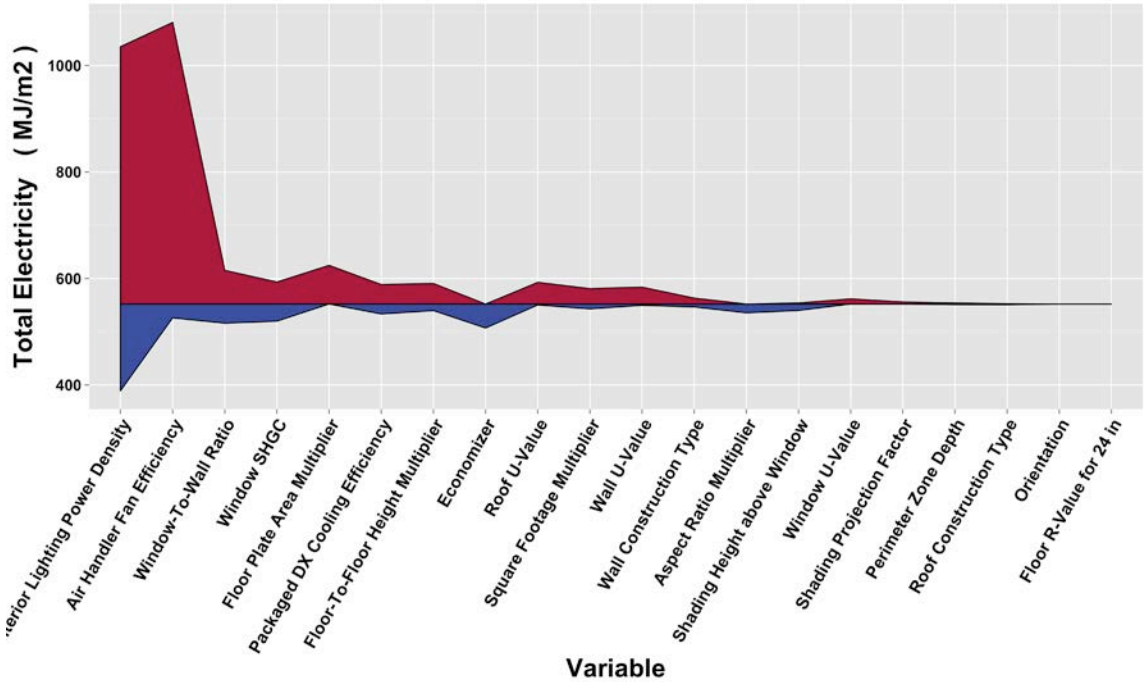
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2152.78	2213.44
Floor Plate Area Multiplier	5525	33150	2213.44	2489.87
Square Footage Multiplier	9945	99450	2128.70	2490.60
Floor-To-Floor Height Multiplier	8	16	2134.26	2459.54
Perimeter Zone Depth	13.33	26.67	2208.11	2222.07
Floor R-Value for 24 in	0	0	2213.44	2213.44
Window-To-Wall Ratio	0	0.36	2059.65	2454.73
Window Sill Height	1	6	2213.44	2213.44
Window U-Value	0.12	1.22	2155.90	2297.34
Window SHGC	0.08	0.7	2144.40	2308.57
Window VLT	0.06	0.89	2213.44	2213.44
Wall Construction Type	masonry-on-masonry	wood-siding	2205.49	2242.41
Wall U-Value	0.03	0.58	2150.13	2554.61
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2210.08	2215.12
Roof U-Value	0.01	0.2	2181.70	2444.74
Daylighting Control Setpoint	0	0	2213.44	2213.44
Interior Lighting Power Density	0.31	3.14	1785.97	3579.23
Shading Projection Factor	0	1	2213.44	2223.28

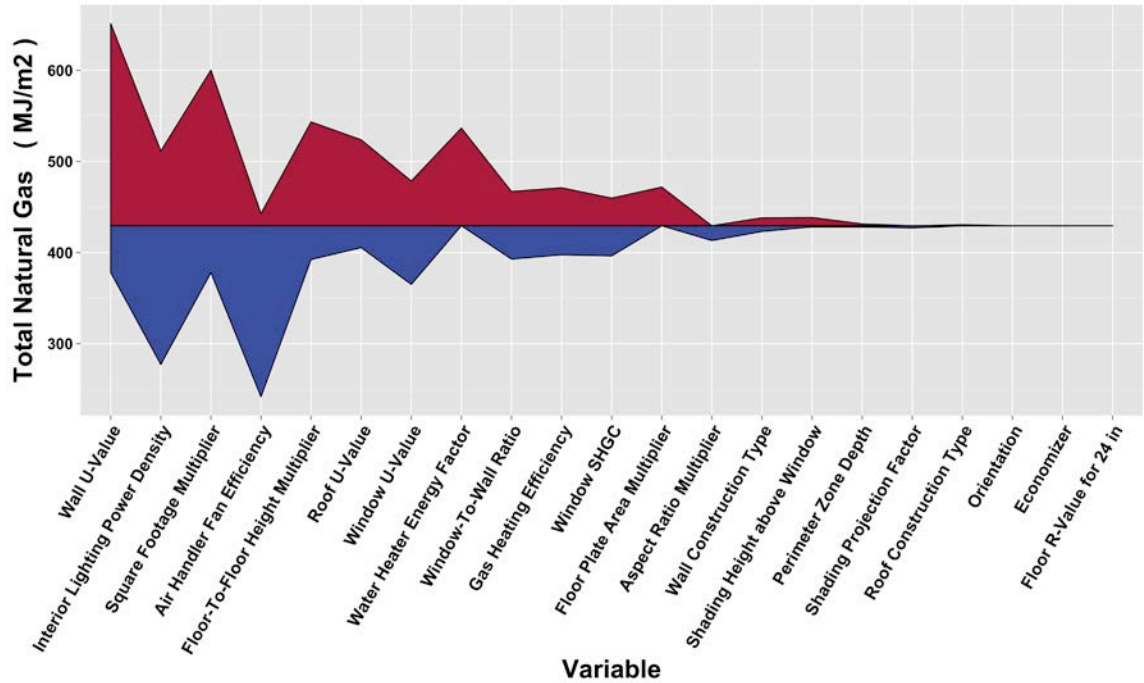
Shading Height above Window	0	2	2185.03	2218.64
District Chiller Cooling Efficiency	0.52	1.48	2213.44	2213.44
Air Handler Fan Efficiency	17.5	63	2145.74	3685.23
Packaged DX Cooling Efficiency	2.23	4.37	2154.21	2329.45
Gas Heating Efficiency	0.87	1.13	2178.96	2258.65
Terminal DX Cooling Efficiency	0.68	1.32	2213.44	2213.44
Terminal Furnace Heating Efficiency	0.87	1.13	2213.44	2213.44
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2213.44	2213.44
Water Heater Energy Factor	1	99	2213.44	2329.68
Economizer	false	true	2070.67	2213.44
Fan Control	cav	false	2213.44	2213.44
Orientation	0	359	2213.38	2213.44



Total Electricity



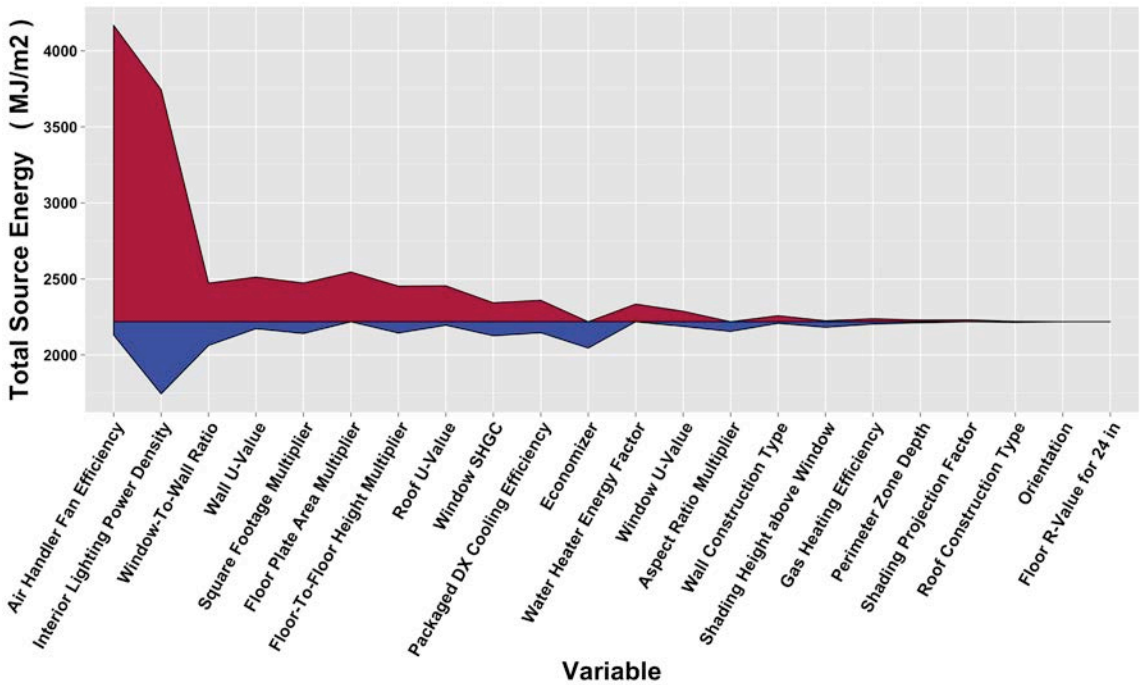
Total Natural Gas



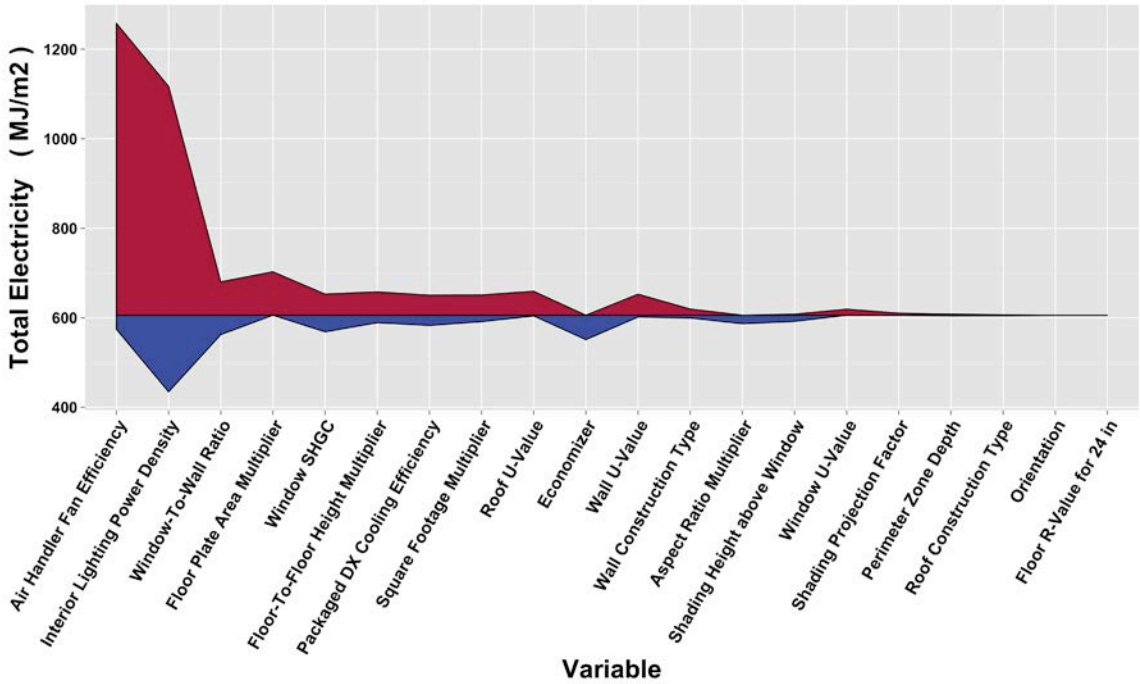
Location: Climate Zone 5A

Total Source Energy

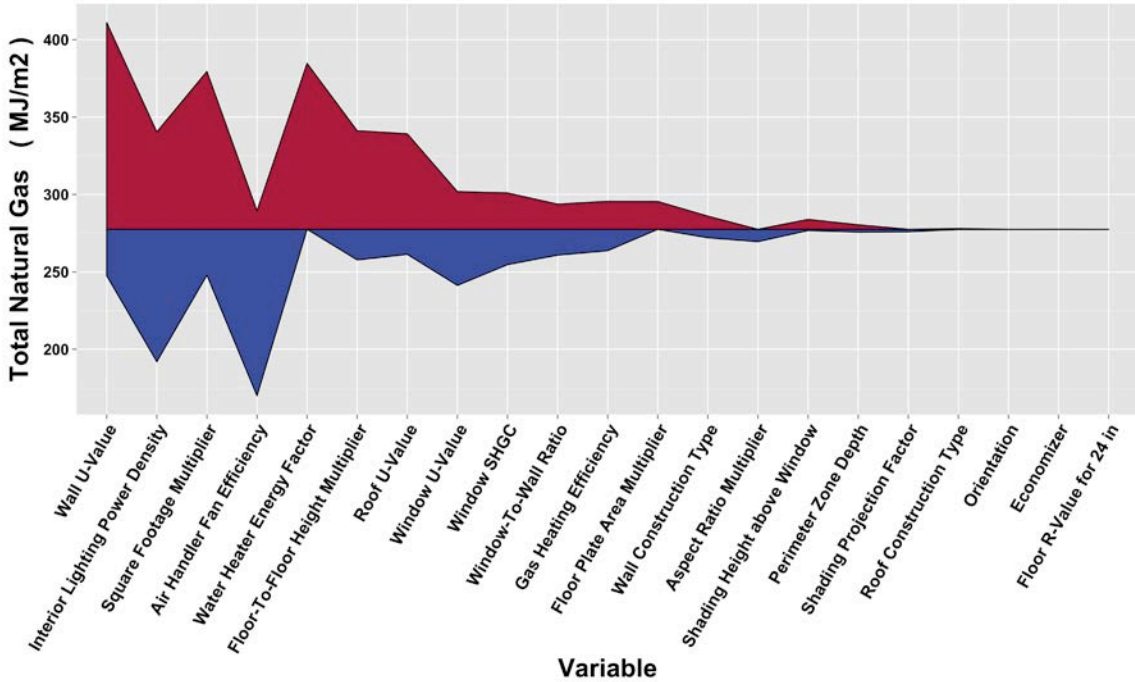
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2154.67	2218.38
Floor Plate Area Multiplier	5525	33150	2218.38	2545.32
Square Footage Multiplier	9945	99450	2140.87	2472.56
Floor-To-Floor Height Multiplier	8	16	2144.12	2452.52
Perimeter Zone Depth	13.33	26.67	2211.80	2229.33
Floor R-Value for 24 in	0	0	2218.38	2218.38
Window-To-Wall Ratio	0	0.36	2062.75	2472.20
Window Sill Height	1	6	2218.38	2218.38
Window U-Value	0.12	1.22	2187.61	2287.42
Window SHGC	0.08	0.7	2126.13	2343.00
Window VLT	0.06	0.89	2218.38	2218.38
Wall Construction Type	masonry-on-masonry	wood-siding	2208.18	2258.34
Wall U-Value	0.03	0.58	2172.93	2512.19
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2214.74	2220.58
Roof U-Value	0.01	0.2	2195.64	2454.79
Daylighting Control Setpoint	0	0	2218.38	2218.38
Interior Lighting Power Density	0.31	3.14	1744.00	3745.41
Shading Projection Factor	0	1	2218.38	2230.77
Shading Height above Window	0	2	2181.80	2224.69
District Chiller Cooling Efficiency	0.52	1.48	2218.38	2218.38
Air Handler Fan Efficiency	17.5	63	2131.18	4167.80
Packaged DX Cooling Efficiency	2.23	4.37	2146.20	2359.74
Gas Heating Efficiency	0.87	1.13	2203.42	2238.00
Terminal DX Cooling Efficiency	0.68	1.32	2218.38	2218.38
Terminal Furnace Heating Efficiency	0.87	1.13	2218.38	2218.38
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2218.38	2218.38
Water Heater Energy Factor	1	99	2218.38	2334.62
Economizer	false	true	2045.42	2218.38
Fan Control	cav	false	2218.38	2218.38
Orientation	0	359	2218.25	2218.43



Total Electricity



Total Natural Gas

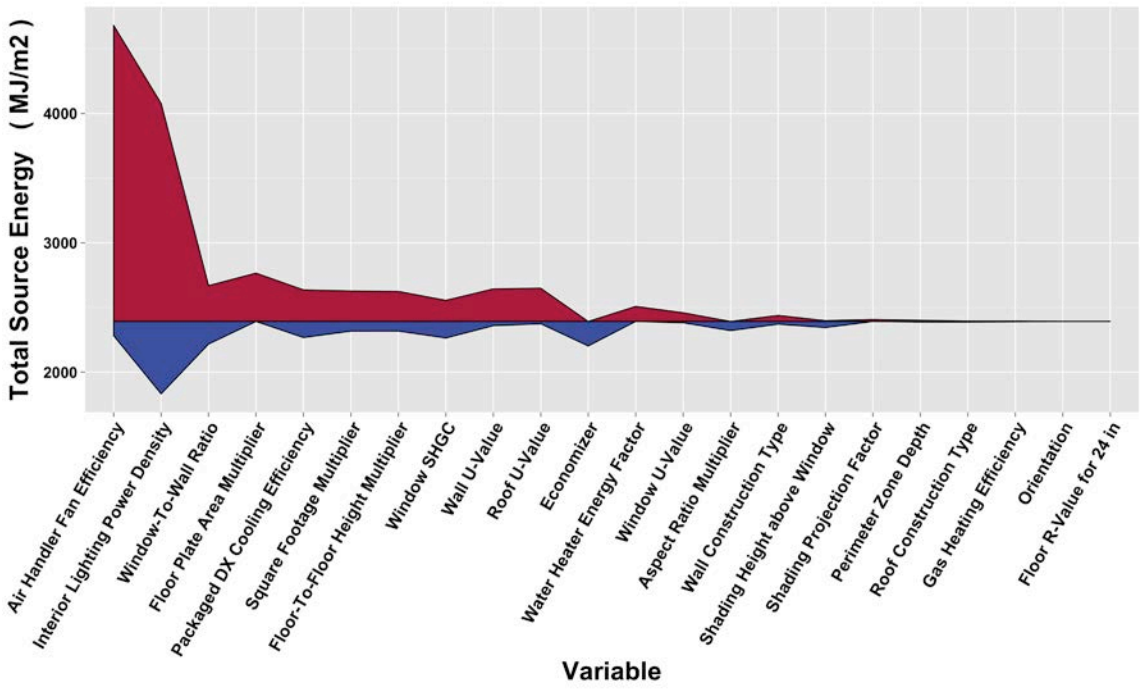


Location: Climate Zone 5B

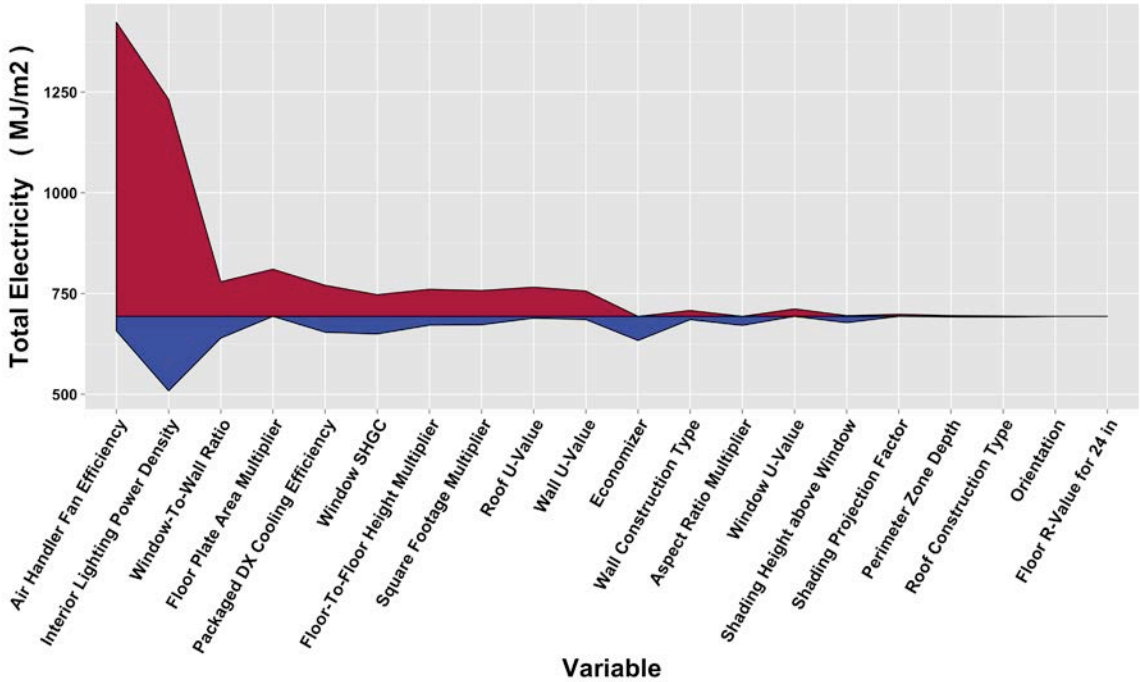
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2320.88	2391.72
Floor Plate Area Multiplier	5525	33150	2391.72	2765.40
Square Footage Multiplier	9945	99450	2316.96	2626.67
Floor-To-Floor Height Multiplier	8	16	2317.29	2623.91
Perimeter Zone Depth	13.33	26.67	2386.99	2400.08
Floor R-Value for 24 in	0	0	2391.72	2391.72
Window-To-Wall Ratio	0	0.36	2216.73	2668.63
Window Sill Height	1	6	2391.72	2391.72
Window U-Value	0.12	1.22	2381.68	2458.89
Window SHGC	0.08	0.7	2263.74	2554.80
Window VLT	0.06	0.89	2391.72	2391.72
Wall Construction Type	masonry-on-masonry	wood-siding	2370.65	2438.36
Wall U-Value	0.03	0.58	2358.84	2643.18
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2387.18	2394.56
Roof U-Value	0.01	0.2	2373.68	2648.44
Daylighting Control Setpoint	0	0	2391.72	2391.72
Interior Lighting Power Density	0.31	3.14	1831.78	4077.81
Shading Projection Factor	0	1	2391.72	2407.05

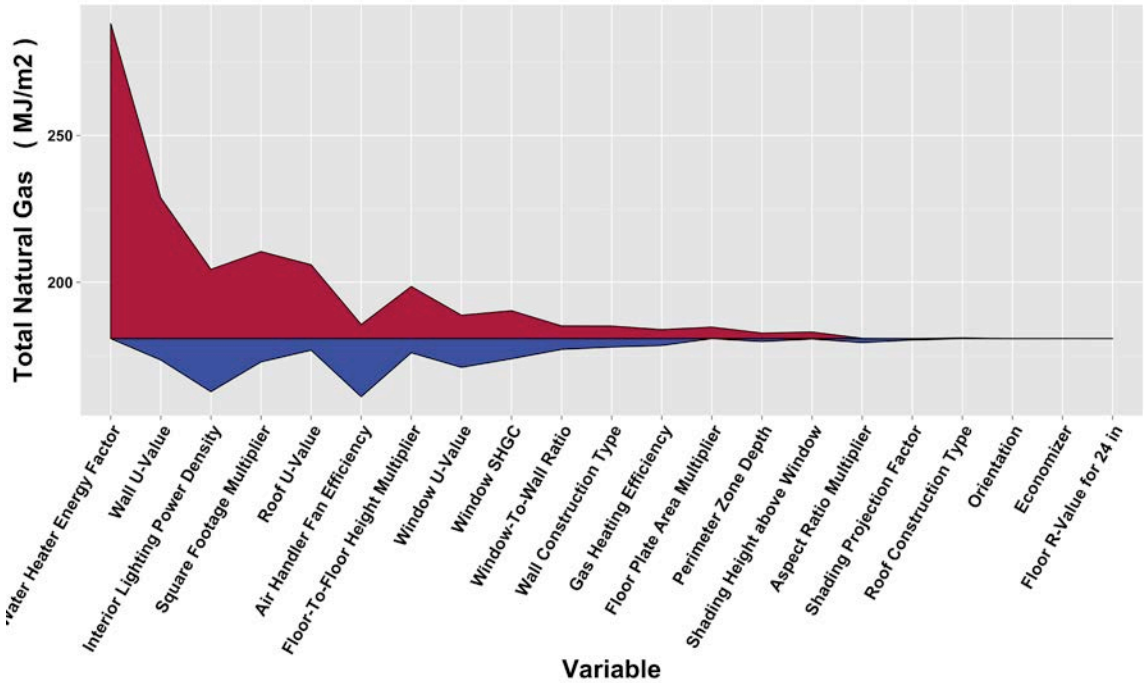
Shading Height above Window	0	2	2344.45	2397.52
District Chiller Cooling Efficiency	0.52	1.48	2391.72	2391.72
Air Handler Fan Efficiency	17.5	63	2281.89	4680.82
Packaged DX Cooling Efficiency	2.23	4.37	2267.07	2635.83
Gas Heating Efficiency	0.87	1.13	2389.18	2395.06
Terminal DX Cooling Efficiency	0.68	1.32	2391.72	2391.72
Terminal Furnace Heating Efficiency	0.87	1.13	2391.72	2391.72
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2391.72	2391.72
Water Heater Energy Factor	1	99	2391.72	2507.95
Economizer	false	true	2202.08	2391.72
Fan Control	cav	false	2391.72	2391.72
Orientation	0	359	2391.63	2391.72



Total Electricity



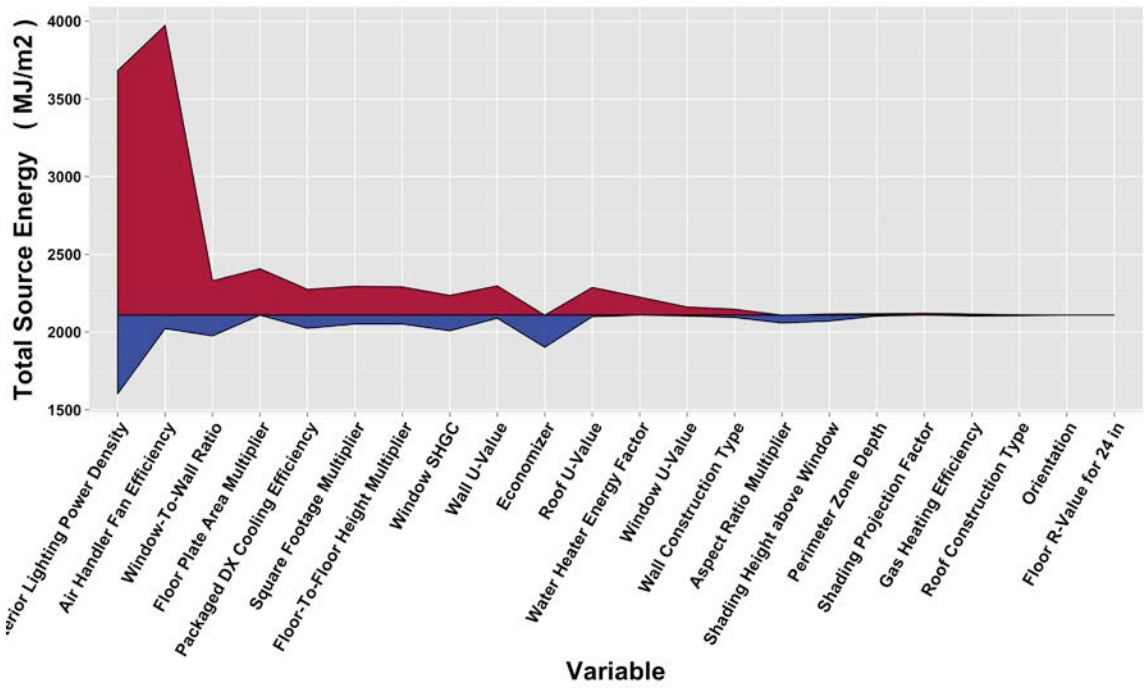
Total Natural Gas



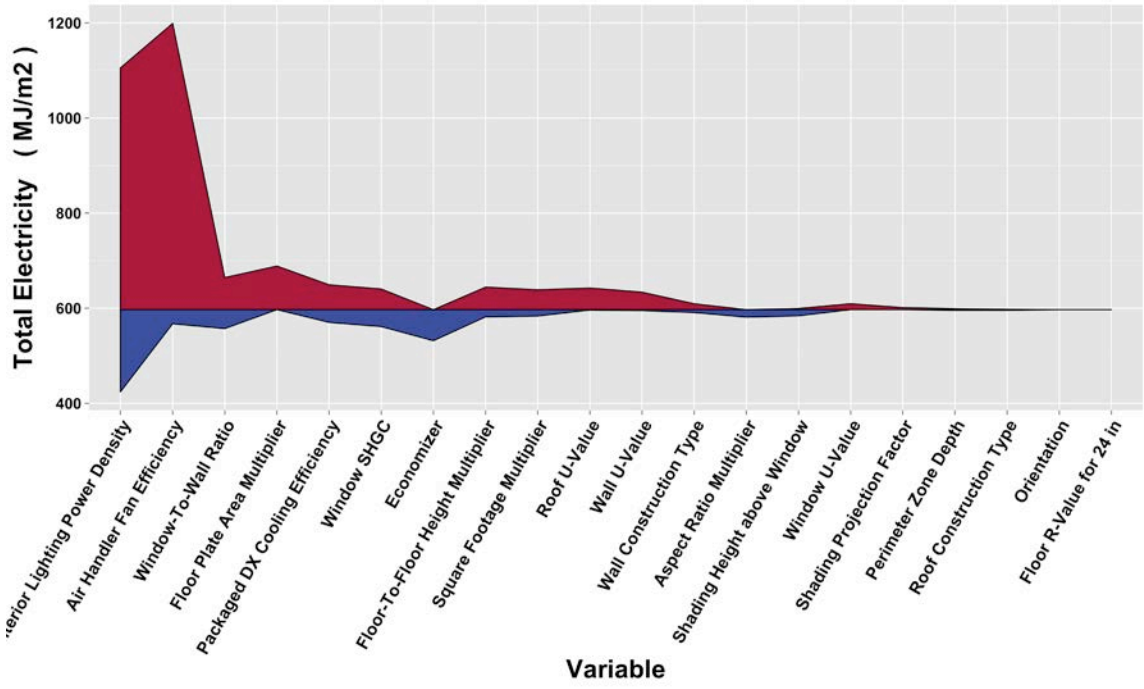
Location: Climate Zone 5C

Total Source Energy

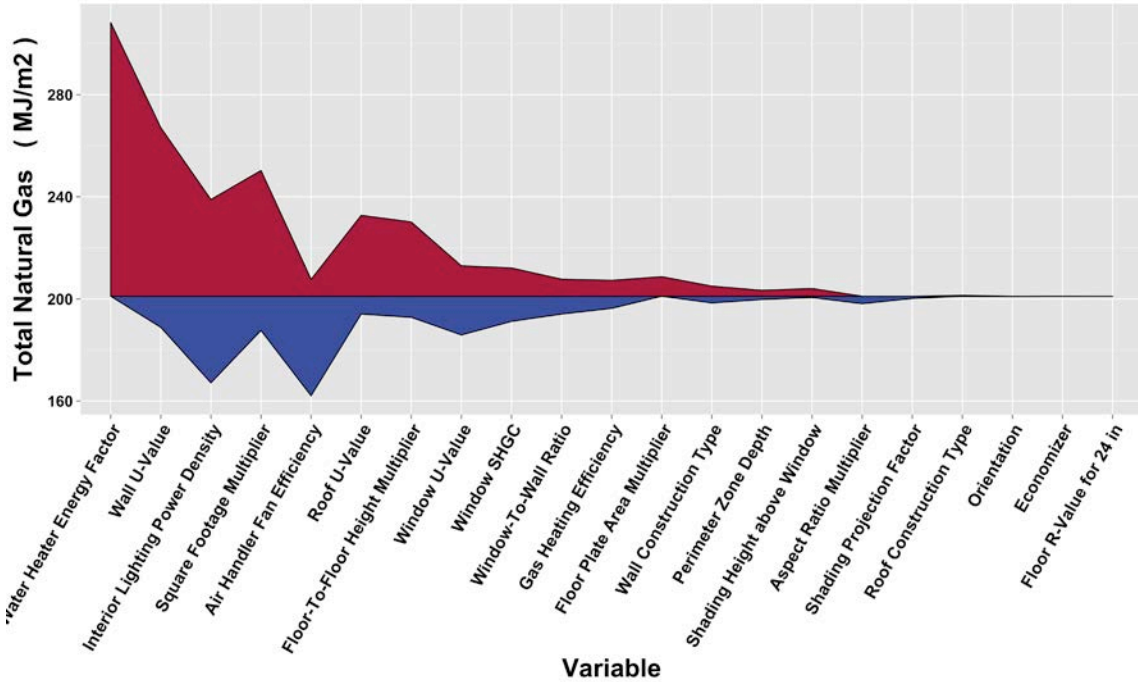
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2057.89	2108.84
Floor Plate Area Multiplier	5525	33150	2108.84	2407.62
Square Footage Multiplier	9945	99450	2051.67	2294.80
Floor-To-Floor Height Multiplier	8	16	2051.76	2290.61
Perimeter Zone Depth	13.33	26.67	2103.37	2118.07
Floor R-Value for 24 in	0	0	2108.84	2108.84
Window-To-Wall Ratio	0	0.36	1975.30	2329.90
Window Sill Height	1	6	2108.84	2108.84
Window U-Value	0.12	1.22	2103.73	2161.50
Window SHGC	0.08	0.7	2008.12	2235.99
Window VLT	0.06	0.89	2108.84	2108.84
Wall Construction Type	masonry-on-masonry	wood-siding	2093.92	2146.99
Wall U-Value	0.03	0.58	2089.05	2297.15
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2105.52	2111.03
Roof U-Value	0.01	0.2	2098.72	2287.42
Daylighting Control Setpoint	0	0	2108.84	2108.84
Interior Lighting Power Density	0.31	3.14	1602.59	3682.55
Shading Projection Factor	0	1	2108.84	2121.68
Shading Height above Window	0	2	2071.01	2116.16
District Chiller Cooling Efficiency	0.52	1.48	2108.84	2108.84
Air Handler Fan Efficiency	17.5	63	2022.07	3972.85
Packaged DX Cooling Efficiency	2.23	4.37	2024.10	2274.79
Gas Heating Efficiency	0.87	1.13	2103.70	2115.58
Terminal DX Cooling Efficiency	0.68	1.32	2108.84	2108.84
Terminal Furnace Heating Efficiency	0.87	1.13	2108.84	2108.84
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2108.84	2108.84
Water Heater Energy Factor	1	99	2108.84	2225.07
Economizer	false	true	1901.90	2108.84
Fan Control	cav	false	2108.84	2108.84
Orientation	0	359	2108.70	2108.89



Total Electricity



Total Natural Gas

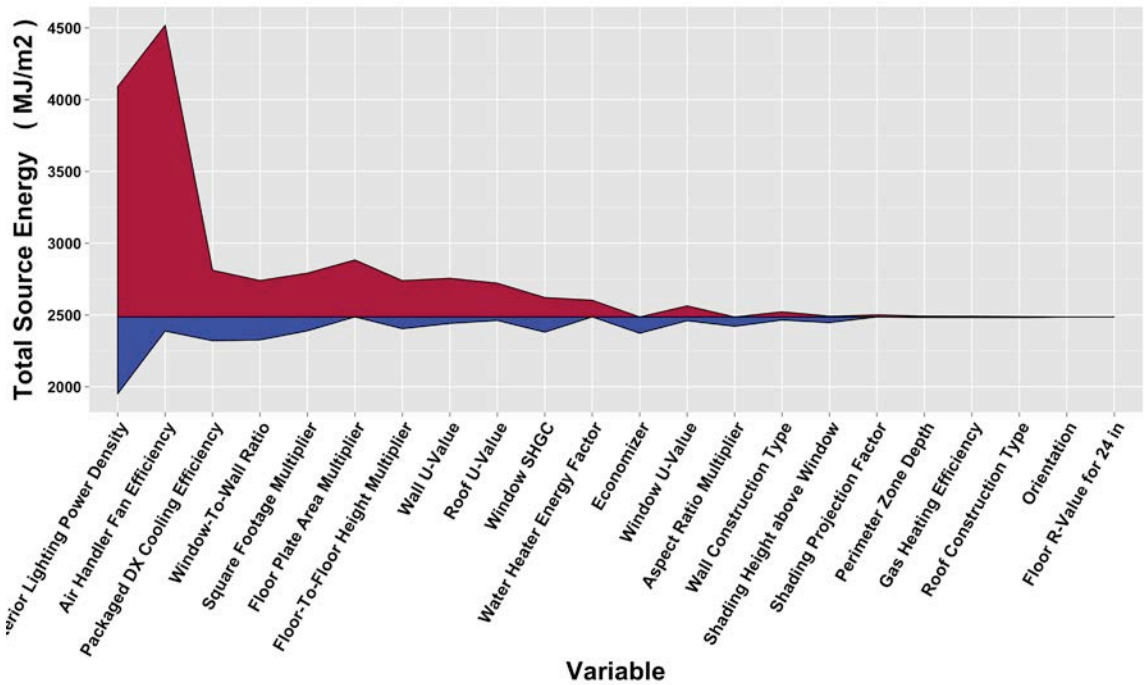


Location: Climate Zone 6A

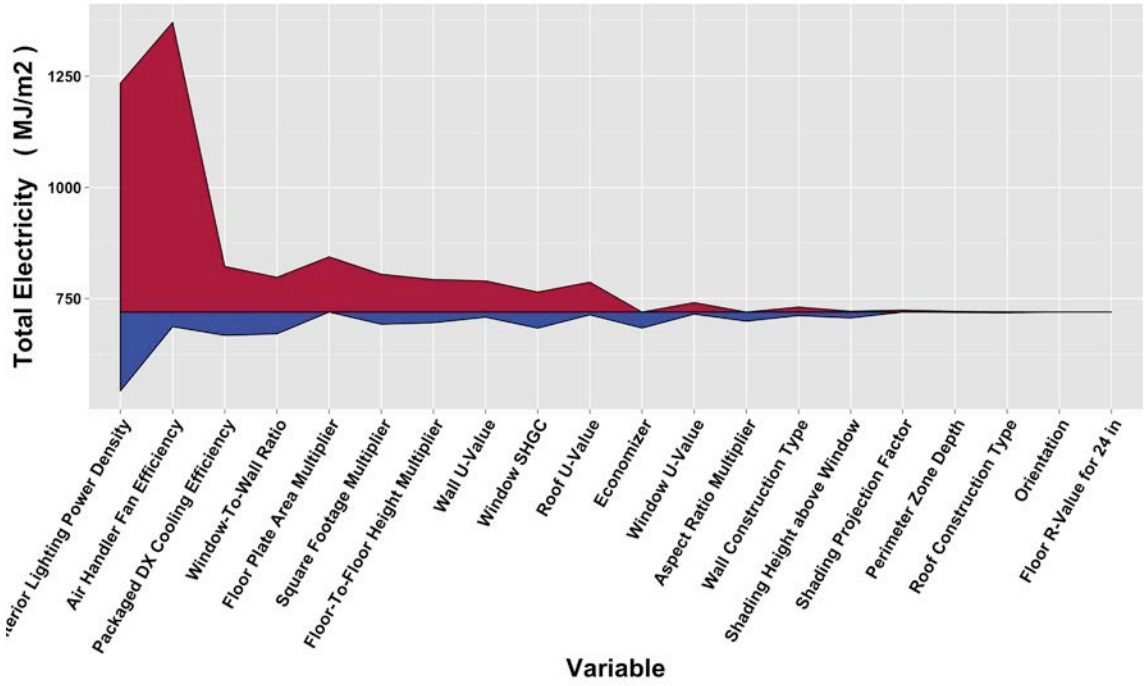
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2421.68	2487.24
Floor Plate Area Multiplier	5525	33150	2487.24	2884.25
Square Footage Multiplier	9945	99450	2390.44	2792.29
Floor-To-Floor Height Multiplier	8	16	2405.05	2740.00
Perimeter Zone Depth	13.33	26.67	2483.53	2493.67
Floor R-Value for 24 in	0	0	2487.24	2487.24
Window-To-Wall Ratio	0	0.36	2326.90	2740.63
Window Sill Height	1	6	2487.24	2487.24
Window U-Value	0.12	1.22	2460.72	2564.13
Window SHGC	0.08	0.7	2380.85	2622.26
Window VLT	0.06	0.89	2487.24	2487.24
Wall Construction Type	masonry-on-masonry	wood-siding	2465.48	2522.63
Wall U-Value	0.03	0.58	2441.79	2756.46
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2482.79	2489.33
Roof U-Value	0.01	0.2	2462.62	2722.25
Daylighting Control Setpoint	0	0	2487.24	2487.24
Interior Lighting Power Density	0.31	3.14	1951.40	4090.73
Shading Projection Factor	0	1	2487.24	2501.06

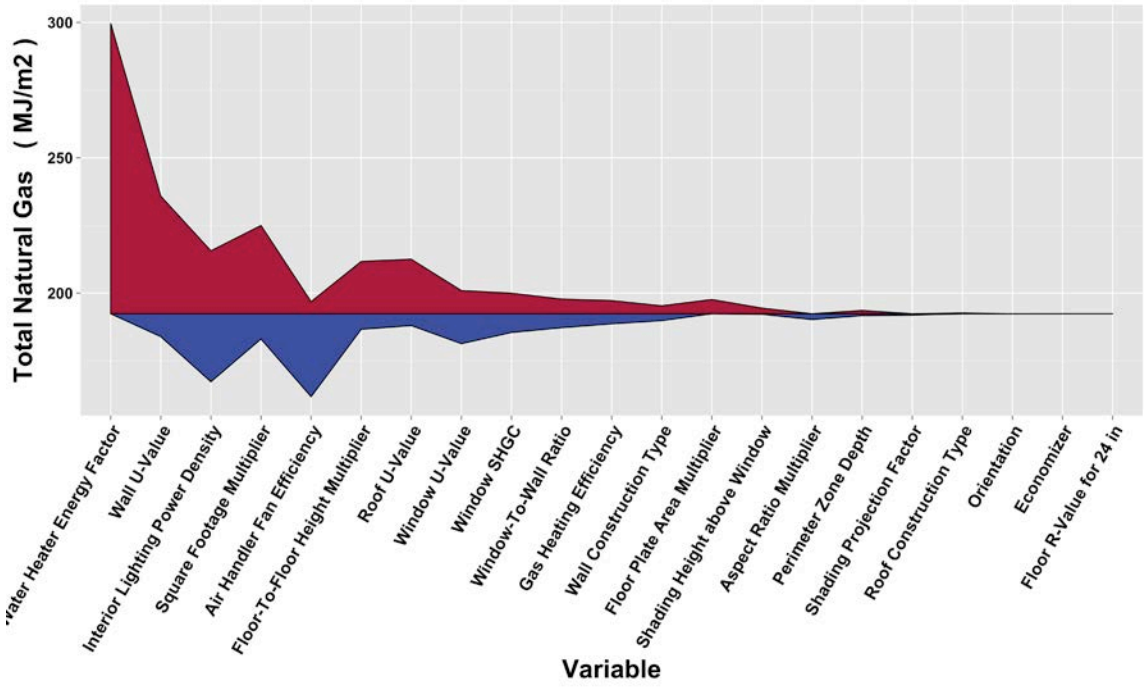
Shading Height above Window	0	2	2447.47	2492.78
District Chiller Cooling Efficiency	0.52	1.48	2487.24	2487.24
Air Handler Fan Efficiency	17.5	63	2388.50	4517.49
Packaged DX Cooling Efficiency	2.23	4.37	2321.22	2812.36
Gas Heating Efficiency	0.87	1.13	2483.22	2492.52
Terminal DX Cooling Efficiency	0.68	1.32	2487.24	2487.24
Terminal Furnace Heating Efficiency	0.87	1.13	2487.24	2487.24
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2487.24	2487.24
Water Heater Energy Factor	1	99	2487.24	2603.48
Economizer	false	true	2373.47	2487.24
Fan Control	cav	false	2487.24	2487.24
Orientation	0	359	2487.16	2487.24



Total Electricity



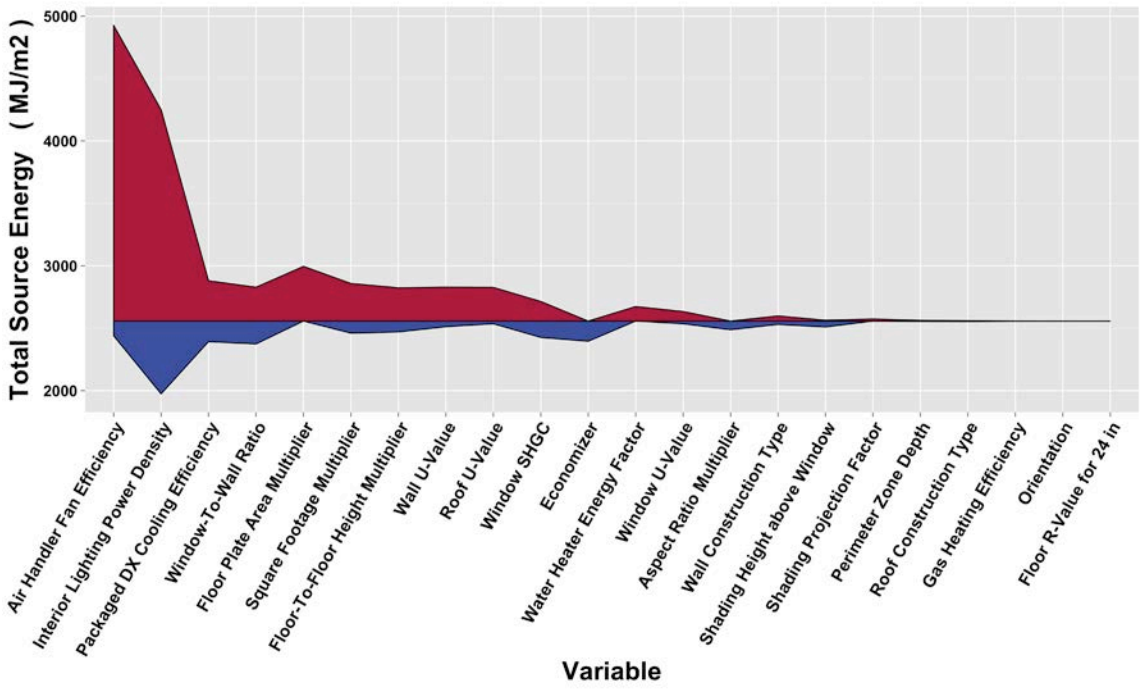
Total Natural Gas



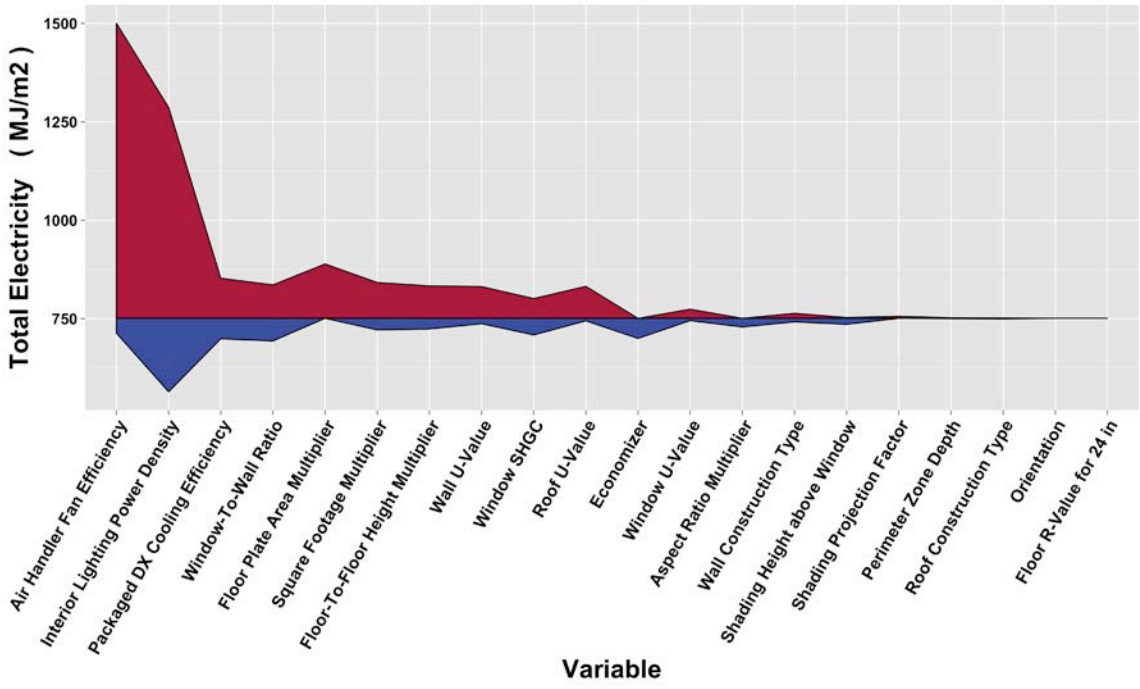
Location: Climate Zone 6B

Total Source Energy

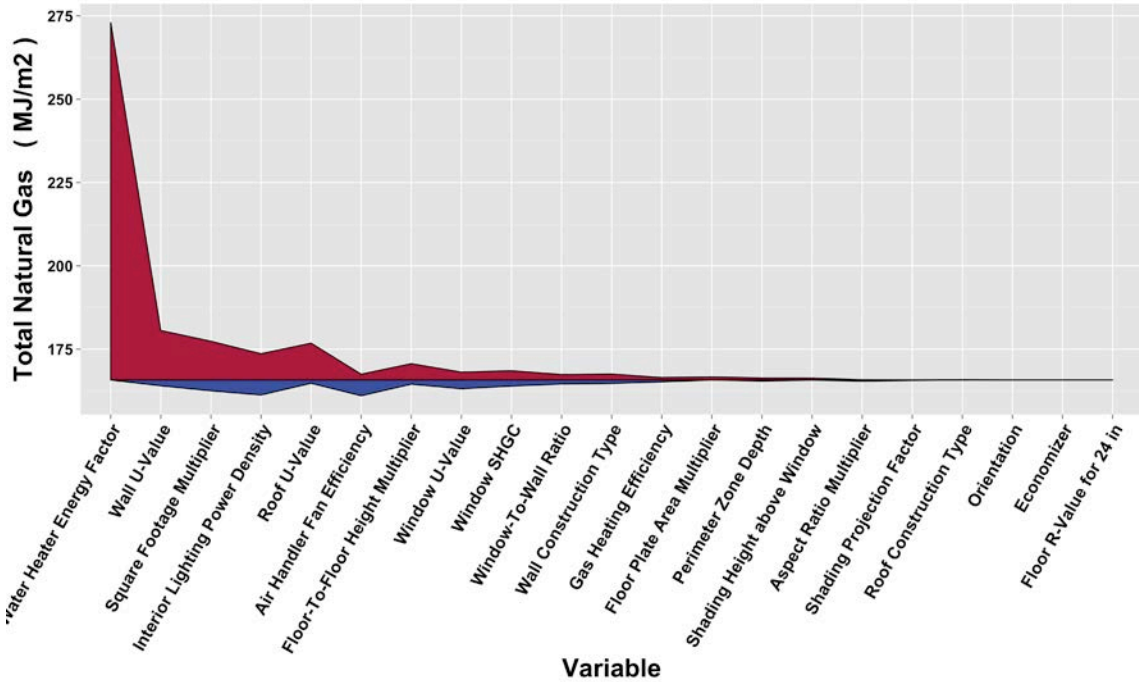
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2487.69	2557.39
Floor Plate Area Multiplier	5525	33150	2557.39	2995.61
Square Footage Multiplier	9945	99450	2460.20	2858.25
Floor-To-Floor Height Multiplier	8	16	2470.20	2823.62
Perimeter Zone Depth	13.33	26.67	2554.44	2562.62
Floor R-Value for 24 in	0	0	2557.39	2557.39
Window-To-Wall Ratio	0	0.36	2373.76	2828.32
Window Sill Height	1	6	2557.39	2557.39
Window U-Value	0.12	1.22	2535.71	2633.59
Window SHGC	0.08	0.7	2426.32	2714.56
Window VLT	0.06	0.89	2557.39	2557.39
Wall Construction Type	masonry-on-masonry	wood-siding	2530.58	2598.53
Wall U-Value	0.03	0.58	2512.03	2828.93
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2553.05	2560.02
Roof U-Value	0.01	0.2	2535.84	2827.02
Daylighting Control Setpoint	0	0	2557.39	2557.39
Interior Lighting Power Density	0.31	3.14	1974.18	4250.12
Shading Projection Factor	0	1	2557.39	2573.90
Shading Height above Window	0	2	2509.62	2563.75
District Chiller Cooling Efficiency	0.52	1.48	2557.39	2557.39
Air Handler Fan Efficiency	17.5	63	2439.00	4925.46
Packaged DX Cooling Efficiency	2.23	4.37	2392.58	2880.15
Gas Heating Efficiency	0.87	1.13	2556.79	2558.19
Terminal DX Cooling Efficiency	0.68	1.32	2557.39	2557.39
Terminal Furnace Heating Efficiency	0.87	1.13	2557.39	2557.39
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2557.39	2557.39
Water Heater Energy Factor	1	99	2557.39	2673.63
Economizer	false	true	2395.35	2557.39
Fan Control	cav	false	2557.39	2557.39
Orientation	0	359	2557.24	2557.39



Total Electricity



Total Natural Gas

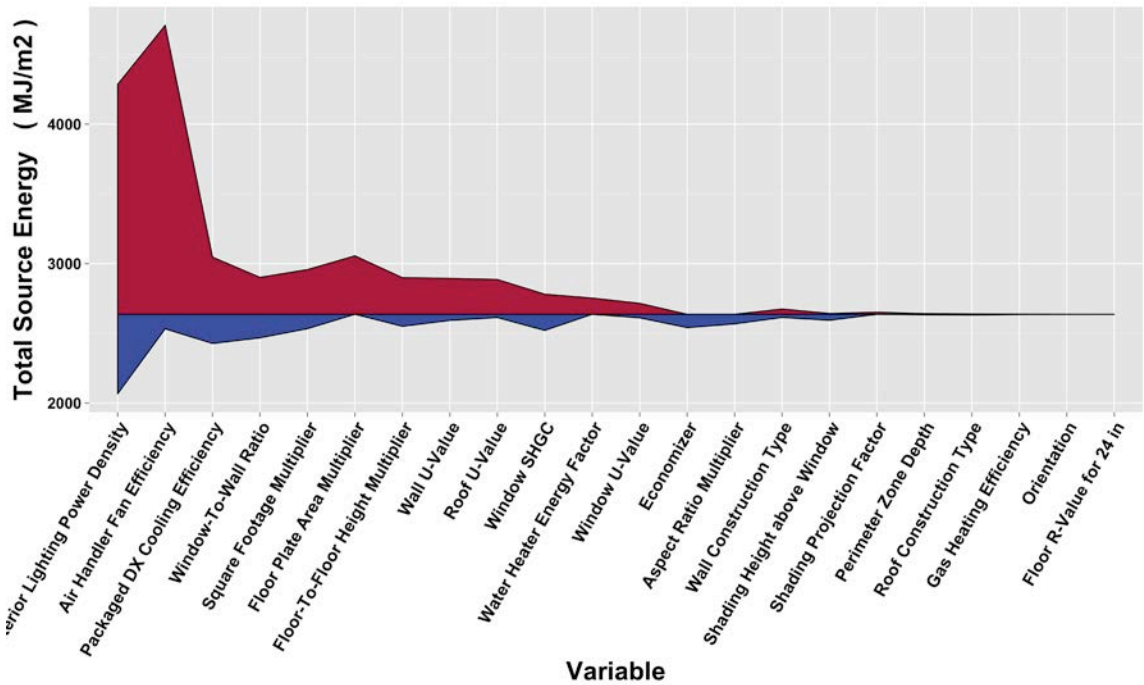


Location: Climate Zone 7

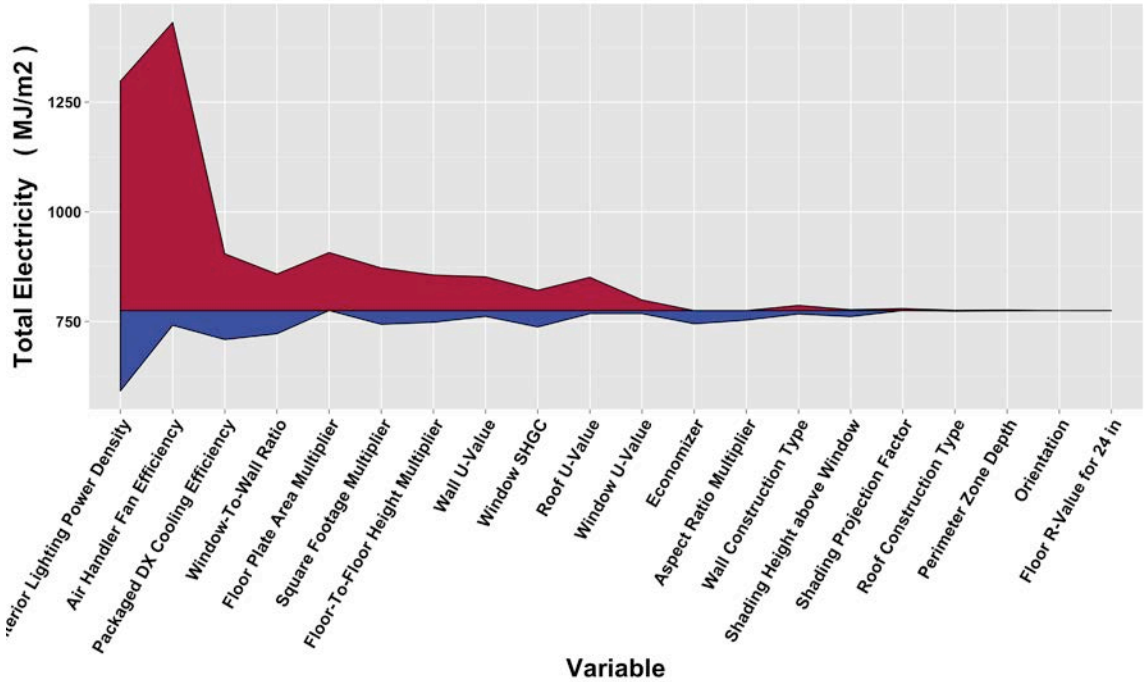
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2567.38	2636.35
Floor Plate Area Multiplier	5525	33150	2636.35	3055.96
Square Footage Multiplier	9945	99450	2533.08	2957.26
Floor-To-Floor Height Multiplier	8	16	2549.97	2898.99
Perimeter Zone Depth	13.33	26.67	2633.68	2640.95
Floor R-Value for 24 in	0	0	2636.35	2636.35
Window-To-Wall Ratio	0	0.36	2467.59	2901.19
Window Sill Height	1	6	2636.35	2636.35
Window U-Value	0.12	1.22	2610.92	2715.17
Window SHGC	0.08	0.7	2520.53	2780.44
Window VLT	0.06	0.89	2636.35	2636.35
Wall Construction Type	masonry-on-masonry	wood-siding	2613.62	2674.16
Wall U-Value	0.03	0.58	2592.26	2894.03
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2631.65	2638.62
Roof U-Value	0.01	0.2	2612.86	2885.95
Daylighting Control Setpoint	0	0	2636.35	2636.35
Interior Lighting Power Density	0.31	3.14	2065.44	4286.33
Shading Projection Factor	0	1	2636.35	2650.90

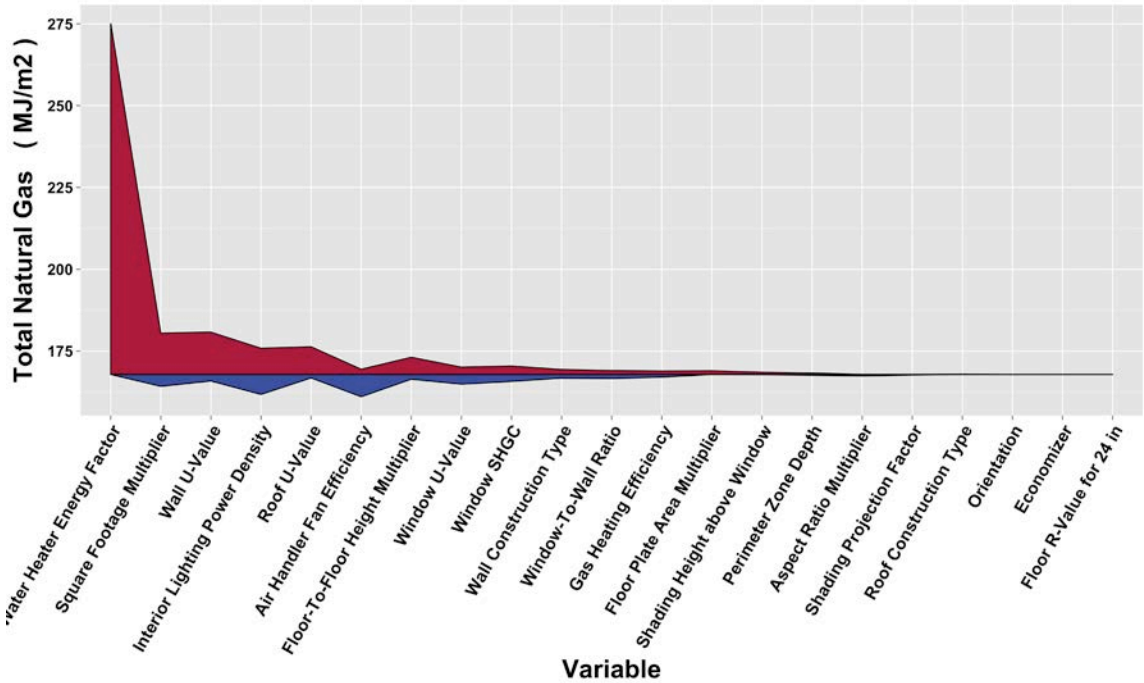
Shading Height above Window	0	2	2593.41	2642.49
District Chiller Cooling Efficiency	0.52	1.48	2636.35	2636.35
Air Handler Fan Efficiency	17.5	63	2531.87	4709.19
Packaged DX Cooling Efficiency	2.23	4.37	2426.90	3046.52
Gas Heating Efficiency	0.87	1.13	2635.48	2637.50
Terminal DX Cooling Efficiency	0.68	1.32	2636.35	2636.35
Terminal Furnace Heating Efficiency	0.87	1.13	2636.35	2636.35
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2636.35	2636.35
Water Heater Energy Factor	1	99	2636.35	2752.58
Economizer	false	true	2540.61	2636.35
Fan Control	cav	false	2636.35	2636.35
Orientation	0	359	2636.18	2636.35



Total Electricity



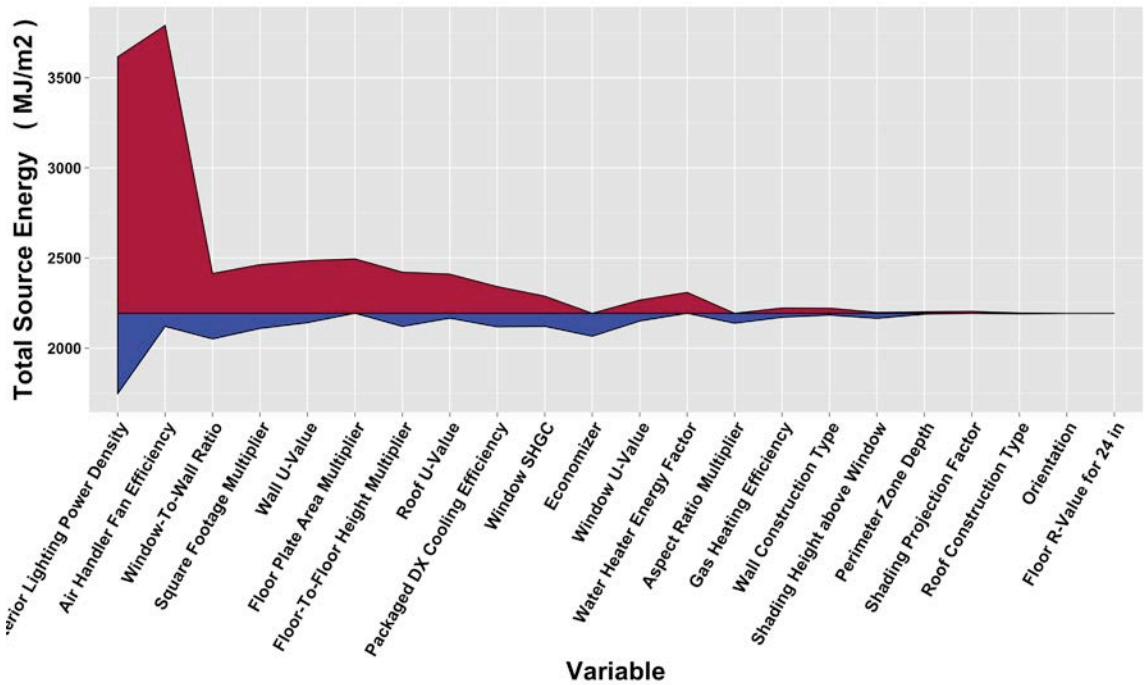
Total Natural Gas



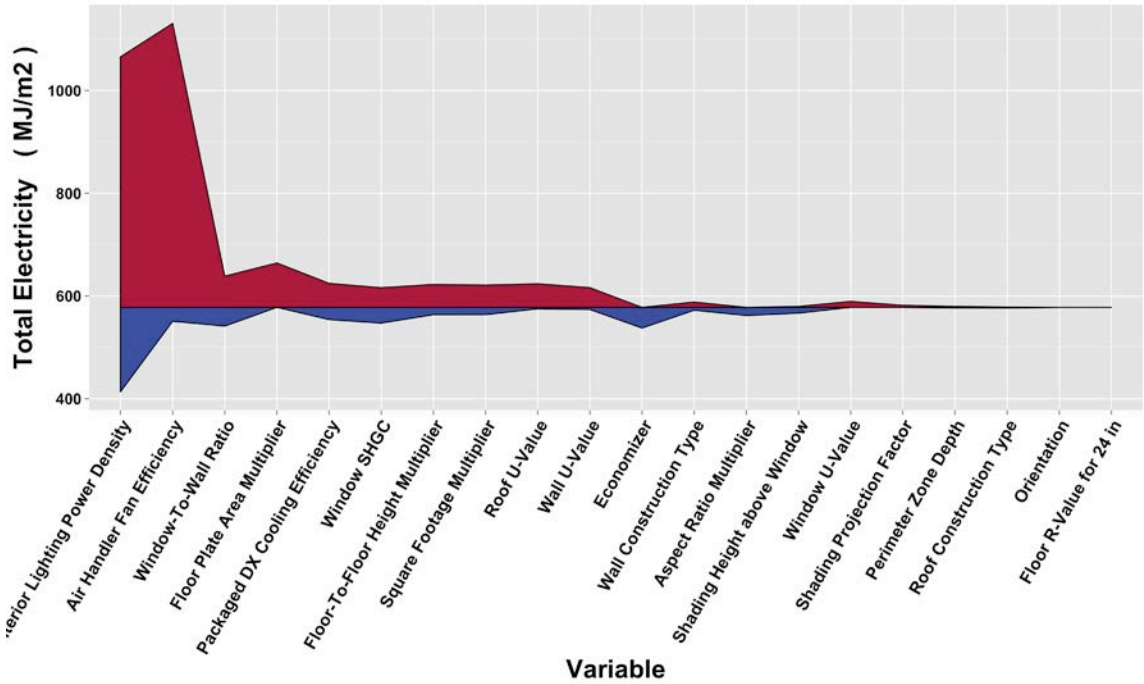
Location: Climate Zone 8

Total Source Energy

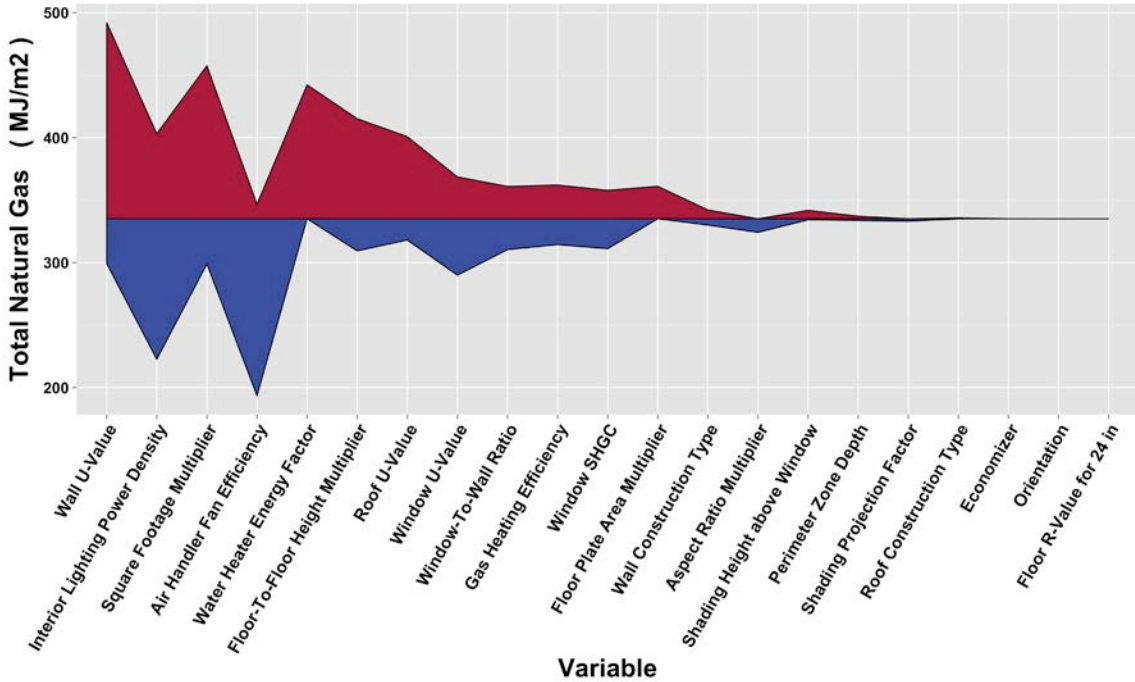
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.38	1.91	2137.62	2193.23
Floor Plate Area Multiplier	5525	33150	2193.23	2494.95
Square Footage Multiplier	9945	99450	2108.79	2463.34
Floor-To-Floor Height Multiplier	8	16	2120.00	2421.65
Perimeter Zone Depth	13.33	26.67	2188.14	2201.61
Floor R-Value for 24 in	0	0	2193.23	2193.23
Window-To-Wall Ratio	0	0.36	2050.86	2413.98
Window Sill Height	1	6	2193.23	2193.23
Window U-Value	0.12	1.22	2149.85	2266.44
Window SHGC	0.08	0.7	2120.76	2288.47
Window VLT	0.06	0.89	2193.23	2193.23
Wall Construction Type	masonry-on-masonry	wood-siding	2183.13	2221.58
Wall U-Value	0.03	0.58	2140.80	2485.12
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2189.64	2194.95
Roof U-Value	0.01	0.2	2165.80	2410.17
Daylighting Control Setpoint	0	0	2193.23	2193.23
Interior Lighting Power Density	0.31	3.14	1746.06	3616.16
Shading Projection Factor	0	1	2193.23	2203.69
Shading Height above Window	0	2	2164.78	2198.04
District Chiller Cooling Efficiency	0.52	1.48	2193.23	2193.23
Air Handler Fan Efficiency	17.5	63	2119.95	3790.67
Packaged DX Cooling Efficiency	2.23	4.37	2117.62	2341.29
Gas Heating Efficiency	0.87	1.13	2170.86	2222.55
Terminal DX Cooling Efficiency	0.68	1.32	2193.23	2193.23
Terminal Furnace Heating Efficiency	0.87	1.13	2193.23	2193.23
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2193.23	2193.23
Water Heater Energy Factor	1	99	2193.23	2309.46
Economizer	false	true	2065.55	2193.23
Fan Control	cav	false	2193.23	2193.23
Orientation	0	359	2193.17	2193.23



Total Electricity



Total Natural Gas



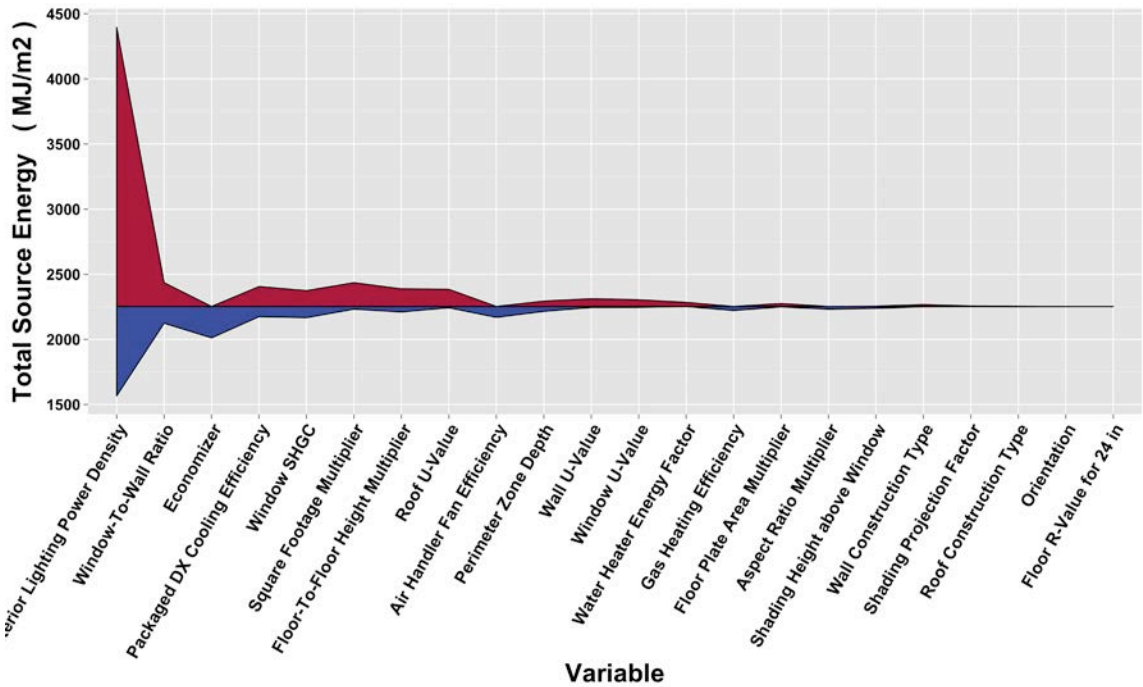
Courthouse

Location: Climate Zone 1A

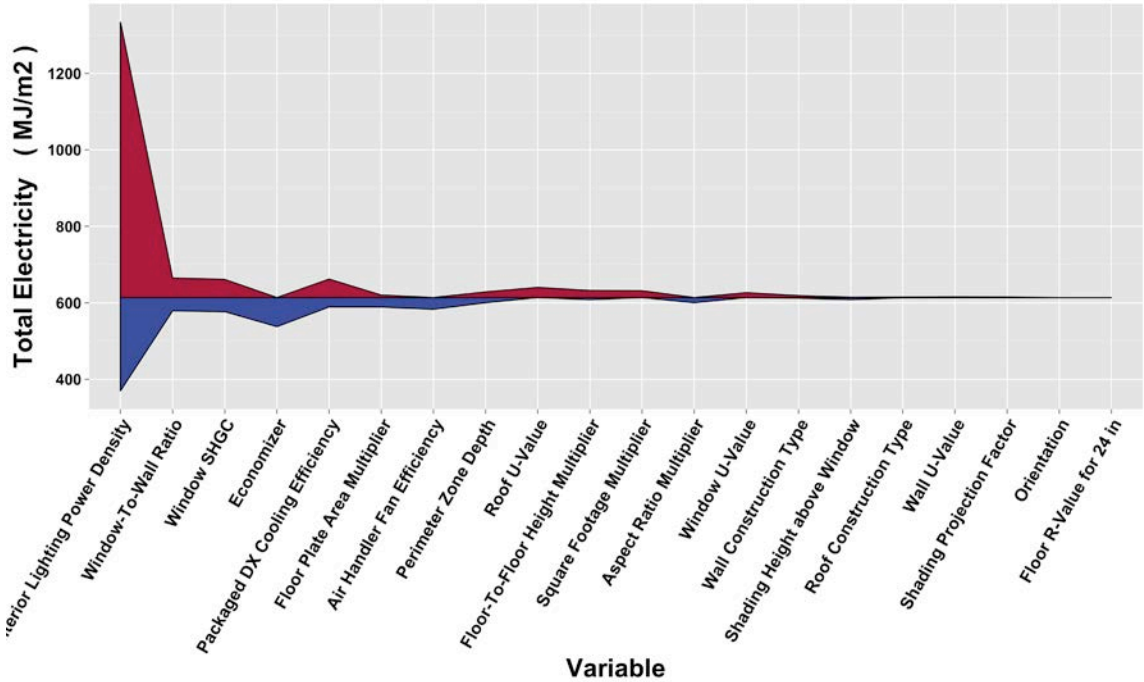
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2232.42	2253.05
Floor Plate Area Multiplier	12500	50000	2249.94	2275.54
Square Footage Multiplier	15000	150000	2232.35	2435.71
Floor-To-Floor Height Multiplier	12	24	2210.94	2388.19
Perimeter Zone Depth	10	20	2215.44	2293.99
Floor R-Value for 24 in	0	0	2253.05	2253.05
Window-To-Wall Ratio	0	0.78	2124.21	2435.83
Window Sill Height	1	6	2253.05	2253.05
Window U-Value	0.12	1.22	2246.00	2304.39
Window SHGC	0.08	0.7	2166.90	2374.40
Window VLT	0.06	0.89	2253.05	2253.05
Wall Construction Type	masonry-on-masonry	wood-siding	2251.13	2267.57
Wall U-Value	0.03	0.58	2245.58	2312.46
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2251.53	2254.94
Roof U-Value	0.01	0.2	2243.39	2384.71
Daylighting Control Setpoint	0	0	2253.05	2253.05

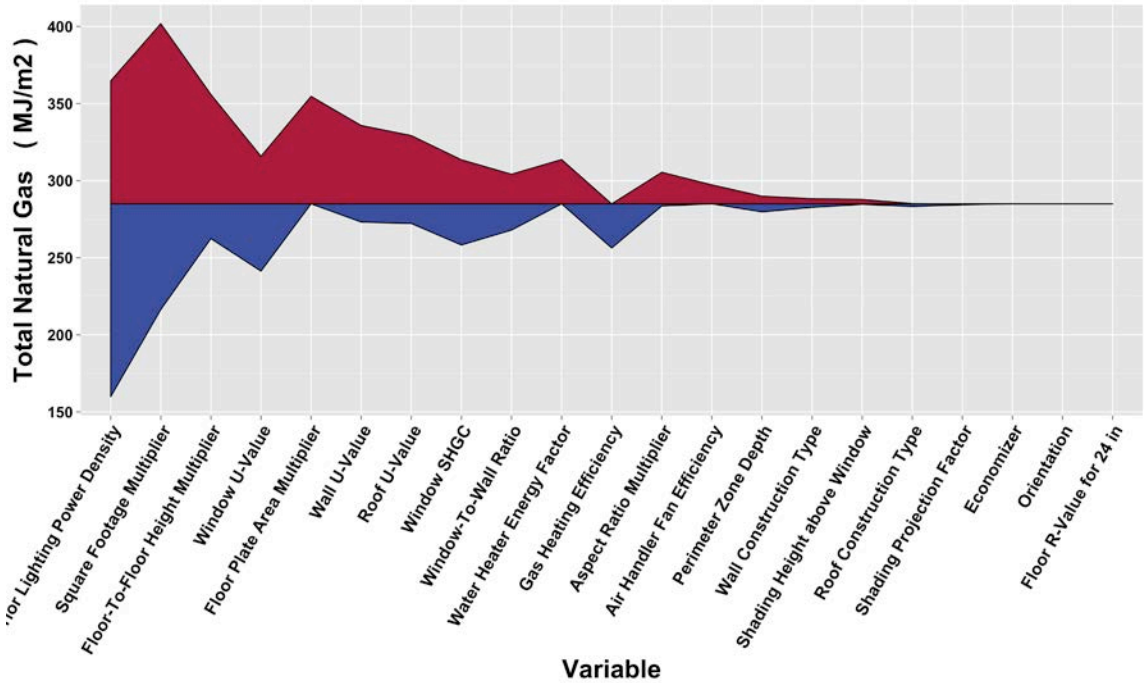
Interior Lighting Power Density	0.62	6.19	1566.70	4395.49
Shading Projection Factor	0	1	2253.05	2256.58
Shading Height above Window	0	2	2238.61	2255.26
District Chiller Cooling Efficiency	0.52	1.48	2253.05	2253.05
Air Handler Fan Efficiency	54.6	61.42	2169.34	2253.05
Packaged DX Cooling Efficiency	2.23	4.37	2174.96	2405.98
Gas Heating Efficiency	1	1.13	2221.99	2253.05
Terminal DX Cooling Efficiency	0.68	1.32	2253.05	2253.05
Terminal Furnace Heating Efficiency	0.87	1.13	2253.05	2253.05
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2253.05	2253.05
Water Heater Energy Factor	1	99	2253.05	2284.21
Economizer	false	true	2011.99	2253.05
Fan Control	cav	false	2253.05	2253.05
Orientation	0	359	2252.93	2253.07



Total Electricity



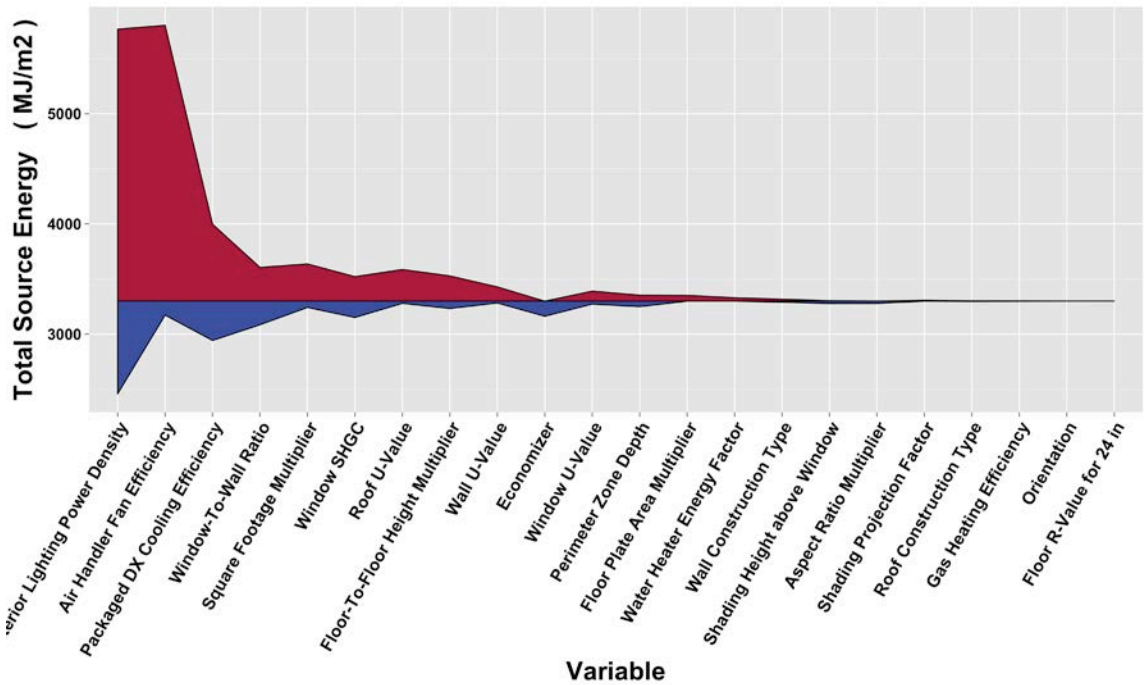
Total Natural Gas



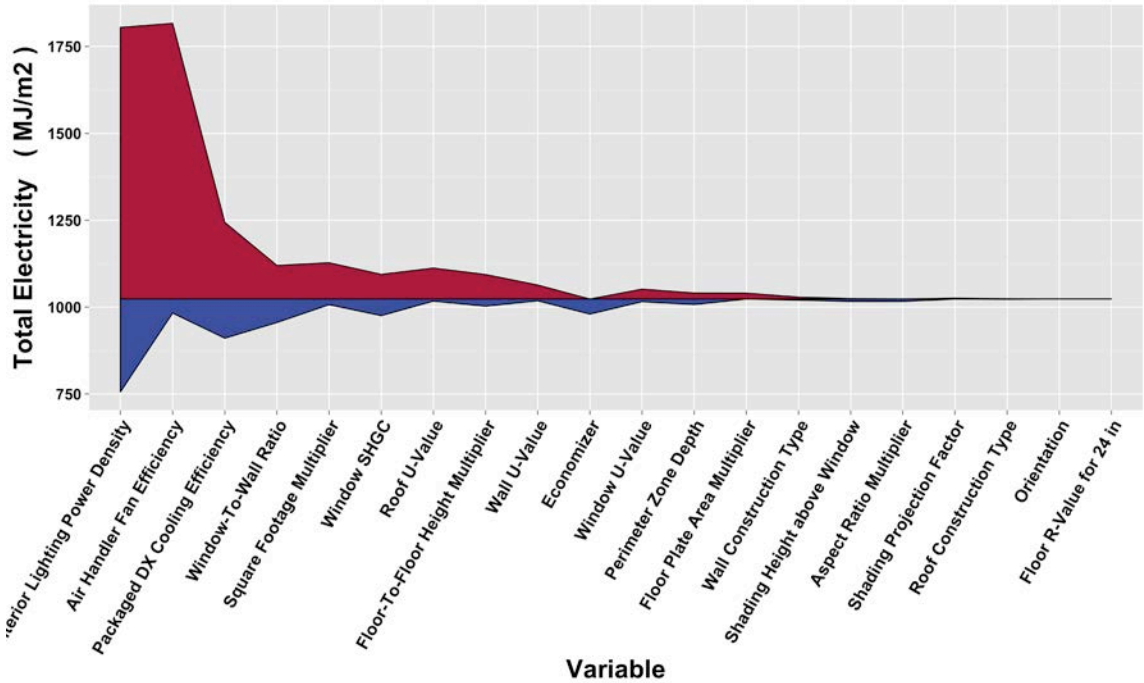
Location: Climate Zone 1B

Total Source Energy

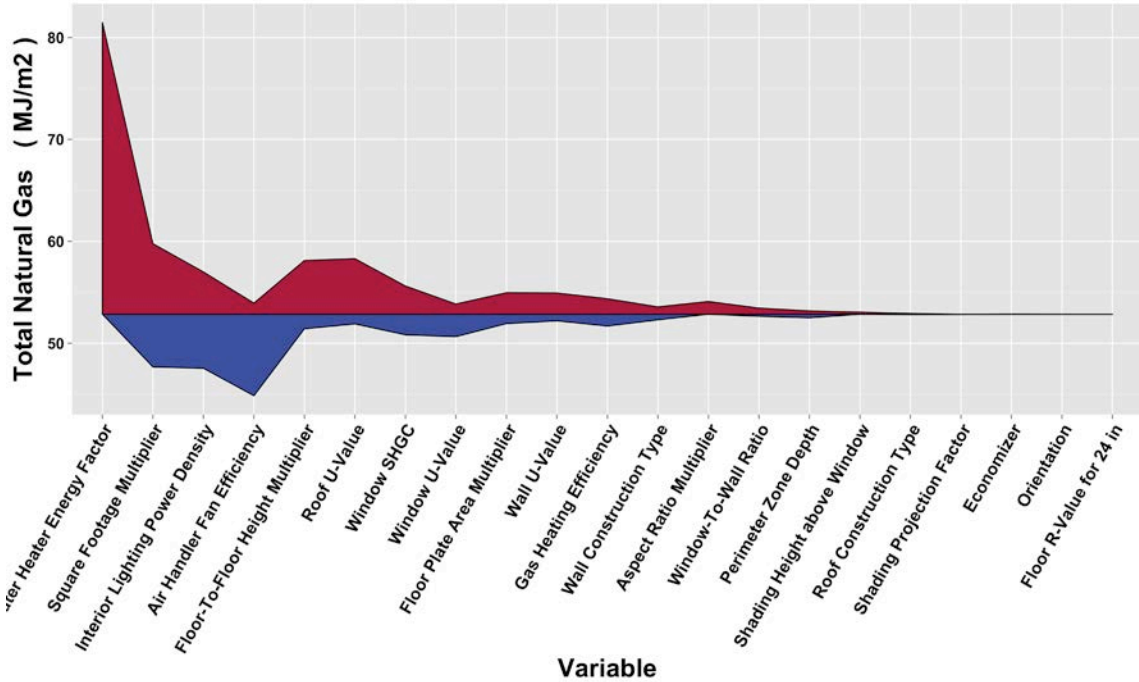
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	3277.70	3297.78
Floor Plate Area Multiplier	12500	50000	3297.78	3350.77
Square Footage Multiplier	15000	150000	3240.62	3635.95
Floor-To-Floor Height Multiplier	12	24	3230.99	3527.04
Perimeter Zone Depth	10	20	3247.99	3352.19
Floor R-Value for 24 in	0	0	3297.78	3297.78
Window-To-Wall Ratio	0	0.78	3083.51	3604.56
Window Sill Height	1	6	3297.78	3297.78
Window U-Value	0.12	1.22	3271.31	3389.19
Window SHGC	0.08	0.7	3149.46	3520.55
Window VLT	0.06	0.89	3297.78	3297.78
Wall Construction Type	masonry-on-masonry	wood-siding	3288.96	3315.65
Wall U-Value	0.03	0.58	3281.17	3427.60
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3295.05	3299.80
Roof U-Value	0.01	0.2	3277.89	3585.69
Daylighting Control Setpoint	0	0	3297.78	3297.78
Interior Lighting Power Density	0.62	6.19	2456.06	5767.95
Shading Projection Factor	0	1	3297.78	3305.94
Shading Height above Window	0	2	3276.56	3301.84
District Chiller Cooling Efficiency	0.52	1.48	3297.78	3297.78
Air Handler Fan Efficiency	17.06	61.42	3170.99	5802.09
Packaged DX Cooling Efficiency	2.23	4.37	2940.73	3997.00
Gas Heating Efficiency	0.87	1.13	3296.52	3299.43
Terminal DX Cooling Efficiency	0.68	1.32	3297.78	3297.78
Terminal Furnace Heating Efficiency	0.87	1.13	3297.78	3297.78
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3297.78	3297.78
Water Heater Energy Factor	1	99	3297.78	3328.79
Economizer	false	true	3160.51	3297.78
Fan Control	cav	false	3297.78	3297.78
Orientation	0	359	3297.71	3297.78



Total Electricity



Total Natural Gas

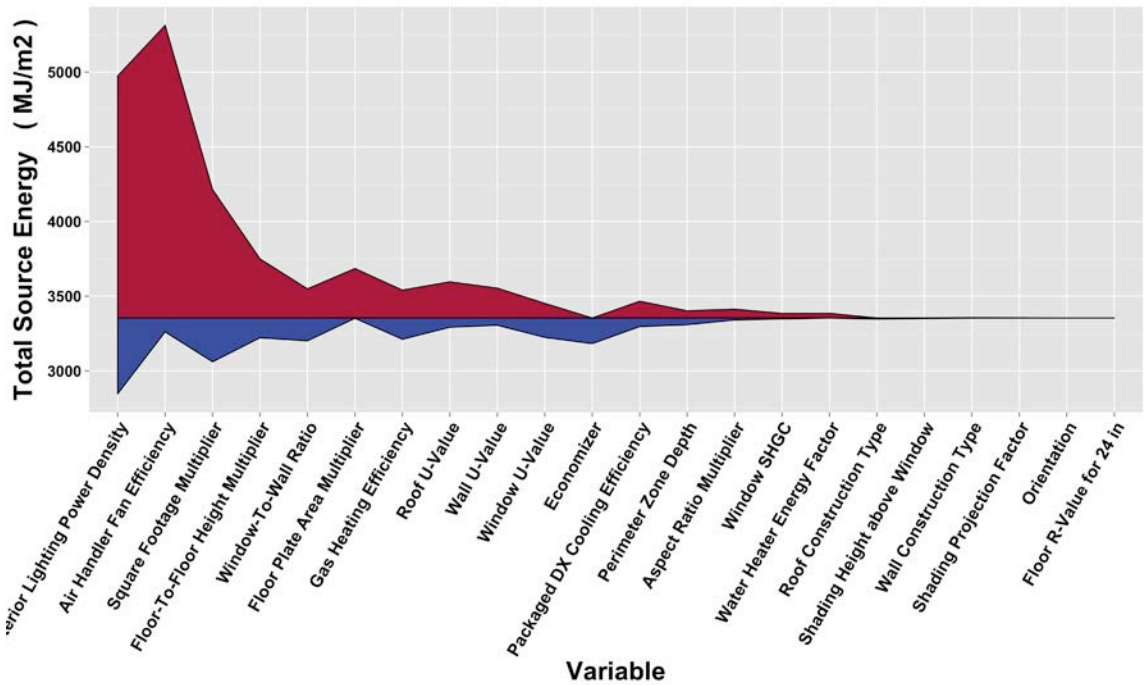


Location: Climate Zone 2A

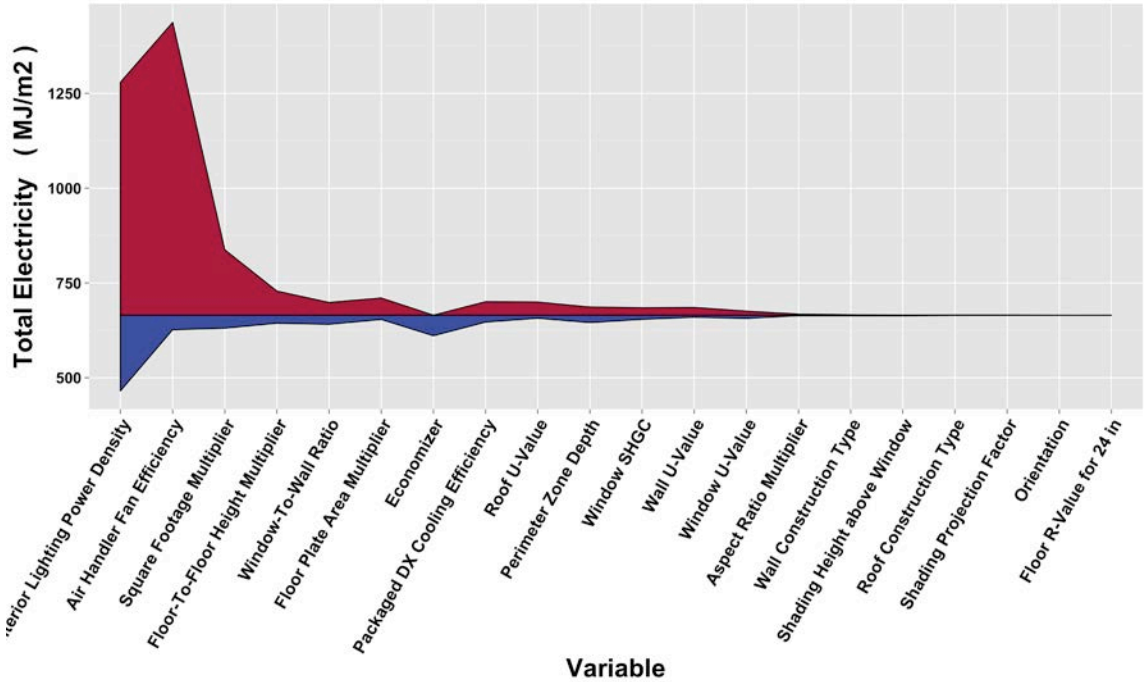
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	3340.65	3413.09
Floor Plate Area Multiplier	12500	50000	3351.85	3685.30
Square Footage Multiplier	15000	150000	3060.46	4213.67
Floor-To-Floor Height Multiplier	12	24	3221.77	3749.62
Perimeter Zone Depth	10	20	3308.95	3402.16
Floor R-Value for 24 in	0	0	3353.90	3353.90
Window-To-Wall Ratio	0	0.78	3200.86	3549.14
Window Sill Height	1	6	3353.90	3353.90
Window U-Value	0.12	1.22	3224.20	3452.02
Window SHGC	0.08	0.7	3347.63	3384.83
Window VLT	0.06	0.89	3353.90	3353.90
Wall Construction Type	masonry-on-masonry	wood-siding	3353.16	3355.96
Wall U-Value	0.03	0.58	3305.17	3553.73
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3346.71	3353.90
Roof U-Value	0.01	0.2	3292.20	3595.92
Daylighting Control Setpoint	0	0	3353.90	3353.90
Interior Lighting Power Density	0.62	6.19	2846.12	4974.03
Shading Projection Factor	0	1	3353.90	3355.32

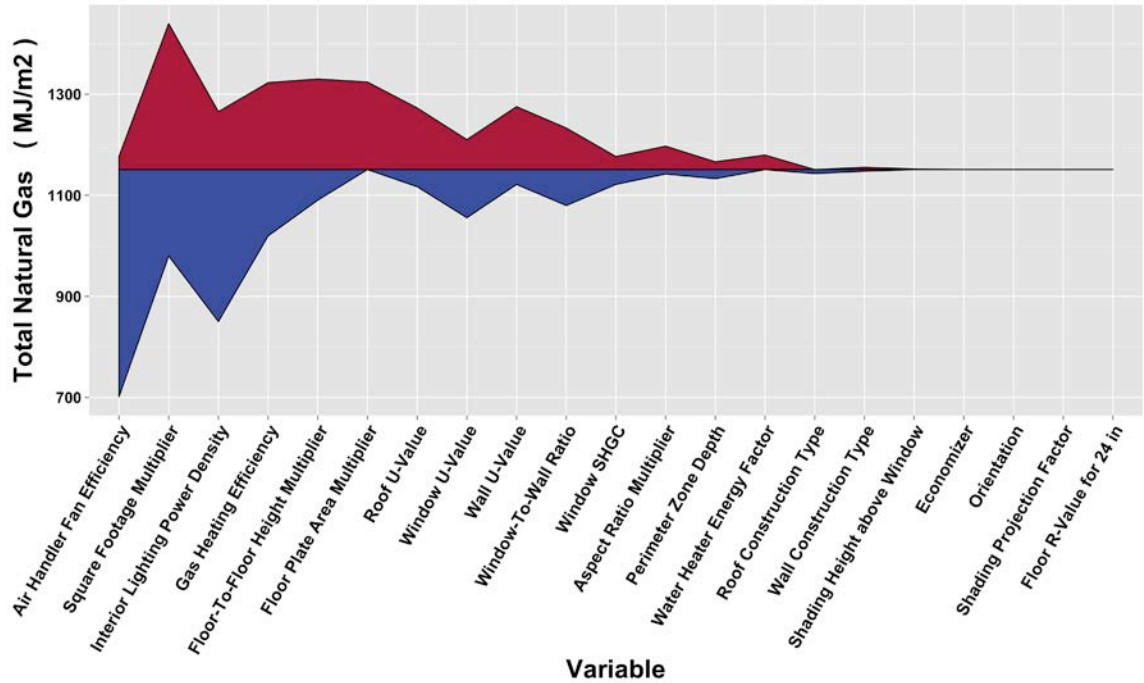
Shading Height above Window	0	2	3351.11	3354.42
District Chiller Cooling Efficiency	0.52	1.48	3353.90	3353.90
Air Handler Fan Efficiency	17.06	61.42	3260.97	5312.33
Packaged DX Cooling Efficiency	2.23	4.37	3296.40	3466.49
Gas Heating Efficiency	0.87	1.13	3211.56	3540.47
Terminal DX Cooling Efficiency	0.68	1.32	3353.90	3353.90
Terminal Furnace Heating Efficiency	0.87	1.13	3353.90	3353.90
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3353.90	3353.90
Water Heater Energy Factor	1	99	3353.90	3385.13
Economizer	false	true	3182.36	3353.90
Fan Control	cav	false	3353.90	3353.90
Orientation	0	359	3353.89	3353.95



Total Electricity



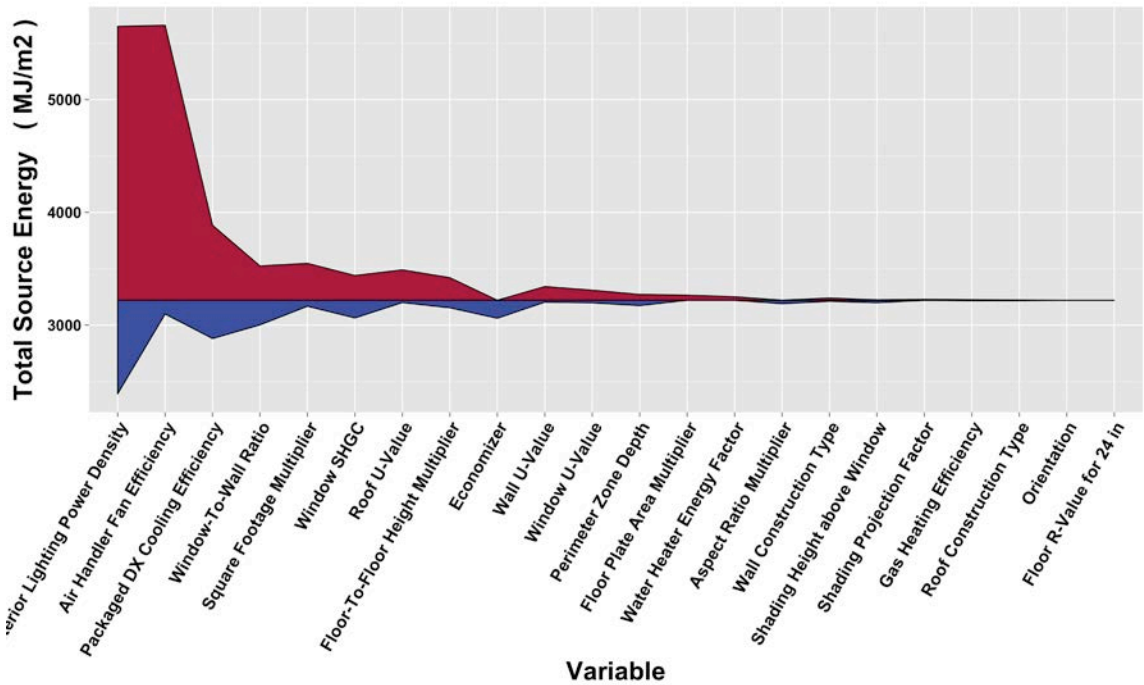
Total Natural Gas



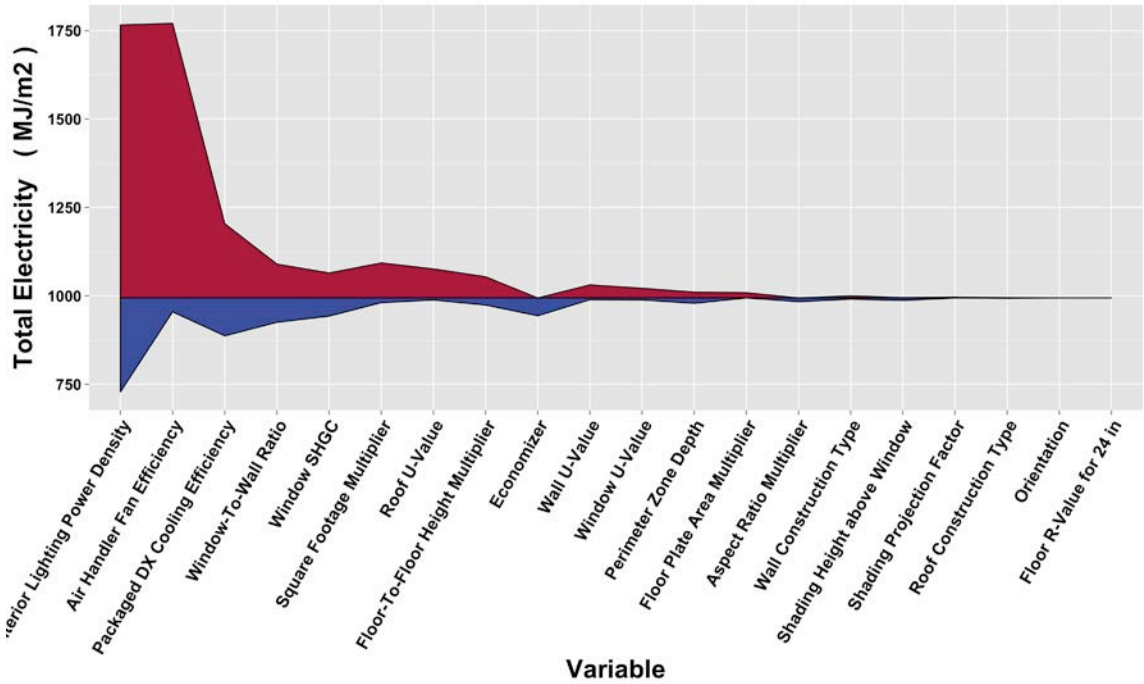
Location: Climate Zone 2B

Total Source Energy

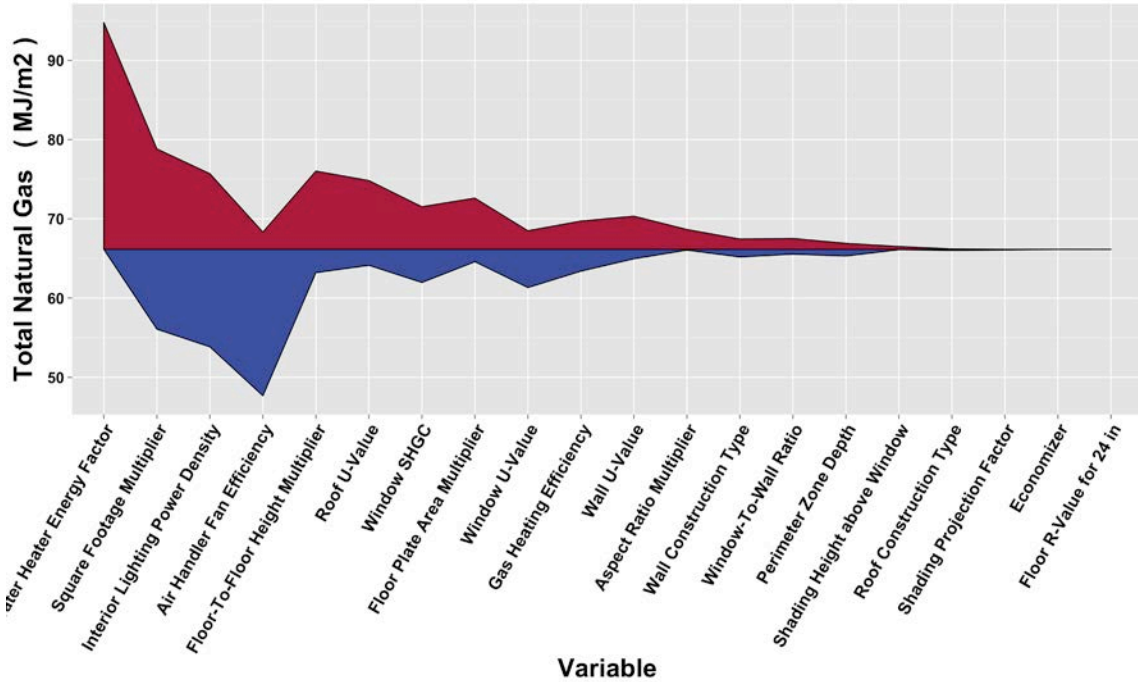
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	3189.25	3219.72
Floor Plate Area Multiplier	12500	50000	3219.72	3264.76
Square Footage Multiplier	15000	150000	3166.49	3546.85
Floor-To-Floor Height Multiplier	12	24	3153.12	3420.03
Perimeter Zone Depth	10	20	3172.14	3271.00
Floor R-Value for 24 in	0	0	3219.72	3219.72
Window-To-Wall Ratio	0	0.78	3001.22	3524.19
Window Sill Height	1	6	3219.72	3219.72
Window U-Value	0.12	1.22	3197.11	3308.83
Window SHGC	0.08	0.7	3062.67	3438.79
Window VLT	0.06	0.89	3219.72	3219.72
Wall Construction Type	masonry-on-masonry	wood-siding	3210.52	3239.11
Wall U-Value	0.03	0.58	3202.71	3341.14
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3217.07	3221.60
Roof U-Value	0.01	0.2	3199.31	3489.06
Daylighting Control Setpoint	0	0	3219.72	3219.72
Interior Lighting Power Density	0.62	6.19	2389.15	5650.05
Shading Projection Factor	0	1	3219.72	3227.34
Shading Height above Window	0	2	3197.80	3222.89
District Chiller Cooling Efficiency	0.52	1.48	3219.72	3219.72
Air Handler Fan Efficiency	17.06	61.42	3097.55	5658.17
Packaged DX Cooling Efficiency	2.23	4.37	2880.05	3884.89
Gas Heating Efficiency	0.87	1.13	3216.75	3223.60
Terminal DX Cooling Efficiency	0.68	1.32	3219.72	3219.72
Terminal Furnace Heating Efficiency	0.87	1.13	3219.72	3219.72
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3219.72	3219.72
Water Heater Energy Factor	1	99	3219.72	3250.74
Economizer	false	true	3059.89	3219.72
Fan Control	cav	false	3219.72	3219.72
Orientation	0	180	3219.68	3219.72



Total Electricity



Total Natural Gas

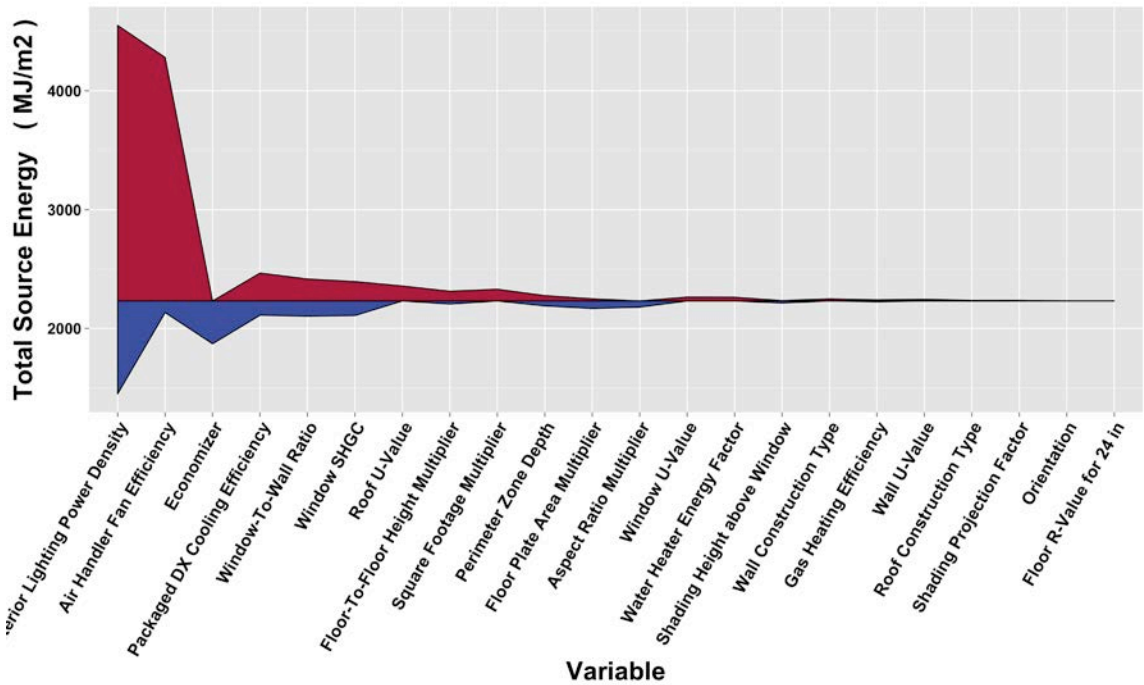


Location: Climate Zone 3A

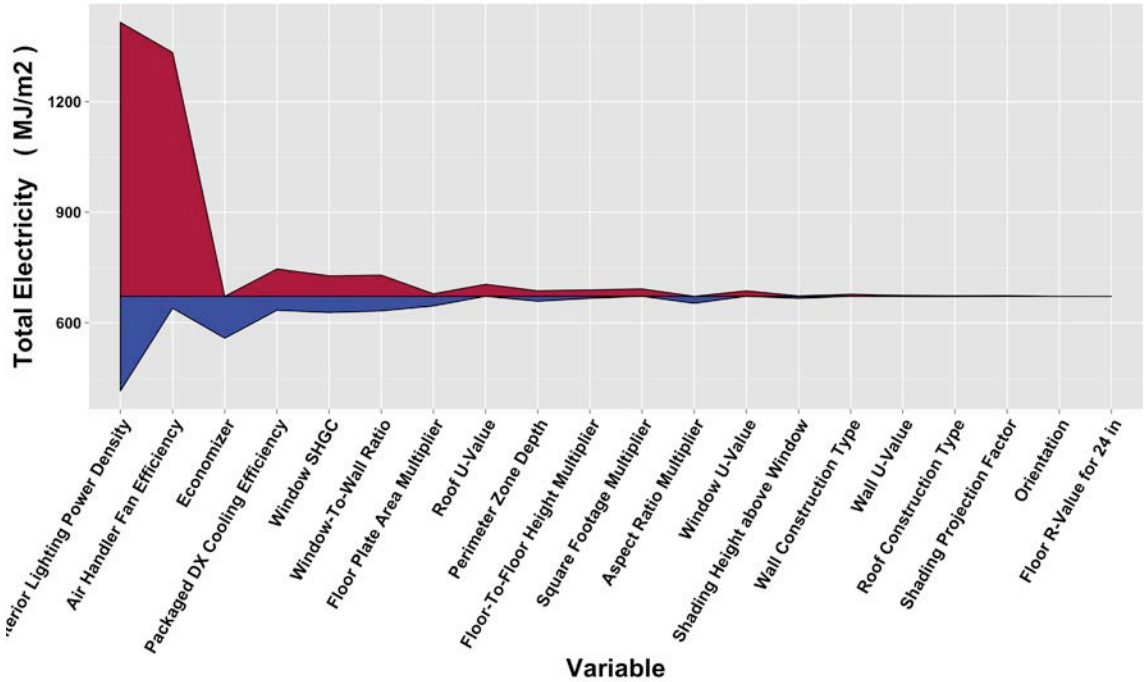
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2179.77	2231.40
Floor Plate Area Multiplier	12500	50000	2168.68	2249.55
Square Footage Multiplier	15000	150000	2231.40	2329.72
Floor-To-Floor Height Multiplier	12	24	2205.77	2313.00
Perimeter Zone Depth	10	20	2190.15	2276.31
Floor R-Value for 24 in	0	0	2231.40	2231.40
Window-To-Wall Ratio	0	0.78	2104.41	2416.12
Window Sill Height	1	6	2231.40	2231.40
Window U-Value	0.12	1.22	2231.40	2263.87
Window SHGC	0.08	0.7	2108.91	2394.55
Window VLT	0.06	0.89	2231.40	2231.40
Wall Construction Type	masonry-on-masonry	wood-siding	2231.40	2249.30
Wall U-Value	0.03	0.58	2231.40	2245.23
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2229.71	2235.96
Roof U-Value	0.01	0.2	2231.31	2357.30
Daylighting Control Setpoint	0	0	2231.40	2231.40
Interior Lighting Power Density	0.62	6.19	1449.46	4551.12
Shading Projection Factor	0	1	2231.40	2236.47

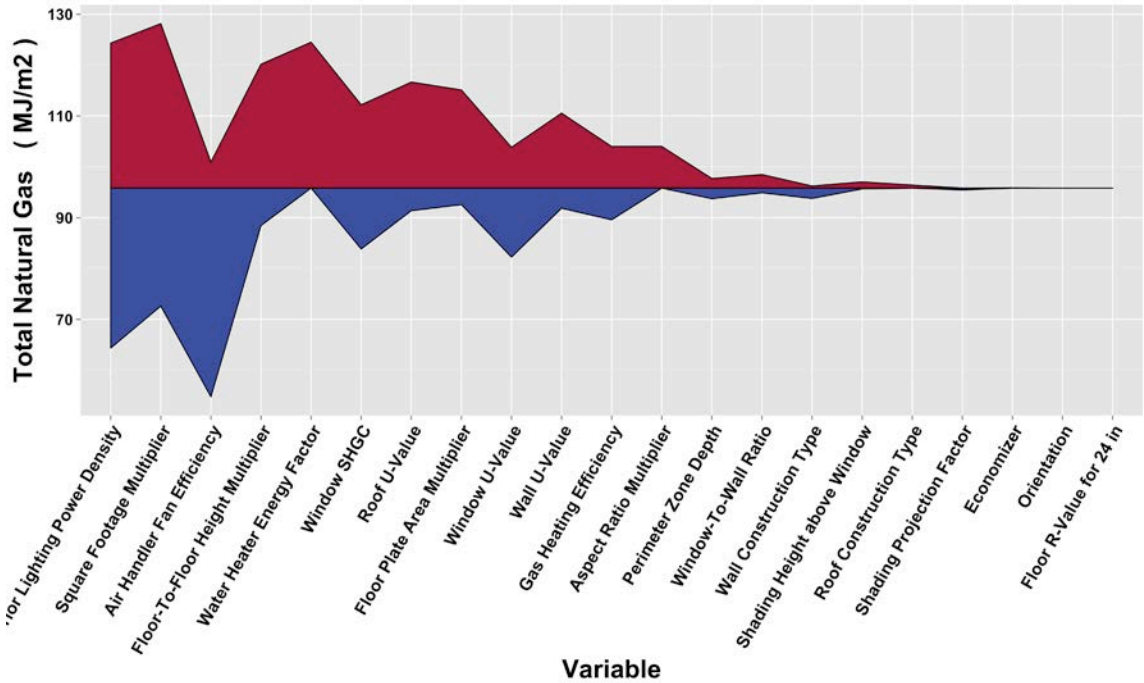
Shading Height above Window	0	2	2214.31	2234.32
District Chiller Cooling Efficiency	0.52	1.48	2231.40	2231.40
Air Handler Fan Efficiency	17.06	61.42	2133.95	4281.52
Packaged DX Cooling Efficiency	2.23	4.37	2111.35	2466.50
Gas Heating Efficiency	0.87	1.13	2224.64	2240.27
Terminal DX Cooling Efficiency	0.68	1.32	2231.40	2231.40
Terminal Furnace Heating Efficiency	0.87	1.13	2231.40	2231.40
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2231.40	2231.40
Water Heater Energy Factor	1	99	2231.40	2262.51
Economizer	false	true	1870.86	2231.40
Fan Control	cav	false	2231.40	2231.40
Orientation	0	359	2231.28	2231.40



Total Electricity



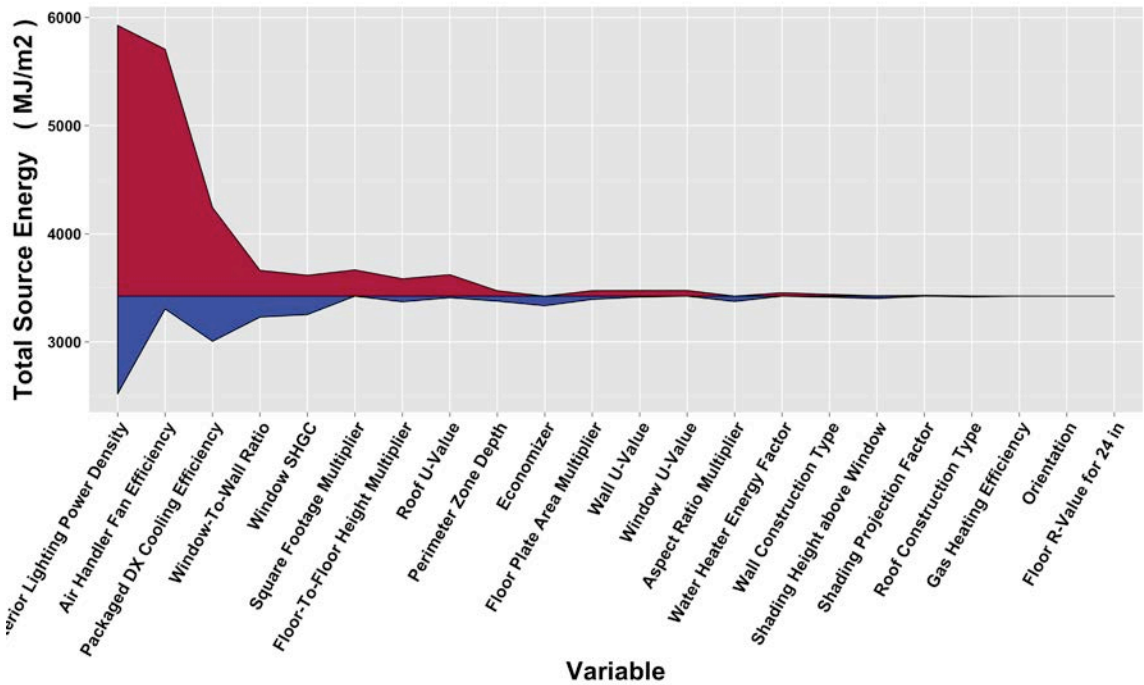
Total Natural Gas



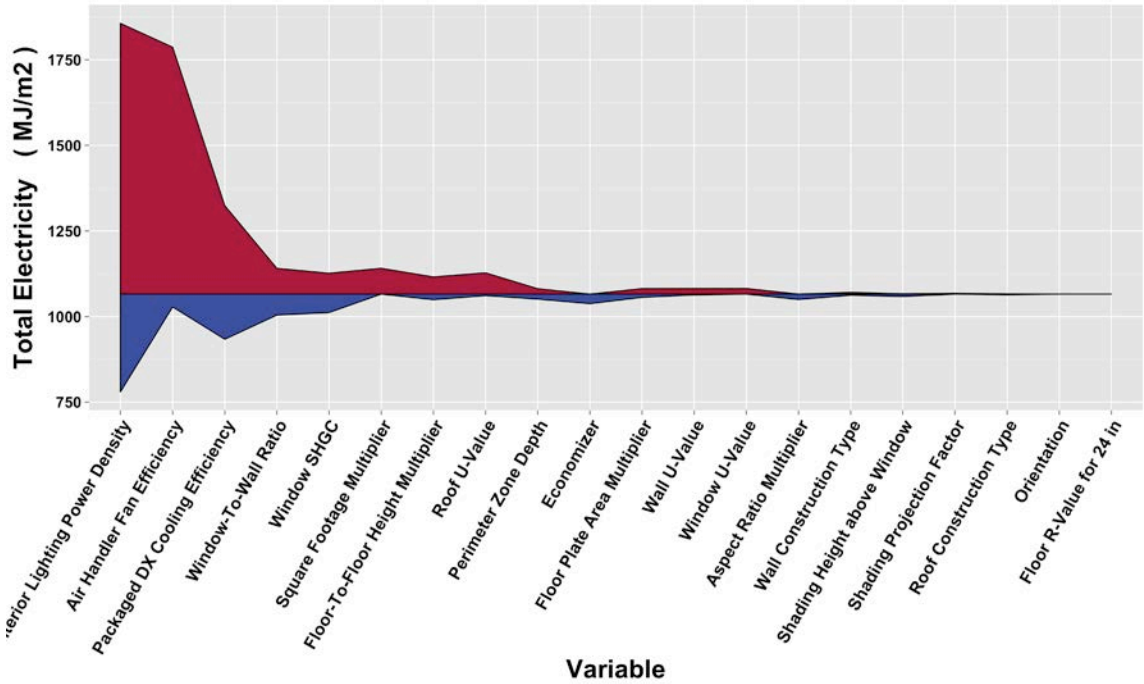
Location: Climate Zone 3B

Total Source Energy

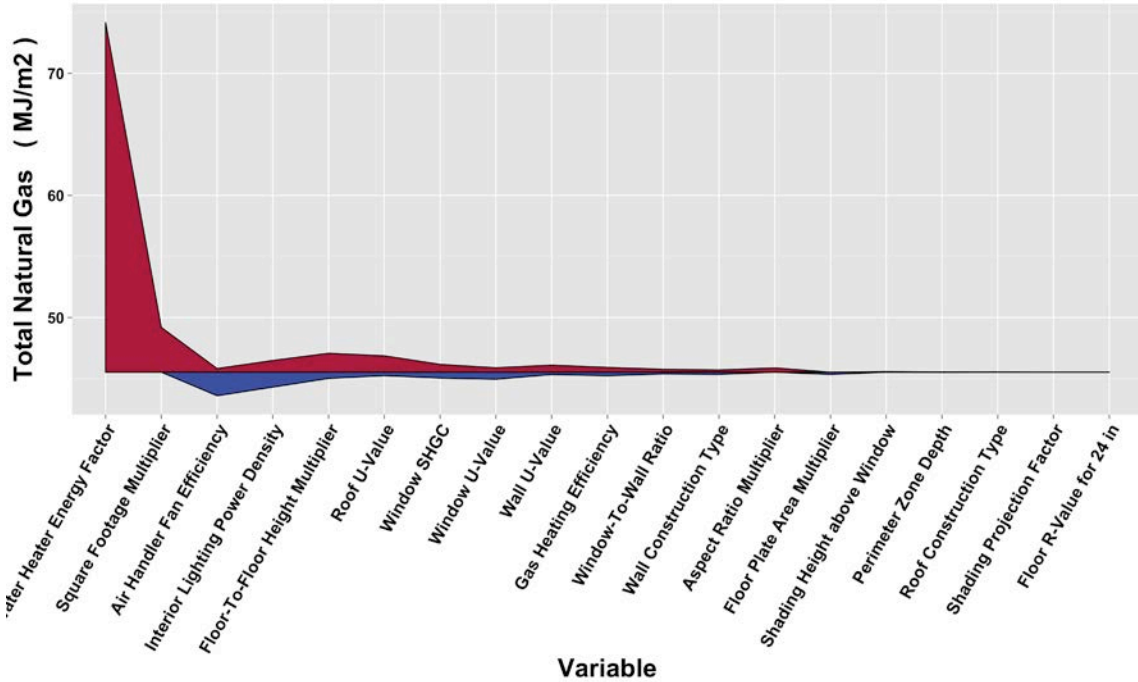
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	3374.10	3423.91
Floor Plate Area Multiplier	12500	50000	3393.81	3474.40
Square Footage Multiplier	15000	50000	3423.91	3666.46
Floor-To-Floor Height Multiplier	12	24	3371.43	3584.35
Perimeter Zone Depth	10	20	3377.66	3473.67
Floor R-Value for 24 in	0	0	3423.91	3423.91
Window-To-Wall Ratio	0	0.78	3230.04	3662.17
Window Sill Height	1	6	3423.91	3423.91
Window U-Value	0.12	1.22	3423.91	3476.21
Window SHGC	0.08	0.7	3253.92	3616.28
Window VLT	0.06	0.89	3423.91	3423.91
Wall Construction Type	masonry-on-masonry	wood-siding	3413.66	3439.83
Wall U-Value	0.03	0.58	3416.27	3476.19
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3418.14	3425.28
Roof U-Value	0.01	0.2	3409.74	3622.16
Daylighting Control Setpoint	0	0	3423.91	3423.91
Interior Lighting Power Density	0.62	6.19	2520.60	5926.84
Shading Projection Factor	0	1	3423.91	3431.40
Shading Height above Window	0	2	3402.15	3427.01
District Chiller Cooling Efficiency	0.52	1.48	3423.91	3423.91
Air Handler Fan Efficiency	17.06	61.42	3305.54	5706.15
Packaged DX Cooling Efficiency	2.23	4.37	3006.16	4242.01
Gas Heating Efficiency	0.87	1.13	3423.59	3424.33
Terminal DX Cooling Efficiency	0.68	1.32	3423.91	3423.91
Terminal Furnace Heating Efficiency	0.87	1.13	3423.91	3423.91
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3423.91	3423.91
Water Heater Energy Factor	1	99	3423.91	3454.93
Economizer	false	true	3335.40	3423.91
Fan Control	cav	false	3423.91	3423.91
Orientation	0	359	3423.78	3423.91



Total Electricity



Total Natural Gas

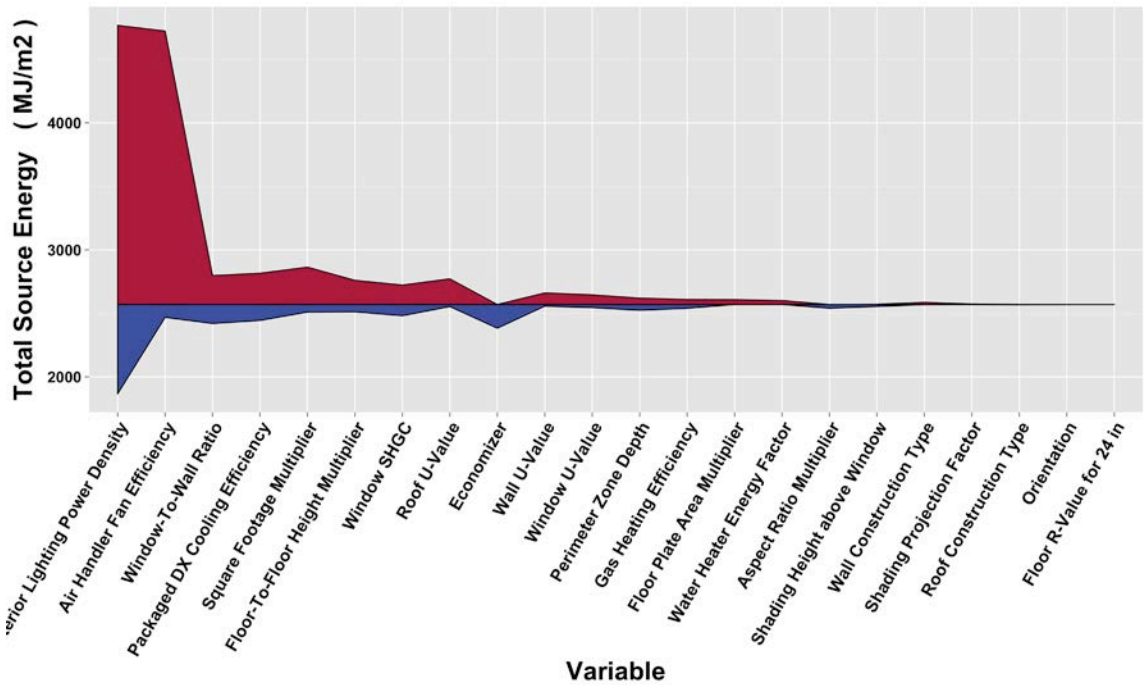


Location: Climate Zone 3C

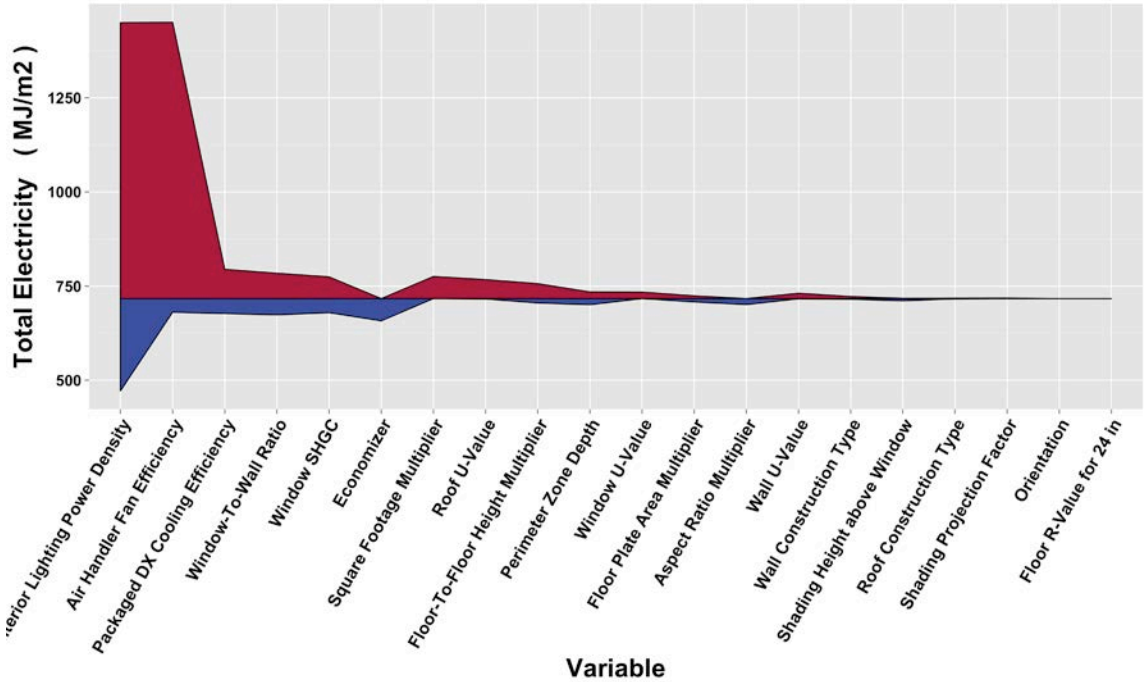
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2540.42	2570.22
Floor Plate Area Multiplier	12500	50000	2570.22	2607.97
Square Footage Multiplier	15000	150000	2510.45	2864.27
Floor-To-Floor Height Multiplier	12	24	2512.43	2760.53
Perimeter Zone Depth	10	20	2524.48	2620.01
Floor R-Value for 24 in	0	0	2570.22	2570.22
Window-To-Wall Ratio	0	0.78	2420.29	2797.54
Window Sill Height	1	6	2570.22	2570.22
Window U-Value	0.12	1.22	2545.45	2646.07
Window SHGC	0.08	0.7	2481.65	2723.04
Window VLT	0.7	0.89	2570.22	2570.22
Wall Construction Type	masonry-on-masonry	wood-siding	2569.14	2586.87
Wall U-Value	0.03	0.58	2556.95	2661.21
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2568.04	2571.45
Roof U-Value	0.01	0.2	2553.72	2772.34
Daylighting Control Setpoint	0	0	2570.22	2570.22
Interior Lighting Power Density	0.62	6.19	1866.54	4767.62
Shading Projection Factor	0	1	2570.22	2573.86

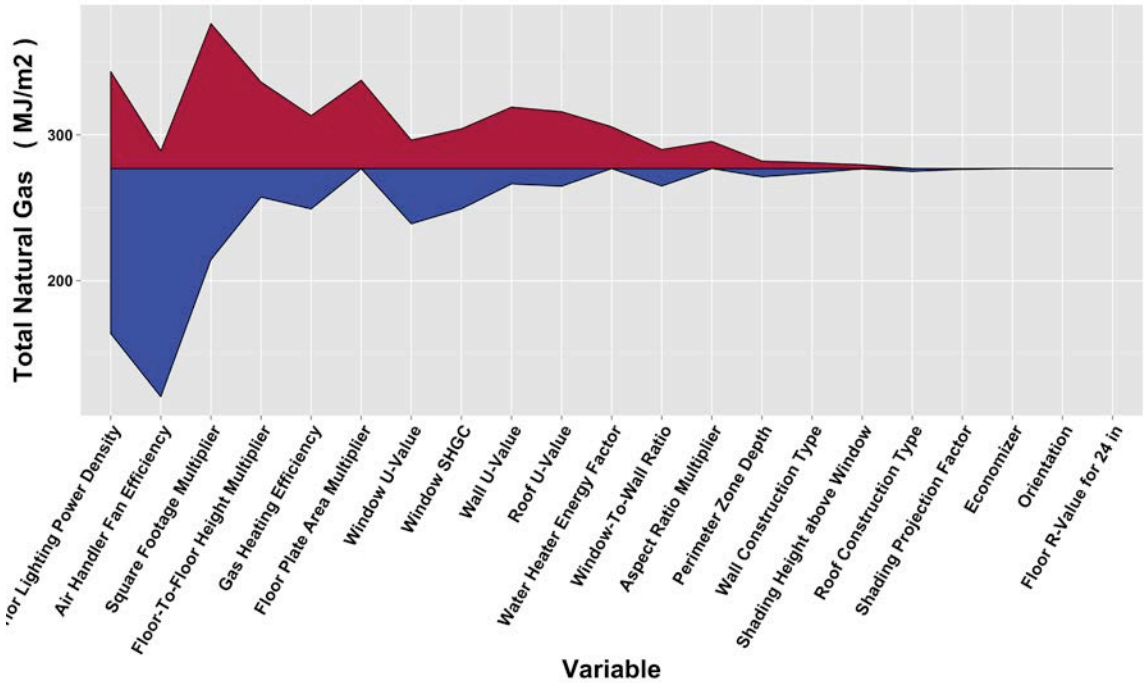
Shading Height above Window	0	2	2554.40	2572.21
District Chiller Cooling Efficiency	0.52	1.48	2570.22	2570.22
Air Handler Fan Efficiency	17.06	61.42	2468.78	4723.17
Packaged DX Cooling Efficiency	2.23	4.37	2444.58	2816.27
Gas Heating Efficiency	0.87	1.13	2540.19	2609.58
Terminal DX Cooling Efficiency	0.68	1.32	2570.22	2570.22
Terminal Furnace Heating Efficiency	0.87	1.13	2570.22	2570.22
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2570.22	2570.22
Water Heater Energy Factor	1	99	2570.22	2601.35
Economizer	false	true	2383.28	2570.22
Fan Control	cav	false	2570.22	2570.22
Orientation	0	359	2570.15	2570.24



Total Electricity



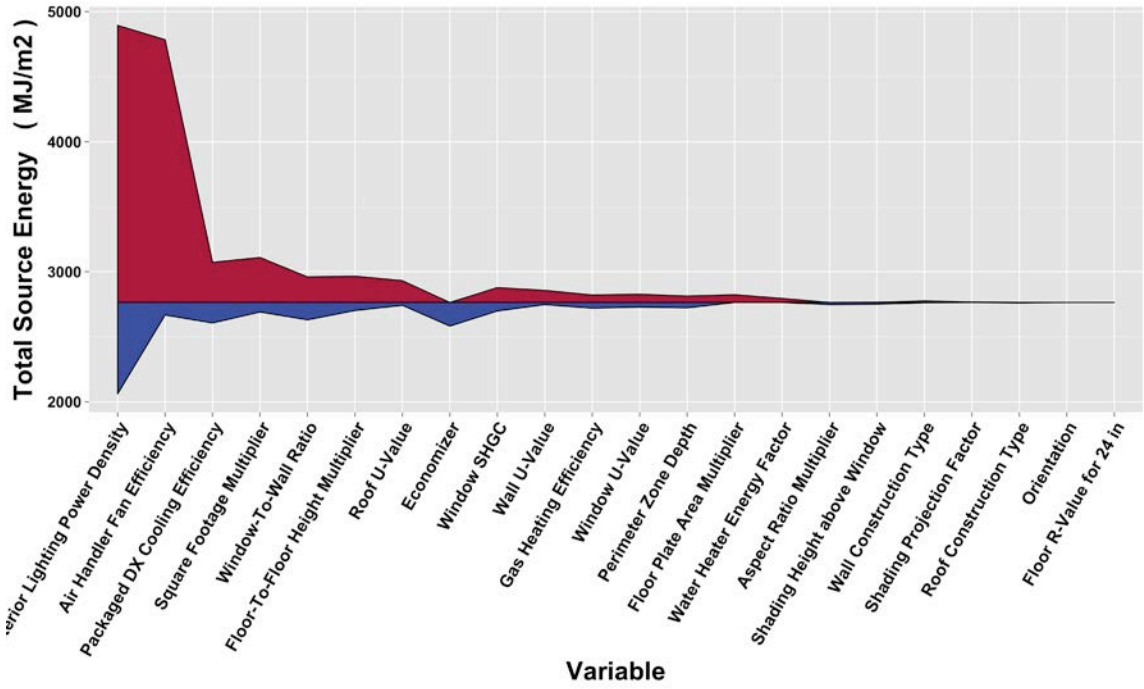
Total Natural Gas



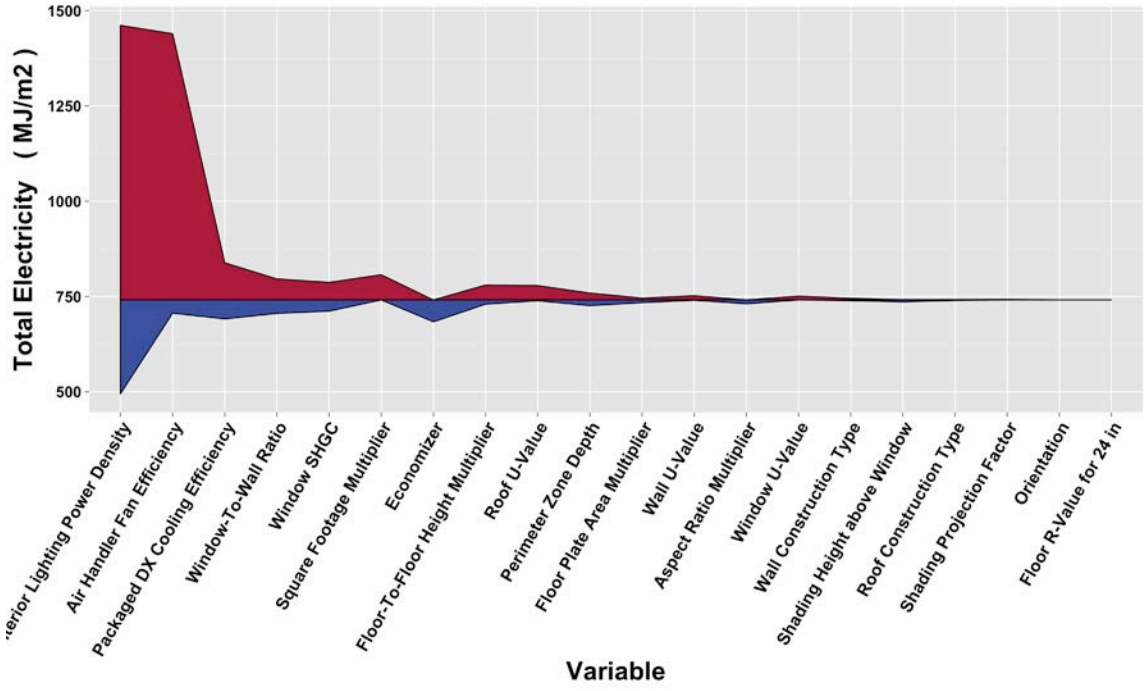
Location: Climate Zone 4A

Total Source Energy

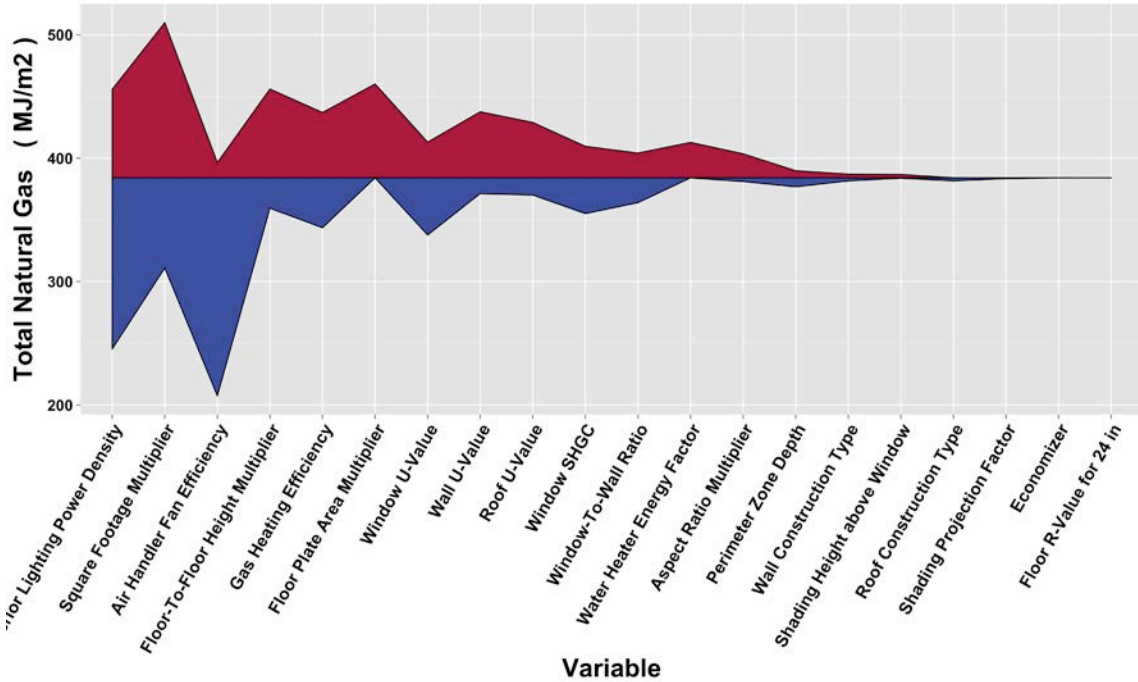
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2747.65	2763.12
Floor Plate Area Multiplier	12500	50000	2763.12	2822.98
Square Footage Multiplier	15000	150000	2689.87	3109.18
Floor-To-Floor Height Multiplier	12	24	2701.09	2965.39
Perimeter Zone Depth	10	20	2721.92	2812.35
Floor R-Value for 24 in	0	0	2763.12	2763.12
Window-To-Wall Ratio	0	0.78	2629.49	2959.77
Window Sill Height	1	6	2763.12	2763.12
Window U-Value	0.12	1.22	2727.82	2826.43
Window SHGC	0.08	0.7	2697.59	2877.44
Window VLT	0.06	0.89	2763.12	2763.12
Wall Construction Type	masonry-on-masonry	wood-siding	2760.82	2774.89
Wall U-Value	0.03	0.58	2746.75	2856.24
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2759.68	2763.12
Roof U-Value	0.01	0.2	2741.22	2930.92
Daylighting Control Setpoint	0	0	2763.12	2763.12
Interior Lighting Power Density	0.62	6.19	2060.24	4894.56
Shading Projection Factor	0	1	2763.12	2767.00
Shading Height above Window	0	2	2750.17	2765.01
District Chiller Cooling Efficiency	0.52	1.48	2763.12	2763.12
Air Handler Fan Efficiency	17.06	61.42	2666.57	4784.53
Packaged DX Cooling Efficiency	2.23	4.37	2605.39	3072.02
Gas Heating Efficiency	0.87	1.13	2719.32	2820.54
Terminal DX Cooling Efficiency	0.68	1.32	2763.12	2763.12
Terminal Furnace Heating Efficiency	0.87	1.13	2763.12	2763.12
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2763.12	2763.12
Water Heater Energy Factor	1	80	2763.12	2794.26
Economizer	false	true	2581.26	2763.12
Fan Control	cav	false	2763.12	2763.12
Orientation	0	359	2763.01	2763.12



Total Electricity



Total Natural Gas

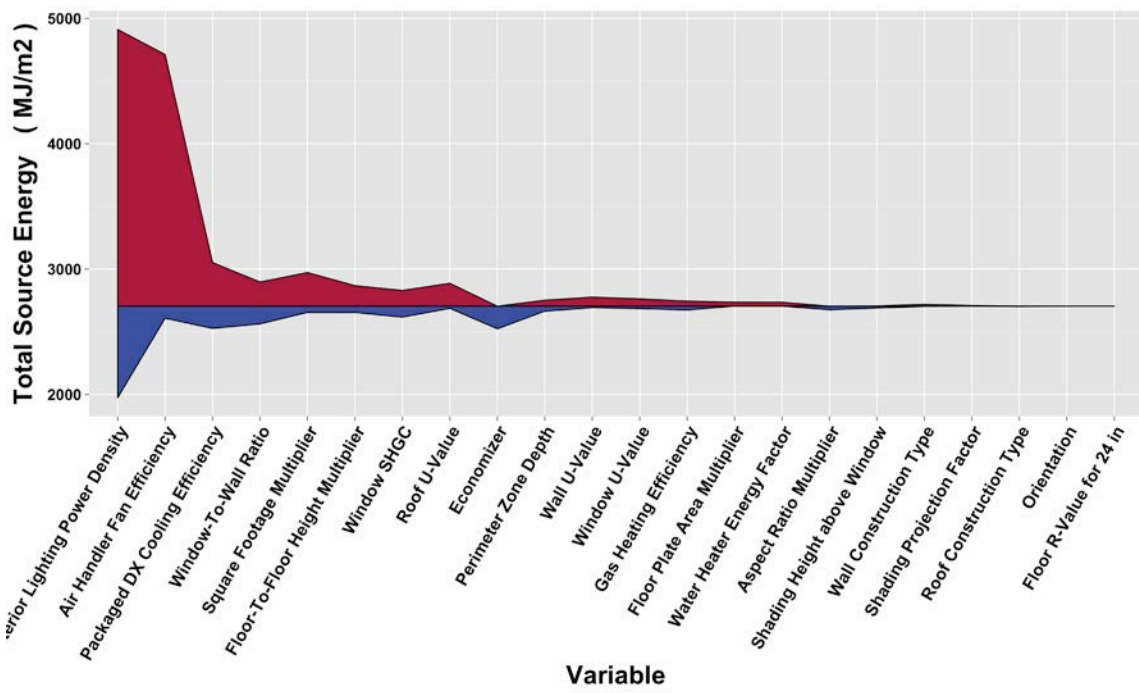


Location: Climate Zone 4B

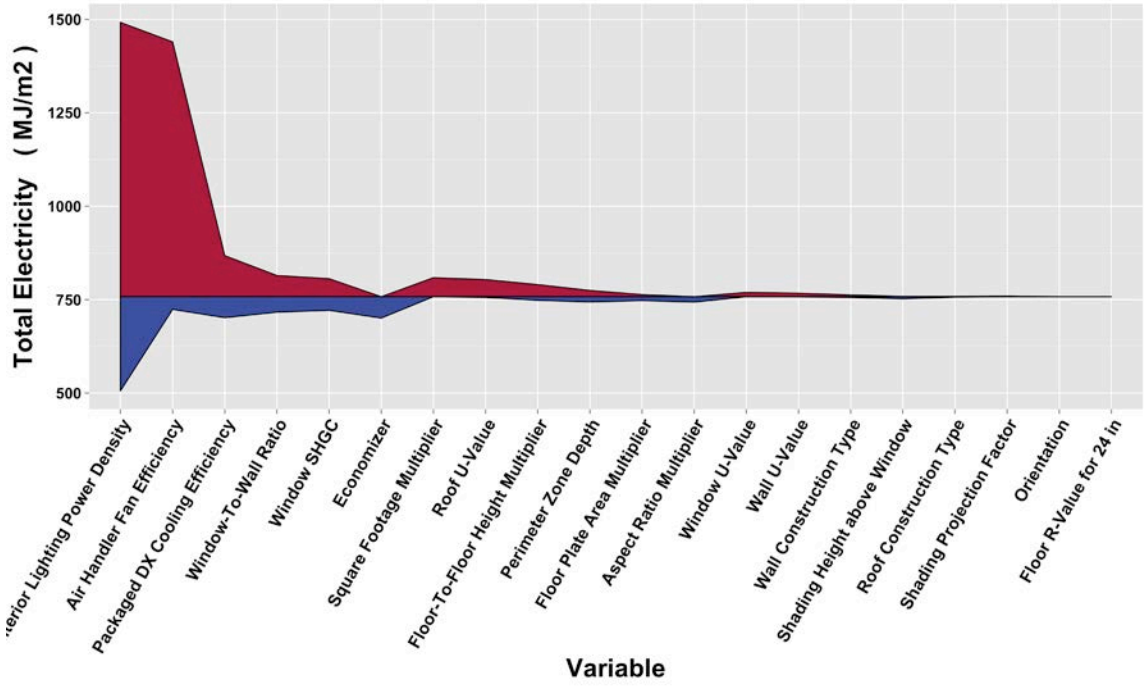
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2675.29	2704.05
Floor Plate Area Multiplier	12500	50000	2704.05	2736.27
Square Footage Multiplier	15000	150000	2653.92	2972.36
Floor-To-Floor Height Multiplier	12	24	2653.55	2867.74
Perimeter Zone Depth	10	20	2663.93	2751.56
Floor R-Value for 24 in	0	0	2704.05	2704.05
Window-To-Wall Ratio	0	0.78	2562.48	2896.88
Window Sill Height	1	6	2704.05	2704.05
Window U-Value	0.12	1.22	2684.60	2762.54
Window SHGC	0.08	0.7	2616.10	2829.54
Window VLT	0.06	0.89	2704.05	2704.05
Wall Construction Type	masonry-on-masonry	wood-siding	2701.72	2718.52
Wall U-Value	0.03	0.58	2692.11	2775.86
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2700.82	2704.93
Roof U-Value	0.01	0.2	2686.52	2886.73
Daylighting Control Setpoint	0	0	2704.05	2704.05
Interior Lighting Power Density	0.62	6.19	1972.27	4912.59
Shading Projection Factor	0	1	2704.05	2709.34

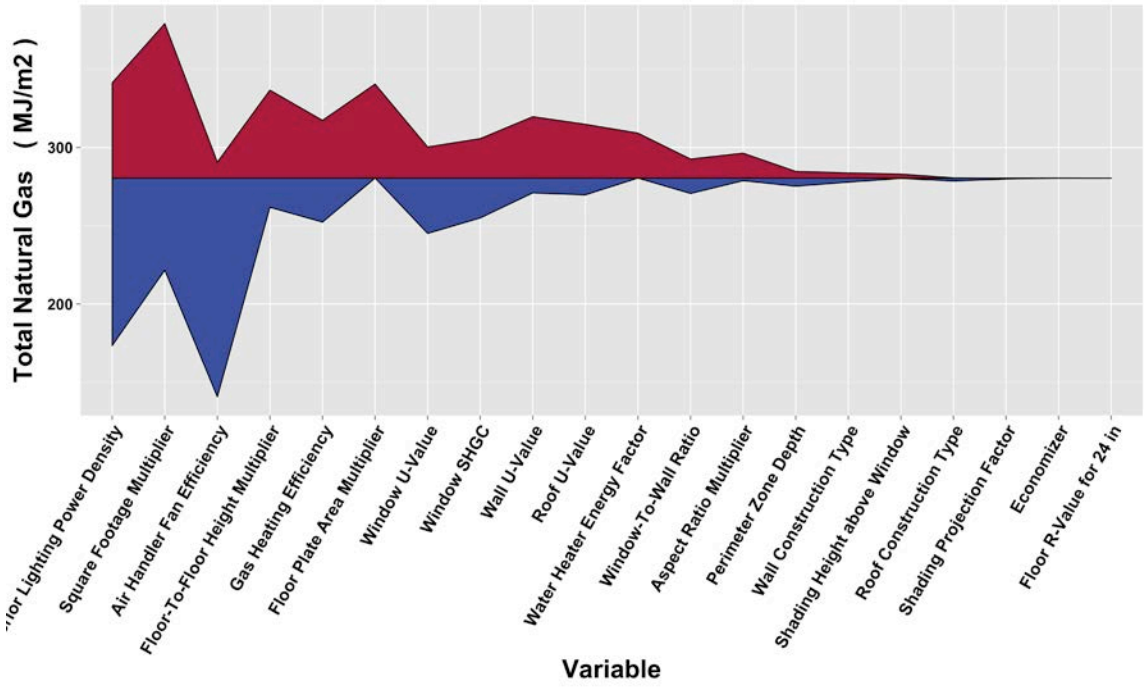
Shading Height above Window	0	2	2689.27	2706.51
District Chiller Cooling Efficiency	0.52	1.48	2704.05	2704.05
Air Handler Fan Efficiency	17.06	61.42	2607.38	4712.10
Packaged DX Cooling Efficiency	2.23	4.37	2526.32	3052.12
Gas Heating Efficiency	0.87	1.13	2673.57	2744.01
Terminal DX Cooling Efficiency	0.68	1.32	2704.05	2704.05
Terminal Furnace Heating Efficiency	0.87	1.13	2704.05	2704.05
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2704.05	2704.05
Water Heater Energy Factor	1	99	2704.05	2735.18
Economizer	false	true	2522.94	2704.05
Fan Control	cav	false	2704.05	2704.05
Orientation	0	359	2703.96	2704.05



Total Electricity



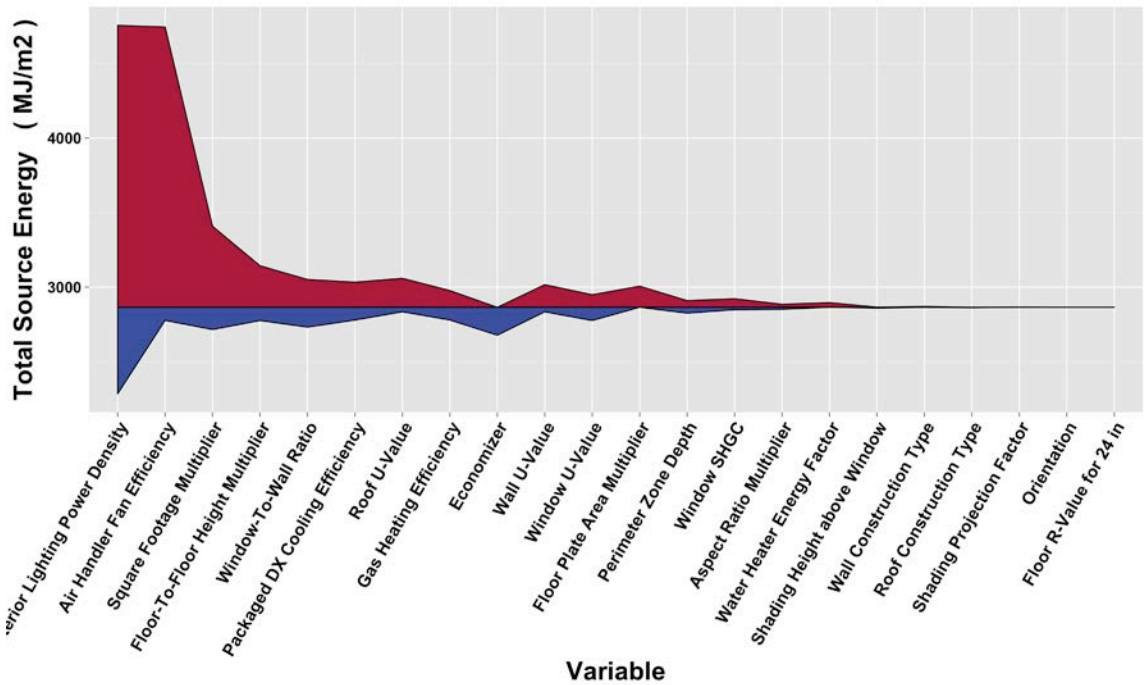
Total Natural Gas



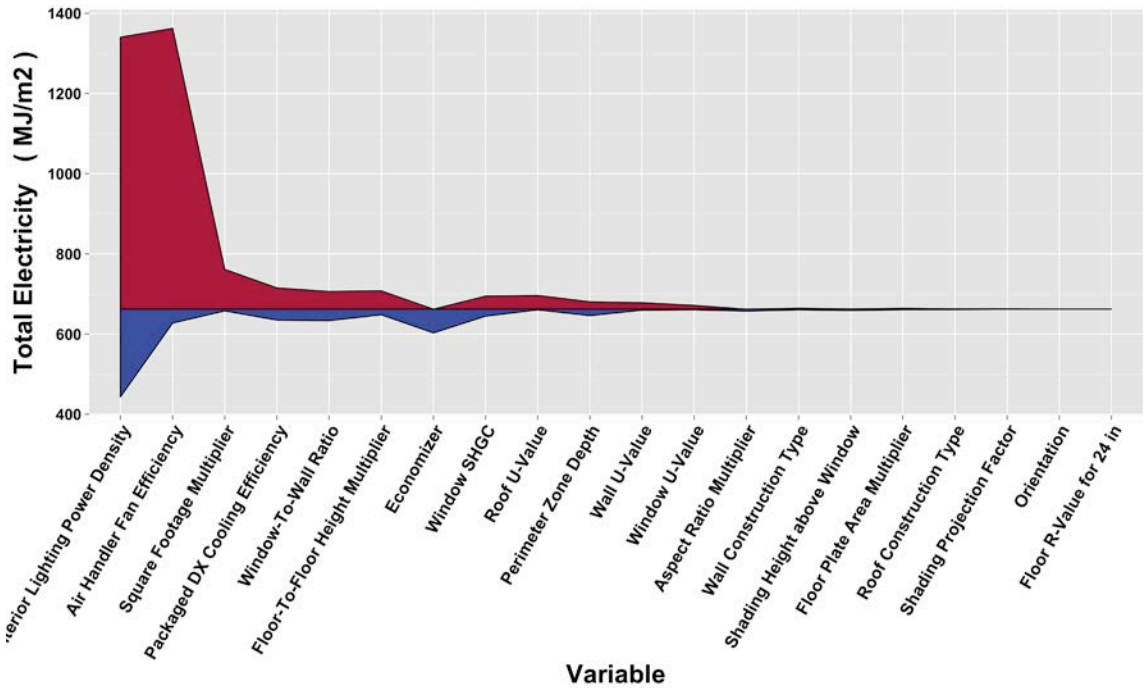
Location: Climate Zone 4C

Total Source Energy

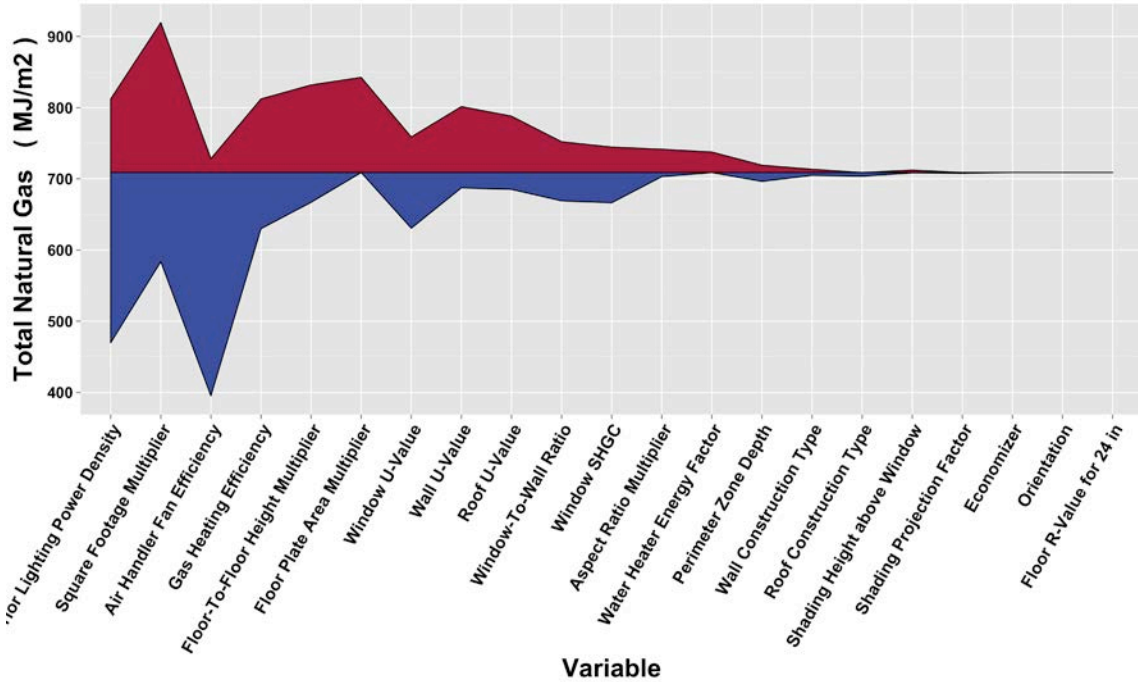
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2851.42	2885.39
Floor Plate Area Multiplier	12500	50000	2865.17	3006.63
Square Footage Multiplier	15000	150000	2715.87	3408.27
Floor-To-Floor Height Multiplier	12	24	2776.00	3143.72
Perimeter Zone Depth	10	20	2825.46	2910.05
Floor R-Value for 24 in	0	0	2865.17	2865.17
Window-To-Wall Ratio	0	0.78	2731.78	3051.59
Window Sill Height	1	6	2865.17	2865.17
Window U-Value	0.12	1.22	2776.18	2949.29
Window SHGC	0.08	0.7	2848.92	2922.54
Window VLT	0.06	0.89	2865.17	2865.17
Wall Construction Type	masonry-on-masonry	wood-siding	2864.33	2870.87
Wall U-Value	0.03	0.58	2834.45	3016.77
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2861.90	2865.17
Roof U-Value	0.01	0.2	2834.66	3059.54
Daylighting Control Setpoint	0	0	2865.17	2865.17
Interior Lighting Power Density	0.62	6.19	2284.87	4754.29
Shading Projection Factor	0	1	2865.17	2867.21
Shading Height above Window	0	2	2859.39	2866.29
District Chiller Cooling Efficiency	0.52	1.48	2865.17	2865.17
Air Handler Fan Efficiency	17.06	61.42	2776.88	4743.51
Packaged DX Cooling Efficiency	2.23	4.37	2779.25	3033.42
Gas Heating Efficiency	0.87	1.13	2779.64	2977.28
Terminal DX Cooling Efficiency	0.68	1.32	2865.17	2865.17
Terminal Furnace Heating Efficiency	0.87	1.13	2865.17	2865.17
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2865.17	2865.17
Water Heater Energy Factor	1	99	2865.17	2896.36
Economizer	false	true	2677.76	2865.17
Fan Control	cav	false	2865.17	2865.17
Orientation	0	359	2865.12	2865.17



Total Electricity



Total Natural Gas

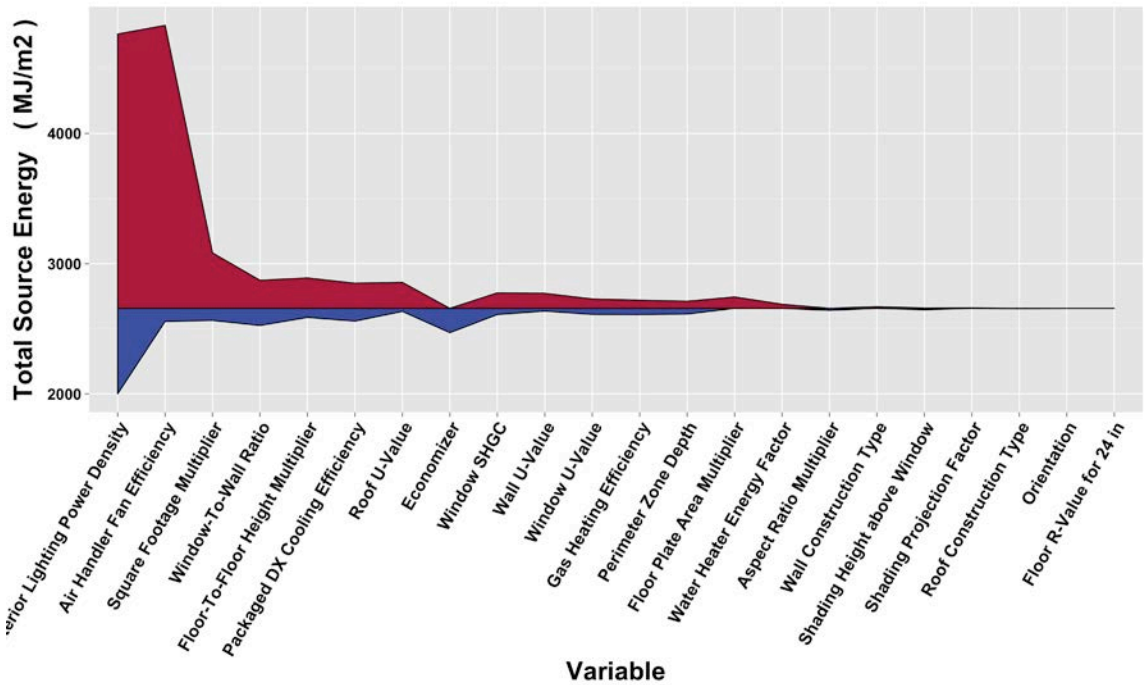


Location: Climate Zone 5A

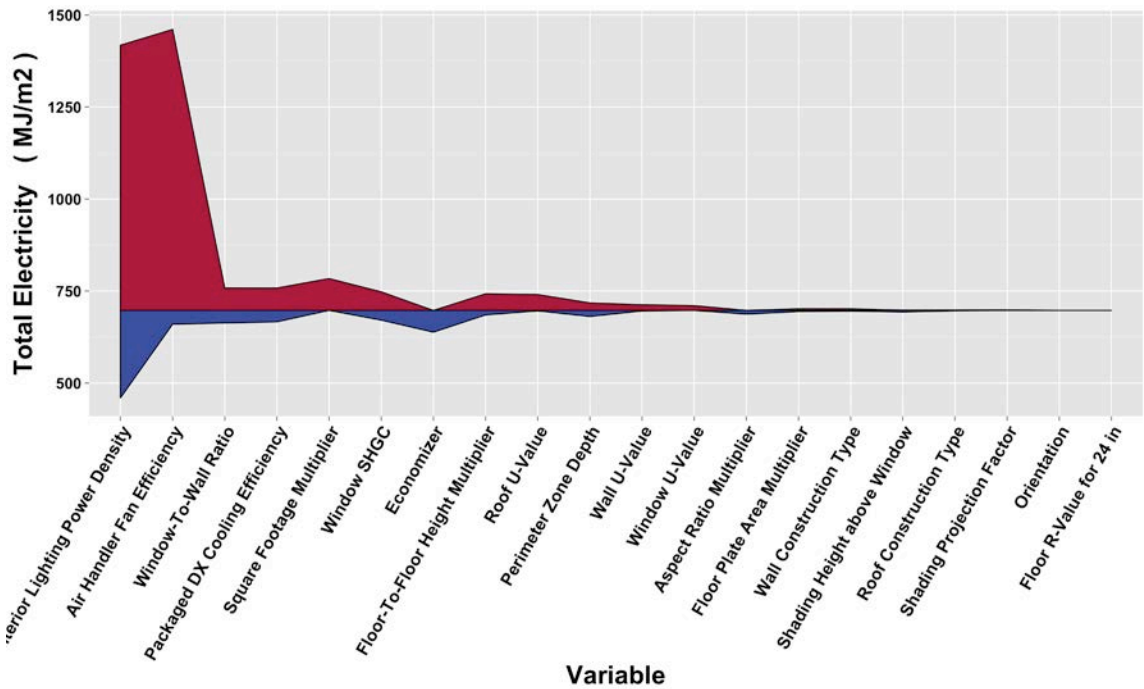
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2641.72	2657.20
Floor Plate Area Multiplier	12500	50000	2657.20	2744.42
Square Footage Multiplier	15000	150000	2564.21	3082.95
Floor-To-Floor Height Multiplier	12	24	2587.26	2890.42
Perimeter Zone Depth	10	20	2613.08	2711.20
Floor R-Value for 24 in	0	0	2657.20	2657.20
Window-To-Wall Ratio	0	0.78	2525.45	2872.43
Window Sill Height	1	6	2657.20	2657.20
Window U-Value	0.12	1.22	2610.59	2729.11
Window SHGC	0.08	0.7	2609.43	2775.75
Window VLT	0.06	0.89	2657.20	2657.20
Wall Construction Type	masonry-on-masonry	wood-siding	2657.03	2669.83
Wall U-Value	0.03	0.58	2635.86	2772.12
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2654.26	2657.20
Roof U-Value	0.01	0.2	2633.18	2856.87
Daylighting Control Setpoint	0	0	2657.20	2657.20
Interior Lighting Power Density	0.62	6.19	2000.27	4763.50
Shading Projection Factor	0	1	2657.20	2660.56

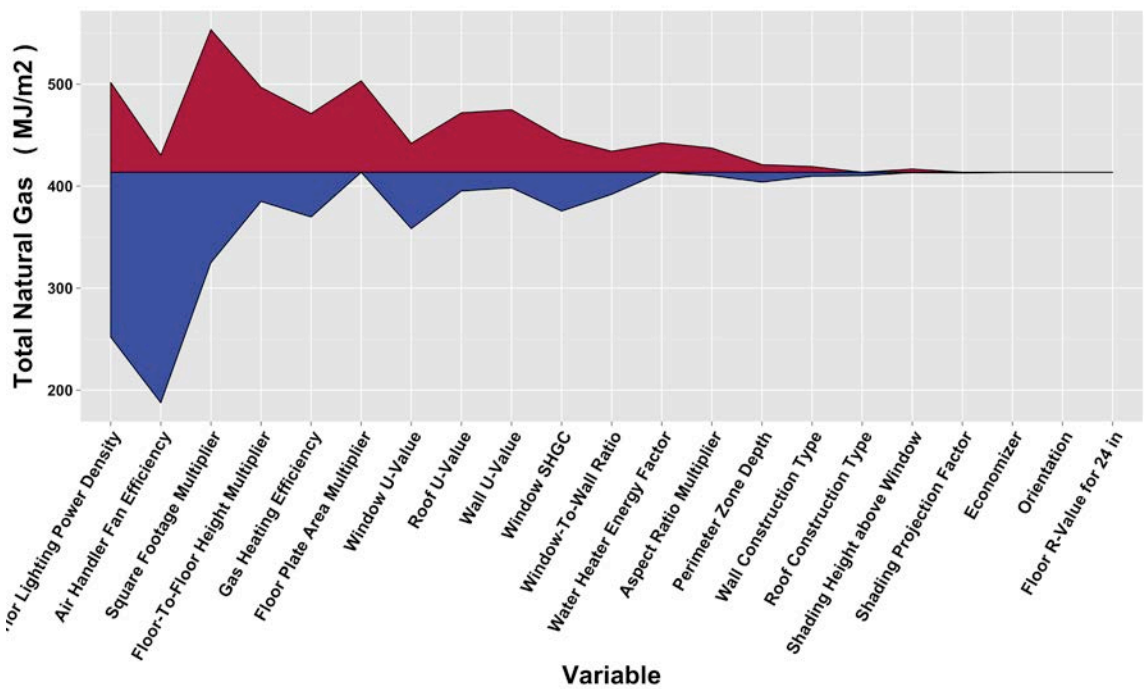
Shading Height above Window	0	2	2646.53	2659.10
District Chiller Cooling Efficiency	0.52	1.48	2657.20	2657.20
Air Handler Fan Efficiency	17.06	61.42	2556.64	4829.77
Packaged DX Cooling Efficiency	2.23	4.37	2558.88	2849.73
Gas Heating Efficiency	0.87	1.13	2609.60	2719.58
Terminal DX Cooling Efficiency	0.68	1.32	2657.20	2657.20
Terminal Furnace Heating Efficiency	0.87	1.13	2657.20	2657.20
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2657.20	2657.20
Water Heater Energy Factor	1	99	2657.20	2688.36
Economizer	false	true	2469.98	2657.20
Fan Control	cav	false	2657.20	2657.20
Orientation	0	359	2657.16	2657.21



Total Electricity



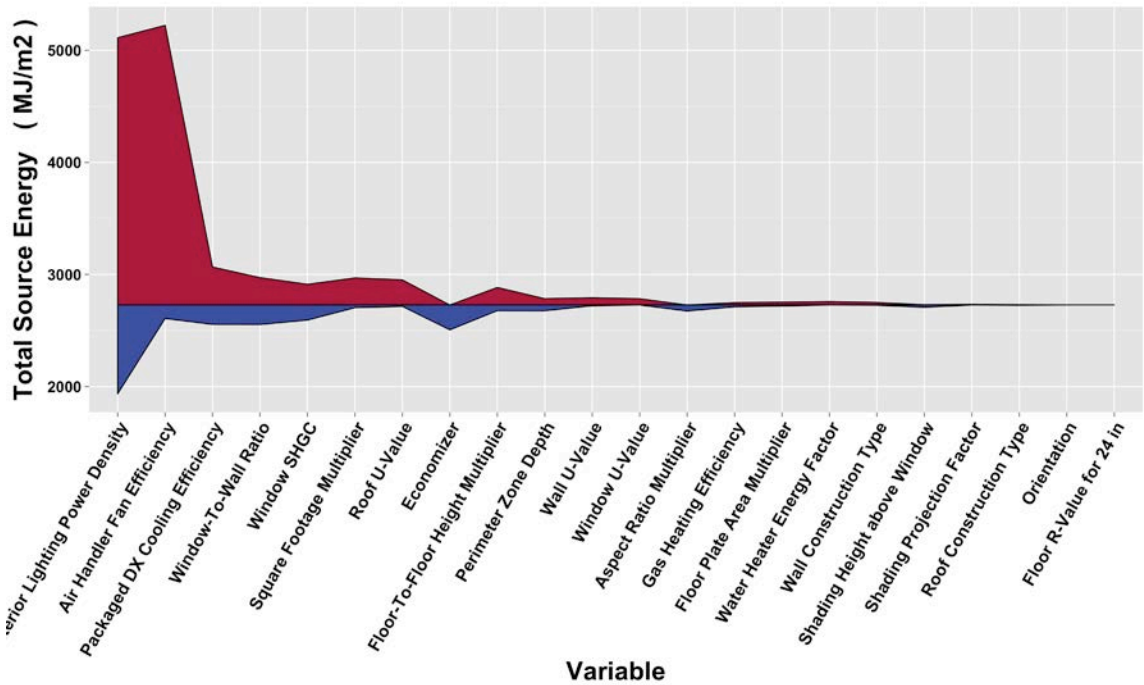
Total Natural Gas



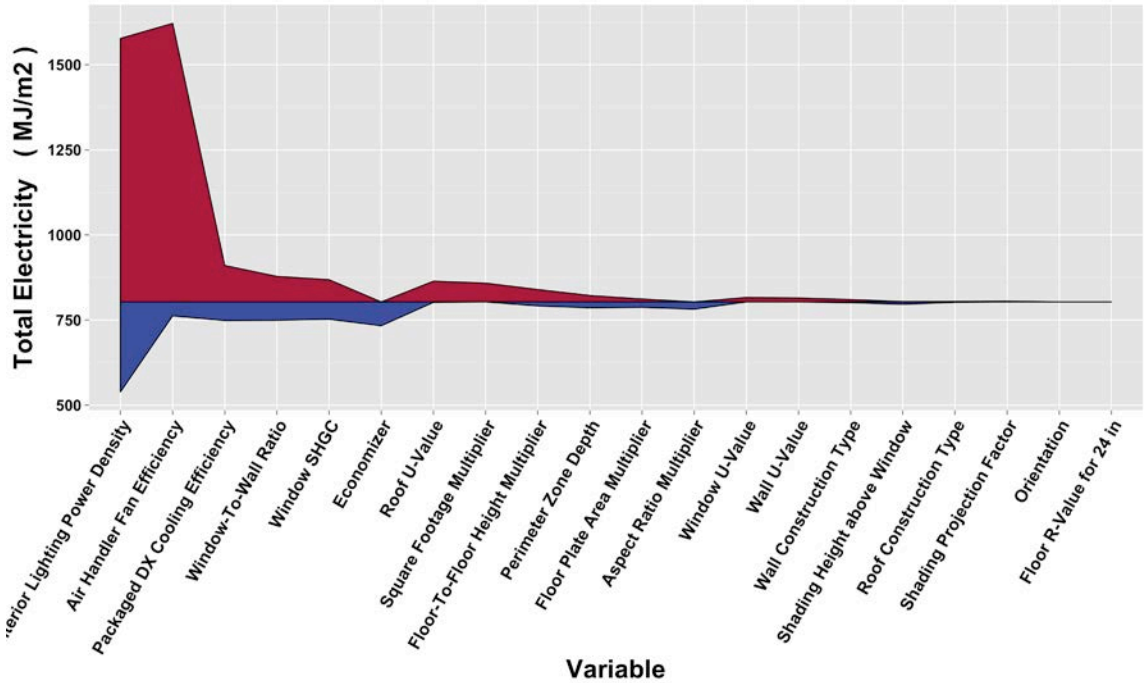
Location: Climate Zone 5B

Total Source Energy

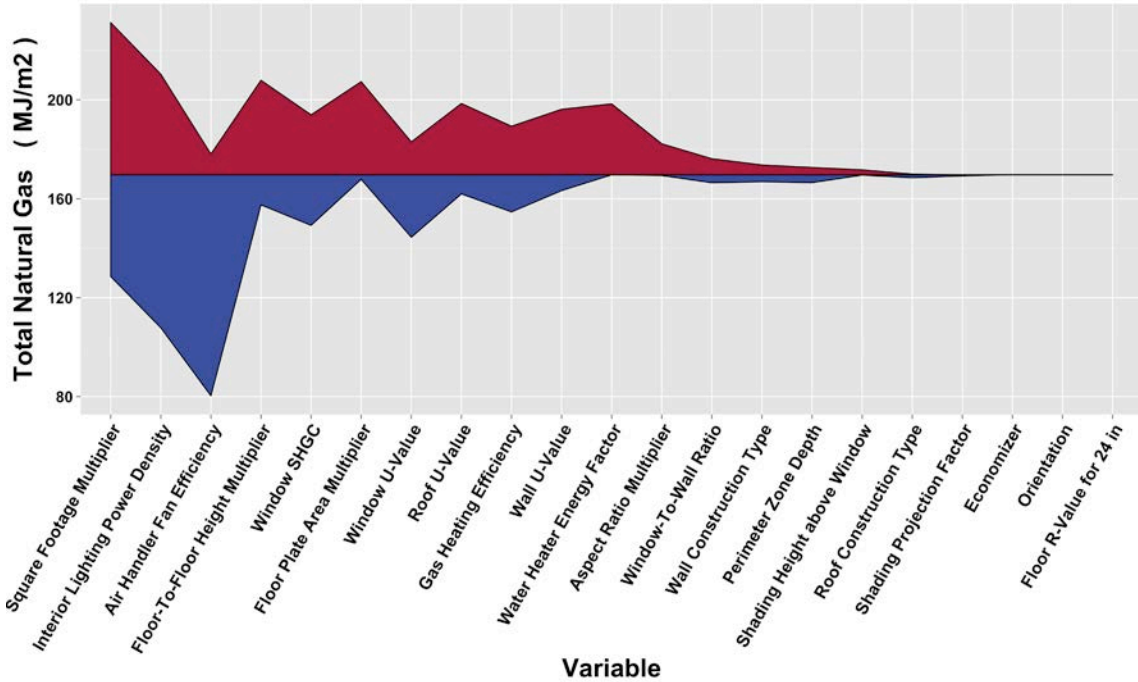
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2673.57	2727.42
Floor Plate Area Multiplier	12500	50000	2718.41	2752.52
Square Footage Multiplier	15000	150000	2703.36	2969.00
Floor-To-Floor Height Multiplier	12	24	2677.08	2884.28
Perimeter Zone Depth	10	20	2676.05	2783.57
Floor R-Value for 24 in	0	0	2727.42	2727.42
Window-To-Wall Ratio	0	0.78	2553.34	2971.93
Window Sill Height	1	6	2727.42	2727.42
Window U-Value	0.12	1.22	2727.42	2783.28
Window SHGC	0.08	0.7	2592.80	2912.22
Window VLT	0.06	0.89	2727.42	2727.42
Wall Construction Type	masonry-on-masonry	wood-siding	2725.08	2749.77
Wall U-Value	0.03	0.58	2720.81	2792.67
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2724.60	2729.87
Roof U-Value	0.01	0.2	2714.95	2951.79
Daylighting Control Setpoint	0	0	2727.42	2727.42
Interior Lighting Power Density	0.62	6.19	1934.28	5113.14
Shading Projection Factor	0	1	2727.42	2733.67
Shading Height above Window	0	2	2707.31	2730.00
District Chiller Cooling Efficiency	0.52	1.48	2727.42	2727.42
Air Handler Fan Efficiency	17.06	61.42	2607.01	5223.12
Packaged DX Cooling Efficiency	2.23	4.37	2554.34	3066.36
Gas Heating Efficiency	0.87	1.13	2711.16	2748.73
Terminal DX Cooling Efficiency	0.68	1.32	2727.42	2727.42
Terminal Furnace Heating Efficiency	0.87	1.13	2727.42	2727.42
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2727.42	2727.42
Water Heater Energy Factor	1	99	2727.42	2758.52
Economizer	false	true	2505.49	2727.42
Fan Control	cav	false	2727.42	2727.42
Orientation	0	359	2727.30	2727.47



Total Electricity



Total Natural Gas

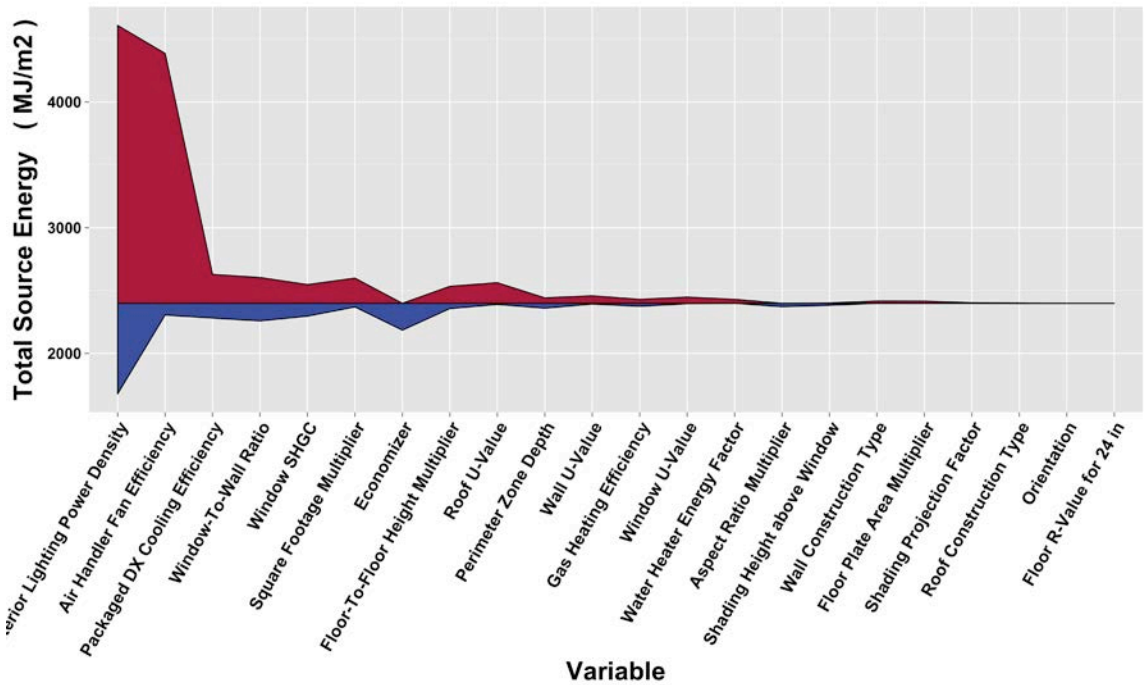


Location: Climate Zone 5C

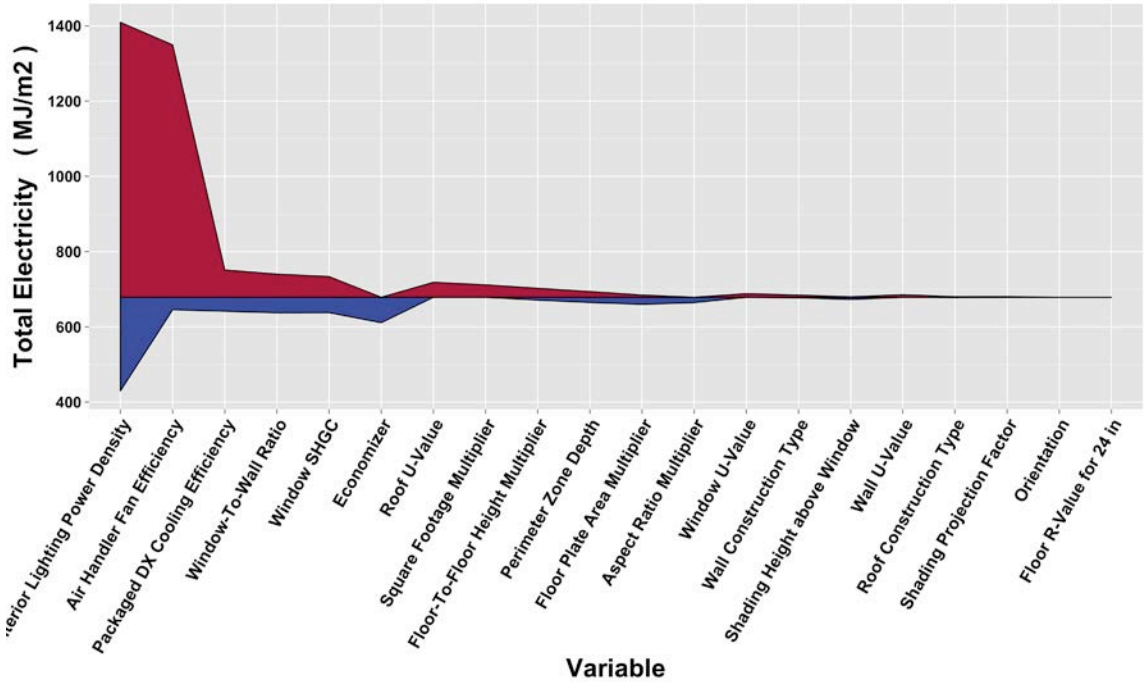
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2370.88	2398.00
Floor Plate Area Multiplier	12500	50000	2398.00	2415.11
Square Footage Multiplier	15000	150000	2368.81	2598.29
Floor-To-Floor Height Multiplier	12	24	2355.72	2533.03
Perimeter Zone Depth	10	20	2358.79	2441.14
Floor R-Value for 24 in	0	0	2398.00	2398.00
Window-To-Wall Ratio	0	0.78	2257.88	2603.24
Window Sill Height	1	6	2398.00	2398.00
Window U-Value	0.12	1.22	2394.42	2447.13
Window SHGC	0.08	0.7	2295.90	2546.81
Window VLT	0.06	0.89	2398.00	2398.00
Wall Construction Type	masonry-on-masonry	wood-siding	2397.62	2415.73
Wall U-Value	0.03	0.58	2392.23	2457.50
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2396.49	2400.74
Roof U-Value	0.01	0.2	2389.04	2561.92
Daylighting Control Setpoint	0	0	2398.00	2398.00
Interior Lighting Power Density	0.62	6.19	1677.43	4608.82
Shading Projection Factor	0	1	2398.00	2402.30

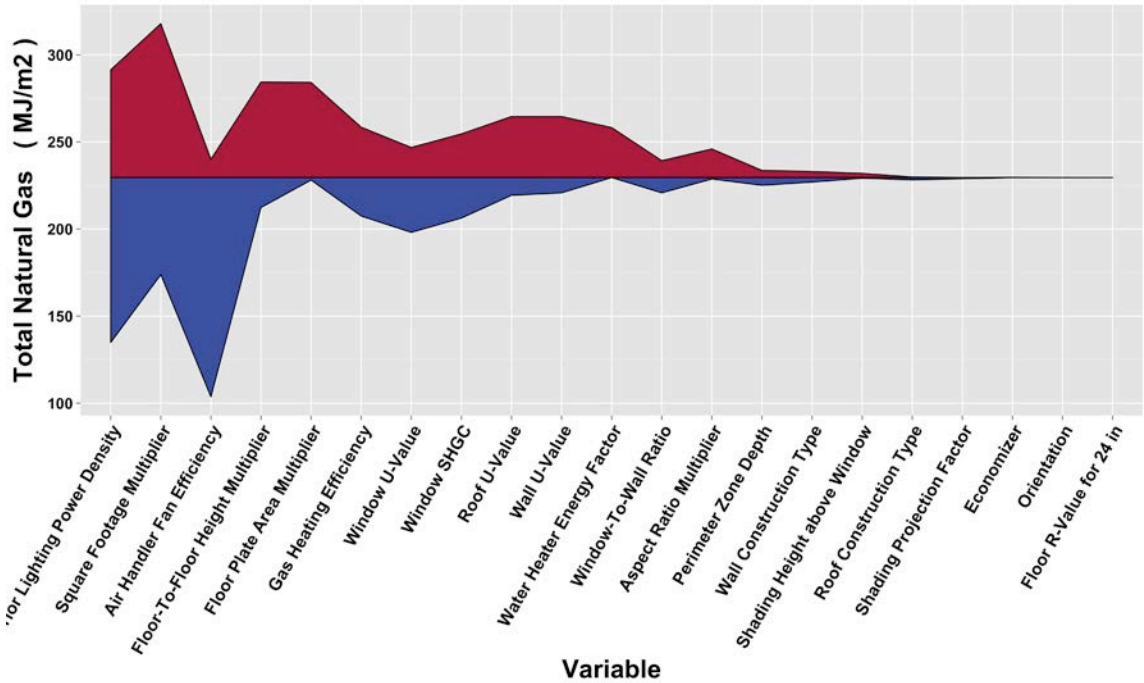
Shading Height above Window	0	2	2382.17	2400.81
District Chiller Cooling Efficiency	0.52	1.48	2398.00	2398.00
Air Handler Fan Efficiency	17.06	61.42	2304.64	4385.86
Packaged DX Cooling Efficiency	2.23	4.37	2280.65	2627.81
Gas Heating Efficiency	0.87	1.13	2374.06	2429.38
Terminal DX Cooling Efficiency	0.68	1.32	2398.00	2398.00
Terminal Furnace Heating Efficiency	0.87	1.13	2398.00	2398.00
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2398.00	2398.00
Water Heater Energy Factor	1	99	2398.00	2429.14
Economizer	false	true	2184.12	2398.00
Fan Control	cav	false	2398.00	2398.00
Orientation	0	359	2397.90	2398.00



Total Electricity



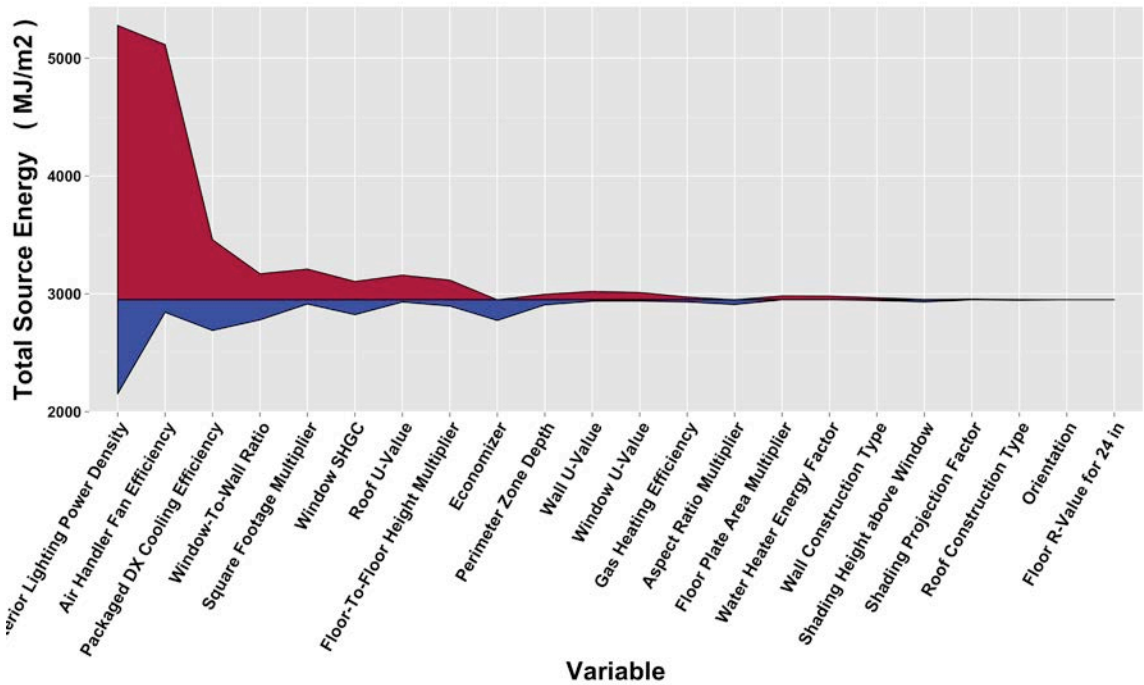
Total Natural Gas



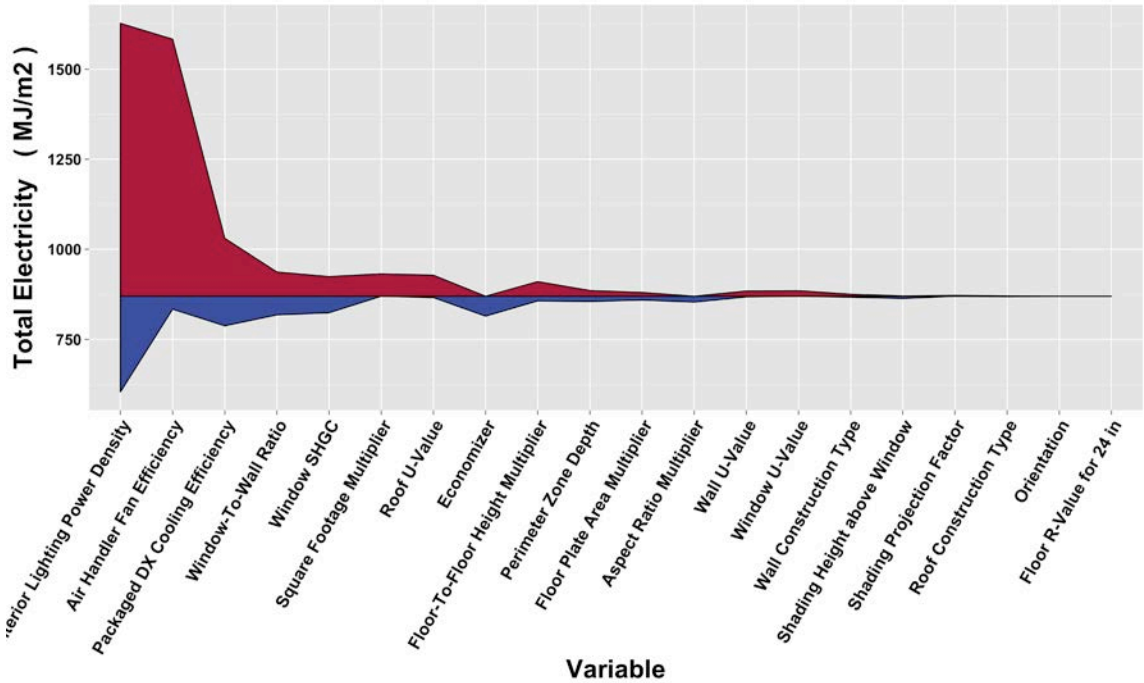
Location: Climate Zone 6A

Total Source Energy

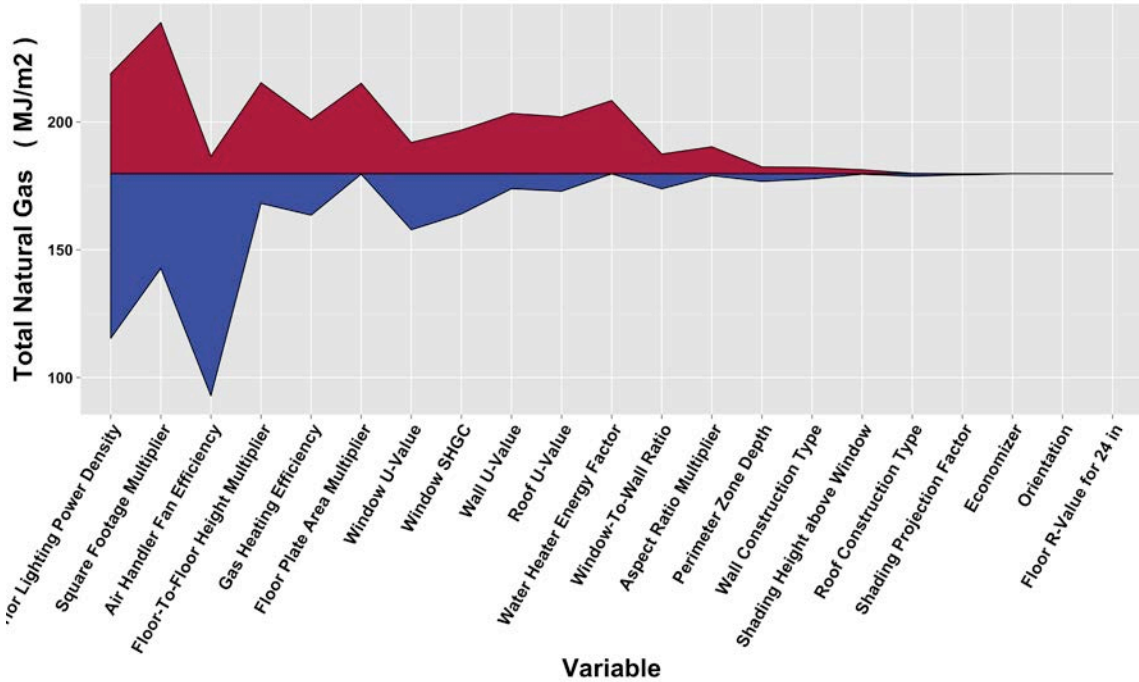
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2909.44	2949.43
Floor Plate Area Multiplier	12500	50000	2949.43	2982.07
Square Footage Multiplier	15000	150000	2913.80	3210.21
Floor-To-Floor Height Multiplier	12	24	2896.23	3116.60
Perimeter Zone Depth	10	20	2906.49	2996.15
Floor R-Value for 24 in	0	0	2949.43	2949.43
Window-To-Wall Ratio	0	0.78	2779.26	3170.42
Window Sill Height	1	6	2949.43	2949.43
Window U-Value	0.12	1.22	2938.11	3011.46
Window SHGC	0.08	0.7	2822.95	3104.68
Window VLT	0.06	0.89	2949.43	2949.43
Wall Construction Type	masonry-on-masonry	wood-siding	2943.94	2966.46
Wall U-Value	0.03	0.58	2937.55	3020.80
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2945.65	2951.26
Roof U-Value	0.01	0.2	2930.60	3158.37
Daylighting Control Setpoint	0	0	2949.43	2949.43
Interior Lighting Power Density	0.62	6.19	2151.24	5278.14
Shading Projection Factor	0	1	2949.43	2956.02
Shading Height above Window	0	2	2931.60	2952.12
District Chiller Cooling Efficiency	0.52	1.48	2949.43	2949.43
Air Handler Fan Efficiency	17.06	61.42	2842.99	5115.03
Packaged DX Cooling Efficiency	2.23	4.37	2689.27	3458.90
Gas Heating Efficiency	0.87	1.13	2931.88	2972.43
Terminal DX Cooling Efficiency	0.68	1.32	2949.43	2949.43
Terminal Furnace Heating Efficiency	0.87	1.13	2949.43	2949.43
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2949.43	2949.43
Water Heater Energy Factor	1	99	2949.43	2980.52
Economizer	false	true	2774.25	2949.43
Fan Control	cav	false	2949.43	2949.43
Orientation	0	359	2949.34	2949.43



Total Electricity



Total Natural Gas

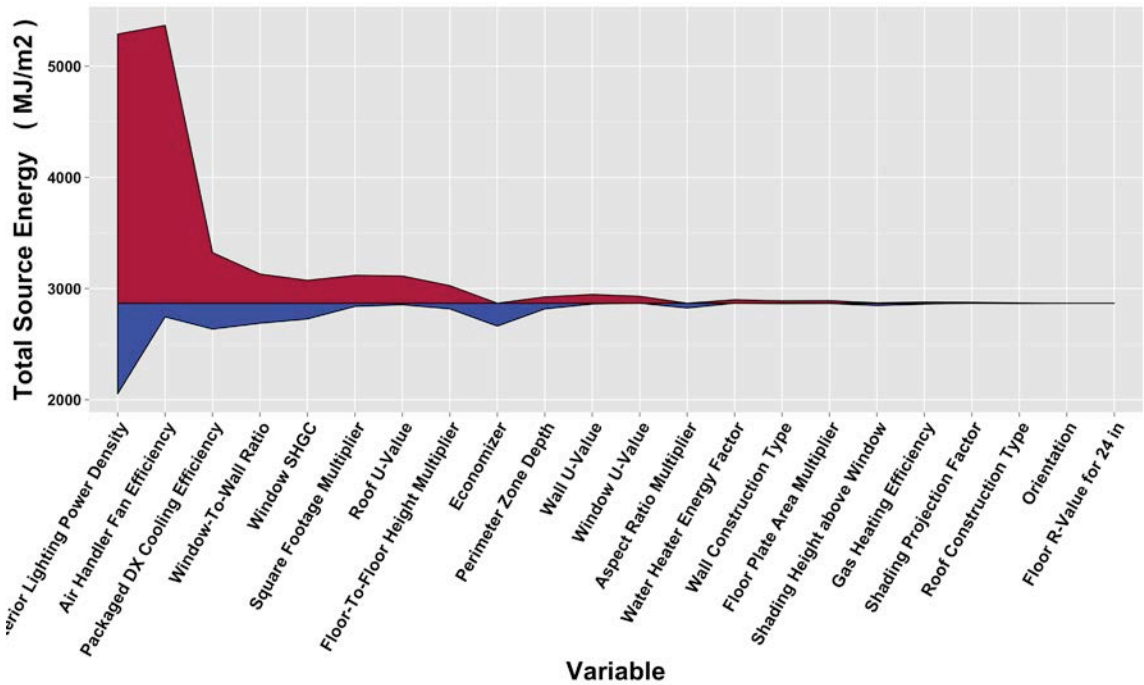


Location: Climate Zone 6B

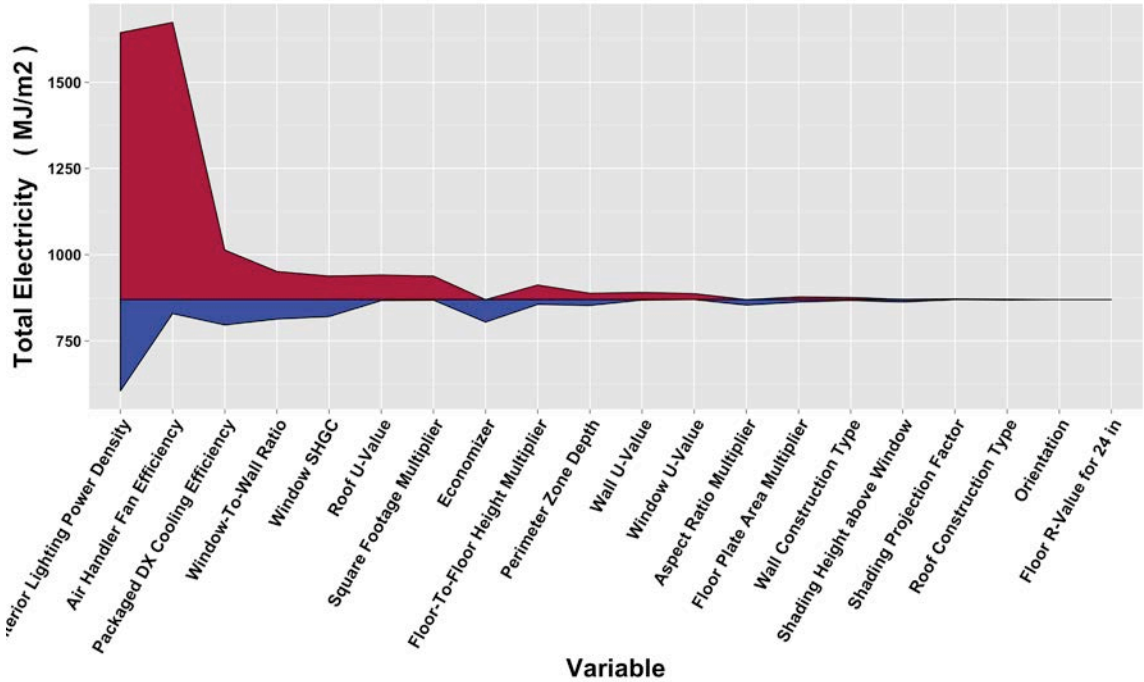
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2824.95	2868.14
Floor Plate Area Multiplier	12500	50000	2865.41	2891.07
Square Footage Multiplier	15000	150000	2839.08	3118.55
Floor-To-Floor Height Multiplier	12	24	2817.04	3025.91
Perimeter Zone Depth	10	20	2816.51	2924.46
Floor R-Value for 24 in	0	0	2868.14	2868.14
Window-To-Wall Ratio	0	0.78	2687.83	3130.37
Window Sill Height	1	6	2868.14	2868.14
Window U-Value	0.12	1.22	2868.14	2930.21
Window SHGC	0.08	0.7	2726.31	3073.64
Window VLT	0.06	0.89	2868.14	2868.14
Wall Construction Type	masonry-on-masonry	wood-siding	2863.08	2889.23
Wall U-Value	0.03	0.58	2860.60	2946.78
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2865.23	2870.91
Roof U-Value	0.01	0.2	2854.37	3113.04
Daylighting Control Setpoint	0	0	2868.14	2868.14
Interior Lighting Power Density	0.62	6.19	2052.99	5287.90
Shading Projection Factor	0	1	2868.14	2875.72

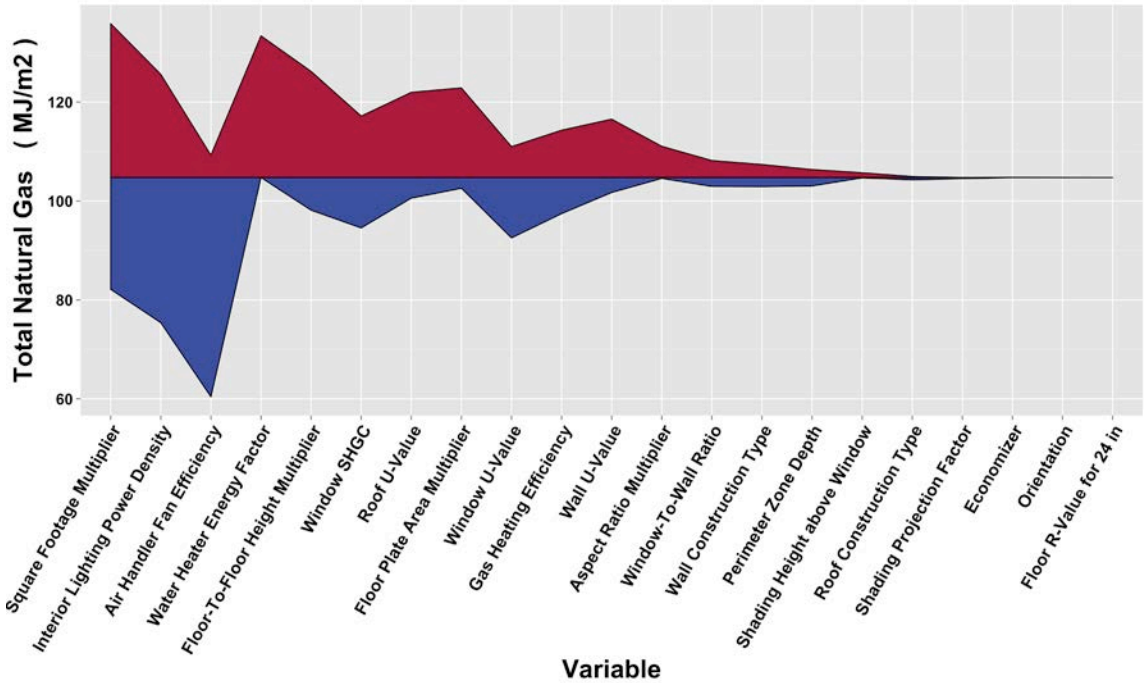
Shading Height above Window	0	2	2847.02	2871.21
District Chiller Cooling Efficiency	0.52	1.48	2868.14	2868.14
Air Handler Fan Efficiency	17.06	61.42	2744.82	5366.13
Packaged DX Cooling Efficiency	2.23	4.37	2635.54	3323.64
Gas Heating Efficiency	0.87	1.13	2860.22	2878.52
Terminal DX Cooling Efficiency	0.68	1.32	2868.14	2868.14
Terminal Furnace Heating Efficiency	0.87	1.13	2868.14	2868.14
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2868.14	2868.14
Water Heater Energy Factor	1	99	2868.14	2899.21
Economizer	false	true	2661.90	2868.14
Fan Control	cav	false	2868.14	2868.14
Orientation	0	359	2868.04	2868.18



Total Electricity



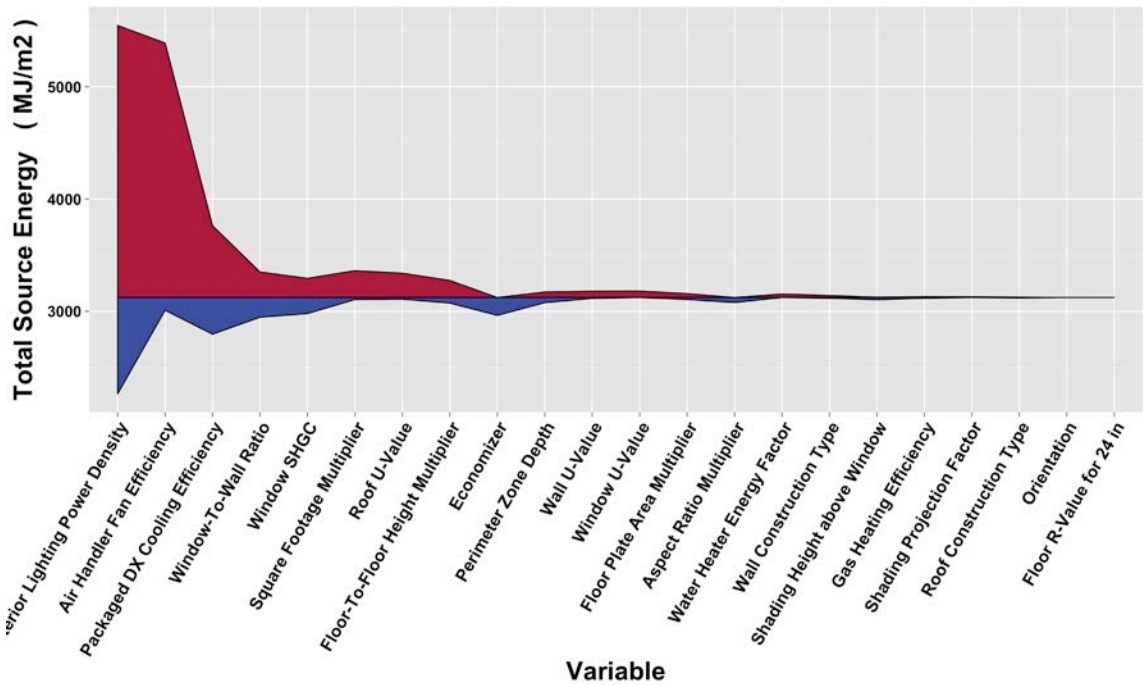
Total Natural Gas



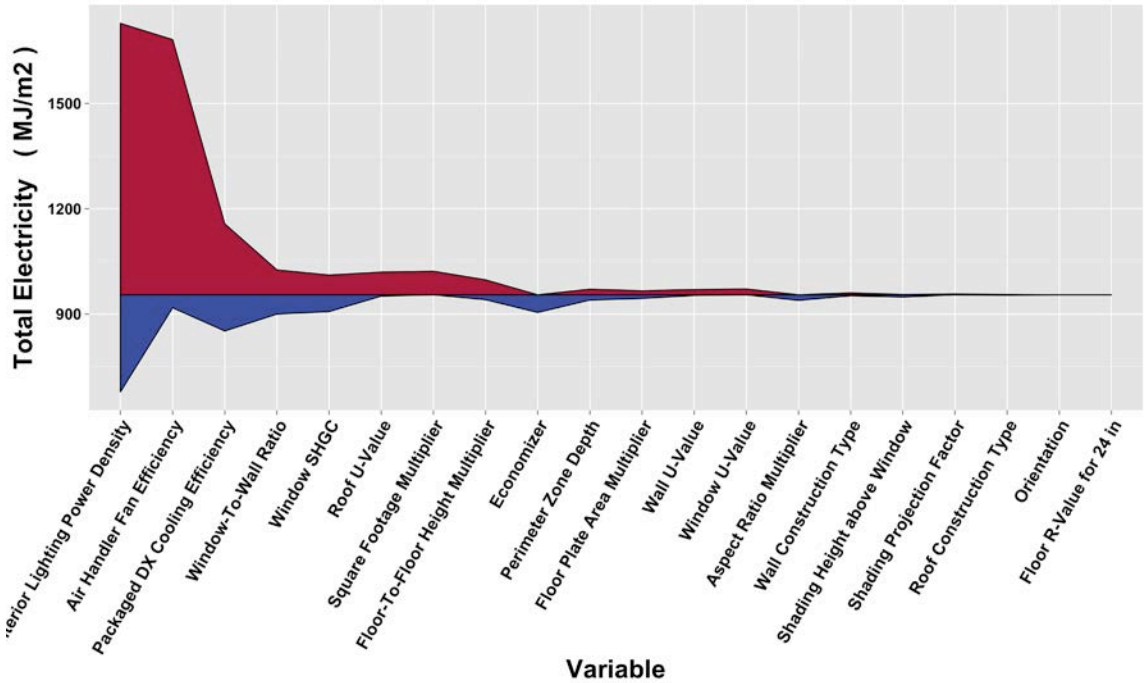
Location: Climate Zone 7

Total Source Energy

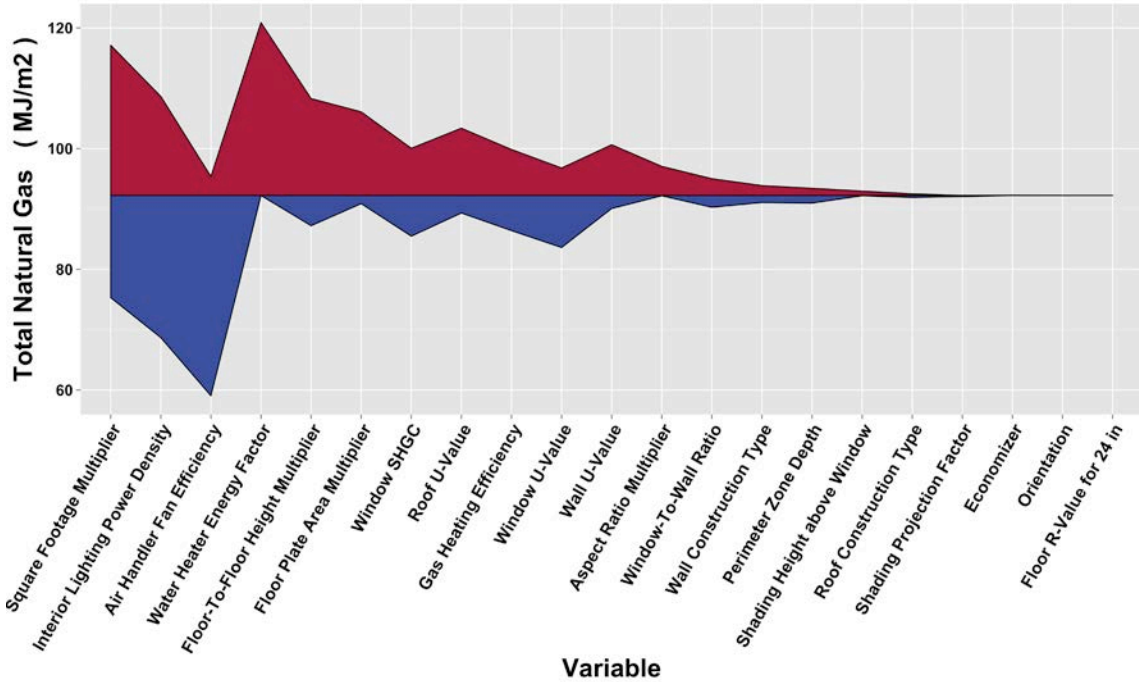
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	3078.30	3123.25
Floor Plate Area Multiplier	12500	50000	3105.53	3157.85
Square Footage Multiplier	15000	150000	3105.19	3362.83
Floor-To-Floor Height Multiplier	12	24	3073.38	3275.57
Perimeter Zone Depth	10	20	3077.07	3172.62
Floor R-Value for 24 in	0	0	3123.25	3123.25
Window-To-Wall Ratio	0	0.78	2947.14	3351.00
Window Sill Height	1	6	3123.25	3123.25
Window U-Value	0.12	1.22	3123.25	3180.87
Window SHGC	0.08	0.7	2980.06	3293.98
Window VLT	0.06	0.89	3123.25	3123.25
Wall Construction Type	masonry-on-masonry	wood-siding	3116.75	3141.42
Wall U-Value	0.03	0.58	3115.08	3179.91
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3119.31	3125.69
Roof U-Value	0.01	0.2	3108.16	3339.92
Daylighting Control Setpoint	0	0	3123.25	3123.25
Interior Lighting Power Density	0.62	6.19	2264.78	5547.50
Shading Projection Factor	0	1	3123.25	3130.26
Shading Height above Window	0	2	3103.62	3125.95
District Chiller Cooling Efficiency	0.52	1.48	3123.25	3123.25
Air Handler Fan Efficiency	17.06	61.42	3009.17	5390.88
Packaged DX Cooling Efficiency	2.23	4.37	2796.18	3763.75
Gas Heating Efficiency	0.87	1.13	3116.93	3131.52
Terminal DX Cooling Efficiency	0.68	1.32	3123.25	3123.25
Terminal Furnace Heating Efficiency	0.87	1.13	3123.25	3123.25
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3123.25	3123.25
Water Heater Energy Factor	1	99	3123.25	3154.31
Economizer	false	true	2963.79	3123.25
Fan Control	cav	false	3123.25	3123.25
Orientation	0	359	3123.16	3123.25



Total Electricity



Total Natural Gas

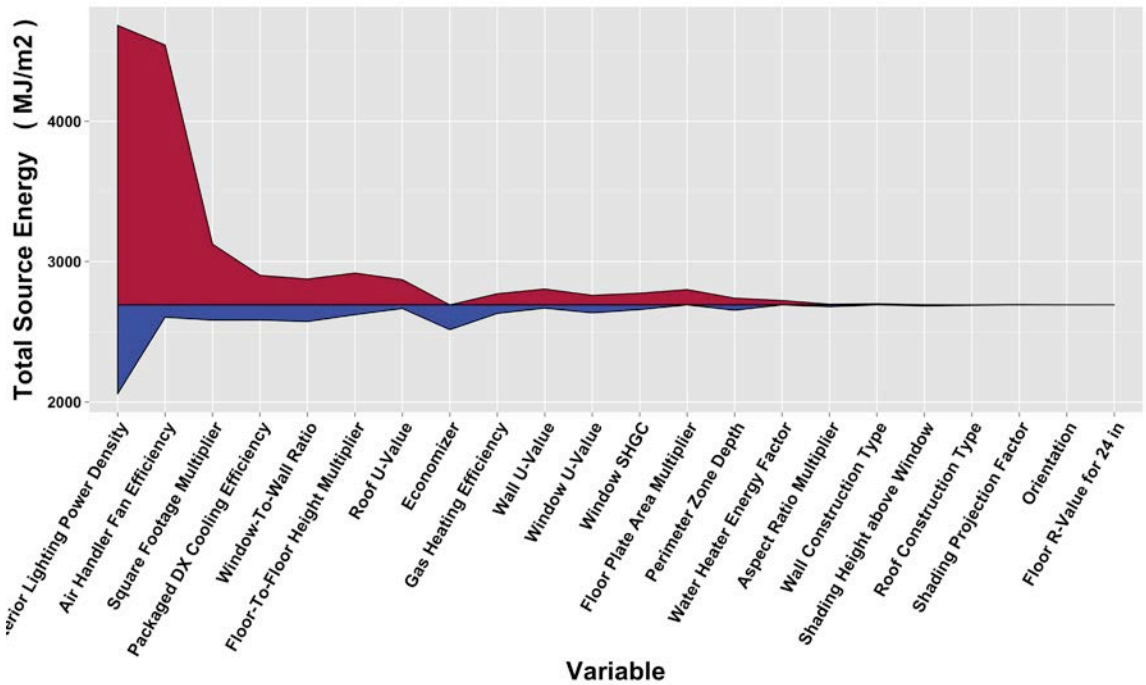


Location: Climate Zone 8

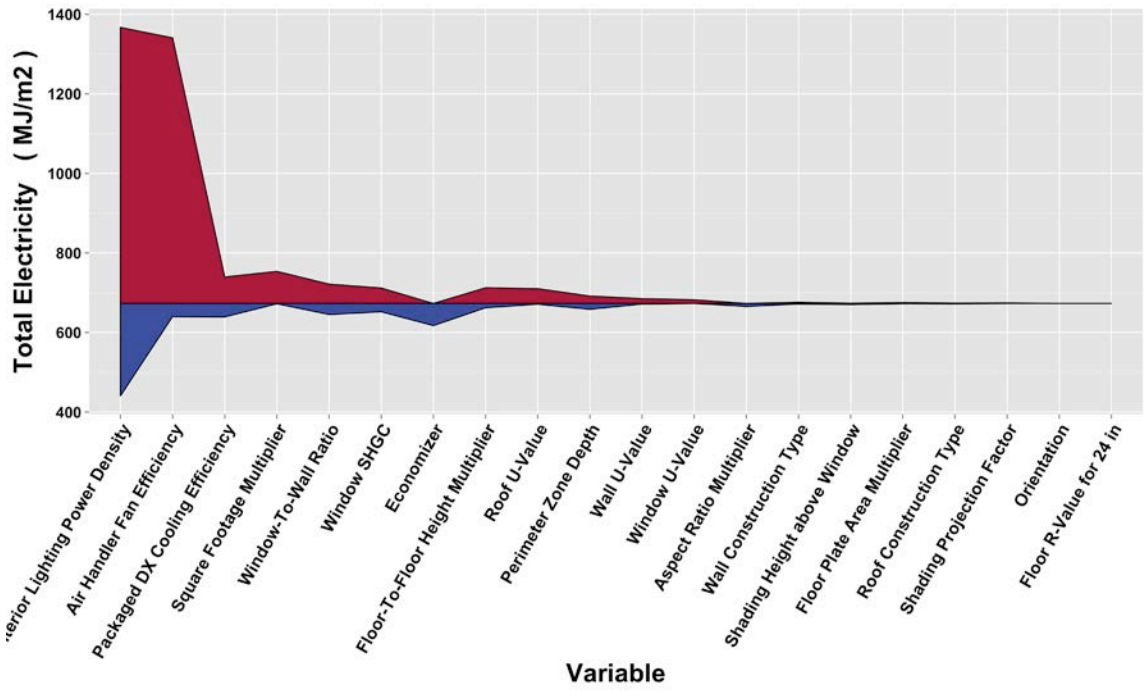
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.62	3.12	2678.56	2696.31
Floor Plate Area Multiplier	12500	50000	2691.34	2800.48
Square Footage Multiplier	15000	150000	2582.70	3124.07
Floor-To-Floor Height Multiplier	12	24	2621.61	2918.39
Perimeter Zone Depth	10	20	2653.18	2739.27
Floor R-Value for 24 in	0	0	2691.34	2691.34
Window-To-Wall Ratio	0	0.78	2572.76	2875.79
Window Sill Height	1	6	2691.34	2691.34
Window U-Value	0.12	1.22	2634.50	2759.38
Window SHGC	0.08	0.7	2657.90	2774.72
Window VLT	0.06	0.89	2691.34	2691.34
Wall Construction Type	masonry-on-masonry	wood-siding	2691.03	2699.56
Wall U-Value	0.03	0.58	2668.43	2804.19
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2688.27	2691.34
Roof U-Value	0.01	0.2	2665.65	2871.12
Daylighting Control Setpoint	0	0	2691.34	2691.34
Interior Lighting Power Density	0.62	6.19	2057.66	4682.55
Shading Projection Factor	0	1	2691.34	2694.13

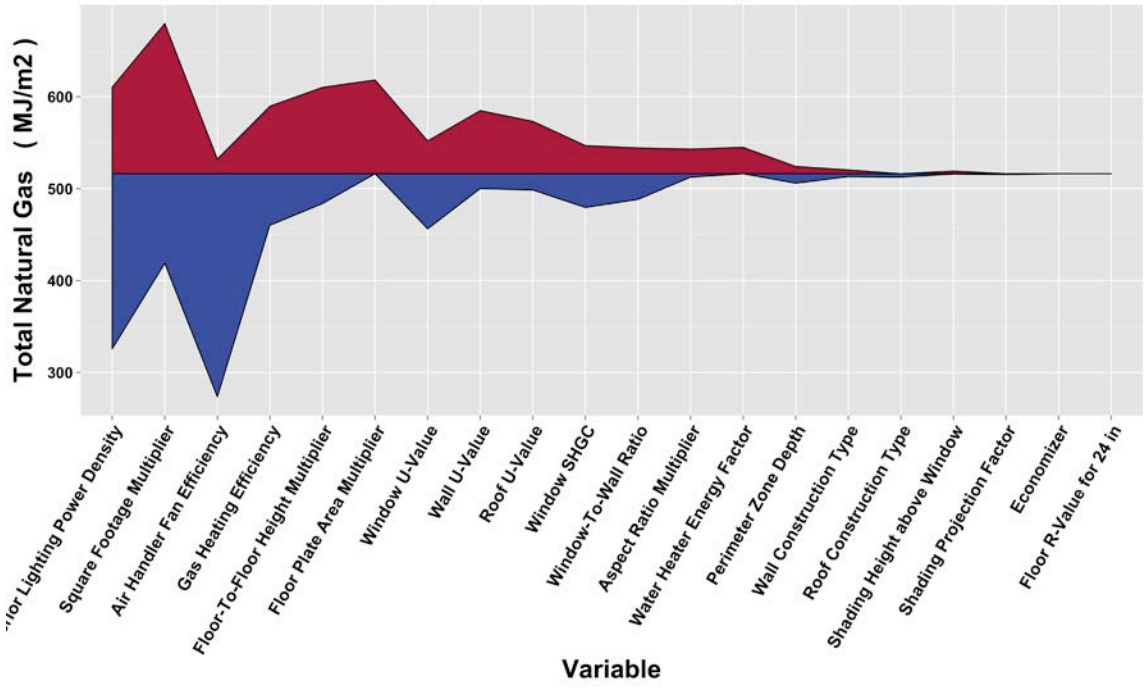
Shading Height above Window	0	2	2684.81	2692.70
District Chiller Cooling Efficiency	0.52	1.48	2691.34	2691.34
Air Handler Fan Efficiency	17.06	61.42	2603.91	4542.82
Packaged DX Cooling Efficiency	2.23	4.37	2583.81	2901.93
Gas Heating Efficiency	0.87	1.13	2630.56	2771.02
Terminal DX Cooling Efficiency	0.68	1.32	2691.34	2691.34
Terminal Furnace Heating Efficiency	0.87	1.13	2691.34	2691.34
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2691.34	2691.34
Water Heater Energy Factor	1	99	2691.34	2722.51
Economizer	false	true	2514.59	2691.34
Fan Control	cav	false	2691.34	2691.34
Orientation	0	359	2691.31	2691.35



Total Electricity



Total Natural Gas

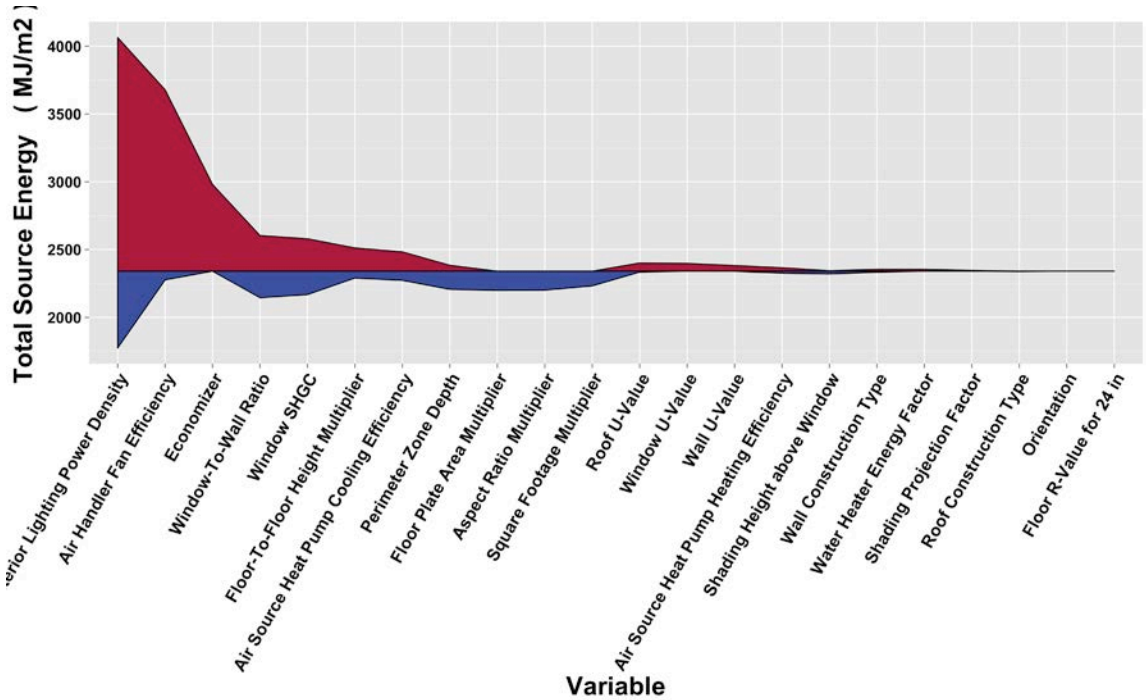


Library

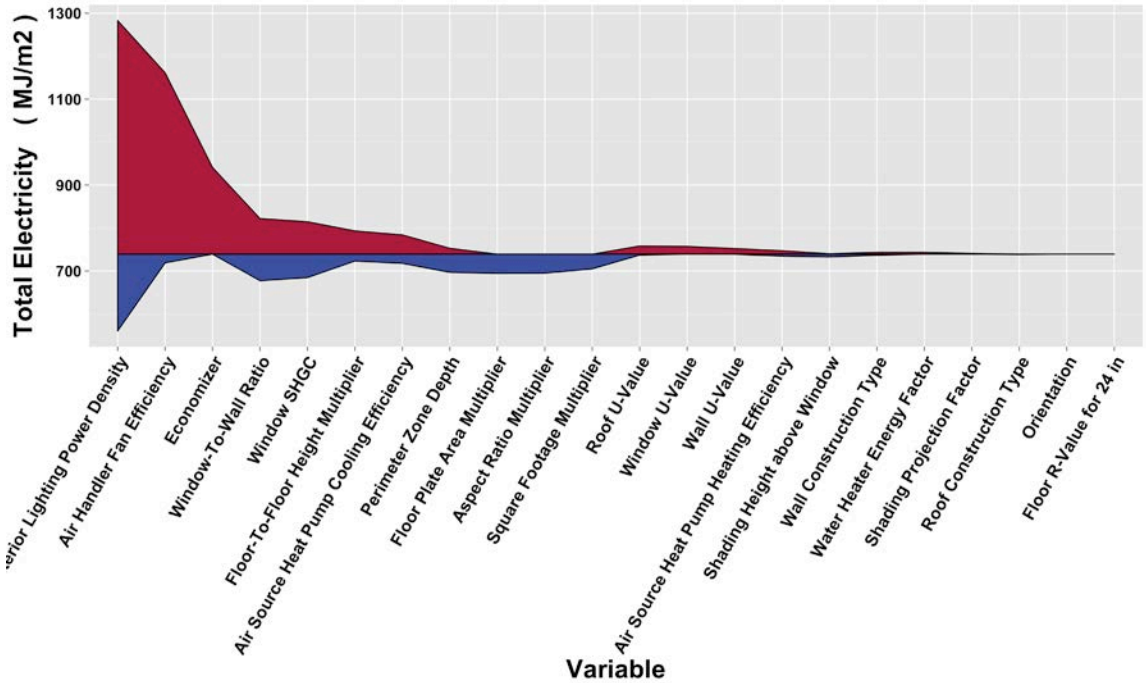
Location: Climate Zone 1A

Total Source Energy

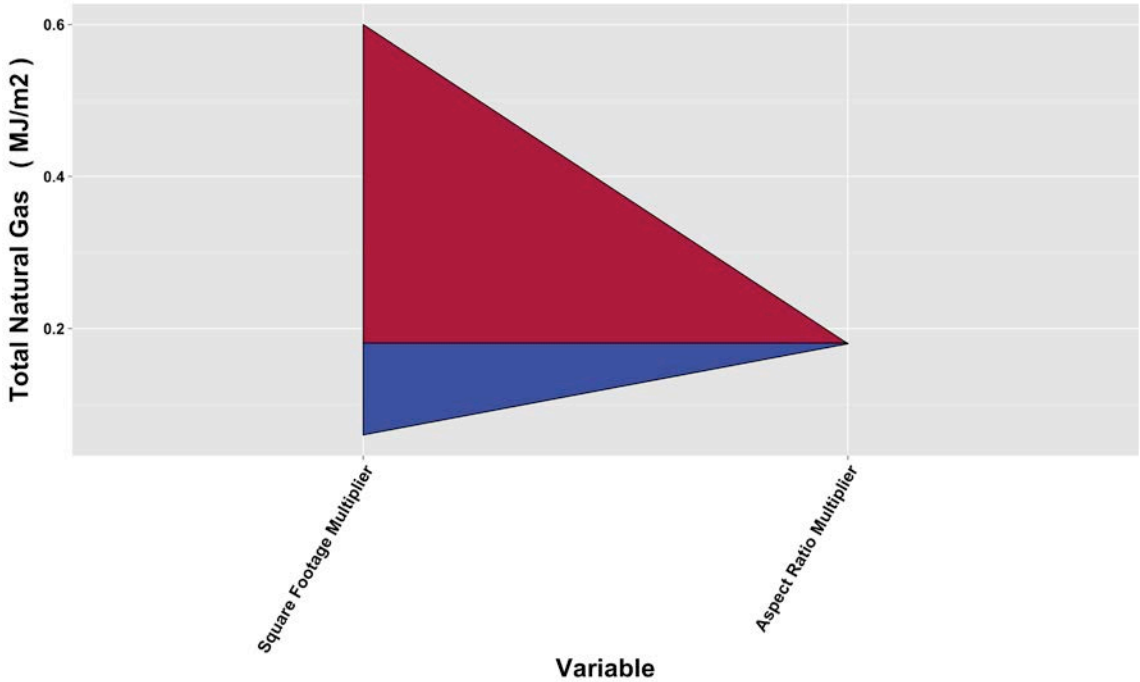
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2201.45	2341.23
Floor Plate Area Multiplier	6250	37500	2200.03	2341.23
Square Footage Multiplier	11250	112500	2232.70	2341.23
Floor-To-Floor Height Multiplier	12	24	2290.78	2512.75
Perimeter Zone Depth	10	20	2207.16	2384.64
Floor R-Value for 24 in	0	0	2341.23	2341.23
Window-To-Wall Ratio	0	0.95	2145.58	2603.98
Window Sill Height	1	6	2341.23	2341.23
Window U-Value	0.12	1.22	2341.23	2398.26
Window SHGC	0.08	0.7	2168.54	2580.27
Window VLT	0.06	0.89	2341.23	2341.23
Wall Construction Type	masonry-on-masonry	wood-siding	2333.82	2355.17
Wall U-Value	0.03	0.58	2340.33	2382.78
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2338.36	2341.23
Roof U-Value	0.01	0.2	2334.52	2401.62
Daylighting Control Setpoint	0	0	2341.23	2341.23
Interior Lighting Power Density	0.41	4.08	1774.60	4064.19
Shading Projection Factor	0	1	2341.23	2346.92
Shading Height above Window	0	2	2320.54	2344.71
District Chiller Cooling Efficiency	0.52	1.48	2341.23	2341.23
Air Handler Fan Efficiency	17.5	63	2277.04	3678.81
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2273.53	2483.42
Air Source Heat Pump Heating Efficiency	2.4	4.2	2326.80	2366.50
Gas Heating Efficiency	0.87	1.13	2341.23	2341.23
Terminal DX Cooling Efficiency	0.68	1.32	2341.23	2341.23
Terminal Furnace Heating Efficiency	0.87	1.13	2341.23	2341.23
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2341.23	2341.23
Water Heater Energy Factor	1	99	2341.23	2355.45
Economizer	false	true	2341.23	2980.55
Fan Control	cav	false	2341.23	2341.23
Orientation	0	359	2341.23	2341.35



Total Electricity



Total Natural Gas

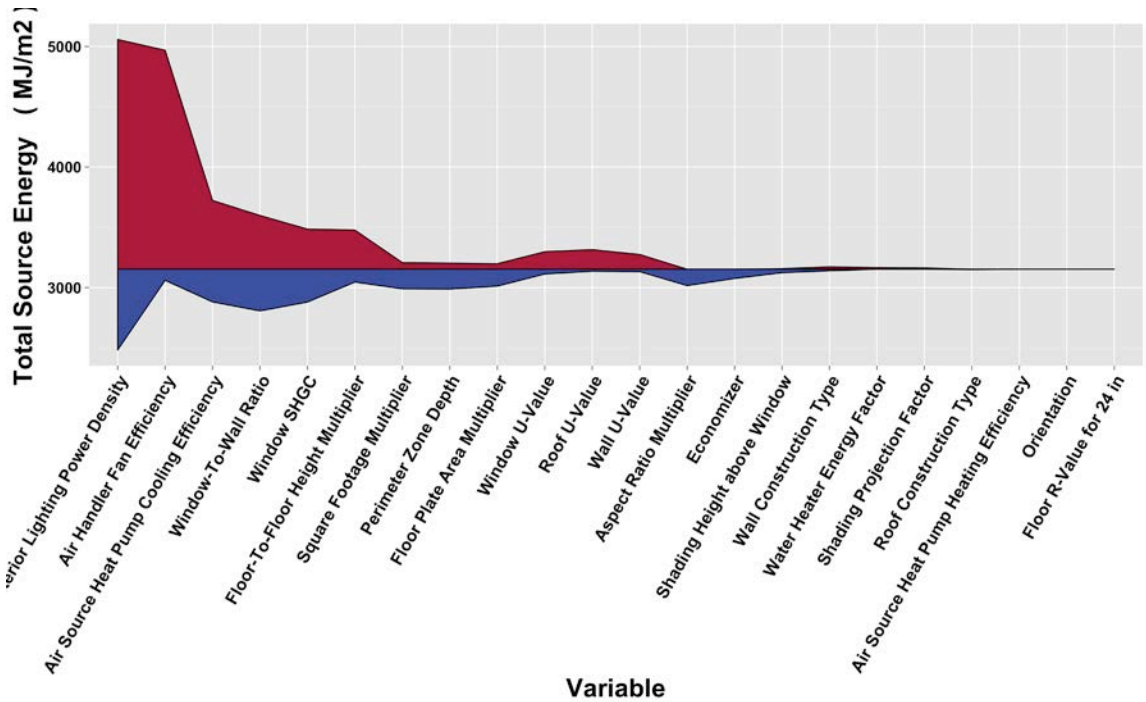


Location: Climate Zone 1B

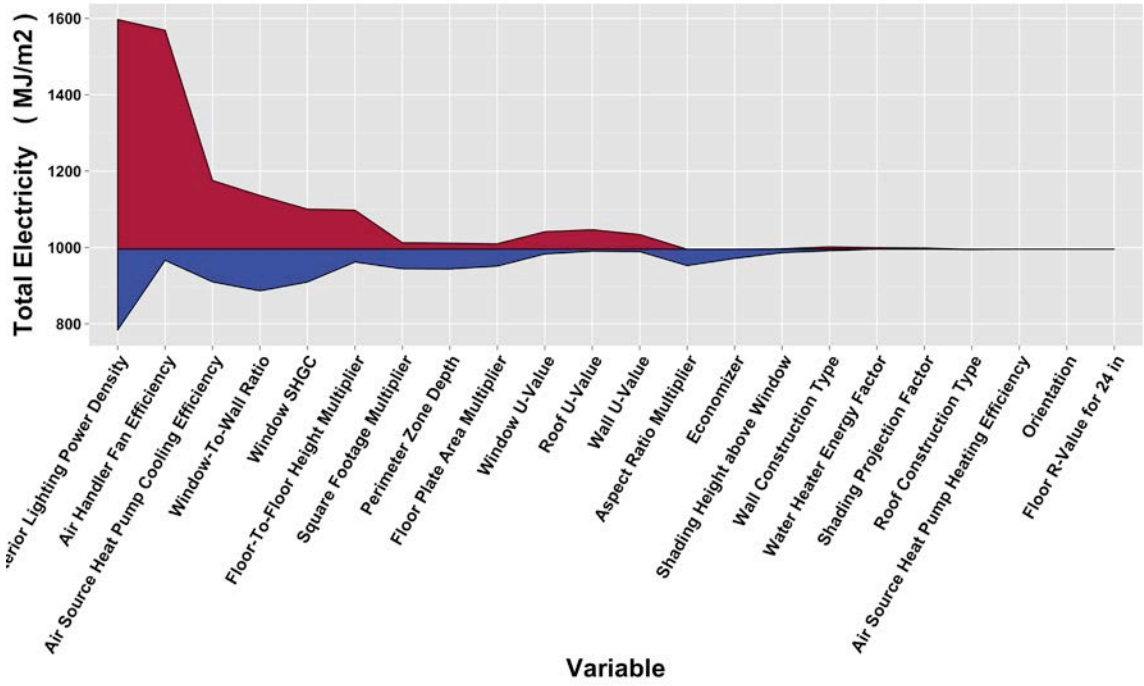
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	3016.52	3152.79
Floor Plate Area Multiplier	6250	37500	3012.12	3198.66
Square Footage Multiplier	11250	112500	2989.81	3207.60
Floor-To-Floor Height Multiplier	12	24	3046.09	3477.44
Perimeter Zone Depth	10	20	2987.84	3203.11
Floor R-Value for 24 in	0	0	3152.79	3152.79
Window-To-Wall Ratio	0	0.95	2806.66	3598.45
Window Sill Height	1	6	3152.79	3152.79
Window U-Value	0.12	1.22	3112.80	3297.97
Window SHGC	0.08	0.7	2880.08	3485.63
Window VLT	0.06	0.89	3152.79	3152.79
Wall Construction Type	masonry-on-masonry	wood-siding	3139.58	3172.51
Wall U-Value	0.03	0.58	3132.51	3275.00
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3148.92	3152.79
Roof U-Value	0.01	0.2	3135.90	3314.94
Daylighting Control Setpoint	0	0	3152.79	3152.79
Interior Lighting Power Density	0.41	4.08	2482.32	5058.53
Shading Projection Factor	0	1	3152.79	3163.37

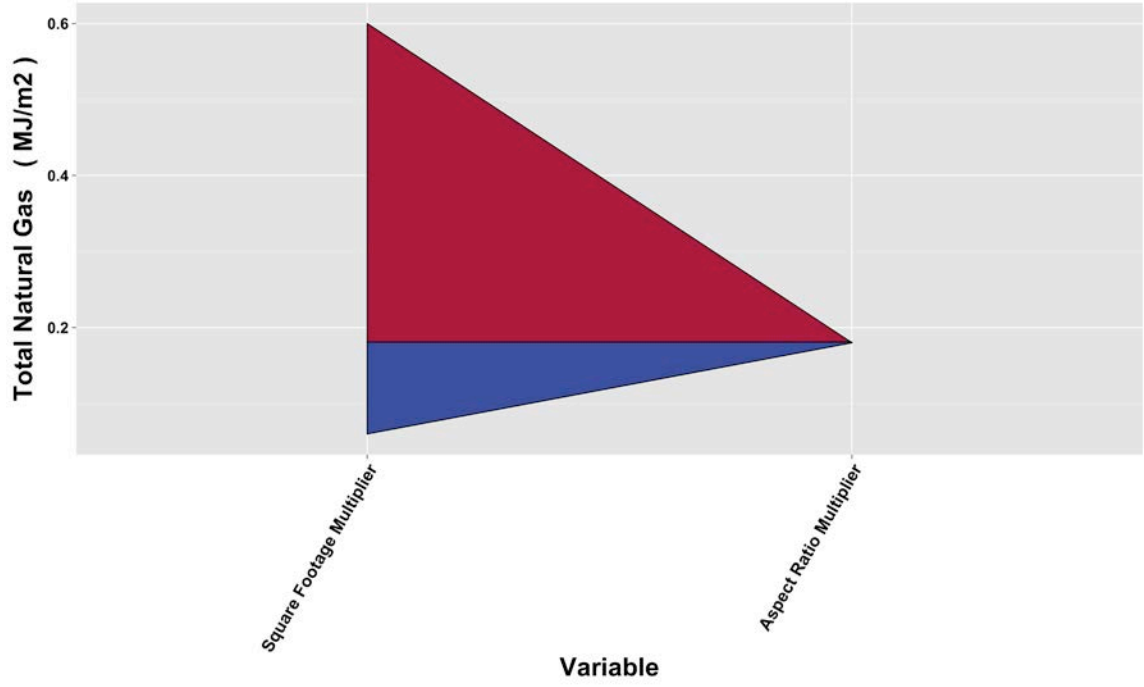
Shading Height above Window	0	2	3123.67	3157.43
District Chiller Cooling Efficiency	0.52	1.48	3152.79	3152.79
Air Handler Fan Efficiency	17.5	63	3060.21	4969.40
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2881.10	3723.35
Air Source Heat Pump Heating Efficiency	2.4	4.2	3152.49	3153.32
Gas Heating Efficiency	0.87	1.13	3152.79	3152.79
Terminal DX Cooling Efficiency	0.68	1.32	3152.79	3152.79
Terminal Furnace Heating Efficiency	0.87	1.13	3152.79	3152.79
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3152.79	3152.79
Water Heater Energy Factor	1	99	3152.79	3166.55
Economizer	false	true	3075.72	3152.79
Fan Control	cav	false	3152.79	3152.79
Orientation	0	359	3152.63	3152.81



Total Electricity



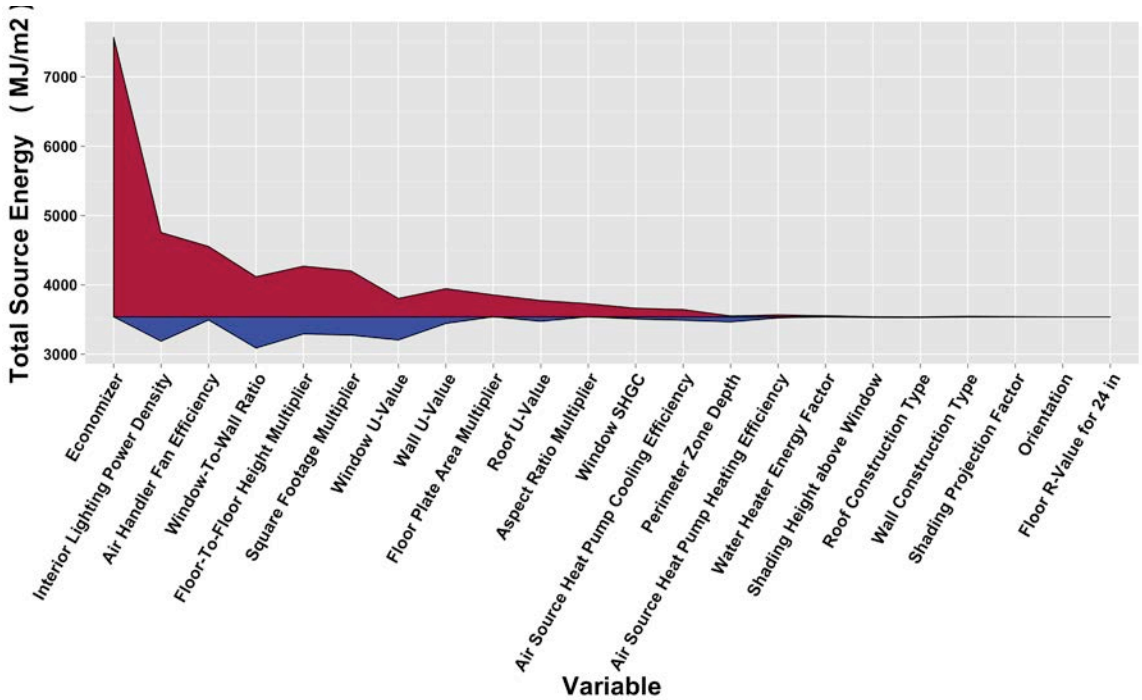
Total Natural Gas



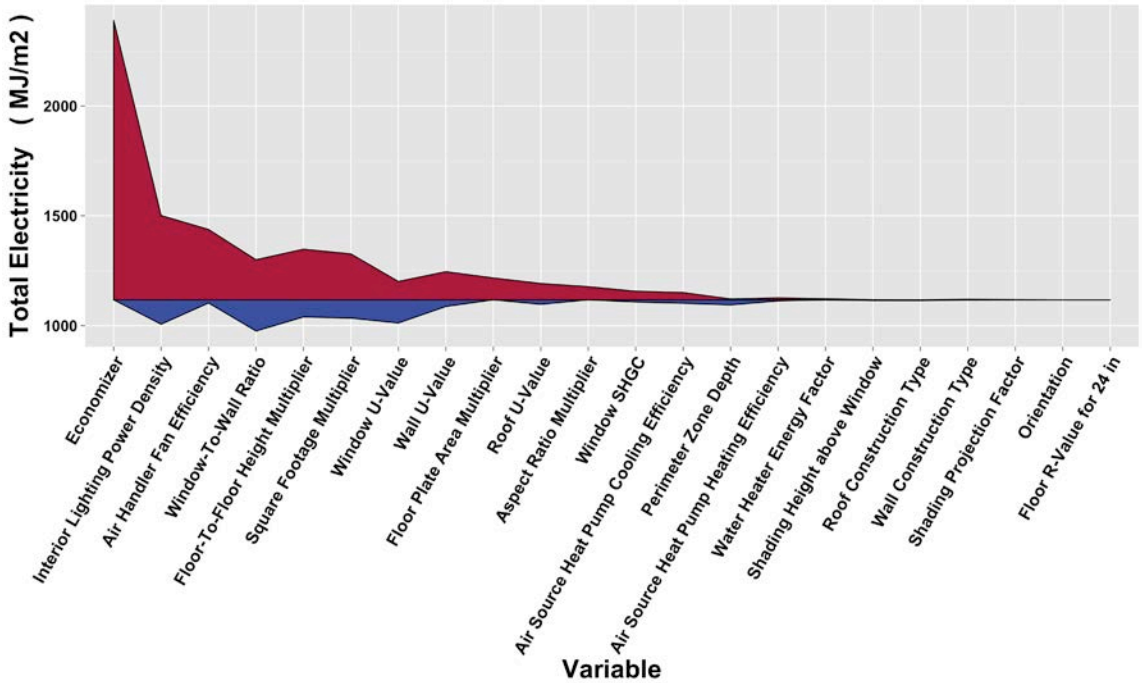
Location: Climate Zone 2A

Total Source Energy

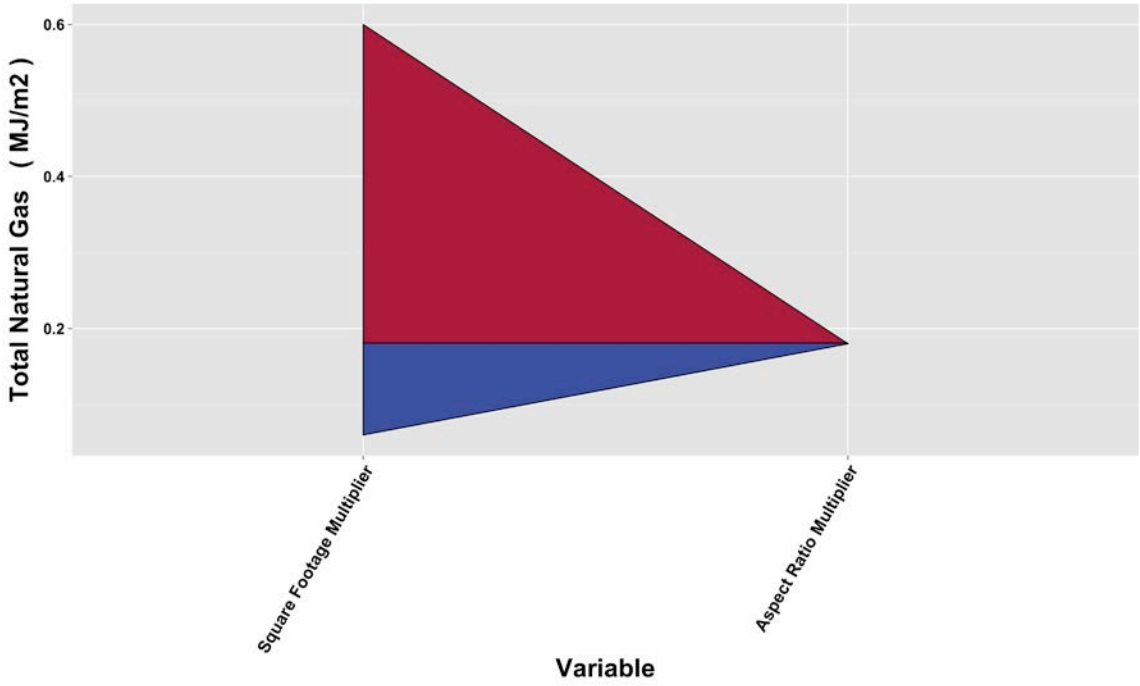
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	3538.54	3727.41
Floor Plate Area Multiplier	6250	37500	3538.54	3853.35
Square Footage Multiplier	11250	112500	3274.59	4201.02
Floor-To-Floor Height Multiplier	12	24	3291.01	4268.64
Perimeter Zone Depth	10	20	3464.52	3550.48
Floor R-Value for 24 in	0	0	3538.54	3538.54
Window-To-Wall Ratio	0	0.95	3087.79	4116.39
Window Sill Height	1	6	3538.54	3538.54
Window U-Value	0.12	1.22	3203.64	3802.80
Window SHGC	0.08	0.7	3507.17	3661.32
Window VLT	0.06	0.89	3538.54	3538.54
Wall Construction Type	masonry-on-masonry	wood-siding	3537.58	3545.85
Wall U-Value	0.03	0.58	3442.10	3944.19
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3526.83	3538.54
Roof U-Value	0.01	0.2	3473.43	3773.73
Daylighting Control Setpoint	0	0	3538.54	3538.54
Interior Lighting Power Density	0.41	4.08	3185.88	4754.46
Shading Projection Factor	0	1	3538.54	3541.94
Shading Height above Window	0	2	3527.46	3539.75
District Chiller Cooling Efficiency	0.52	1.48	3538.54	3538.54
Air Handler Fan Efficiency	17.5	63	3492.42	4553.70
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3488.87	3642.84
Air Source Heat Pump Heating Efficiency	2.4	4.2	3522.73	3566.22
Gas Heating Efficiency	0.87	1.13	3538.54	3538.54
Terminal DX Cooling Efficiency	0.68	1.32	3538.54	3538.54
Terminal Furnace Heating Efficiency	0.87	1.13	3538.54	3538.54
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3538.54	3538.54
Water Heater Energy Factor	1	99	3538.54	3553.04
Economizer	false	true	3538.54	7568.47
Fan Control	cav	false	3538.54	3538.54
Orientation	0	359	3538.54	3538.63



Total Electricity



Total Natural Gas

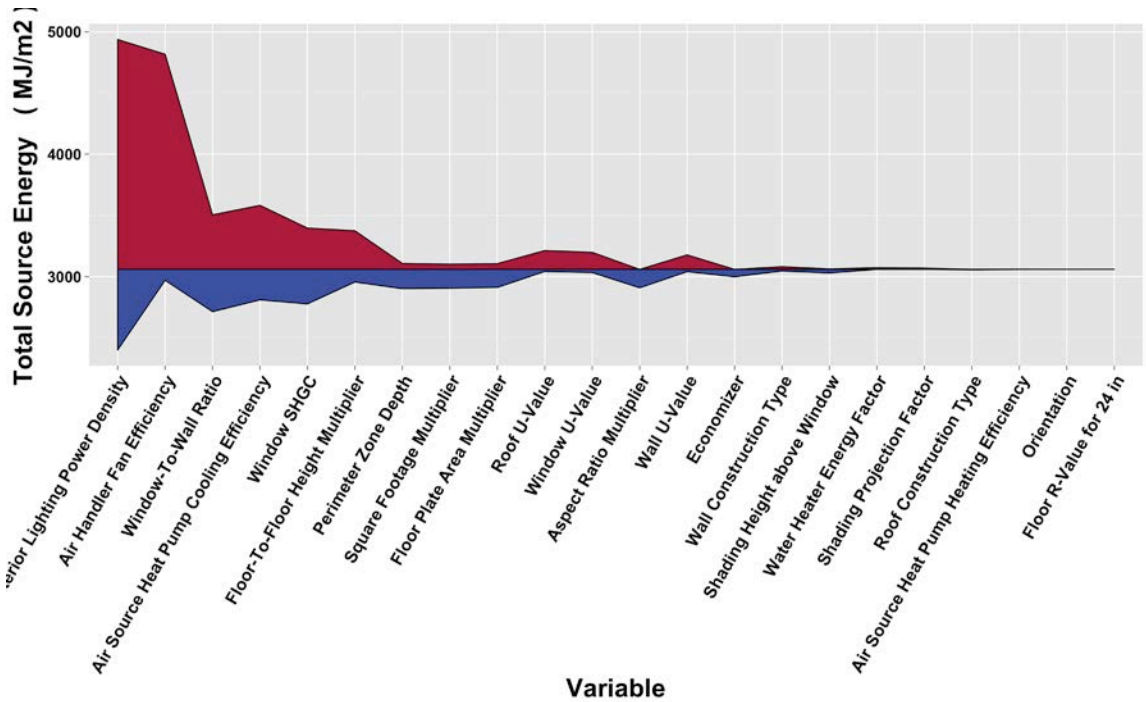


Location: Climate Zone 2B

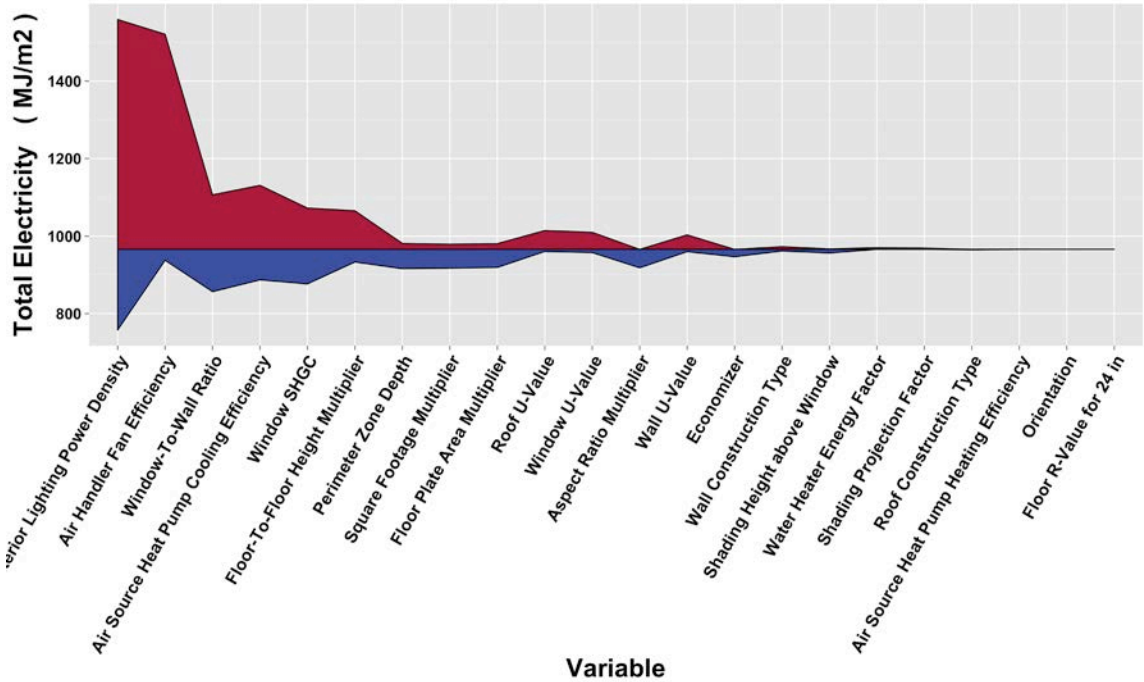
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2908.29	3058.91
Floor Plate Area Multiplier	6250	37500	2911.32	3105.75
Square Footage Multiplier	11250	112500	2905.91	3101.06
Floor-To-Floor Height Multiplier	12	24	2955.57	3374.57
Perimeter Zone Depth	10	20	2900.94	3107.57
Floor R-Value for 24 in	0	0	3058.91	3058.91
Window-To-Wall Ratio	0	0.95	2713.17	3504.73
Window Sill Height	1	6	3058.91	3058.91
Window U-Value	0.12	1.22	3032.61	3198.32
Window SHGC	0.08	0.7	2776.87	3396.20
Window VLT	0.06	0.89	3058.91	3058.91
Wall Construction Type	masonry-on-masonry	wood-siding	3045.58	3080.84
Wall U-Value	0.03	0.58	3040.14	3177.49
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3055.17	3058.91
Roof U-Value	0.01	0.2	3041.77	3212.86
Daylighting Control Setpoint	0	0	3058.91	3058.91
Interior Lighting Power Density	0.41	4.08	2400.07	4936.80
Shading Projection Factor	0	1	3058.91	3069.33

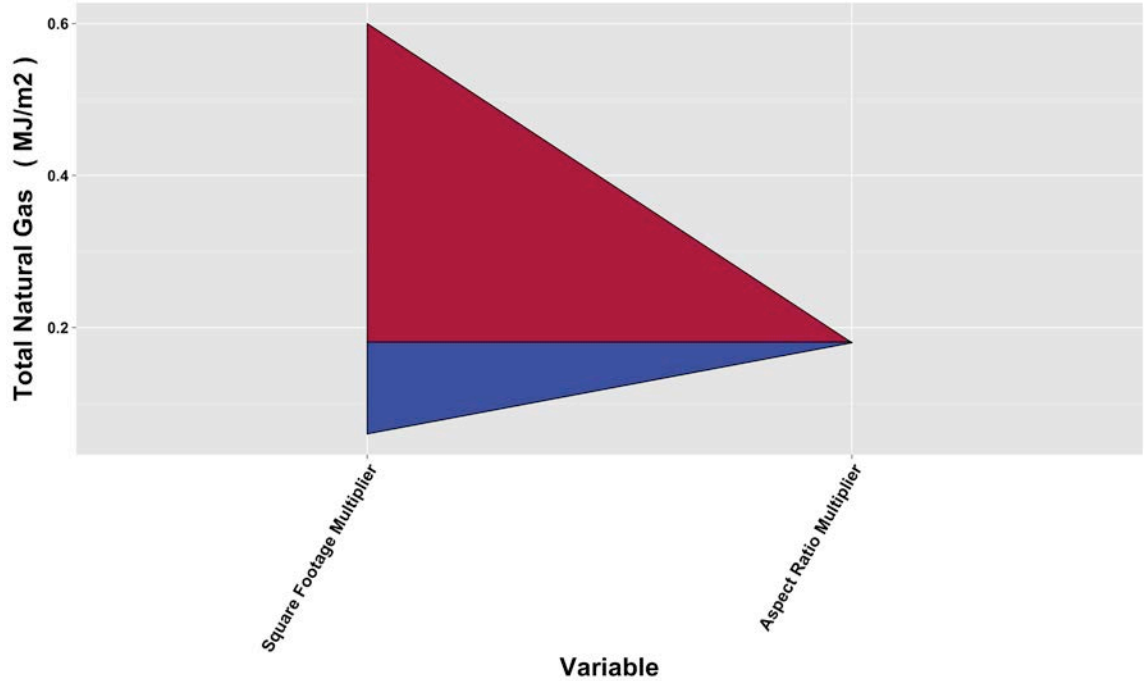
Shading Height above Window	0	2	3029.33	3062.81
District Chiller Cooling Efficiency	0.52	1.48	3058.91	3058.91
Air Handler Fan Efficiency	17.5	63	2969.70	4816.43
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2809.79	3582.06
Air Source Heat Pump Heating Efficiency	2.4	4.2	3058.06	3060.40
Gas Heating Efficiency	0.87	1.13	3058.91	3058.91
Terminal DX Cooling Efficiency	0.68	1.32	3058.91	3058.91
Terminal Furnace Heating Efficiency	0.87	1.13	3058.91	3058.91
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3058.91	3058.91
Water Heater Energy Factor	1	99	3058.91	3072.72
Economizer	false	true	2998.57	3058.91
Fan Control	cav	false	3058.91	3058.91
Orientation	0	359	3058.70	3058.95



Total Electricity



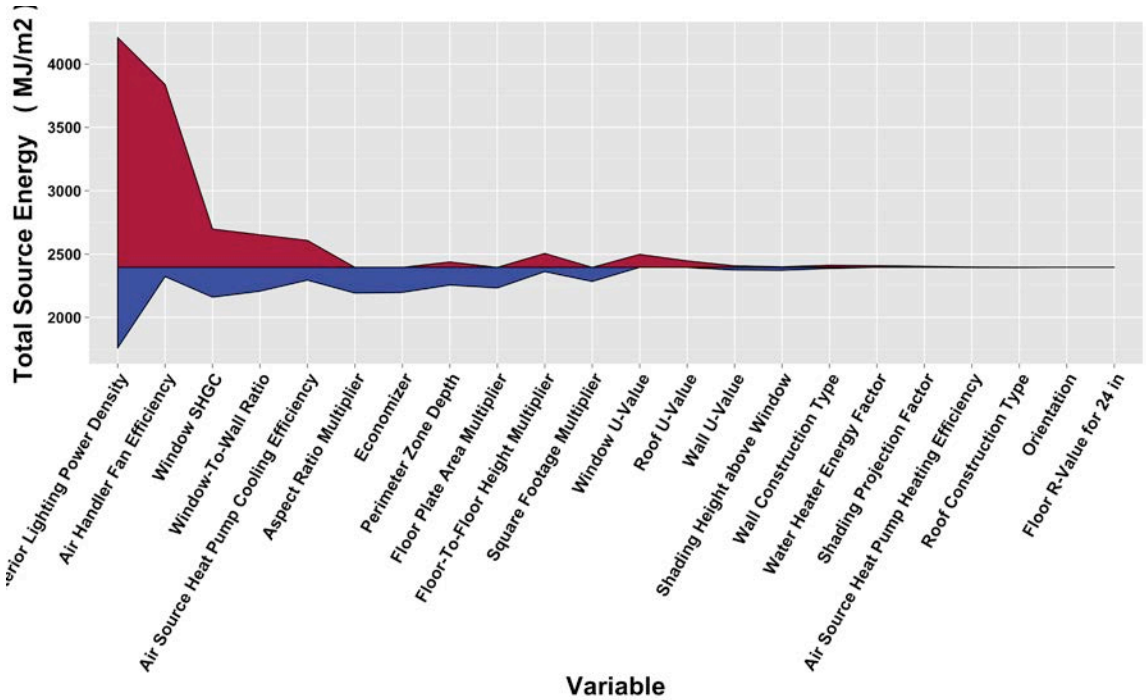
Total Natural Gas



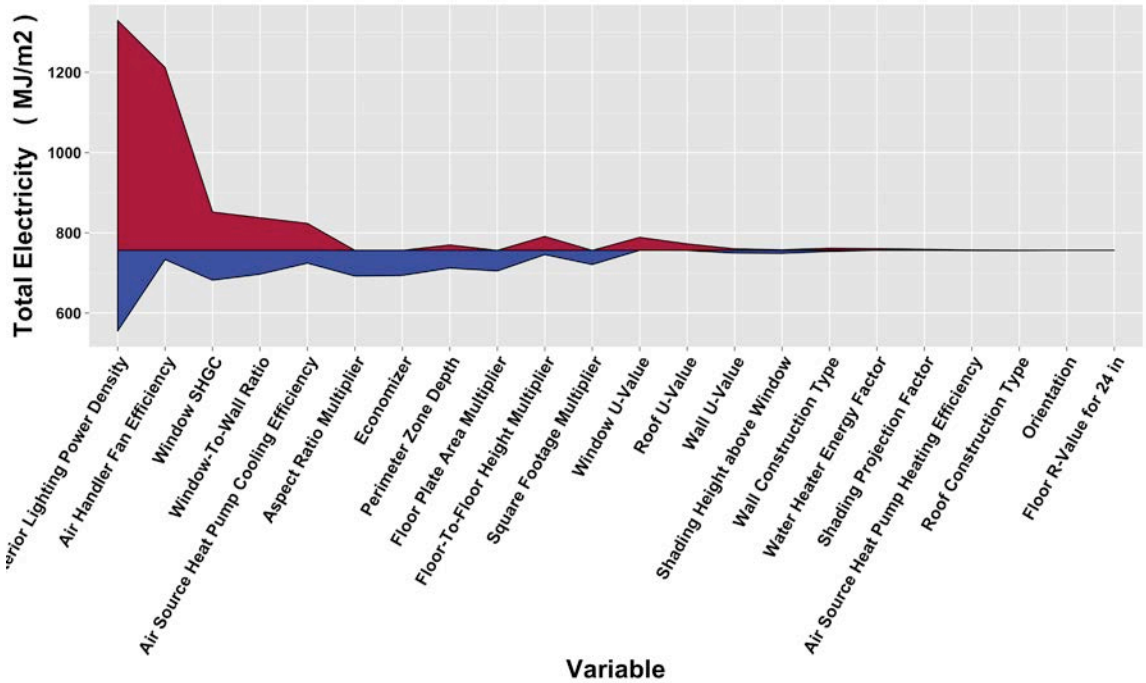
Location: Climate Zone 3A

Total Source Energy

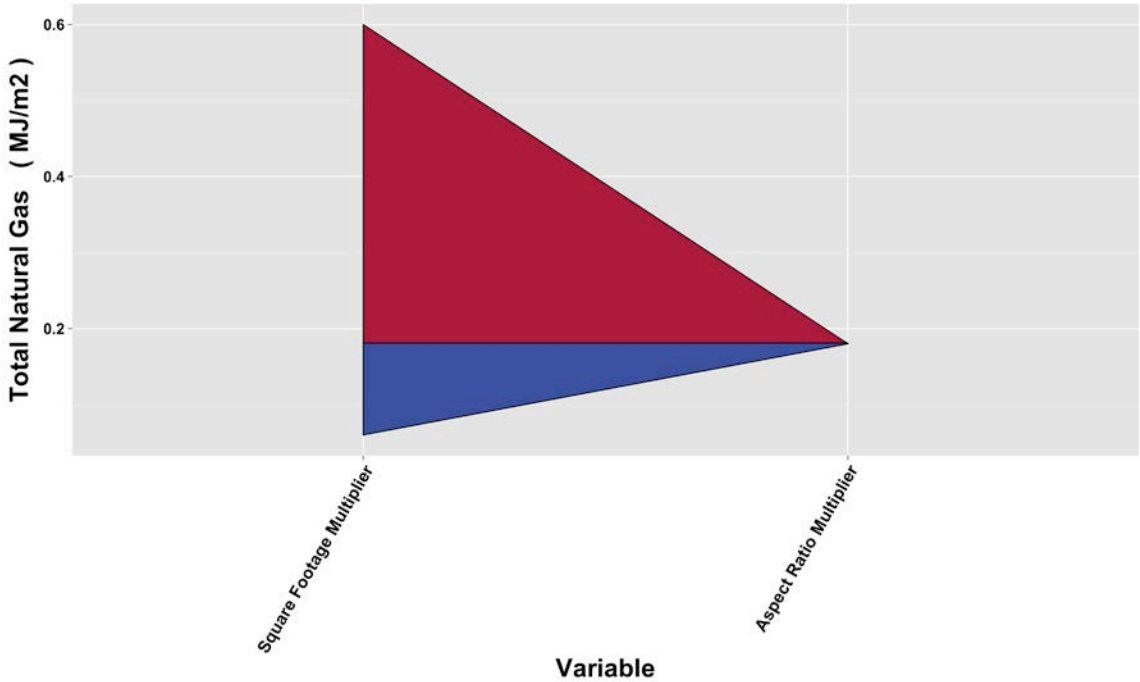
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2191.88	2395.40
Floor Plate Area Multiplier	6250	37500	2232.39	2395.40
Square Footage Multiplier	11250	112500	2283.83	2395.40
Floor-To-Floor Height Multiplier	12	24	2361.55	2505.57
Perimeter Zone Depth	10	20	2255.73	2438.03
Floor R-Value for 24 in	0	0	2395.40	2395.40
Window-To-Wall Ratio	0	0.95	2207.27	2652.56
Window Sill Height	1	6	2395.40	2395.40
Window U-Value	0.12	1.22	2395.40	2498.00
Window SHGC	0.08	0.7	2159.46	2698.05
Window VLT	0.06	0.89	2395.40	2395.40
Wall Construction Type	masonry-on-masonry	wood-siding	2386.86	2412.34
Wall U-Value	0.03	0.58	2373.97	2407.52
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2393.21	2395.40
Roof U-Value	0.01	0.2	2394.19	2446.61
Daylighting Control Setpoint	0	0	2395.40	2395.40
Interior Lighting Power Density	0.41	4.08	1758.48	4210.06
Shading Projection Factor	0	1	2395.40	2403.61
Shading Height above Window	0	2	2371.54	2399.98
District Chiller Cooling Efficiency	0.52	1.48	2395.40	2395.40
Air Handler Fan Efficiency	17.5	63	2322.52	3838.45
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2294.12	2608.09
Air Source Heat Pump Heating Efficiency	2.4	4.2	2393.55	2398.63
Gas Heating Efficiency	0.87	1.13	2395.40	2395.40
Terminal DX Cooling Efficiency	0.68	1.32	2395.40	2395.40
Terminal Furnace Heating Efficiency	0.87	1.13	2395.40	2395.40
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2395.40	2395.40
Water Heater Energy Factor	1	99	2395.40	2409.44
Economizer	false	true	2197.45	2395.40
Fan Control	cav	false	2395.40	2395.40
Orientation	0	359	2395.40	2395.45



Total Electricity



Total Natural Gas

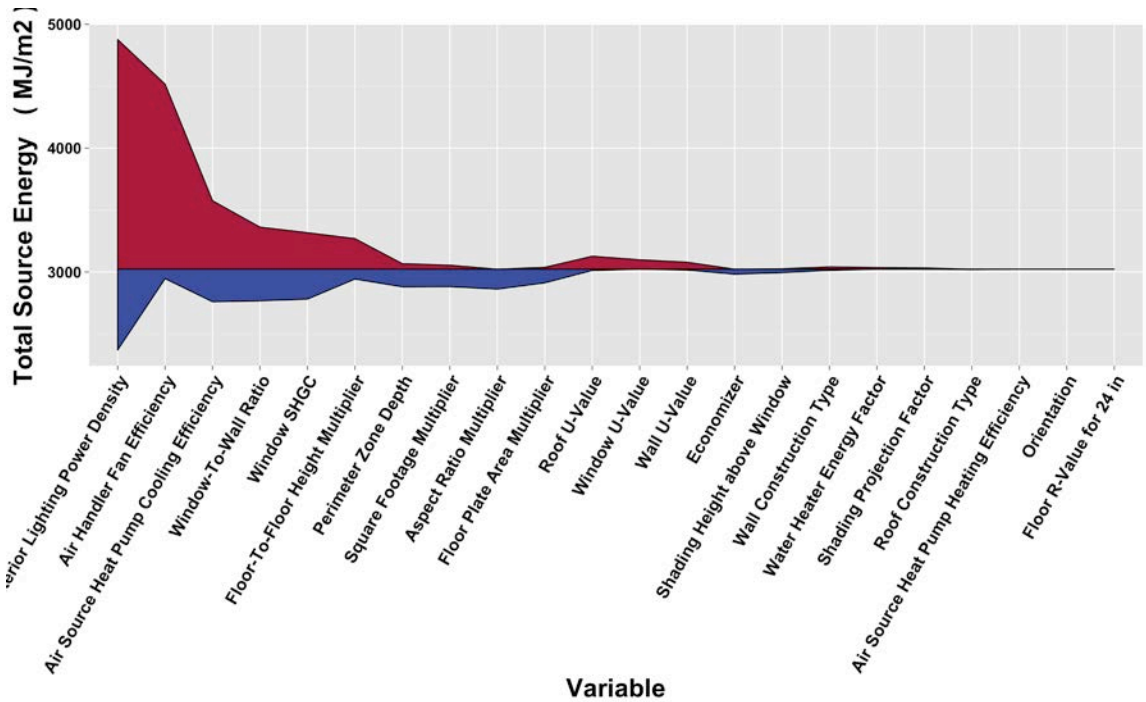


Location: Climate Zone 3B

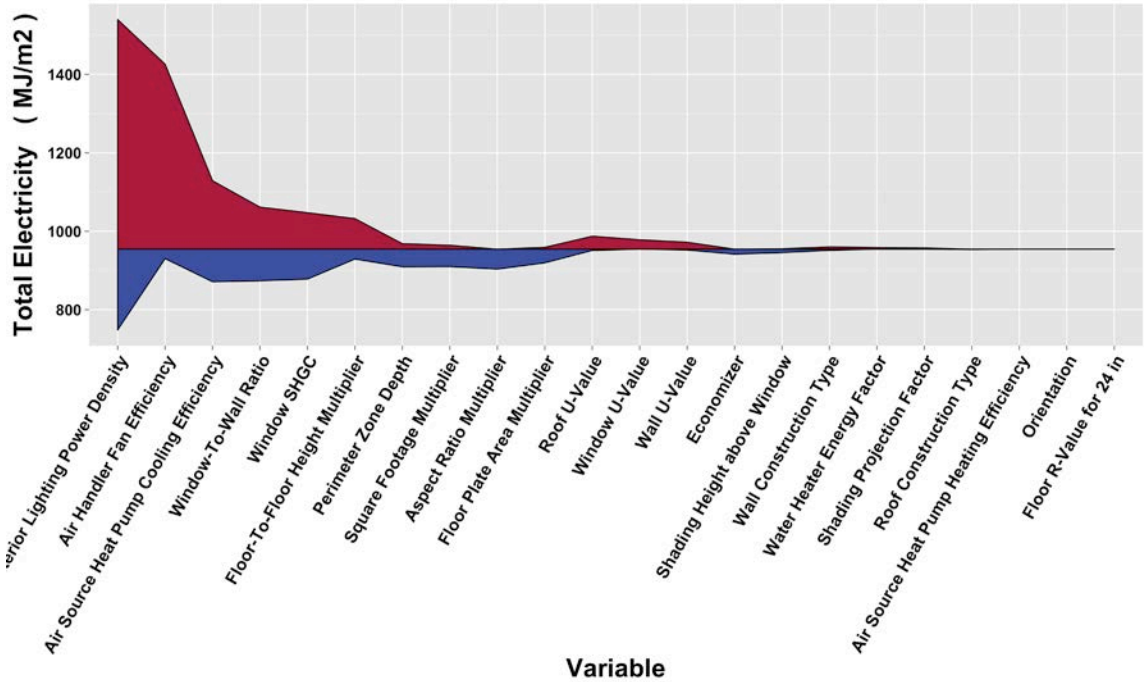
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2861.61	3022.72
Floor Plate Area Multiplier	6250	37500	2912.26	3037.74
Square Footage Multiplier	11250	112500	2882.06	3054.80
Floor-To-Floor Height Multiplier	12	24	2942.83	3269.63
Perimeter Zone Depth	10	20	2880.25	3067.34
Floor R-Value for 24 in	0	0	3022.72	3022.72
Window-To-Wall Ratio	0	0.95	2767.48	3362.31
Window Sill Height	1	6	3022.72	3022.72
Window U-Value	0.12	1.22	3022.72	3098.64
Window SHGC	0.08	0.7	2781.10	3317.17
Window VLT	0.06	0.89	3022.72	3022.72
Wall Construction Type	masonry-on-masonry	wood-siding	3013.32	3041.34
Wall U-Value	0.03	0.58	3015.80	3079.10
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3019.32	3022.72
Roof U-Value	0.01	0.2	3012.38	3127.38
Daylighting Control Setpoint	0	0	3022.72	3022.72
Interior Lighting Power Density	0.41	4.08	2370.00	4876.91
Shading Projection Factor	0	1	3022.72	3032.77

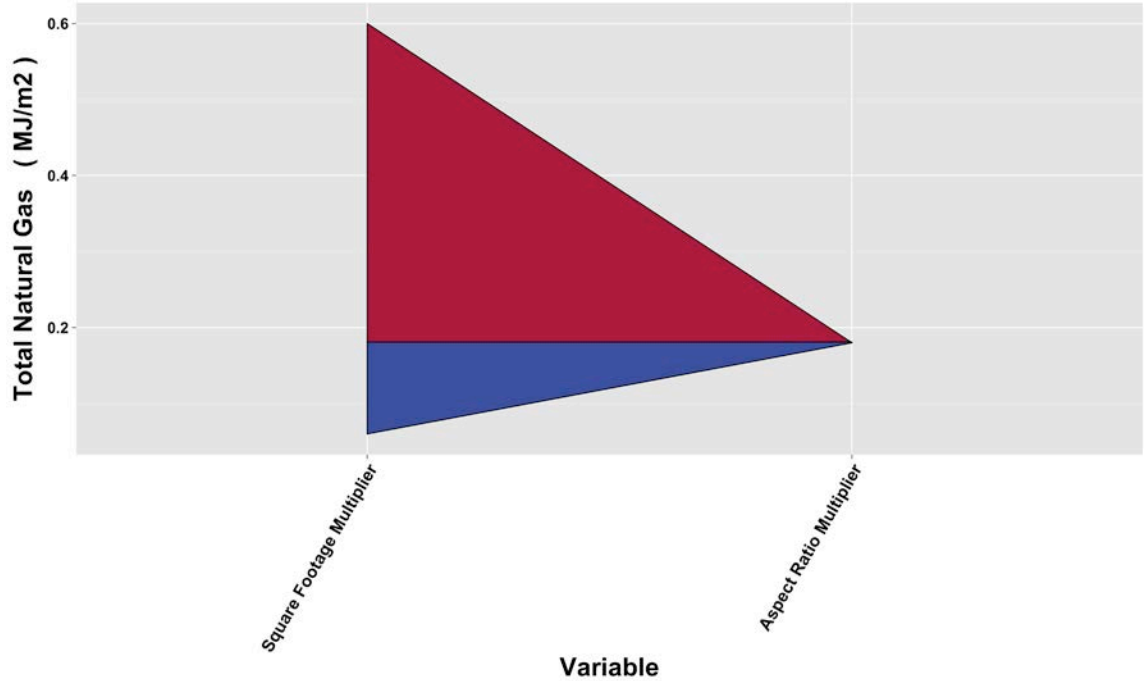
Shading Height above Window	0	2	2994.87	3026.12
District Chiller Cooling Efficiency	0.52	1.48	3022.72	3022.72
Air Handler Fan Efficiency	17.5	63	2946.05	4516.55
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2759.54	3575.40
Air Source Heat Pump Heating Efficiency	2.4	4.2	3022.64	3022.86
Gas Heating Efficiency	0.87	1.13	3022.72	3022.72
Terminal DX Cooling Efficiency	0.68	1.32	3022.72	3022.72
Terminal Furnace Heating Efficiency	0.87	1.13	3022.72	3022.72
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3022.72	3022.72
Water Heater Energy Factor	1	99	3022.72	3036.49
Economizer	false	true	2982.38	3022.72
Fan Control	cav	false	3022.72	3022.72
Orientation	0	359	3022.51	3022.72



Total Electricity



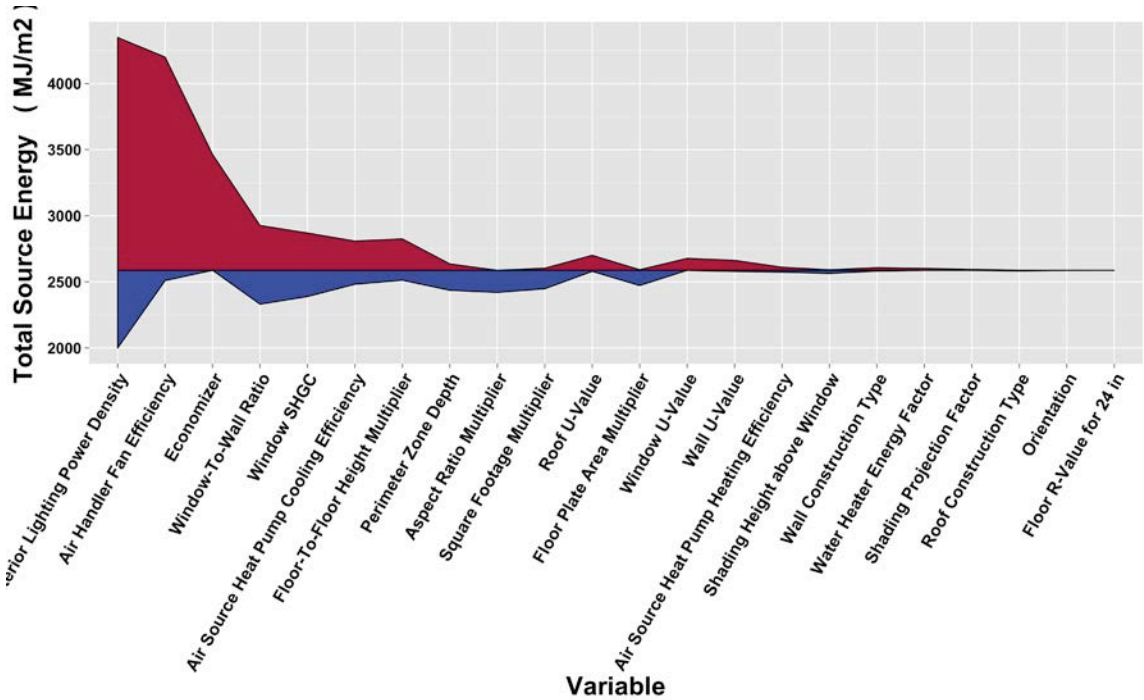
Total Natural Gas



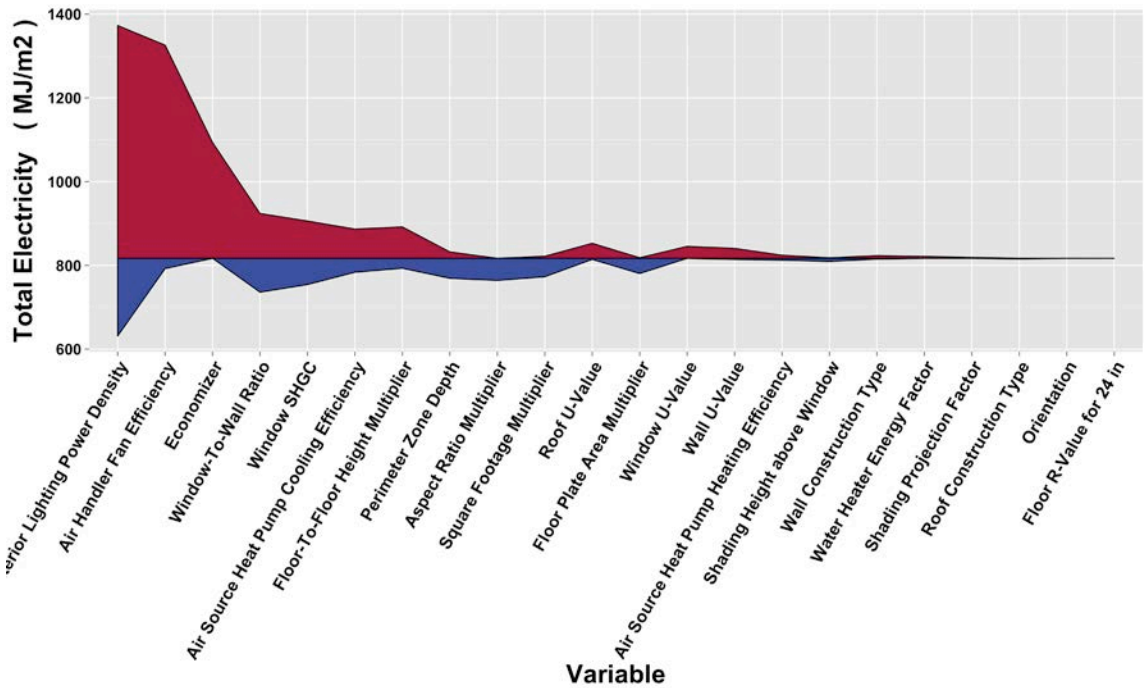
Location: Climate Zone 3C

Total Source Energy

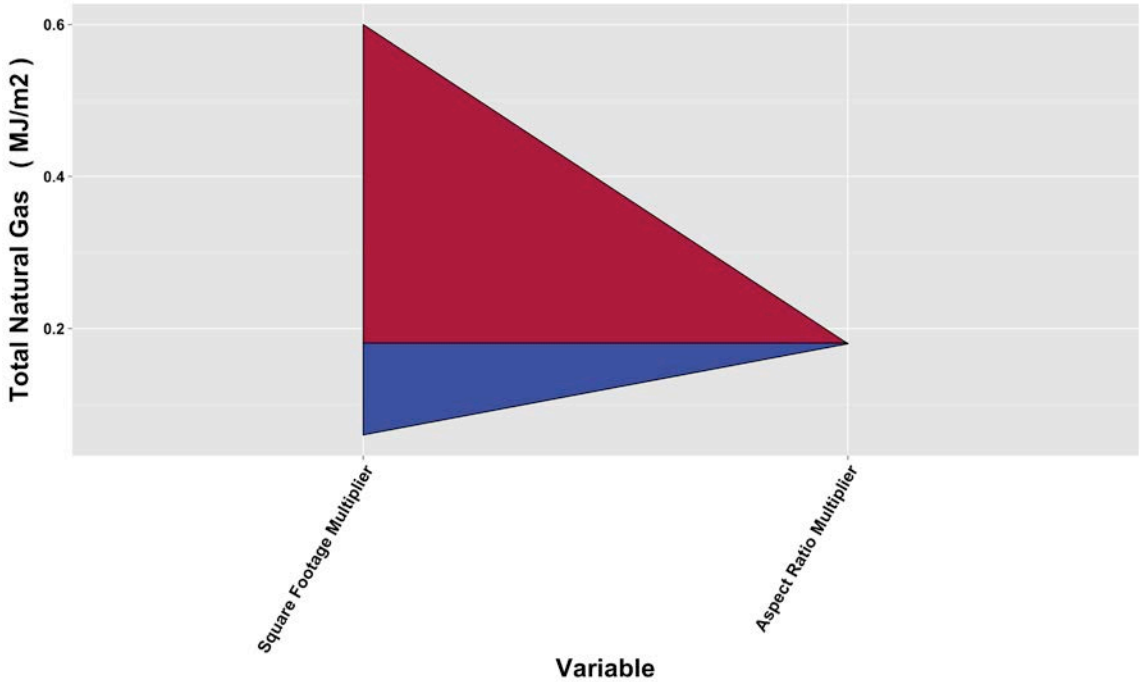
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2420.14	2587.22
Floor Plate Area Multiplier	6250	37500	2472.10	2591.73
Square Footage Multiplier	11250	112500	2447.67	2603.16
Floor-To-Floor Height Multiplier	12	24	2512.19	2824.82
Perimeter Zone Depth	10	20	2436.10	2635.86
Floor R-Value for 24 in	0	0	2587.22	2587.22
Window-To-Wall Ratio	0	0.95	2331.04	2926.45
Window Sill Height	1	6	2587.22	2587.22
Window U-Value	0.12	1.22	2587.22	2677.63
Window SHGC	0.08	0.7	2388.83	2869.36
Window VLT	0.06	0.89	2587.22	2587.22
Wall Construction Type	masonry-on-masonry	wood-siding	2581.49	2607.62
Wall U-Value	0.03	0.58	2578.51	2662.58
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2582.99	2587.22
Roof U-Value	0.01	0.2	2579.16	2700.84
Daylighting Control Setpoint	0	0	2587.22	2587.22
Interior Lighting Power Density	0.41	4.08	1999.45	4348.36
Shading Projection Factor	0	1	2587.22	2594.07
Shading Height above Window	0	2	2563.69	2590.69
District Chiller Cooling Efficiency	0.52	1.48	2587.22	2587.22
Air Handler Fan Efficiency	17.5	63	2509.51	4199.84
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2481.91	2808.38
Air Source Heat Pump Heating Efficiency	2.4	4.2	2573.88	2610.57
Gas Heating Efficiency	0.87	1.13	2587.22	2587.22
Terminal DX Cooling Efficiency	0.68	1.32	2587.22	2587.22
Terminal Furnace Heating Efficiency	0.87	1.13	2587.22	2587.22
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2587.22	2587.22
Water Heater Energy Factor	1	99	2587.22	2601.37
Economizer	false	true	2587.22	3463.38
Fan Control	cav	false	2587.22	2587.22
Orientation	0	359	2586.97	2587.23



Total Electricity



Total Natural Gas

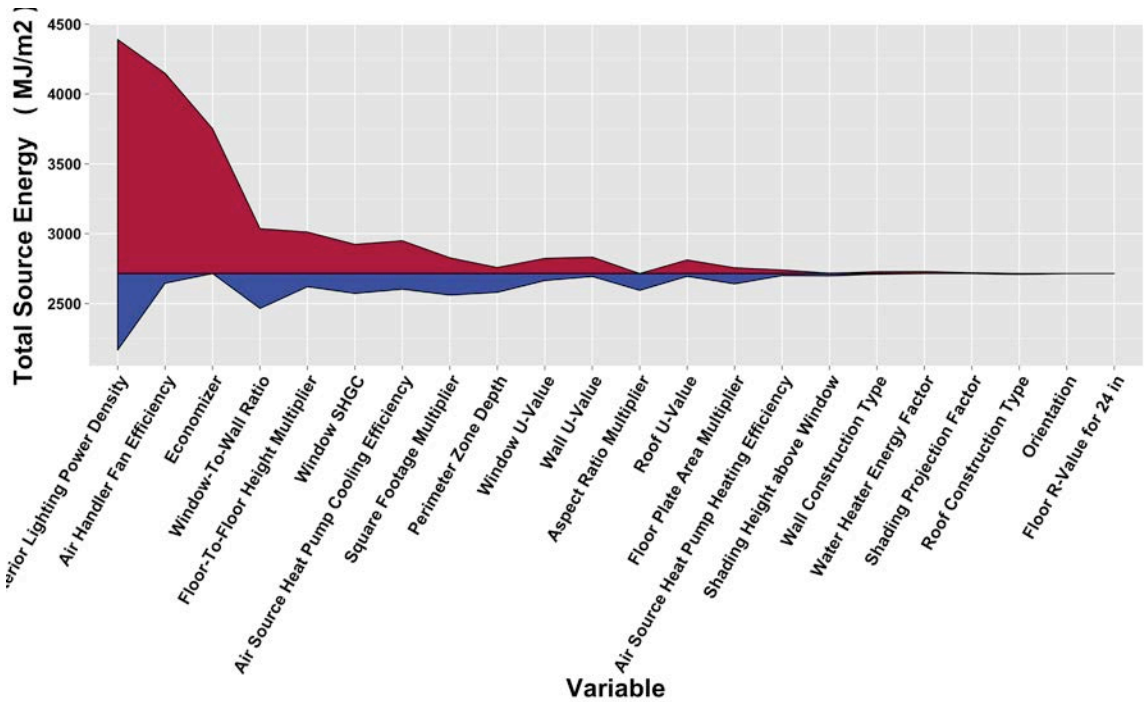


Location: Climate Zone 4A

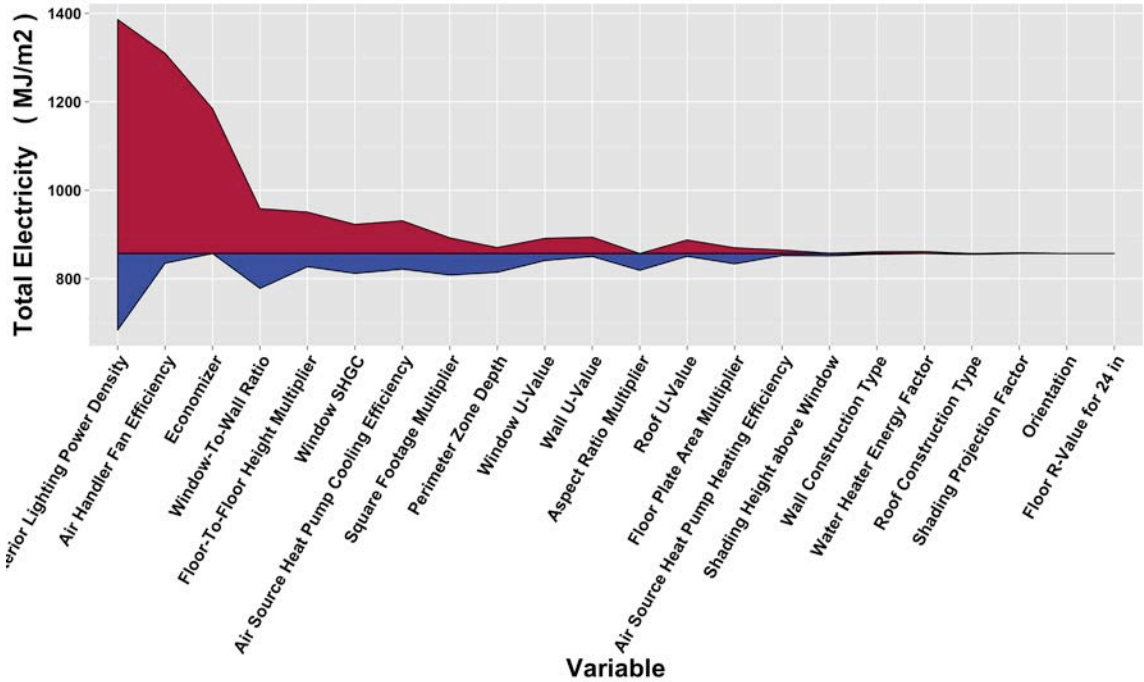
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2594.04	2714.53
Floor Plate Area Multiplier	6250	37500	2640.44	2755.86
Square Footage Multiplier	11250	112500	2560.48	2827.46
Floor-To-Floor Height Multiplier	12	24	2620.44	3011.32
Perimeter Zone Depth	10	20	2580.09	2757.70
Floor R-Value for 24 in	0	0	2714.53	2714.53
Window-To-Wall Ratio	0	0.95	2464.64	3036.23
Window Sill Height	1	6	2714.53	2714.53
Window U-Value	0.12	1.22	2664.10	2823.49
Window SHGC	0.08	0.7	2572.25	2923.44
Window VLT	0.06	0.89	2714.53	2714.53
Wall Construction Type	masonry-on-masonry	wood-siding	2710.45	2727.36
Wall U-Value	0.03	0.58	2693.55	2832.48
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2708.81	2714.53
Roof U-Value	0.01	0.2	2694.70	2811.97
Daylighting Control Setpoint	0	0	2714.53	2714.53
Interior Lighting Power Density	0.41	4.08	2167.00	4390.40
Shading Projection Factor	0	1	2714.53	2720.27

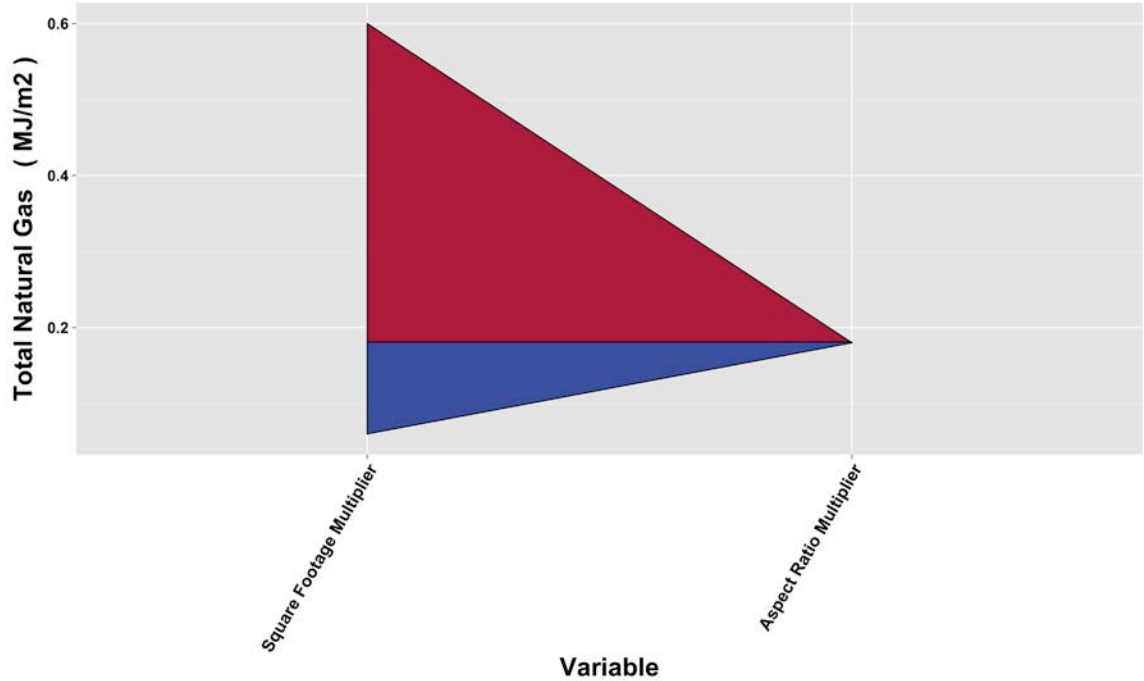
Shading Height above Window	0	2	2697.31	2716.87
District Chiller Cooling Efficiency	0.52	1.48	2714.53	2714.53
Air Handler Fan Efficiency	17.5	63	2645.37	4148.13
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2602.79	2949.18
Air Source Heat Pump Heating Efficiency	2.4	4.2	2699.95	2740.04
Gas Heating Efficiency	0.87	1.13	2714.53	2714.53
Terminal DX Cooling Efficiency	0.68	1.32	2714.53	2714.53
Terminal Furnace Heating Efficiency	0.87	1.13	2714.53	2714.53
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2714.53	2714.53
Water Heater Energy Factor	1	99	2714.53	2728.68
Economizer	false	true	2714.53	3751.50
Fan Control	cav	false	2714.53	2714.53
Orientation	0	359	2714.43	2714.53



Total Electricity



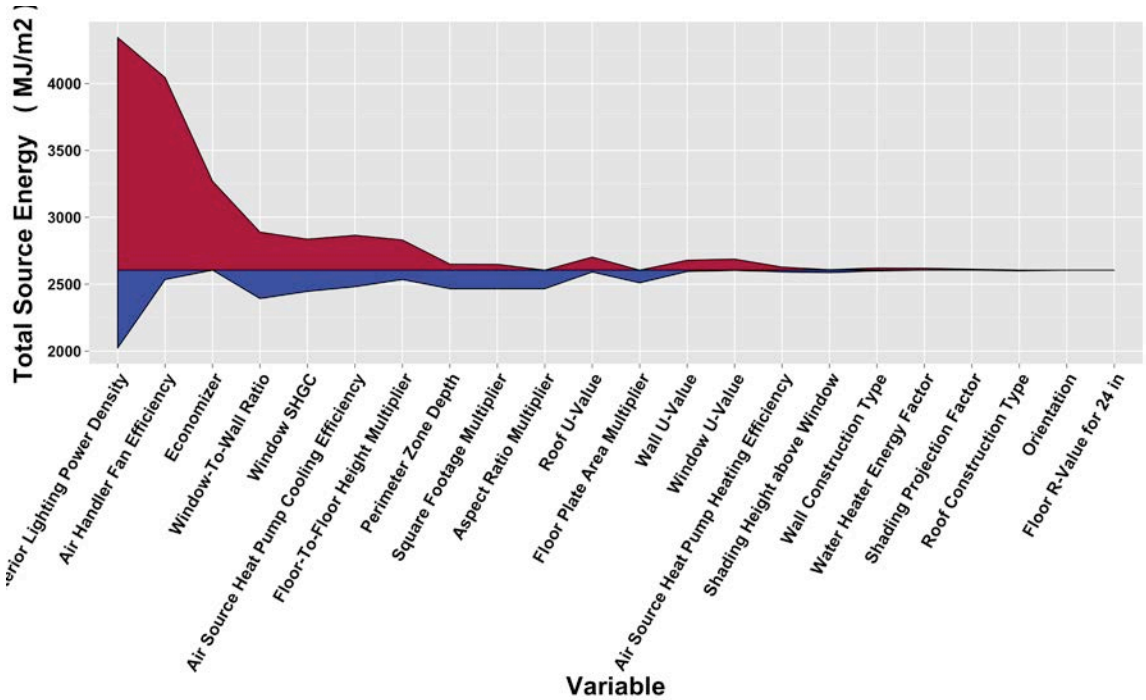
Total Natural Gas



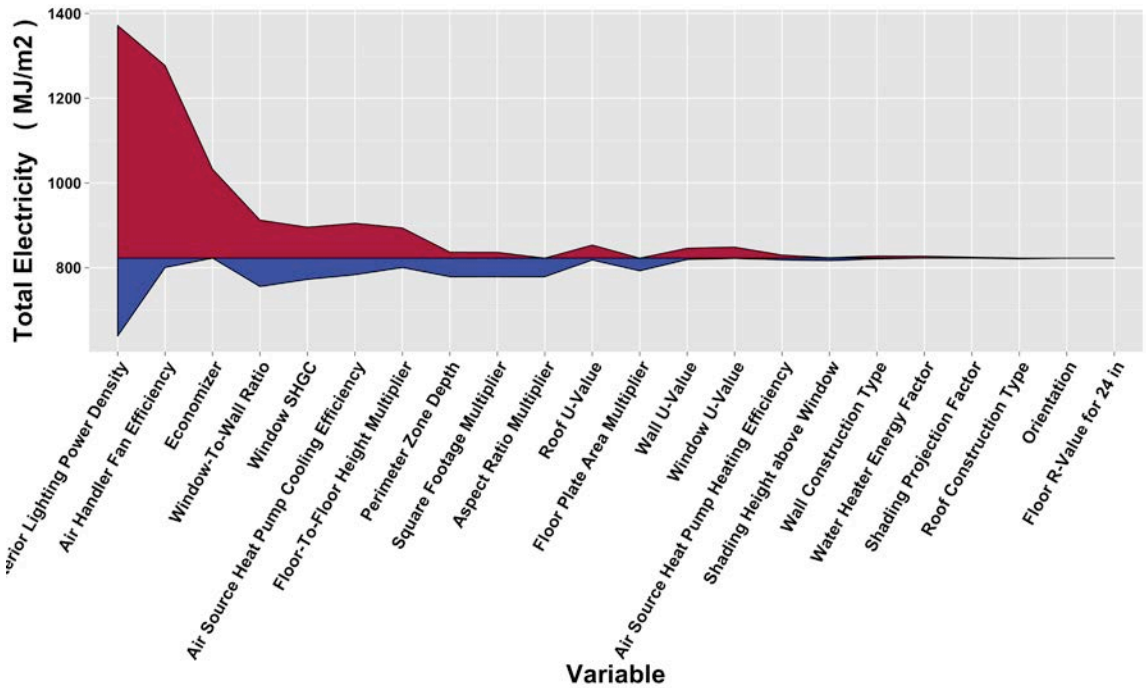
Location: Climate Zone 4B

Total Source Energy

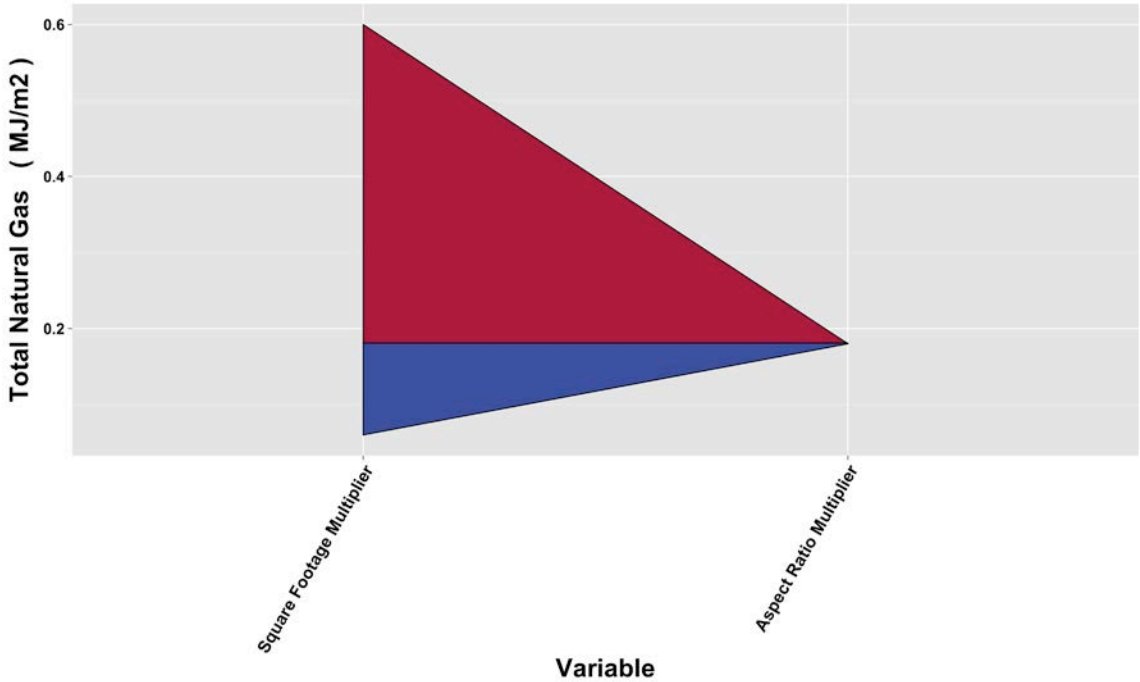
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2466.30	2605.14
Floor Plate Area Multiplier	6250	37500	2510.12	2605.14
Square Footage Multiplier	11250	112500	2466.64	2648.88
Floor-To-Floor Height Multiplier	12	24	2534.98	2830.78
Perimeter Zone Depth	10	20	2466.34	2650.19
Floor R-Value for 24 in	0	0	2605.14	2605.14
Window-To-Wall Ratio	0	0.95	2392.44	2889.20
Window Sill Height	1	6	2605.14	2605.14
Window U-Value	0.12	1.22	2603.53	2687.48
Window SHGC	0.08	0.7	2446.44	2836.28
Window VLT	0.06	0.89	2605.14	2605.14
Wall Construction Type	masonry-on-masonry	wood-siding	2599.74	2621.38
Wall U-Value	0.03	0.58	2594.70	2679.20
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2600.85	2605.14
Roof U-Value	0.01	0.2	2591.07	2702.94
Daylighting Control Setpoint	0	0	2605.14	2605.14
Interior Lighting Power Density	0.41	4.08	2023.01	4343.96
Shading Projection Factor	0	1	2605.14	2612.29
Shading Height above Window	0	2	2586.21	2608.17
District Chiller Cooling Efficiency	0.52	1.48	2605.14	2605.14
Air Handler Fan Efficiency	17.5	63	2534.80	4044.17
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2481.03	2865.77
Air Source Heat Pump Heating Efficiency	2.4	4.2	2592.10	2627.95
Gas Heating Efficiency	0.87	1.13	2605.14	2605.14
Terminal DX Cooling Efficiency	0.68	1.32	2605.14	2605.14
Terminal Furnace Heating Efficiency	0.87	1.13	2605.14	2605.14
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2605.14	2605.14
Water Heater Energy Factor	1	99	2605.14	2619.24
Economizer	false	true	2605.14	3269.66
Fan Control	cav	false	2605.14	2605.14
Orientation	0	359	2605.04	2605.21



Total Electricity



Total Natural Gas

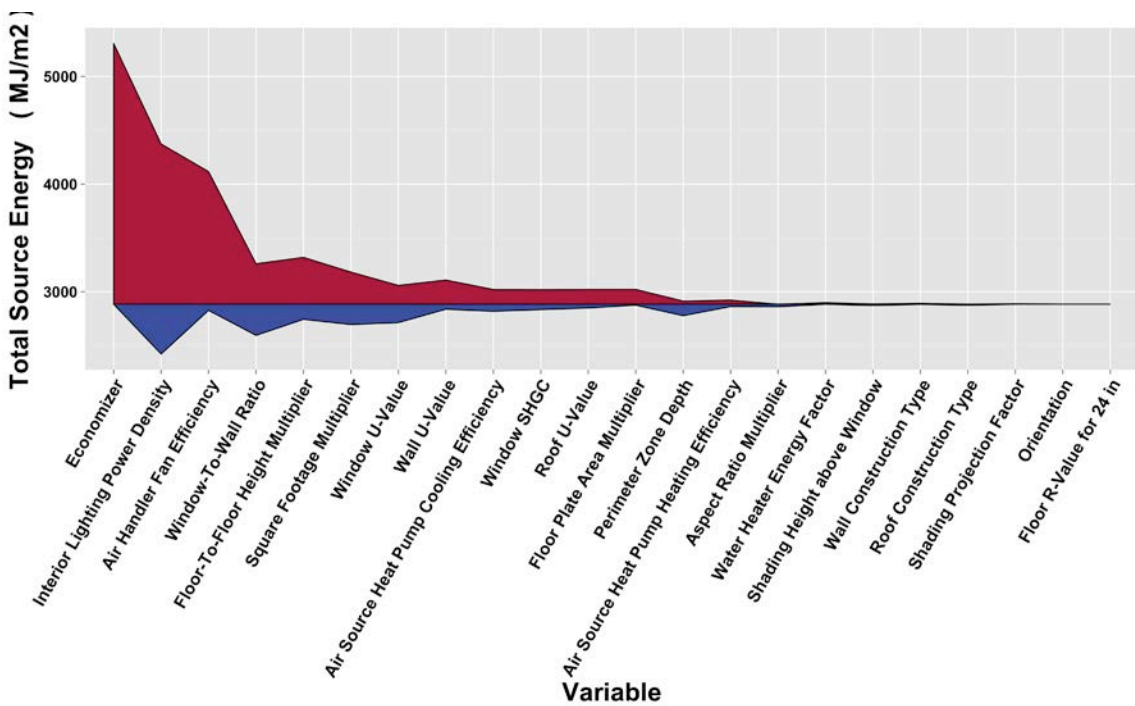


Location: Climate Zone 4C

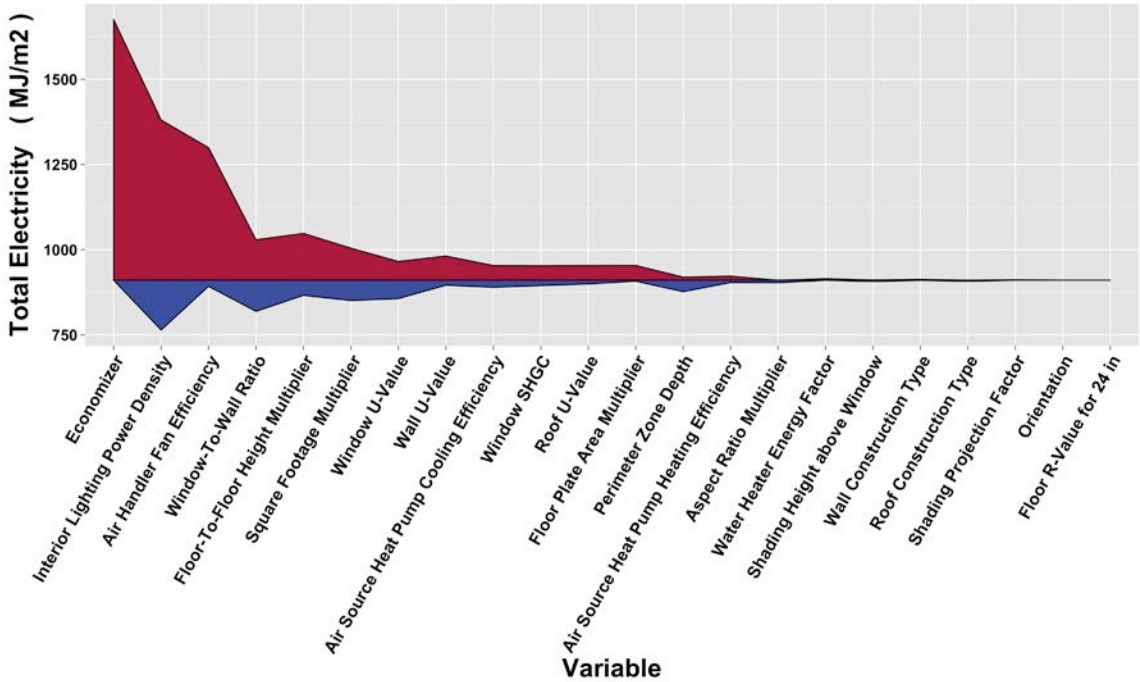
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2860.29	2883.64
Floor Plate Area Multiplier	6250	37500	2875.09	3021.58
Square Footage Multiplier	11250	112500	2695.44	3182.26
Floor-To-Floor Height Multiplier	12	24	2743.20	3319.15
Perimeter Zone Depth	10	20	2777.28	2913.01
Floor R-Value for 24 in	0	0	2883.64	2883.64
Window-To-Wall Ratio	0	0.95	2594.47	3259.88
Window Sill Height	1	6	2883.64	2883.64
Window U-Value	0.12	1.22	2713.20	3058.41
Window SHGC	0.08	0.7	2833.71	3018.61
Window VLT	0.06	0.89	2883.64	2883.64
Wall Construction Type	masonry-on-masonry	wood-siding	2882.84	2892.02
Wall U-Value	0.03	0.58	2837.42	3108.70
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2874.70	2883.64
Roof U-Value	0.01	0.2	2849.23	3021.24
Daylighting Control Setpoint	0	0	2883.64	2883.64
Interior Lighting Power Density	0.41	4.08	2421.19	4372.87
Shading Projection Factor	0	1	2883.64	2887.72

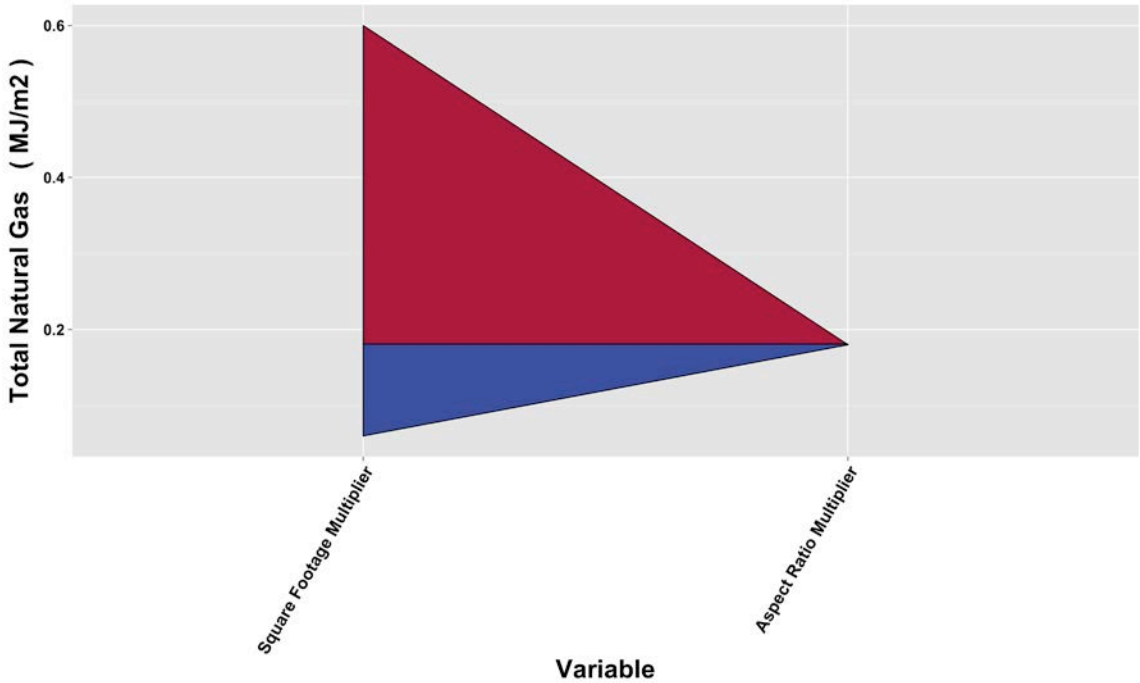
Shading Height above Window	0	2	2872.25	2886.06
District Chiller Cooling Efficiency	0.52	1.48	2883.64	2883.64
Air Handler Fan Efficiency	17.5	63	2826.87	4115.94
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2818.28	3020.91
Air Source Heat Pump Heating Efficiency	2.4	4.2	2861.90	2921.69
Gas Heating Efficiency	0.87	1.13	2883.64	2883.64
Terminal DX Cooling Efficiency	0.68	1.32	2883.64	2883.64
Terminal Furnace Heating Efficiency	0.87	1.13	2883.64	2883.64
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2883.64	2883.64
Water Heater Energy Factor	1	99	2883.64	2897.99
Economizer	false	true	2883.64	5306.10
Fan Control	cav	false	2883.64	2883.64
Orientation	0	359	2883.57	2883.69



Total Electricity



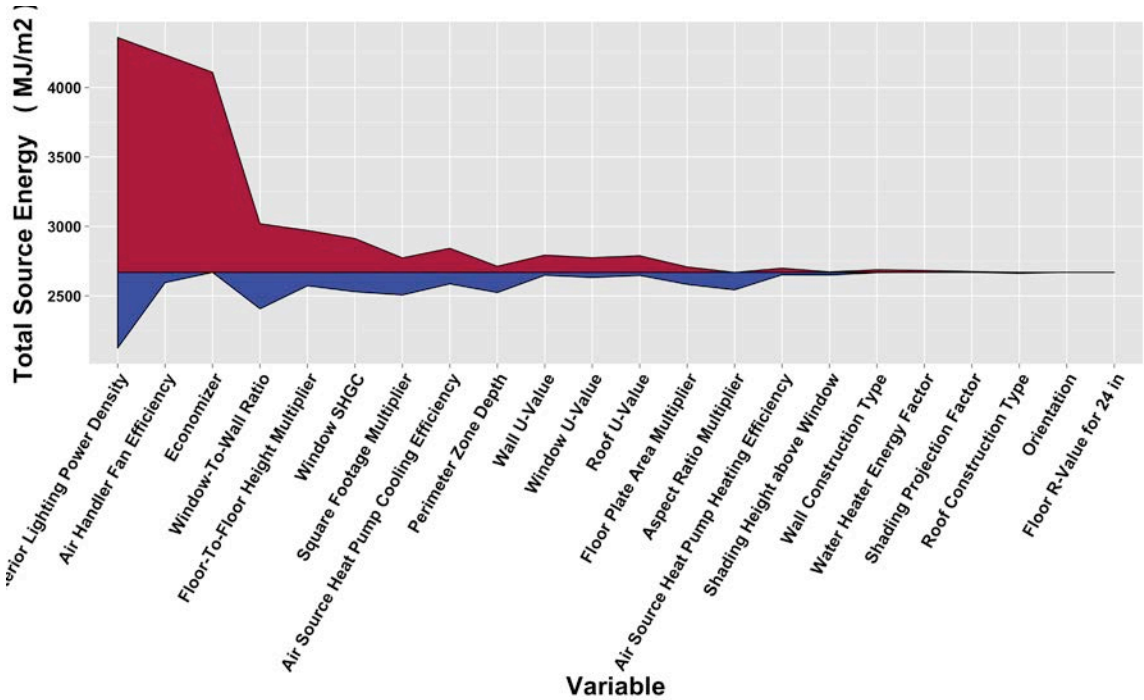
Total Natural Gas



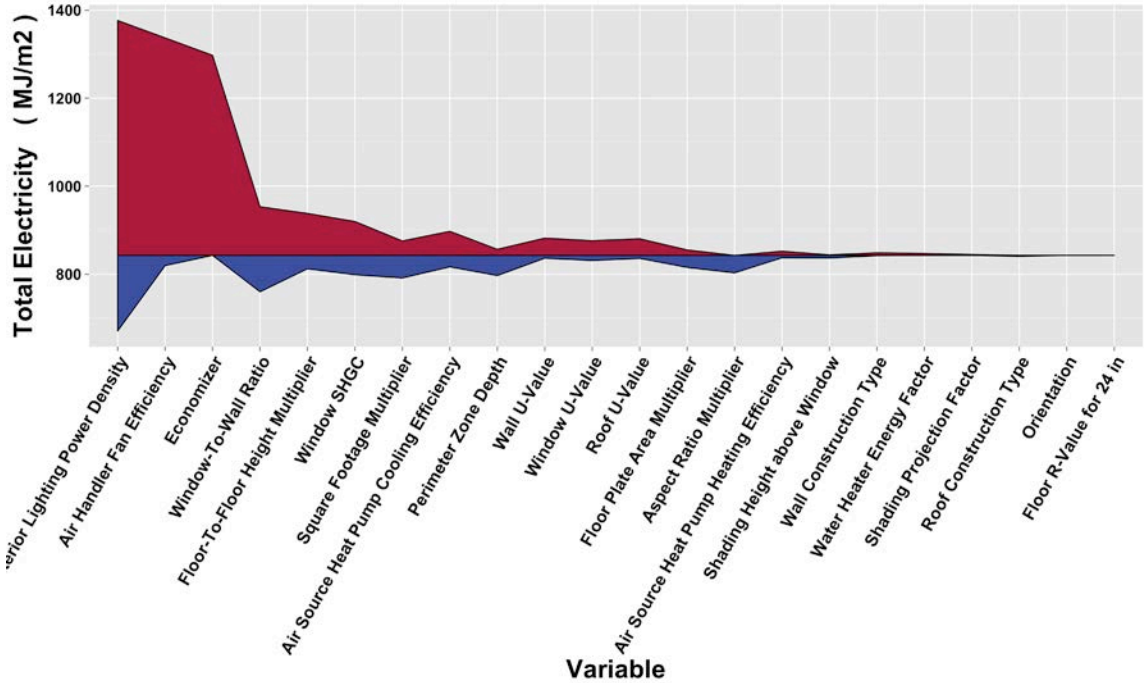
Location: Climate Zone 5A

Total Source Energy

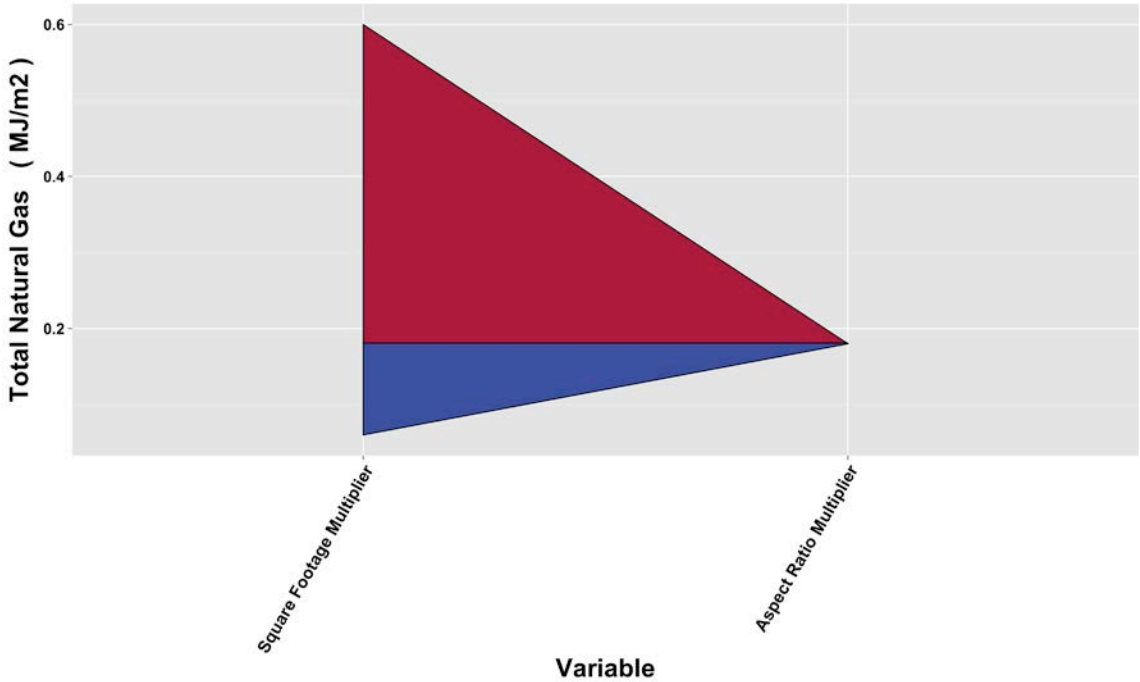
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2543.40	2669.10
Floor Plate Area Multiplier	6250	37500	2582.71	2708.54
Square Footage Multiplier	11250	112500	2506.41	2773.67
Floor-To-Floor Height Multiplier	12	24	2572.83	2971.29
Perimeter Zone Depth	10	20	2523.85	2713.06
Floor R-Value for 24 in	0	0	2669.10	2669.10
Window-To-Wall Ratio	0	0.95	2407.08	3019.22
Window Sill Height	1	6	2669.10	2669.10
Window U-Value	0.12	1.22	2632.52	2774.91
Window SHGC	0.08	0.7	2529.99	2913.02
Window VLT	0.06	0.89	2669.10	2669.10
Wall Construction Type	masonry-on-masonry	wood-siding	2667.02	2687.66
Wall U-Value	0.03	0.58	2648.75	2793.66
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2662.82	2669.10
Roof U-Value	0.01	0.2	2647.51	2789.00
Daylighting Control Setpoint	0	0	2669.10	2669.10
Interior Lighting Power Density	0.41	4.08	2124.76	4359.86
Shading Projection Factor	0	1	2669.10	2675.57
Shading Height above Window	0	2	2650.20	2673.02
District Chiller Cooling Efficiency	0.52	1.48	2669.10	2669.10
Air Handler Fan Efficiency	17.5	63	2595.53	4234.93
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2586.46	2842.65
Air Source Heat Pump Heating Efficiency	2.4	4.2	2651.90	2699.20
Gas Heating Efficiency	0.87	1.13	2669.10	2669.10
Terminal DX Cooling Efficiency	0.68	1.32	2669.10	2669.10
Terminal Furnace Heating Efficiency	0.87	1.13	2669.10	2669.10
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2669.10	2669.10
Water Heater Energy Factor	1	99	2669.10	2683.34
Economizer	false	true	2669.10	4109.11
Fan Control	cav	false	2669.10	2669.10
Orientation	0	359	2668.95	2669.10



Total Electricity



Total Natural Gas

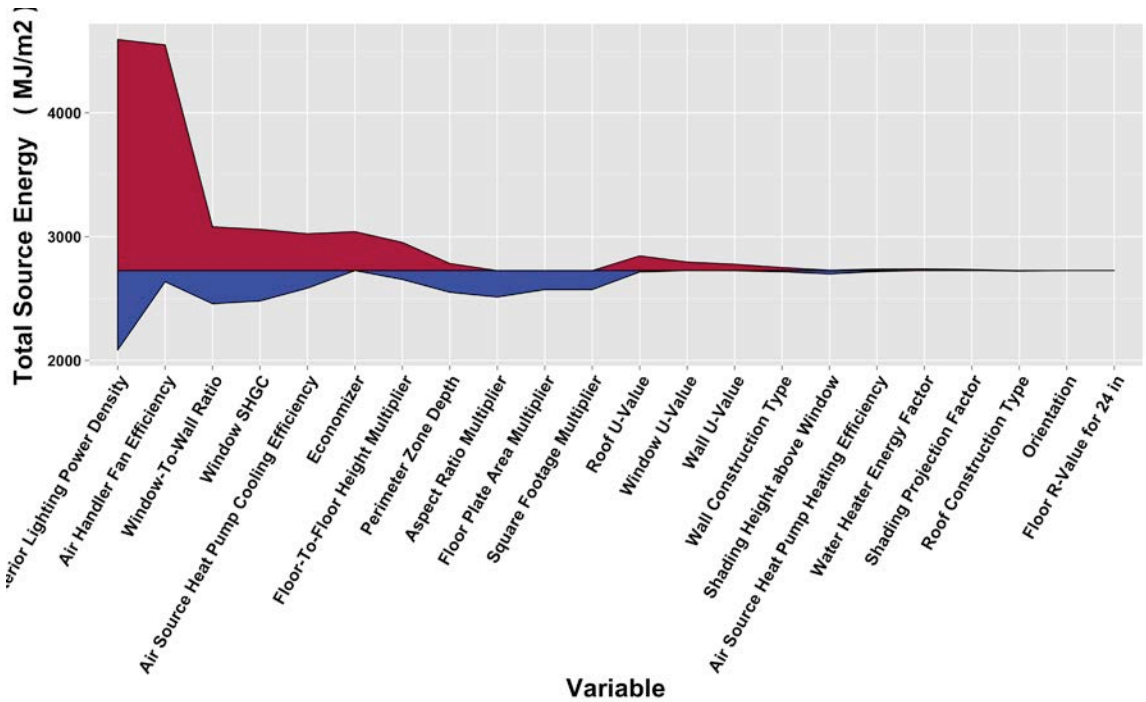


Location: Climate Zone 5B

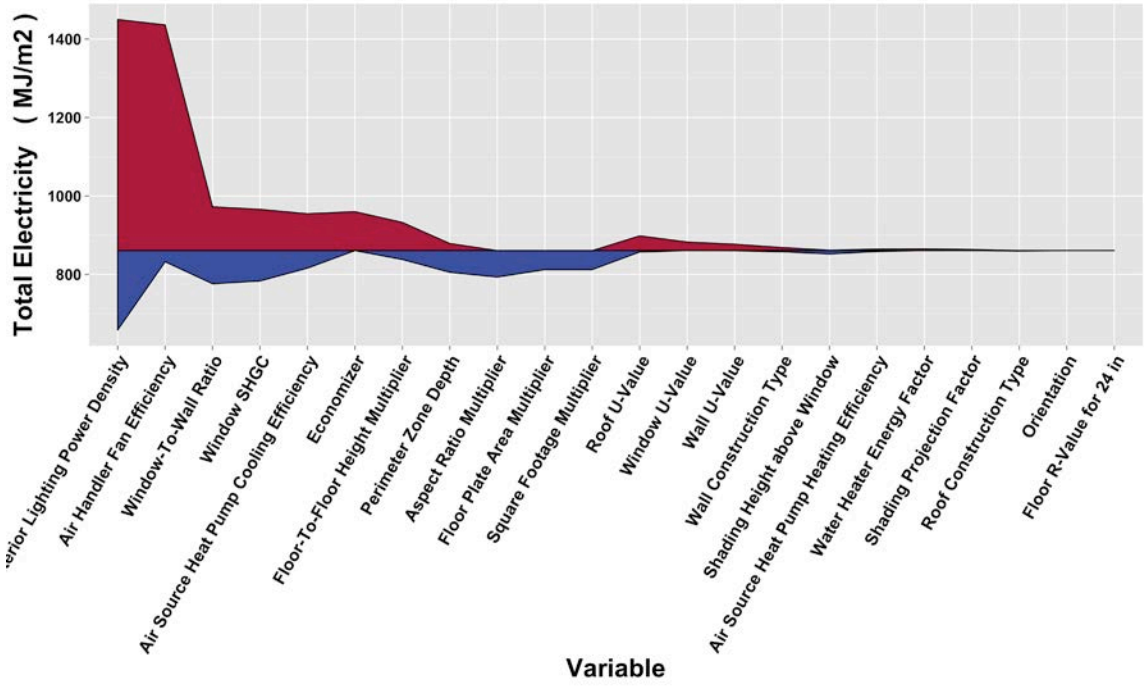
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2512.42	2725.97
Floor Plate Area Multiplier	6250	37500	2572.38	2725.97
Square Footage Multiplier	11250	112500	2572.53	2725.97
Floor-To-Floor Height Multiplier	12	24	2654.12	2953.64
Perimeter Zone Depth	10	20	2550.58	2783.41
Floor R-Value for 24 in	0	0	2725.97	2725.97
Window-To-Wall Ratio	0	0.95	2458.22	3079.75
Window Sill Height	1	6	2725.97	2725.97
Window U-Value	0.12	1.22	2725.97	2795.36
Window SHGC	0.08	0.7	2480.84	3059.07
Window VLT	0.06	0.89	2725.97	2725.97
Wall Construction Type	masonry-on-masonry	wood-siding	2717.17	2750.76
Wall U-Value	0.03	0.58	2724.33	2777.43
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2722.22	2725.97
Roof U-Value	0.01	0.2	2714.83	2845.13
Daylighting Control Setpoint	0	0	2725.97	2725.97
Interior Lighting Power Density	0.41	4.08	2084.46	4592.73
Shading Projection Factor	0	1	2725.97	2734.87

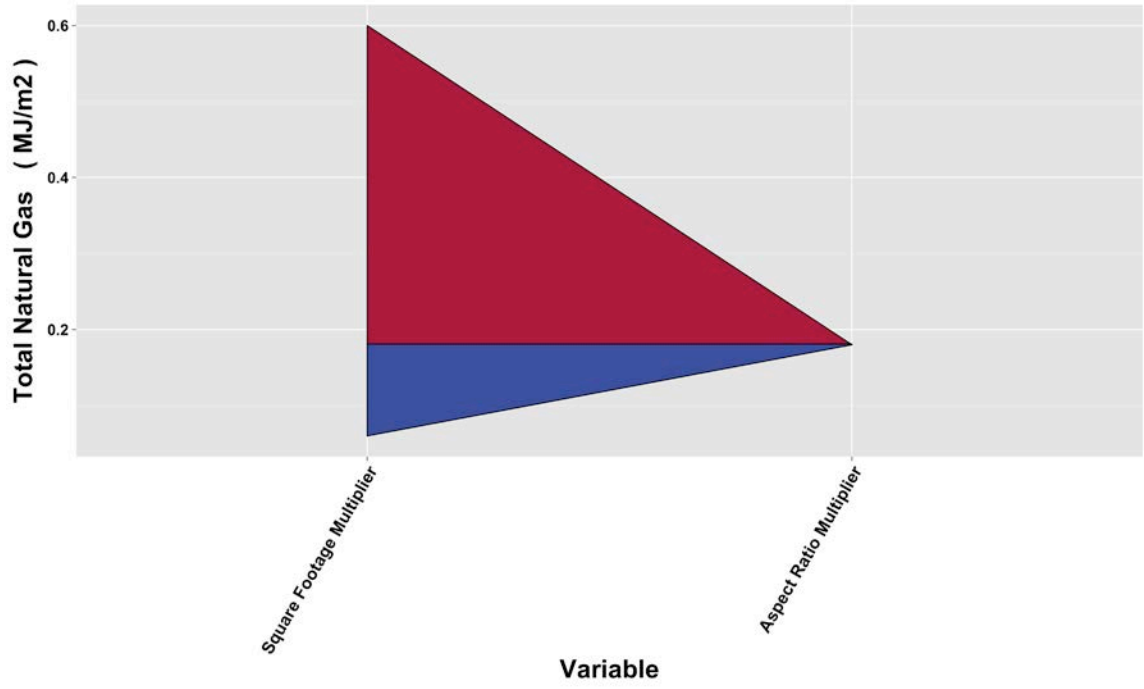
Shading Height above Window	0	2	2698.89	2729.24
District Chiller Cooling Efficiency	0.52	1.48	2725.97	2725.97
Air Handler Fan Efficiency	17.5	63	2635.68	4548.83
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2584.24	3023.60
Air Source Heat Pump Heating Efficiency	2.4	4.2	2719.03	2738.11
Gas Heating Efficiency	0.87	1.13	2725.97	2725.97
Terminal DX Cooling Efficiency	0.68	1.32	2725.97	2725.97
Terminal Furnace Heating Efficiency	0.87	1.13	2725.97	2725.97
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2725.97	2725.97
Water Heater Energy Factor	1	99	2725.97	2740.02
Economizer	false	true	2725.97	3040.61
Fan Control	cav	false	2725.97	2725.97
Orientation	0	359	2725.88	2726.03



Total Electricity



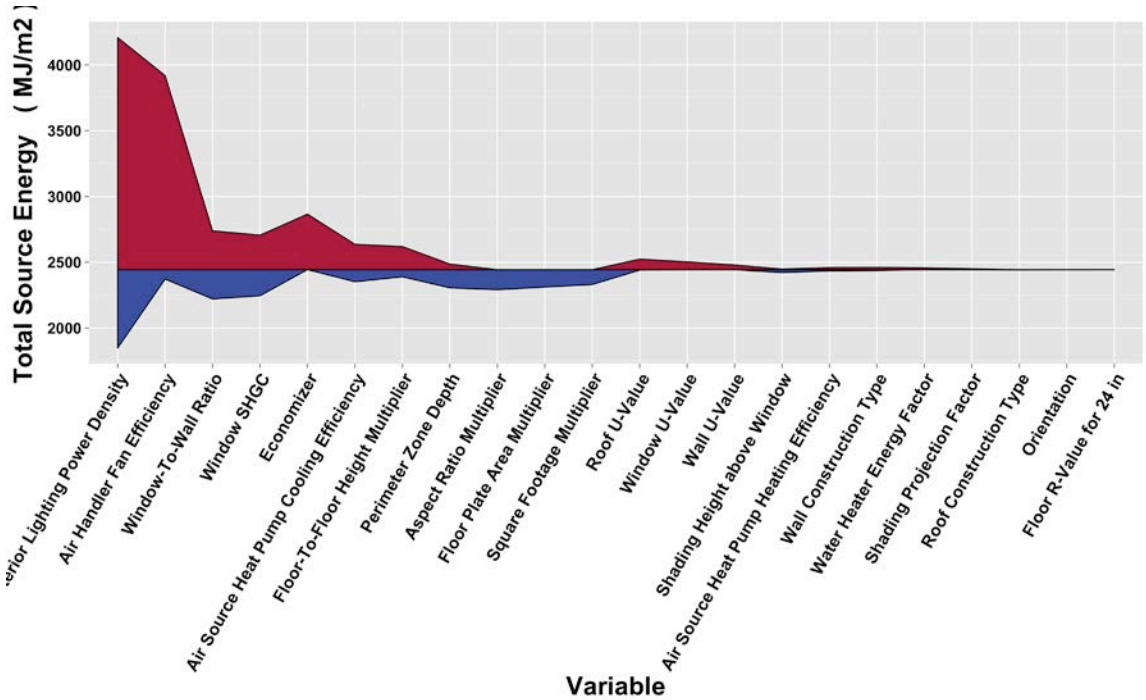
Total Natural Gas



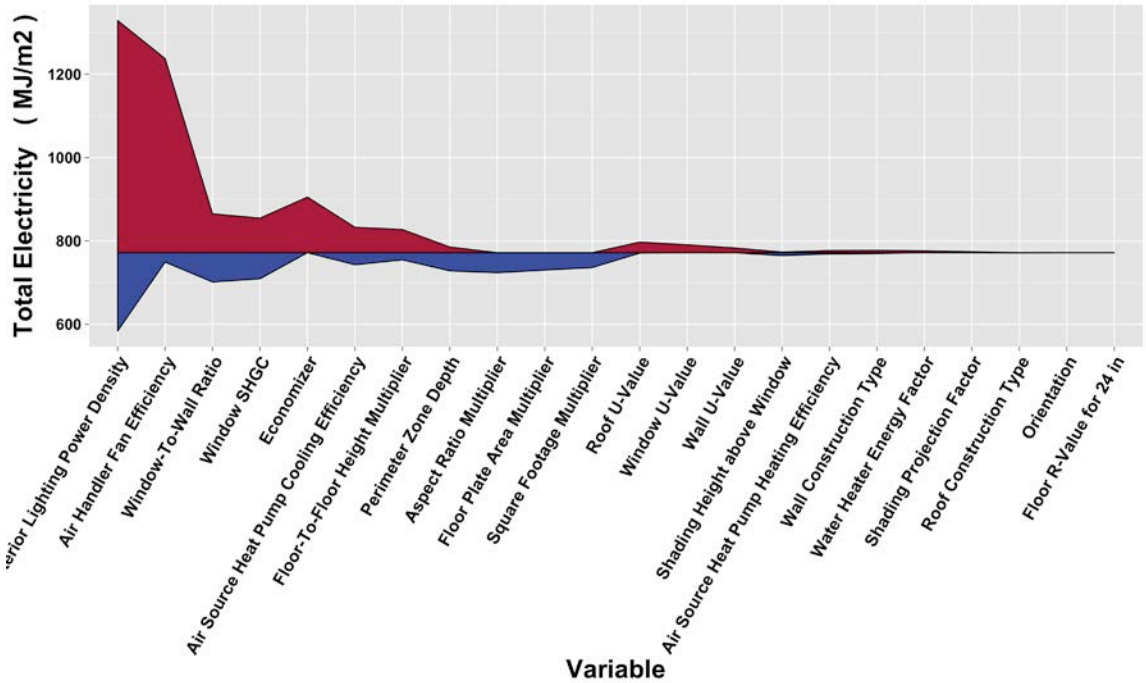
Location: Climate Zone 5C

Total Source Energy

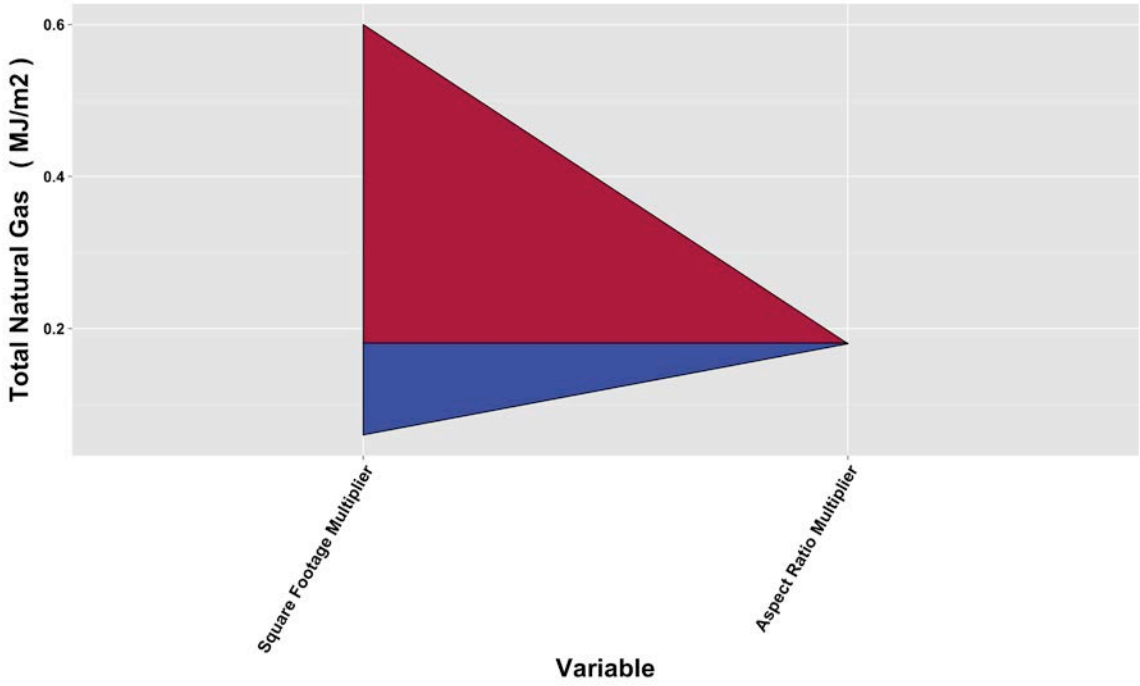
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2291.18	2443.53
Floor Plate Area Multiplier	6250	37500	2311.41	2443.53
Square Footage Multiplier	11250	112500	2330.48	2443.53
Floor-To-Floor Height Multiplier	12	24	2389.18	2619.70
Perimeter Zone Depth	10	20	2305.26	2486.56
Floor R-Value for 24 in	0	0	2443.53	2443.53
Window-To-Wall Ratio	0	0.95	2220.77	2738.81
Window Sill Height	1	6	2443.53	2443.53
Window U-Value	0.12	1.22	2443.53	2503.26
Window SHGC	0.08	0.7	2245.42	2706.18
Window VLT	0.06	0.89	2443.53	2443.53
Wall Construction Type	masonry-on-masonry	wood-siding	2436.92	2460.68
Wall U-Value	0.03	0.58	2443.45	2479.37
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2440.90	2443.53
Roof U-Value	0.01	0.2	2440.14	2524.09
Daylighting Control Setpoint	0	0	2443.53	2443.53
Interior Lighting Power Density	0.41	4.08	1848.01	4208.52
Shading Projection Factor	0	1	2443.53	2450.49
Shading Height above Window	0	2	2421.49	2447.97
District Chiller Cooling Efficiency	0.52	1.48	2443.53	2443.53
Air Handler Fan Efficiency	17.5	63	2371.82	3918.99
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2351.64	2636.49
Air Source Heat Pump Heating Efficiency	2.4	4.2	2434.32	2459.64
Gas Heating Efficiency	0.87	1.13	2443.53	2443.53
Terminal DX Cooling Efficiency	0.68	1.32	2443.53	2443.53
Terminal Furnace Heating Efficiency	0.87	1.13	2443.53	2443.53
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2443.53	2443.53
Water Heater Energy Factor	1	99	2443.53	2457.68
Economizer	false	true	2443.53	2866.28
Fan Control	cav	false	2443.53	2443.53
Orientation	0	359	2443.31	2443.62



Total Electricity



Total Natural Gas

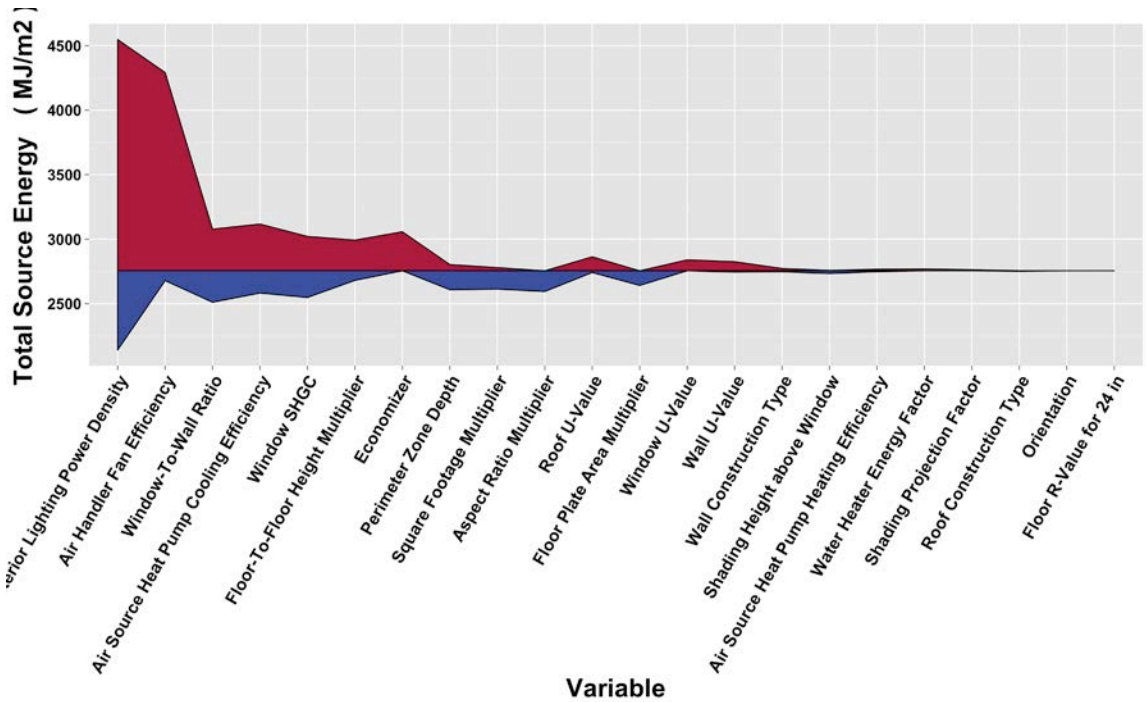


Location: Climate Zone 6A

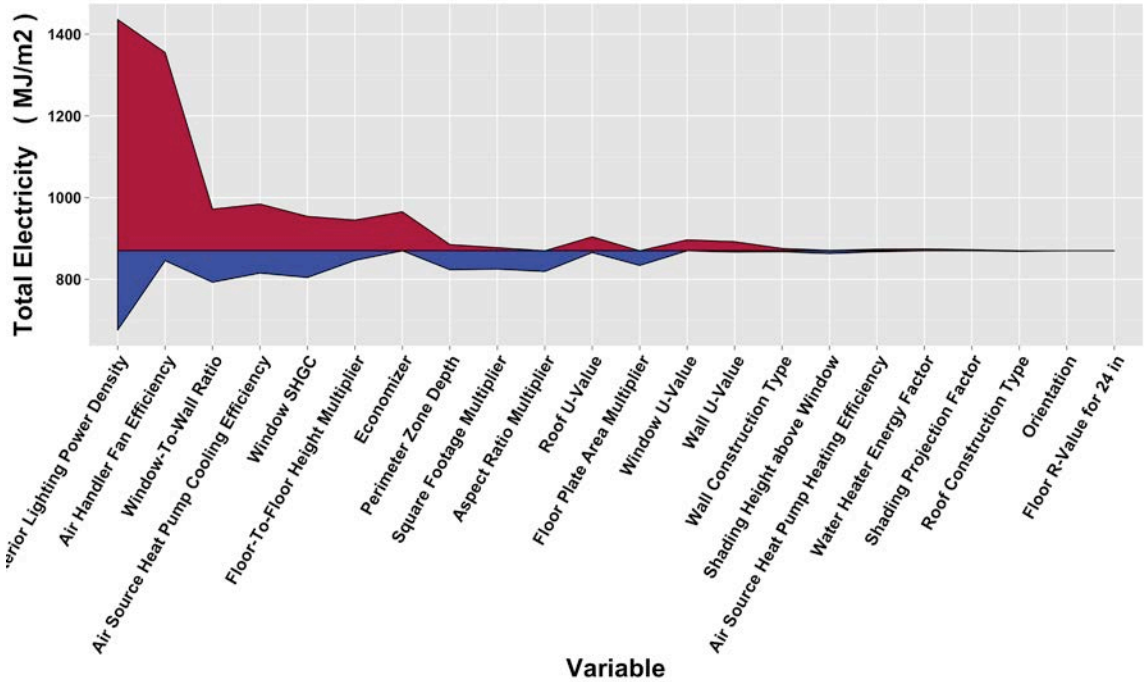
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2594.05	2754.85
Floor Plate Area Multiplier	6250	37500	2641.13	2754.85
Square Footage Multiplier	11250	112500	2613.43	2779.53
Floor-To-Floor Height Multiplier	12	24	2680.45	2992.93
Perimeter Zone Depth	10	20	2608.02	2803.35
Floor R-Value for 24 in	0	0	2754.85	2754.85
Window-To-Wall Ratio	0	0.95	2510.97	3077.80
Window Sill Height	1	6	2754.85	2754.85
Window U-Value	0.12	1.22	2754.85	2839.60
Window SHGC	0.08	0.7	2547.88	3021.51
Window VLT	0.06	0.89	2754.85	2754.85
Wall Construction Type	masonry-on-masonry	wood-siding	2747.43	2772.88
Wall U-Value	0.03	0.58	2744.39	2825.49
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2751.30	2754.85
Roof U-Value	0.01	0.2	2741.29	2863.51
Daylighting Control Setpoint	0	0	2754.85	2754.85
Interior Lighting Power Density	0.41	4.08	2140.61	4548.01
Shading Projection Factor	0	1	2754.85	2763.25

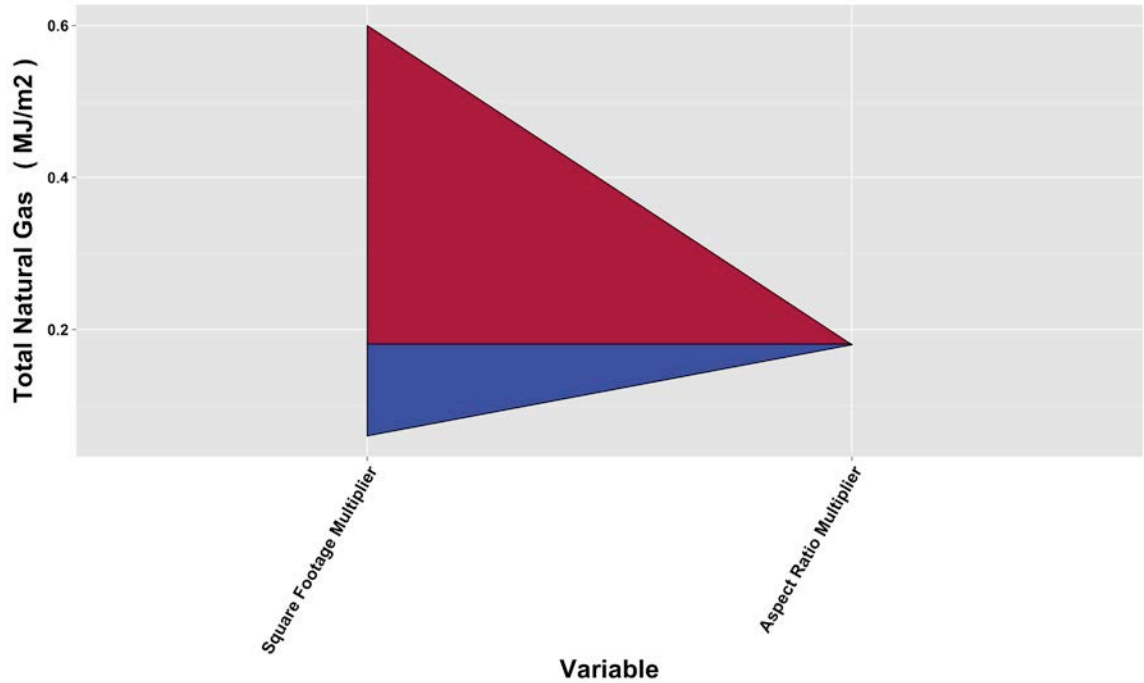
Shading Height above Window	0	2	2733.38	2757.92
District Chiller Cooling Efficiency	0.52	1.48	2754.85	2754.85
Air Handler Fan Efficiency	17.5	63	2678.28	4292.21
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2582.39	3117.02
Air Source Heat Pump Heating Efficiency	2.4	4.2	2747.99	2766.86
Gas Heating Efficiency	0.87	1.13	2754.85	2754.85
Terminal DX Cooling Efficiency	0.68	1.32	2754.85	2754.85
Terminal Furnace Heating Efficiency	0.87	1.13	2754.85	2754.85
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2754.85	2754.85
Water Heater Energy Factor	1	99	2754.85	2768.85
Economizer	false	true	2754.85	3057.52
Fan Control	cav	false	2754.85	2754.85
Orientation	0	359	2754.81	2754.87



Total Electricity



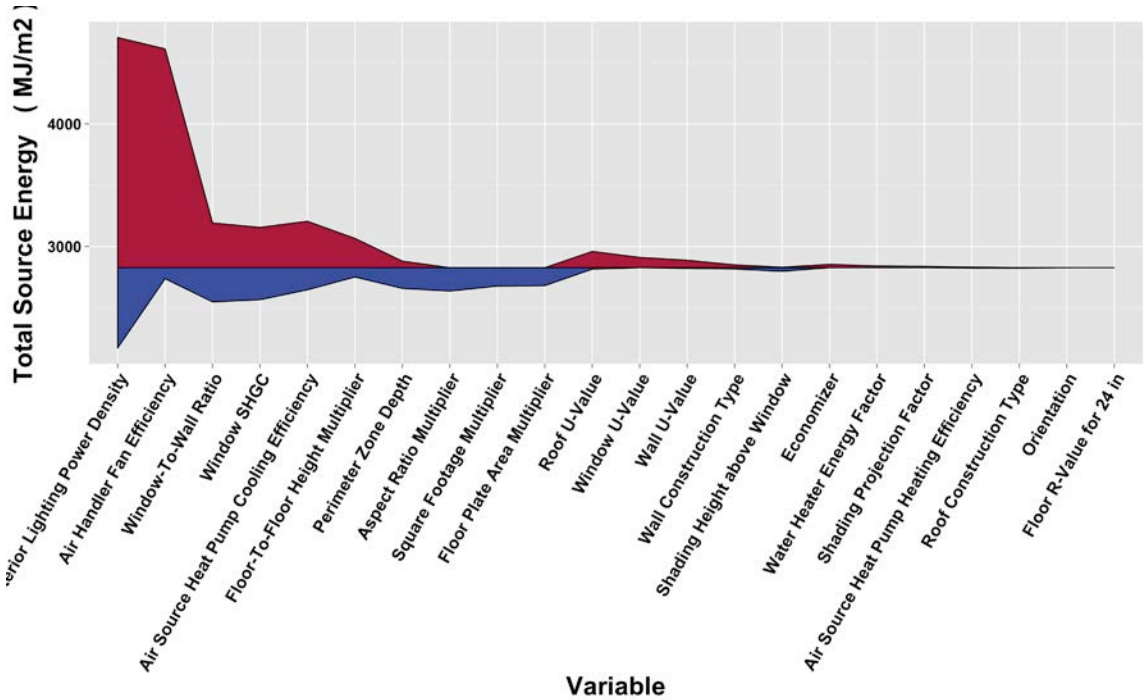
Total Natural Gas



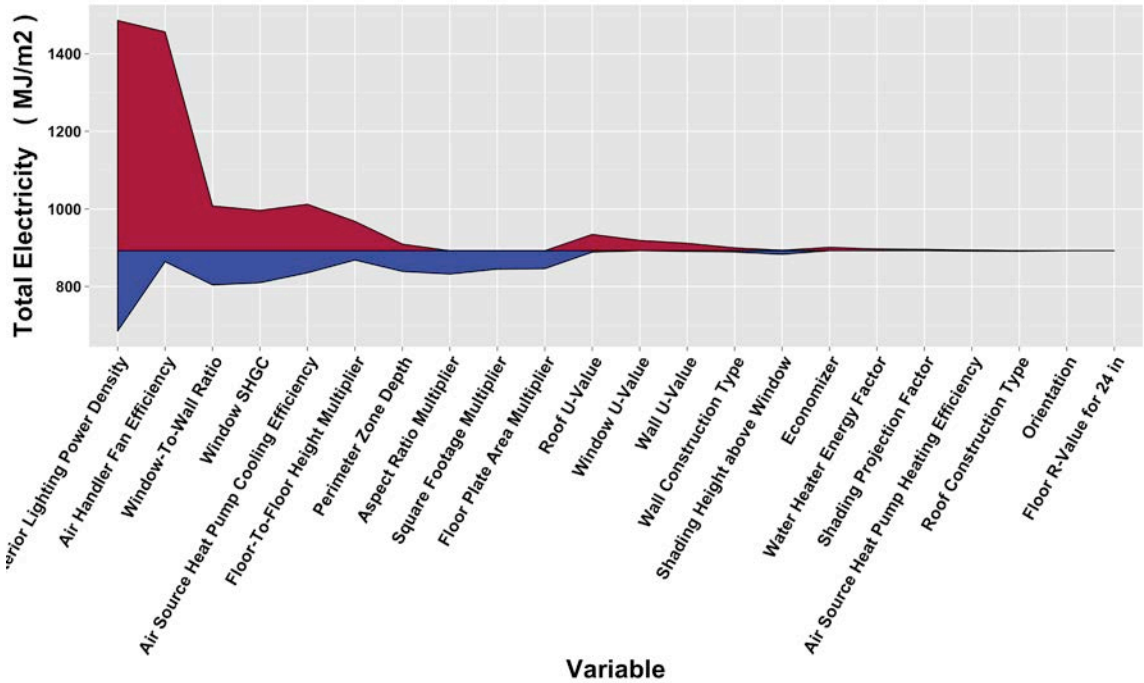
Location: Climate Zone 6B

Total Source Energy

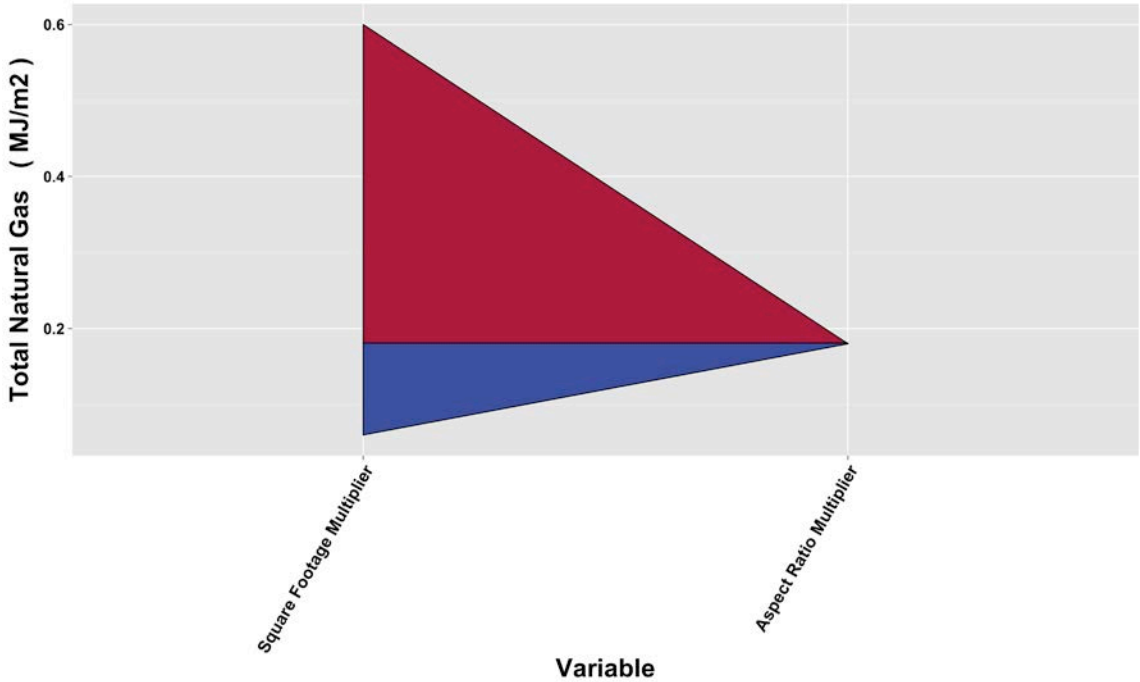
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2635.18	2826.16
Floor Plate Area Multiplier	6250	37500	2679.27	2826.16
Square Footage Multiplier	11250	112500	2675.91	2826.16
Floor-To-Floor Height Multiplier	12	24	2749.85	3065.54
Perimeter Zone Depth	10	20	2657.02	2879.77
Floor R-Value for 24 in	0	0	2826.16	2826.16
Window-To-Wall Ratio	0	0.95	2546.85	3191.39
Window Sill Height	1	6	2826.16	2826.16
Window U-Value	0.12	1.22	2826.16	2909.98
Window SHGC	0.08	0.7	2564.67	3155.20
Window VLT	0.06	0.89	2826.16	2826.16
Wall Construction Type	masonry-on-masonry	wood-siding	2815.53	2849.38
Wall U-Value	0.03	0.58	2820.96	2886.99
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2822.81	2826.16
Roof U-Value	0.01	0.2	2814.25	2959.19
Daylighting Control Setpoint	0	0	2826.16	2826.16
Interior Lighting Power Density	0.41	4.08	2170.27	4705.54
Shading Projection Factor	0	1	2826.16	2837.02
Shading Height above Window	0	2	2796.58	2829.94
District Chiller Cooling Efficiency	0.52	1.48	2826.16	2826.16
Air Handler Fan Efficiency	17.5	63	2736.12	4612.37
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2645.59	3205.36
Air Source Heat Pump Heating Efficiency	2.4	4.2	2823.41	2830.97
Gas Heating Efficiency	0.87	1.13	2826.16	2826.16
Terminal DX Cooling Efficiency	0.68	1.32	2826.16	2826.16
Terminal Furnace Heating Efficiency	0.87	1.13	2826.16	2826.16
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2826.16	2826.16
Water Heater Energy Factor	1	99	2826.16	2840.10
Economizer	false	true	2826.16	2853.39
Fan Control	cav	false	2826.16	2826.16
Orientation	0	359	2825.83	2826.22



Total Electricity



Total Natural Gas

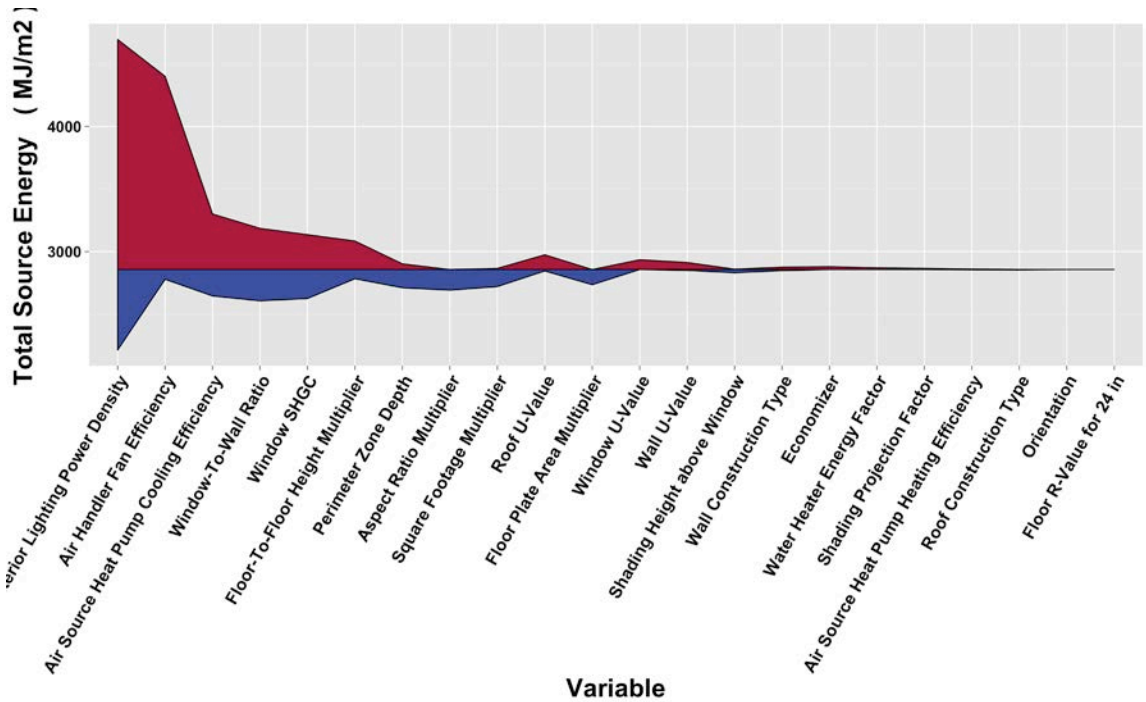


Location: Climate Zone 7

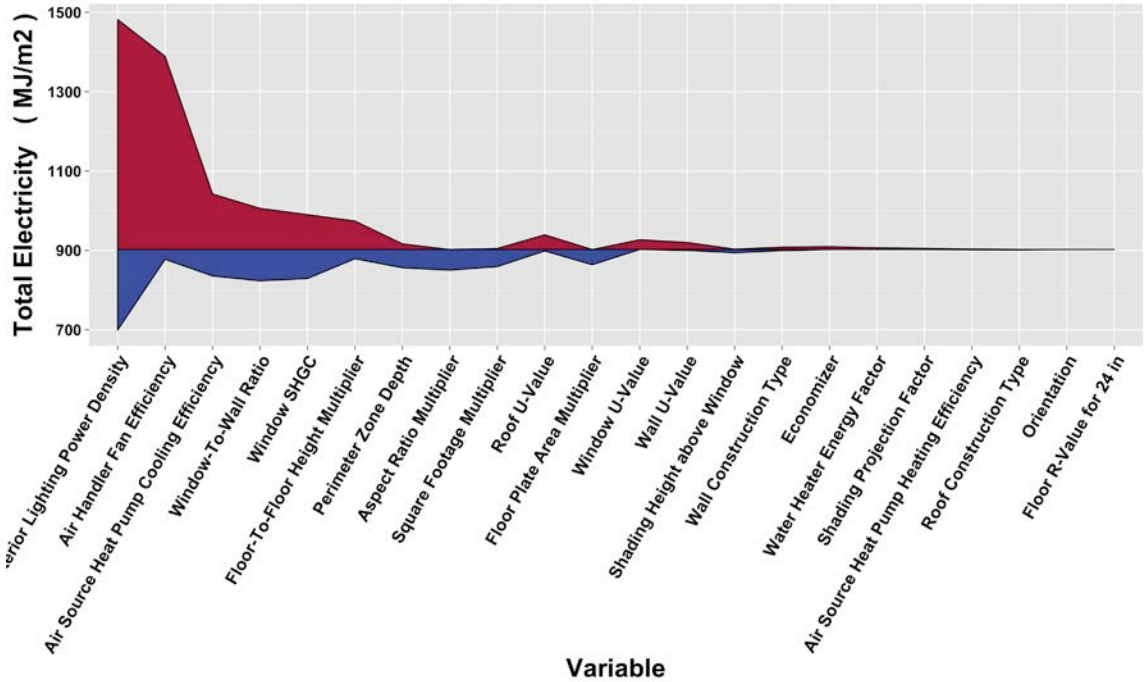
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2692.64	2857.45
Floor Plate Area Multiplier	6250	37500	2736.17	2857.45
Square Footage Multiplier	11250	112500	2721.22	2866.50
Floor-To-Floor Height Multiplier	12	24	2783.85	3085.17
Perimeter Zone Depth	10	20	2712.01	2902.91
Floor R-Value for 24 in	0	0	2857.45	2857.45
Window-To-Wall Ratio	0	0.95	2607.40	3186.09
Window Sill Height	1	6	2857.45	2857.45
Window U-Value	0.12	1.22	2857.45	2935.67
Window SHGC	0.08	0.7	2625.98	3135.92
Window VLT	0.06	0.89	2857.45	2857.45
Wall Construction Type	masonry-on-masonry	wood-siding	2848.44	2876.57
Wall U-Value	0.03	0.58	2850.37	2913.83
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2854.34	2857.45
Roof U-Value	0.01	0.2	2845.89	2975.30
Daylighting Control Setpoint	0	0	2857.45	2857.45
Interior Lighting Power Density	0.41	4.08	2214.66	4694.51
Shading Projection Factor	0	1	2857.45	2866.72

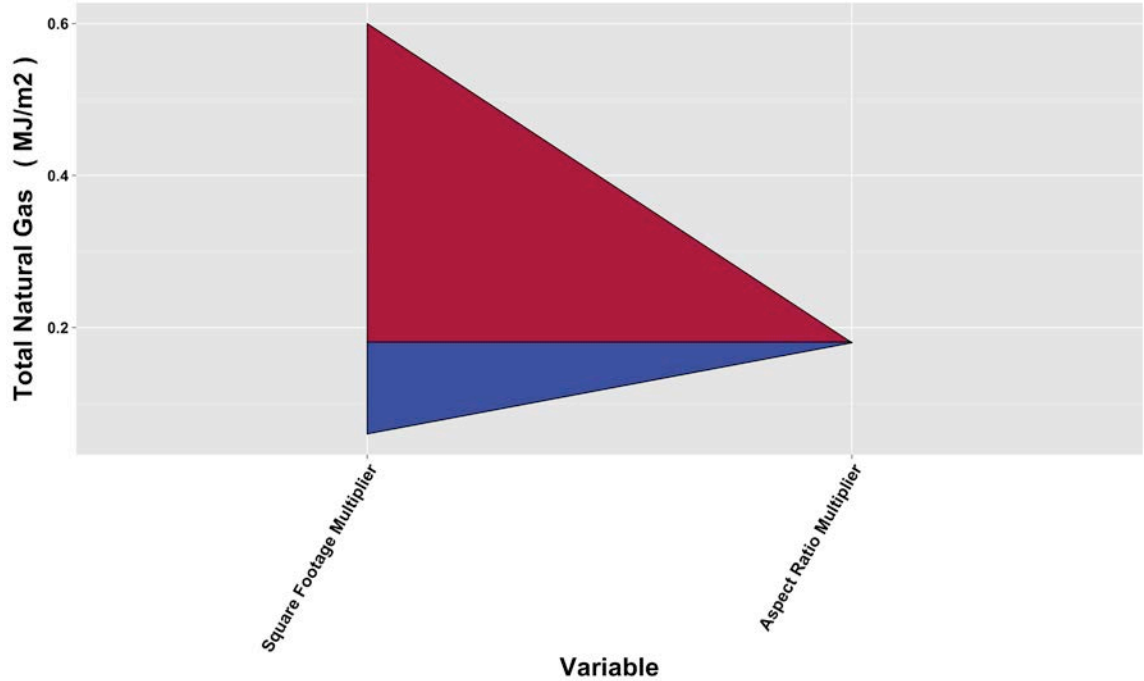
Shading Height above Window	0	2	2831.83	2860.50
District Chiller Cooling Efficiency	0.52	1.48	2857.45	2857.45
Air Handler Fan Efficiency	17.5	63	2779.21	4400.45
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2646.25	3300.95
Air Source Heat Pump Heating Efficiency	2.4	4.2	2855.23	2861.33
Gas Heating Efficiency	0.87	1.13	2857.45	2857.45
Terminal DX Cooling Efficiency	0.68	1.32	2857.45	2857.45
Terminal Furnace Heating Efficiency	0.87	1.13	2857.45	2857.45
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2857.45	2857.45
Water Heater Energy Factor	1	99	2857.45	2871.36
Economizer	false	true	2857.45	2880.15
Fan Control	cav	false	2857.45	2857.45
Orientation	0	359	2857.28	2857.45



Total Electricity



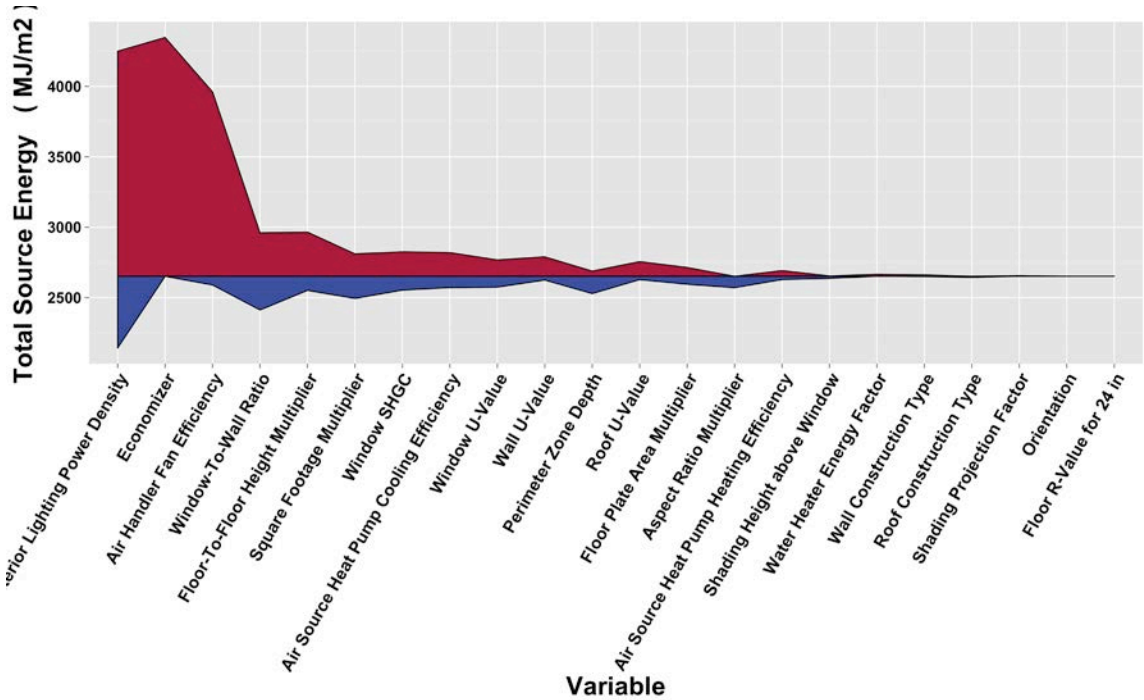
Total Natural Gas



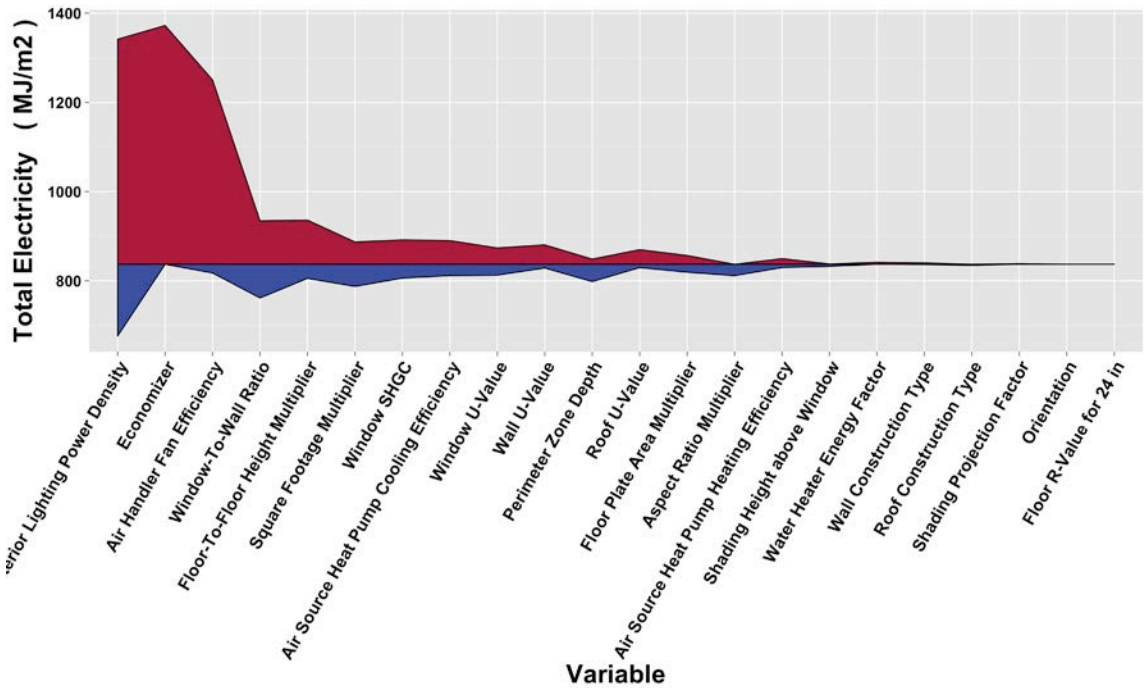
Location: Climate Zone 8

Total Source Energy

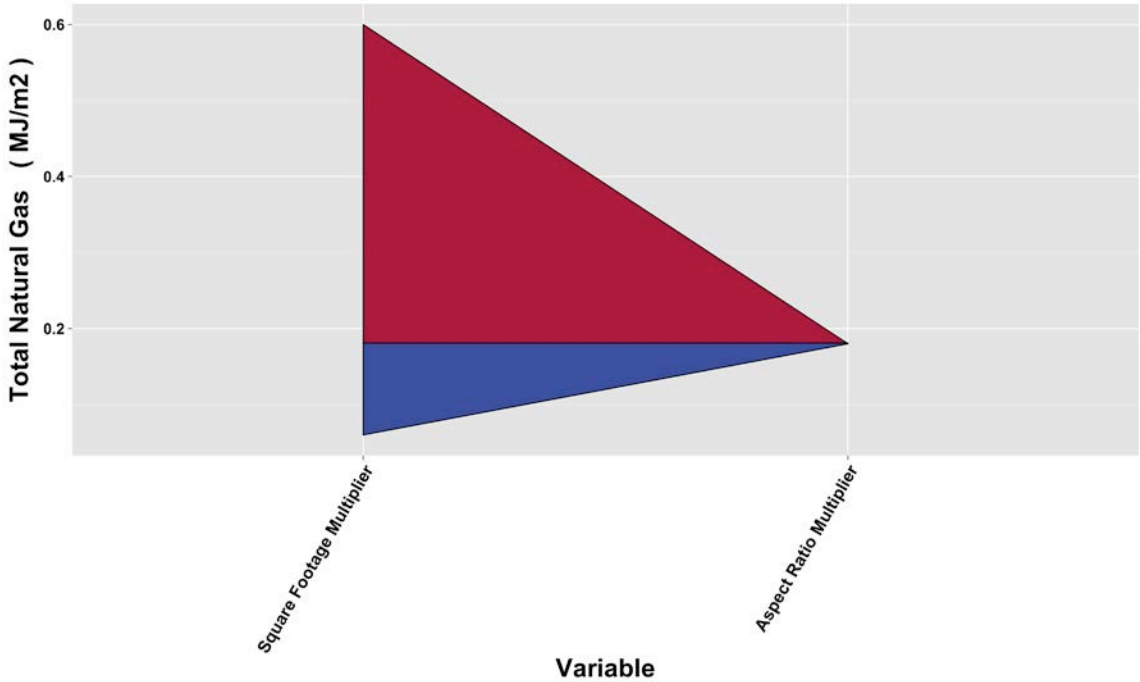
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.8	4	2569.81	2650.81
Floor Plate Area Multiplier	6250	37500	2594.43	2713.39
Square Footage Multiplier	11250	112500	2493.44	2810.12
Floor-To-Floor Height Multiplier	12	24	2550.60	2964.72
Perimeter Zone Depth	10	20	2527.87	2687.74
Floor R-Value for 24 in	0	0	2650.81	2650.81
Window-To-Wall Ratio	0	0.95	2411.55	2959.45
Window Sill Height	1	6	2650.81	2650.81
Window U-Value	0.12	1.22	2573.76	2767.00
Window SHGC	0.08	0.7	2552.70	2824.11
Window VLT	0.06	0.89	2650.81	2650.81
Wall Construction Type	masonry-on-masonry	wood-siding	2648.54	2660.83
Wall U-Value	0.03	0.58	2624.00	2788.96
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2643.94	2650.81
Roof U-Value	0.01	0.2	2627.11	2755.09
Daylighting Control Setpoint	0	0	2650.81	2650.81
Interior Lighting Power Density	0.41	4.08	2141.38	4248.99
Shading Projection Factor	0	1	2650.81	2655.71
Shading Height above Window	0	2	2636.33	2653.33
District Chiller Cooling Efficiency	0.52	1.48	2650.81	2650.81
Air Handler Fan Efficiency	17.5	63	2588.90	3960.14
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2570.66	2819.13
Air Source Heat Pump Heating Efficiency	2.4	4.2	2627.70	2691.25
Gas Heating Efficiency	0.87	1.13	2650.81	2650.81
Terminal DX Cooling Efficiency	0.68	1.32	2650.81	2650.81
Terminal Furnace Heating Efficiency	0.87	1.13	2650.81	2650.81
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2650.81	2650.81
Water Heater Energy Factor	1	99	2650.81	2665.07
Economizer	false	true	2650.81	4346.74
Fan Control	cav	false	2650.81	2650.81
Orientation	0	359	2650.62	2650.81



Total Electricity



Total Natural Gas



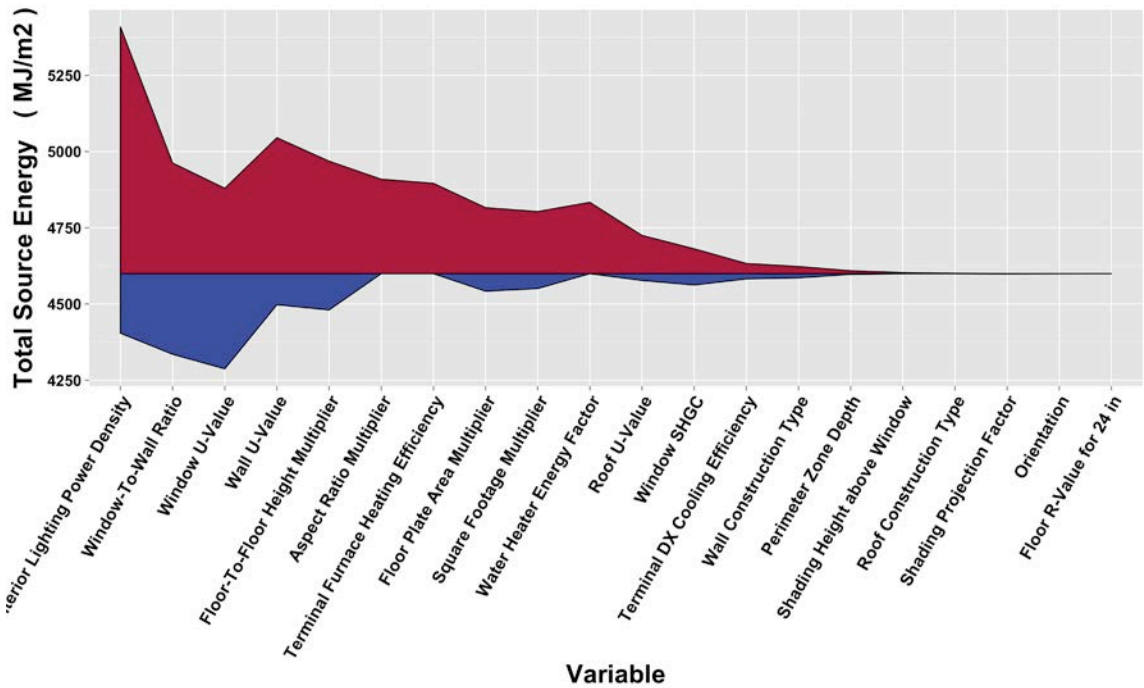
Medical Office

Location: Climate Zone 1A

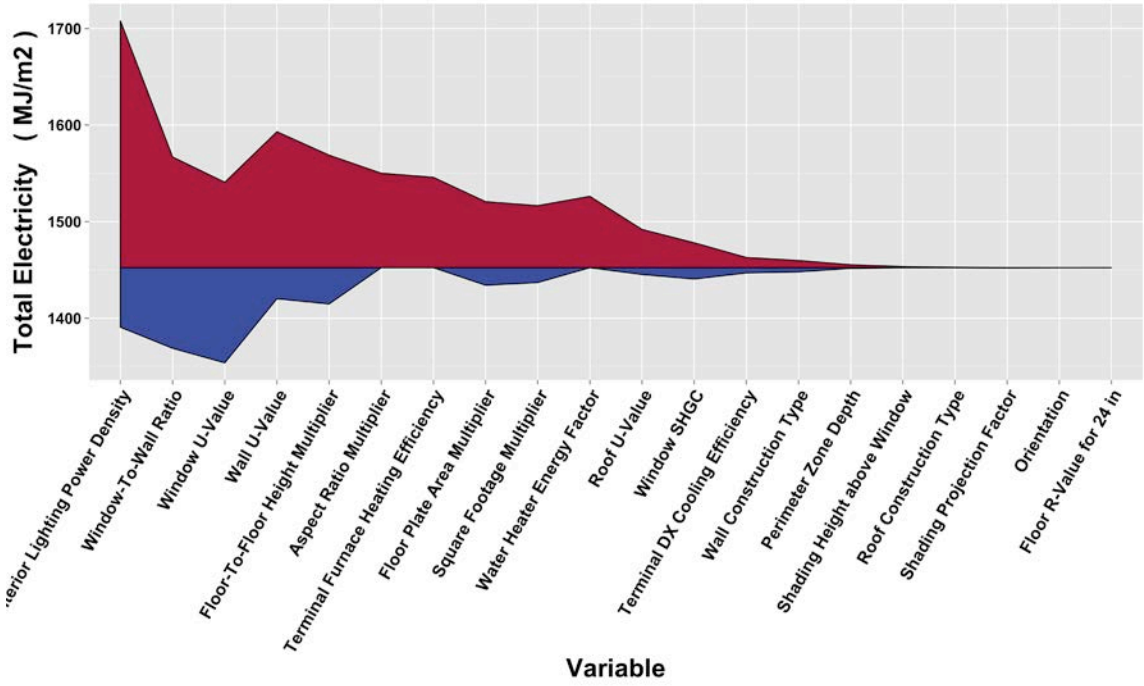
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4599.49	4909.32
Floor Plate Area Multiplier	4500	27000	4542.04	4815.98
Square Footage Multiplier	16200	162000	4550.76	4803.23
Floor-To-Floor Height Multiplier	9.6	19.2	4480.57	4968.50
Perimeter Zone Depth	10	20	4597.24	4609.05
Floor R-Value for 24 in	0	0	4599.49	4599.49
Window-To-Wall Ratio	0	0.71	4335.15	4962.56
Window Sill Height	1	6	4599.49	4599.49
Window U-Value	0.12	1.22	4287.44	4879.73
Window SHGC	0.08	0.7	4562.36	4681.23
Window VLT	0.06	0.89	4599.49	4599.49
Wall Construction Type	masonry-on-masonry	wood-siding	4585.86	4623.04
Wall U-Value	0.03	0.58	4497.74	5045.62
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4599.49	4600.67
Roof U-Value	0.01	0.2	4577.24	4724.94
Daylighting Control Setpoint	0	0	4599.49	4599.49

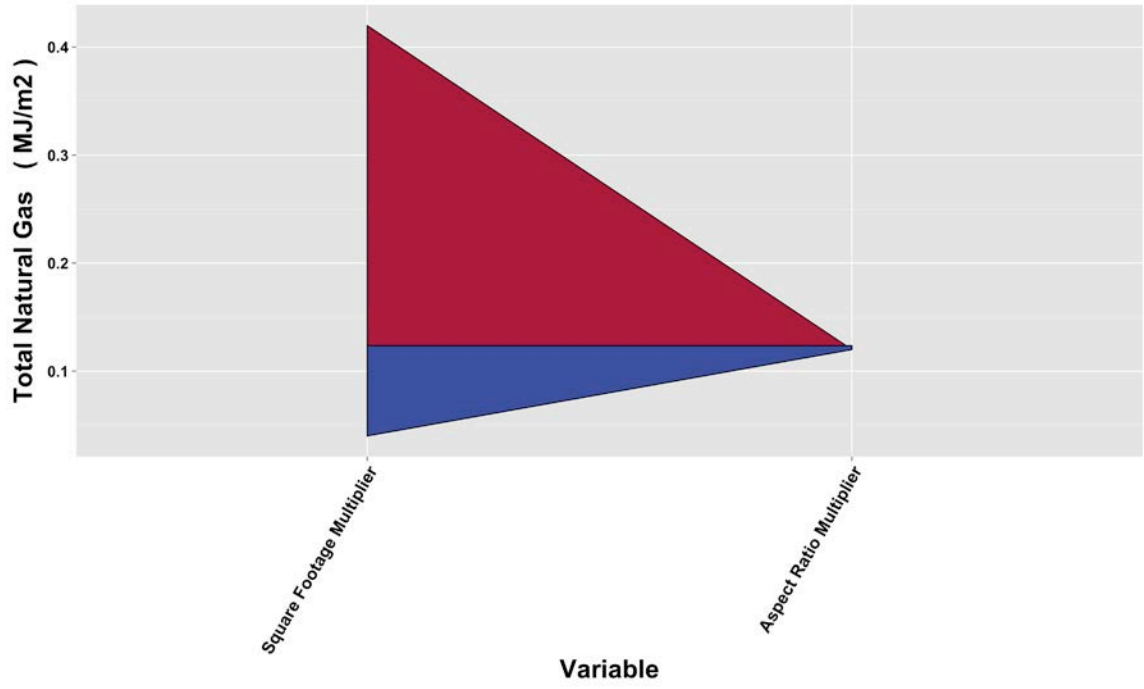
Interior Lighting Power Density	0.31	3.14	4404.23	5408.44
Shading Projection Factor	0	1	4598.67	4599.49
Shading Height above Window	0	2	4599.49	4603.15
District Chiller Cooling Efficiency	0.52	1.48	4599.49	4599.49
Gas Heating Efficiency	0.87	1.13	4599.49	4599.49
Terminal DX Cooling Efficiency	0.68	1.32	4582.42	4632.93
Terminal Furnace Heating Efficiency	0.87	1.13	4599.49	4895.99
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4599.49	4599.49
Water Heater Energy Factor	1	99	4599.49	4833.61
Orientation	0	359	4599.41	4599.49



Total Electricity



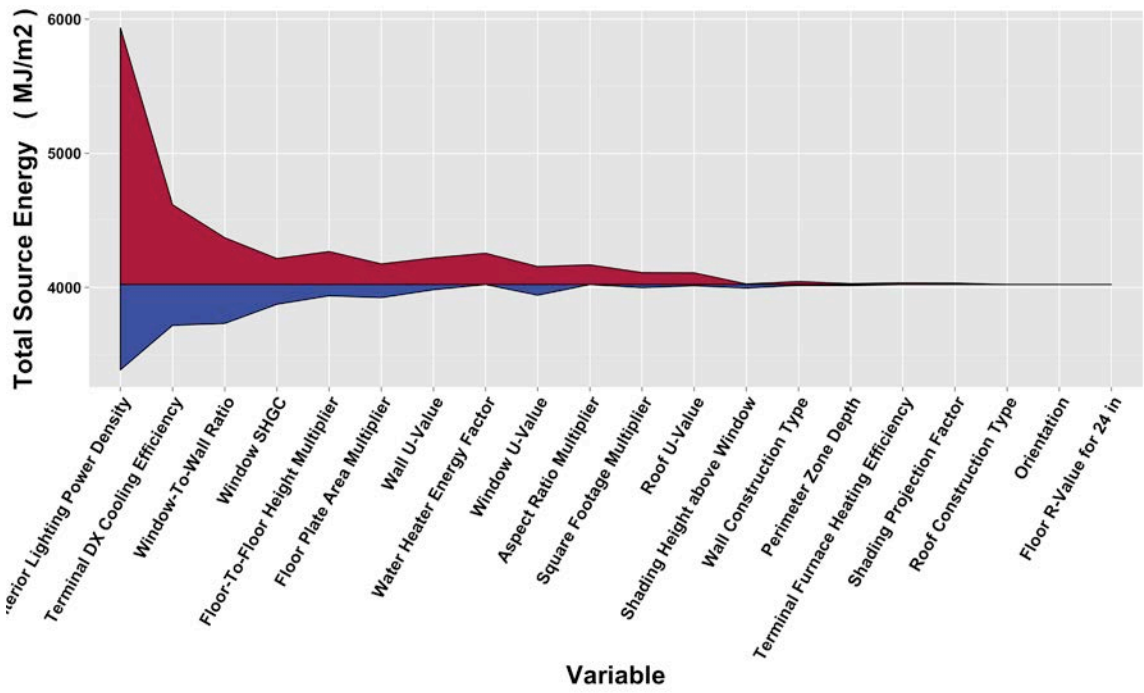
Total Natural Gas



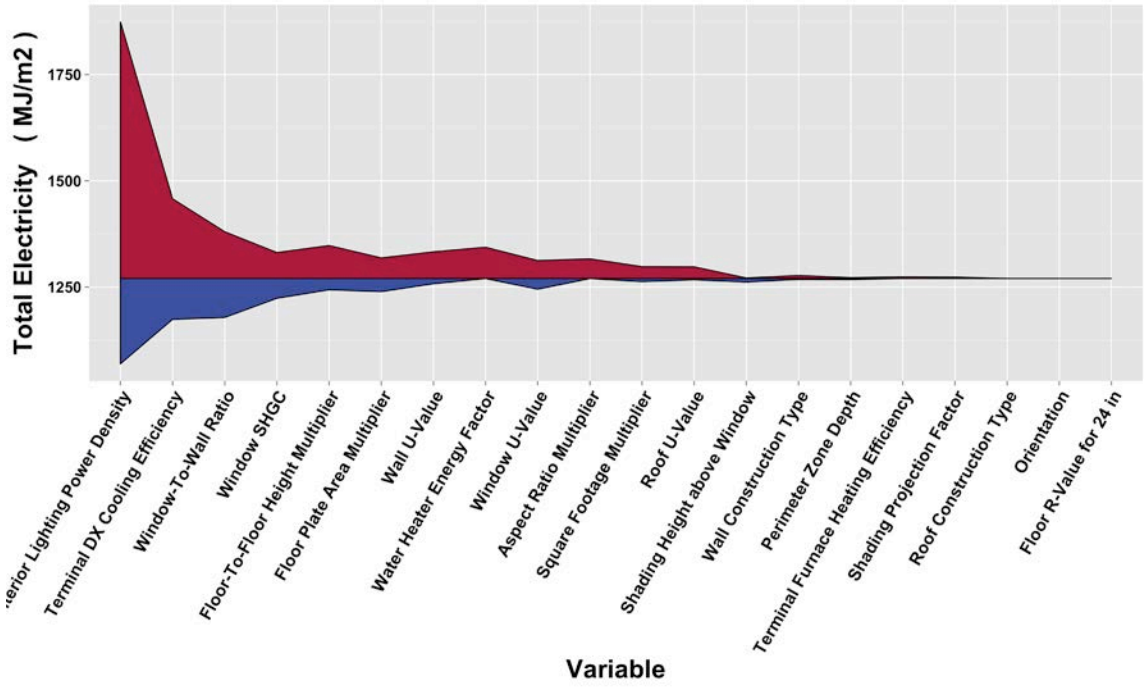
Location: Climate Zone 1B

Total Source Energy

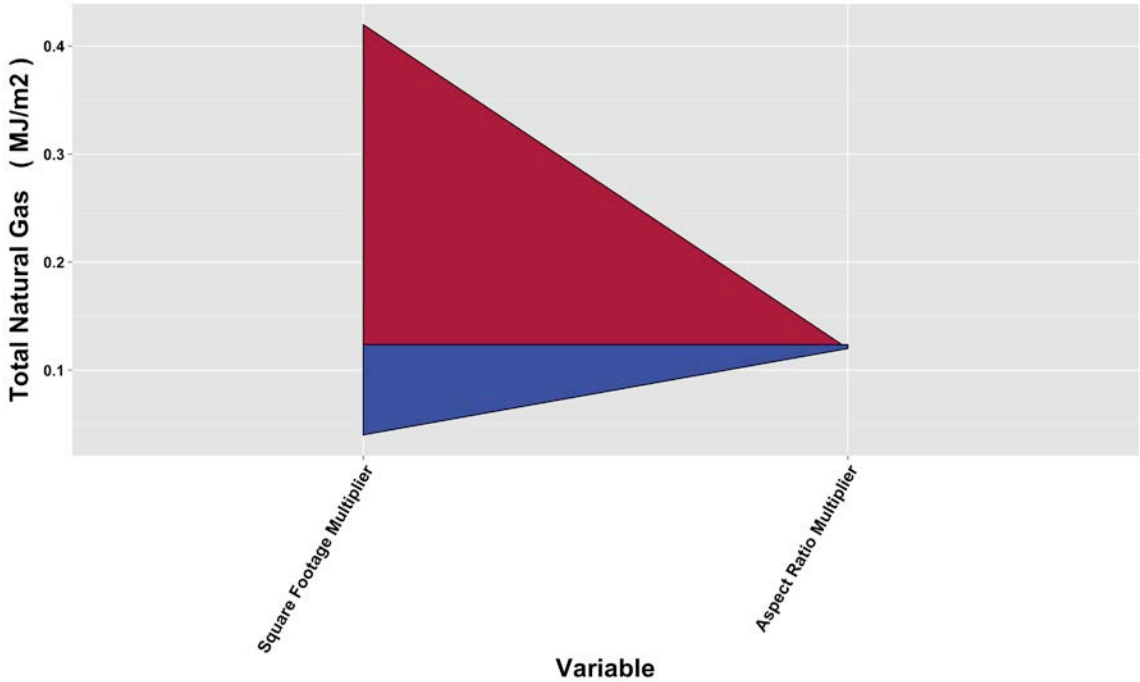
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4021.04	4168.46
Floor Plate Area Multiplier	4500	27000	3923.62	4175.54
Square Footage Multiplier	16200	162000	3998.11	4110.76
Floor-To-Floor Height Multiplier	9.6	19.2	3937.29	4267.74
Perimeter Zone Depth	10	20	4014.13	4028.10
Floor R-Value for 24 in	0	0	4021.04	4021.04
Window-To-Wall Ratio	0	0.71	3731.21	4370.68
Window Sill Height	1	6	4021.04	4021.04
Window U-Value	0.12	1.22	3941.49	4155.82
Window SHGC	0.08	0.7	3873.97	4215.37
Window VLT	0.06	0.89	4021.04	4021.04
Wall Construction Type	masonry-on-masonry	wood-siding	4014.93	4044.43
Wall U-Value	0.03	0.58	3982.20	4220.65
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4020.32	4022.10
Roof U-Value	0.01	0.2	4011.77	4108.94
Daylighting Control Setpoint	0	0	4021.04	4021.04
Interior Lighting Power Density	0.31	3.14	3385.44	5933.87
Shading Projection Factor	0	1	4021.04	4032.41
Shading Height above Window	0	2	3995.20	4025.98
District Chiller Cooling Efficiency	0.52	1.48	4021.04	4021.04
Gas Heating Efficiency	0.87	1.13	4021.04	4021.04
Terminal DX Cooling Efficiency	0.68	1.32	3717.08	4616.32
Terminal Furnace Heating Efficiency	0.87	1.13	4021.04	4034.47
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4021.04	4021.04
Water Heater Energy Factor	1	99	4021.04	4255.03
Orientation	0	359	4020.73	4021.04



Total Electricity



Total Natural Gas

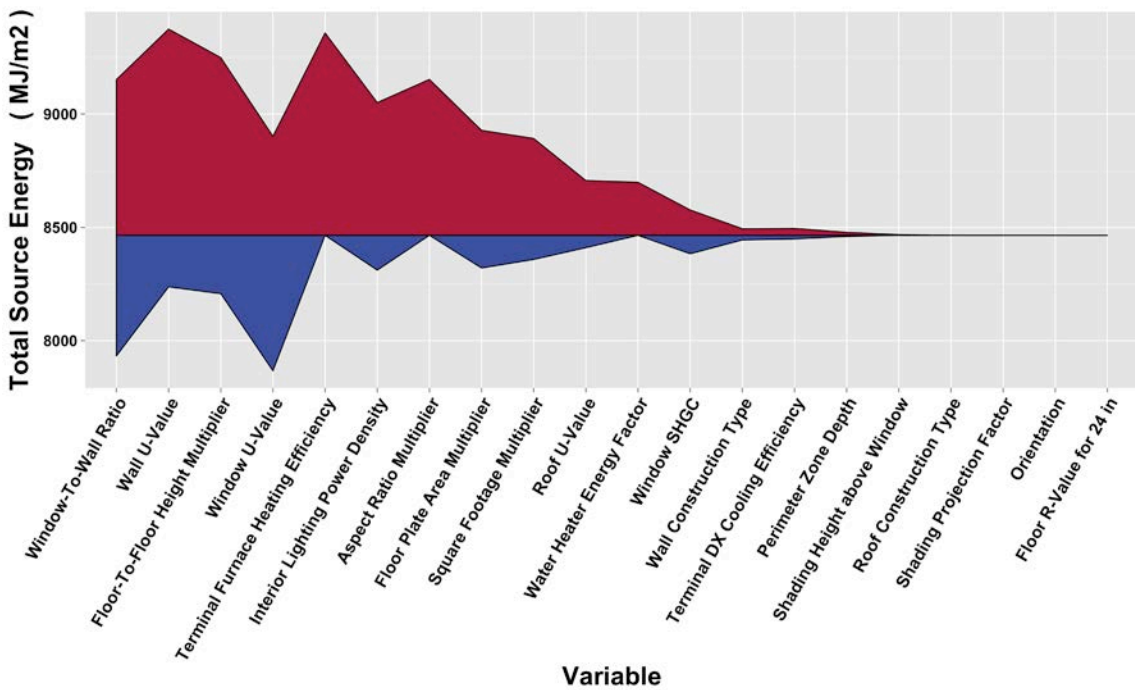


Location: Climate Zone 2A

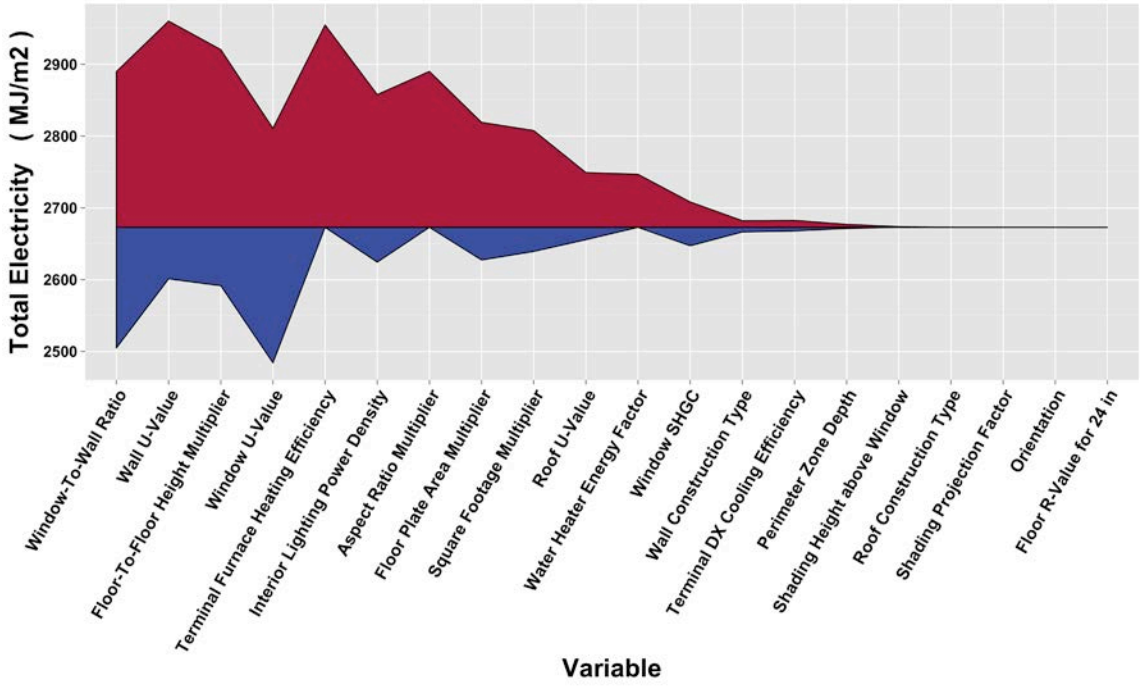
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	8464.63	9152.81
Floor Plate Area Multiplier	4500	27000	8320.57	8928.03
Square Footage Multiplier	16200	162000	8358.33	8892.14
Floor-To-Floor Height Multiplier	9.6	19.2	8207.17	9249.06
Perimeter Zone Depth	10	20	8460.10	8477.81
Floor R-Value for 24 in	0	0	8464.63	8464.63
Window-To-Wall Ratio	0	0.71	7932.98	9152.45
Window Sill Height	1	6	8464.63	8464.63
Window U-Value	0.12	1.22	7866.95	8901.58
Window SHGC	0.08	0.7	8383.37	8576.77
Window VLT	0.06	0.89	8464.63	8464.63
Wall Construction Type	masonry-on-masonry	wood-siding	8444.29	8494.01
Wall U-Value	0.03	0.58	8237.57	9374.92
Roof Construction Type	built-up concrete-deck	built-up wood-deck	8464.63	8465.48
Roof U-Value	0.01	0.2	8410.22	8706.53
Daylighting Control Setpoint	0	0	8464.63	8464.63
Interior Lighting Power Density	0.31	3.14	8311.13	9050.54
Shading Projection Factor	0	1	8464.63	8465.33

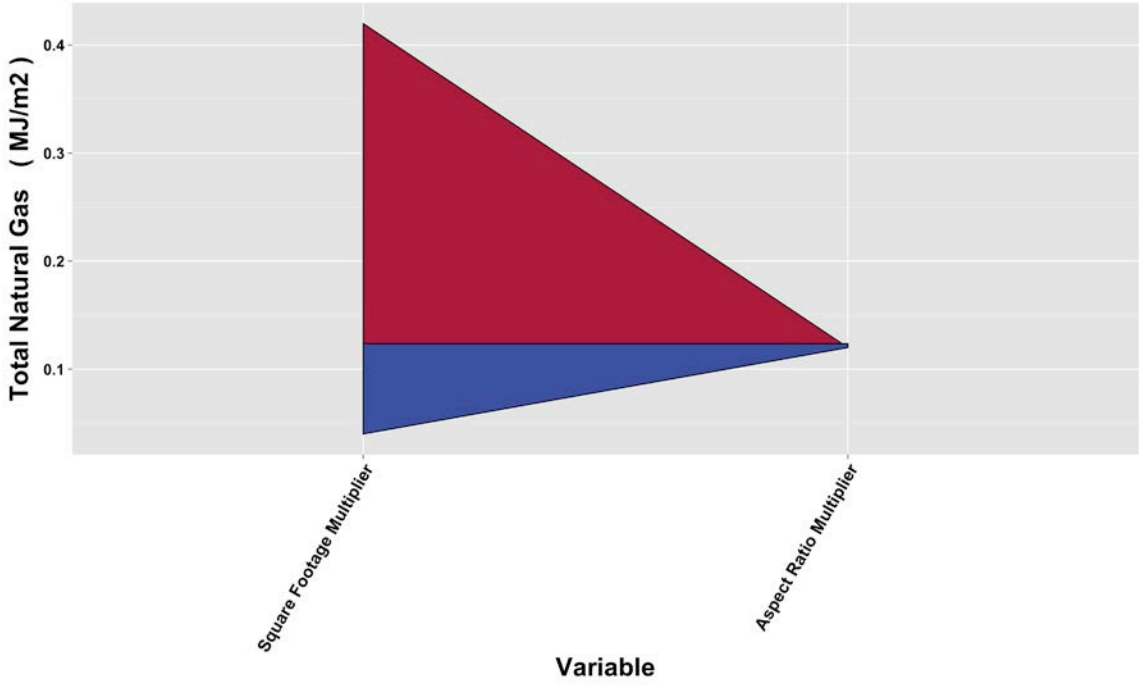
Shading Height above Window	0	2	8464.63	8467.72
District Chiller Cooling Efficiency	0.52	1.48	8464.63	8464.63
Gas Heating Efficiency	0.87	1.13	8464.63	8464.63
Terminal DX Cooling Efficiency	0.68	1.32	8448.89	8495.46
Terminal Furnace Heating Efficiency	0.87	1.13	8464.63	9357.65
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	8464.63	8464.63
Water Heater Energy Factor	1	99	8464.63	8698.76
Orientation	0	359	8464.55	8464.72



Total Electricity



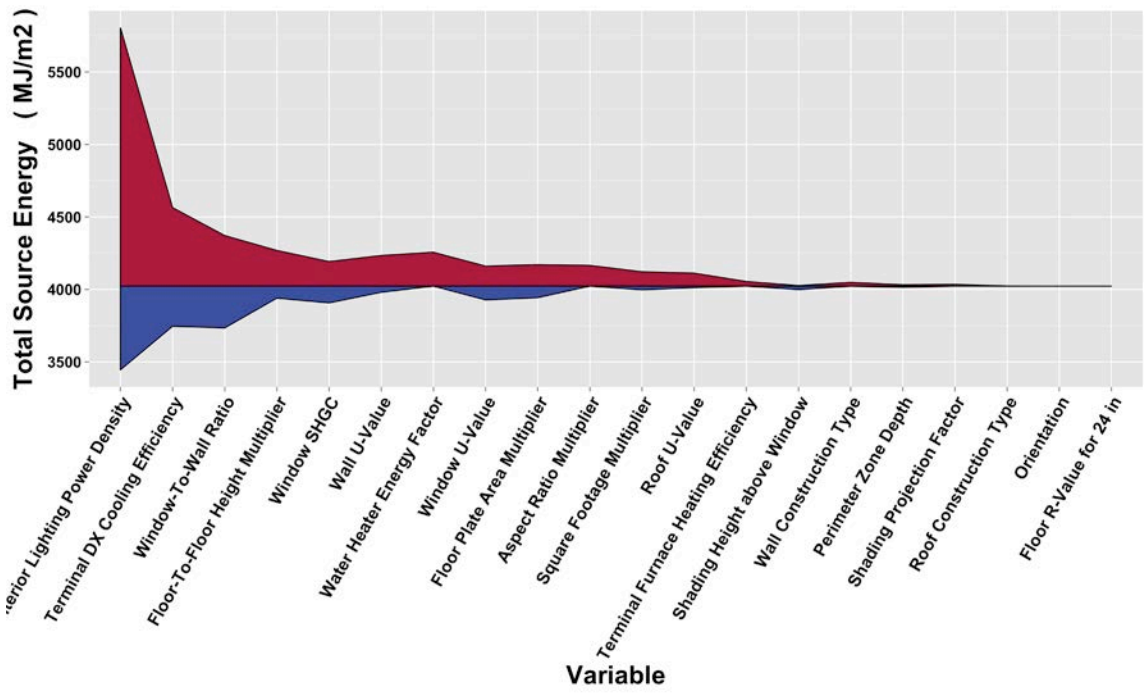
Total Natural Gas



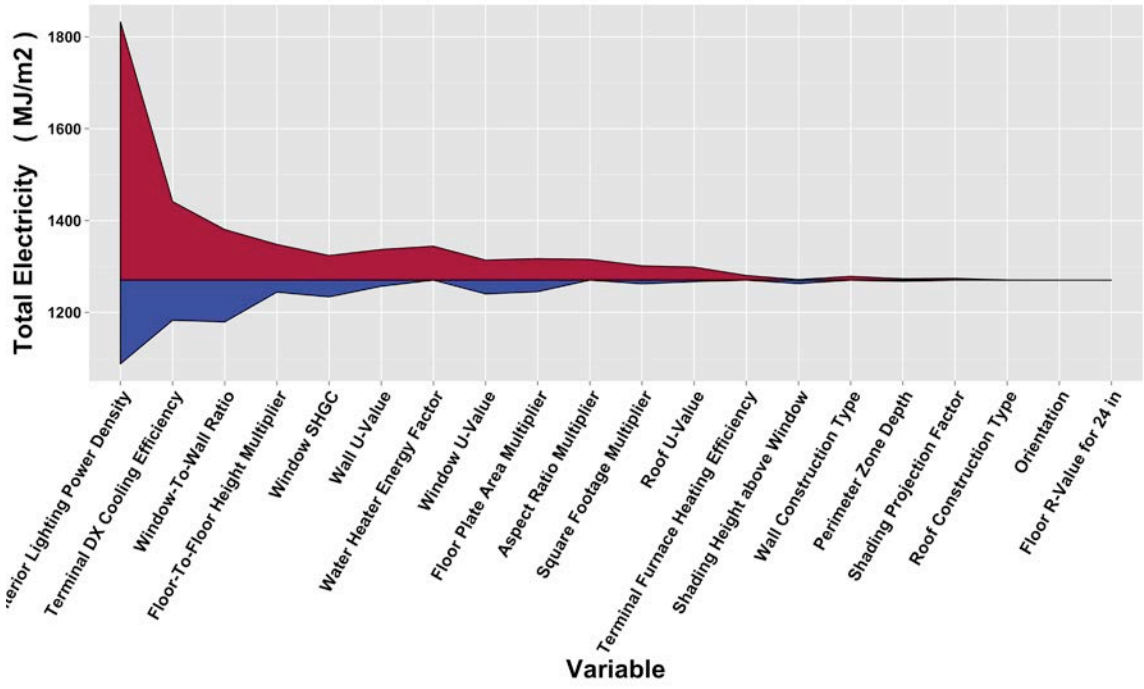
Location: Climate Zone 2B

Total Source Energy

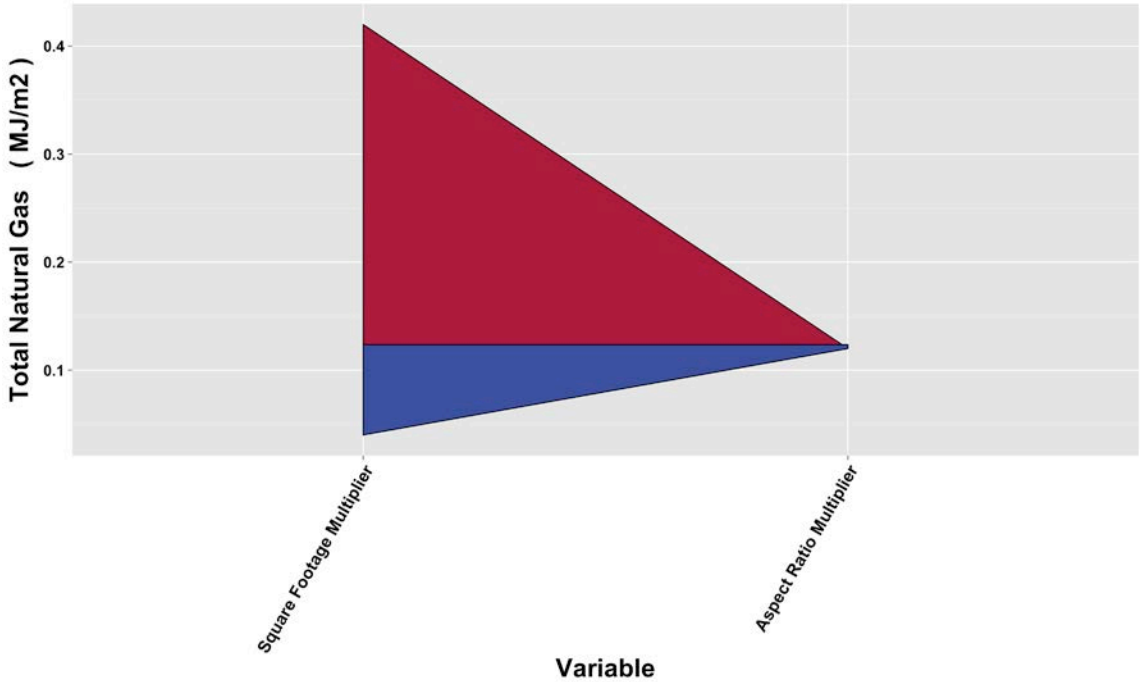
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4022.61	4165.64
Floor Plate Area Multiplier	4500	27000	3942.93	4171.34
Square Footage Multiplier	16200	162000	3996.99	4121.96
Floor-To-Floor Height Multiplier	9.6	19.2	3939.84	4269.04
Perimeter Zone Depth	10	20	4014.40	4032.18
Floor R-Value for 24 in	0	0	4022.61	4022.61
Window-To-Wall Ratio	0	0.71	3734.55	4371.70
Window Sill Height	1	6	4022.61	4022.61
Window U-Value	0.12	1.22	3927.52	4161.07
Window SHGC	0.08	0.7	3906.91	4192.38
Window VLT	0.06	0.89	4022.61	4022.61
Wall Construction Type	masonry-on-masonry	wood-siding	4022.36	4049.04
Wall U-Value	0.03	0.58	3980.24	4234.21
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4021.97	4023.85
Roof U-Value	0.01	0.2	4012.27	4112.44
Daylighting Control Setpoint	0	0	4022.61	4022.61
Interior Lighting Power Density	0.31	3.14	3445.40	5802.89
Shading Projection Factor	0	1	4022.61	4034.70
Shading Height above Window	0	2	3998.85	4026.67
District Chiller Cooling Efficiency	0.52	1.48	4022.61	4022.61
Gas Heating Efficiency	0.87	1.13	4022.61	4022.61
Terminal DX Cooling Efficiency	0.68	1.32	3745.87	4564.55
Terminal Furnace Heating Efficiency	0.87	1.13	4022.61	4054.83
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4022.61	4022.61
Water Heater Energy Factor	1	99	4022.61	4256.61
Orientation	0	359	4022.54	4022.61



Total Electricity



Total Natural Gas

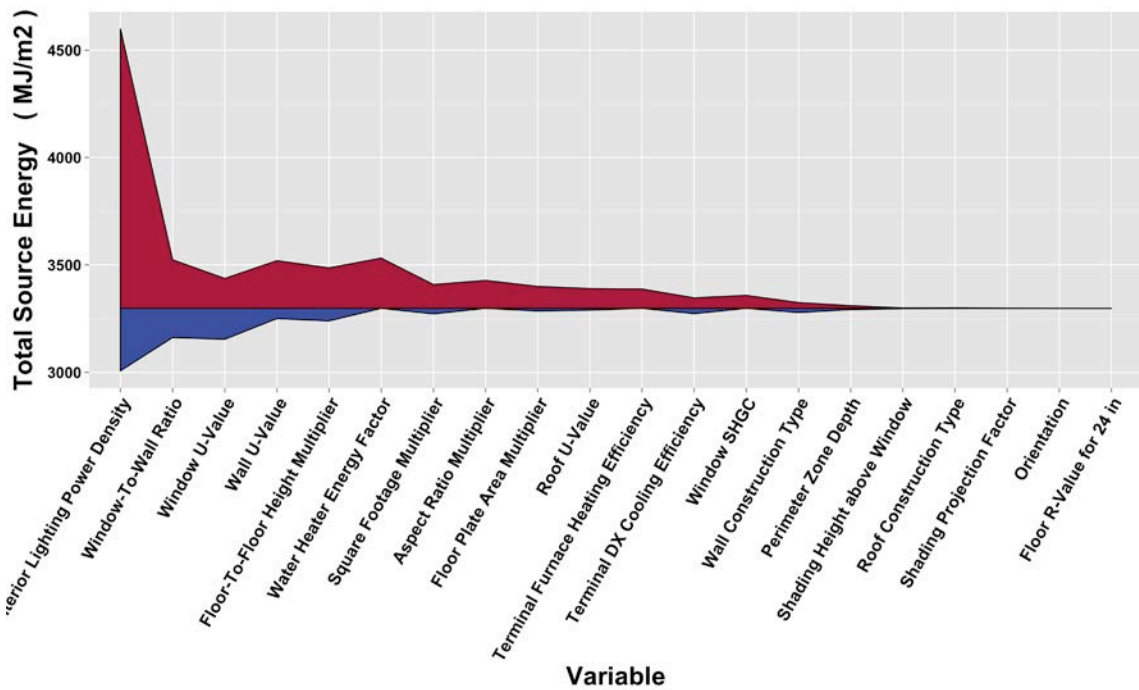


Location: Climate Zone 3A

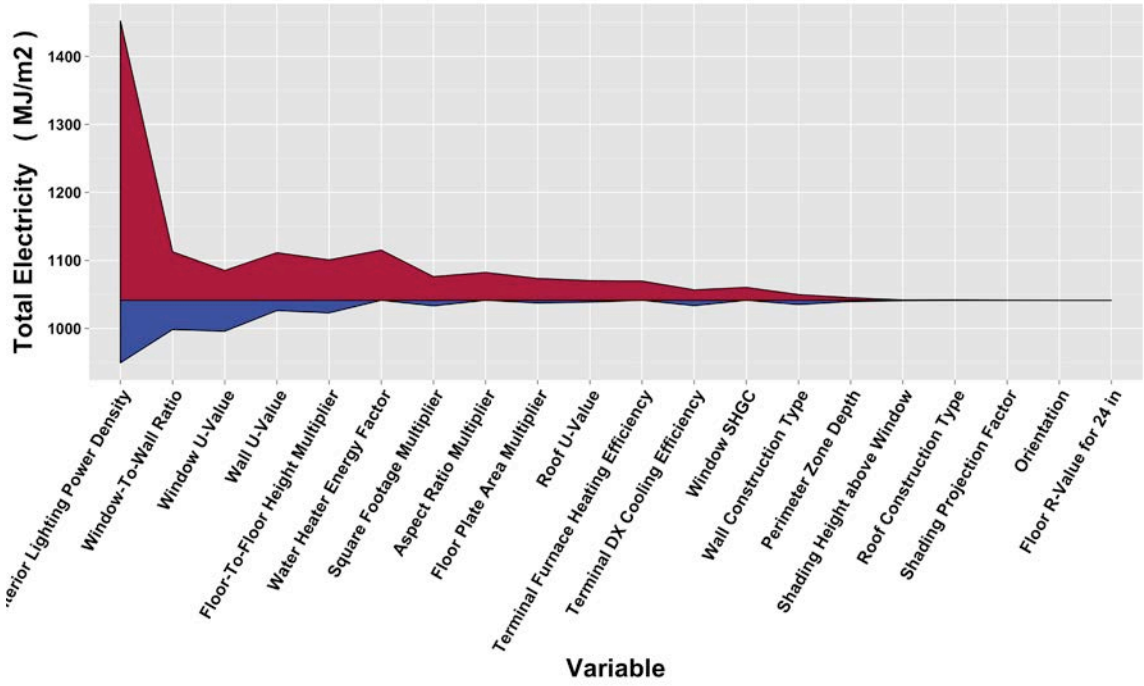
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	3297.73	3427.83
Floor Plate Area Multiplier	4500	27000	3285.30	3399.83
Square Footage Multiplier	16200	162000	3271.71	3408.61
Floor-To-Floor Height Multiplier	9.6	19.2	3239.08	3486.18
Perimeter Zone Depth	10	20	3292.09	3310.13
Floor R-Value for 24 in	0	0	3297.73	3297.73
Window-To-Wall Ratio	0	0.71	3161.73	3524.00
Window Sill Height	1	6	3297.73	3297.73
Window U-Value	0.12	1.22	3153.63	3436.87
Window SHGC	0.08	0.7	3297.73	3358.07
Window VLT	0.06	0.89	3297.73	3297.73
Wall Construction Type	masonry-on-masonry	wood-siding	3278.07	3324.62
Wall U-Value	0.03	0.58	3249.98	3519.84
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3297.73	3300.14
Roof U-Value	0.01	0.2	3289.21	3389.70
Daylighting Control Setpoint	0	0	3297.73	3297.73
Interior Lighting Power Density	0.31	3.14	3006.61	4598.59
Shading Projection Factor	0	1	3297.73	3299.04

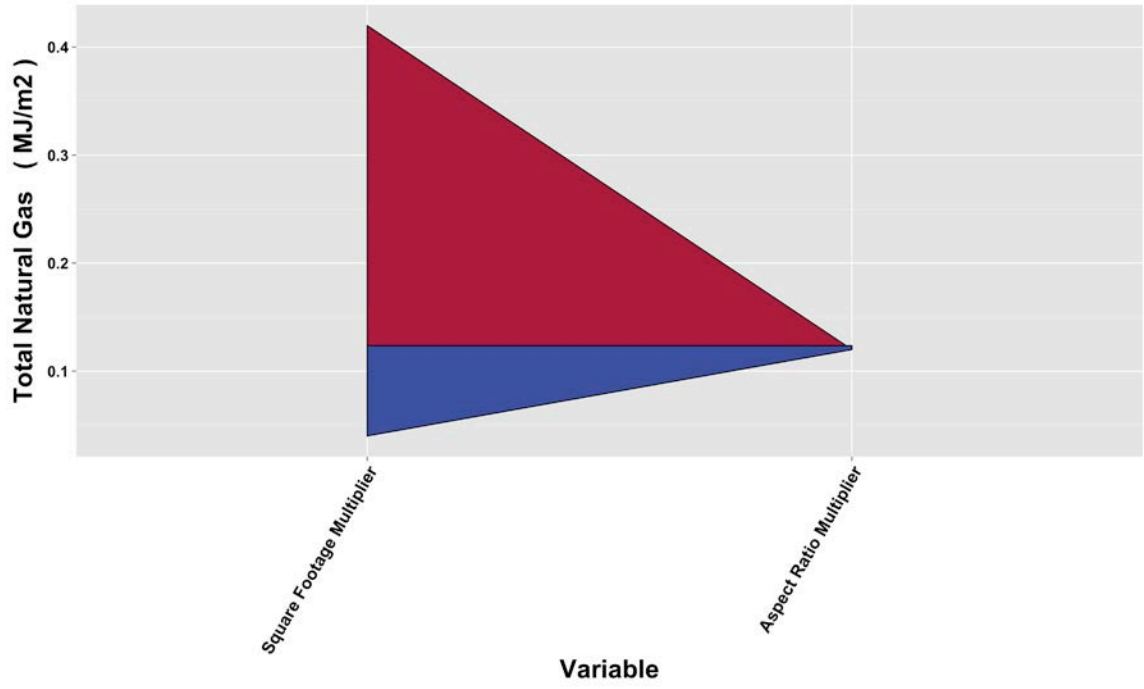
Shading Height above Window	0	2	3295.72	3299.43
District Chiller Cooling Efficiency	0.52	1.48	3297.73	3297.73
Gas Heating Efficiency	0.87	1.13	3297.73	3297.73
Terminal DX Cooling Efficiency	0.68	1.32	3272.79	3346.57
Terminal Furnace Heating Efficiency	0.87	1.13	3297.73	3387.61
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3297.73	3297.73
Water Heater Energy Factor	1	99	3297.73	3531.81
Orientation	0	359	3297.52	3297.73



Total Electricity



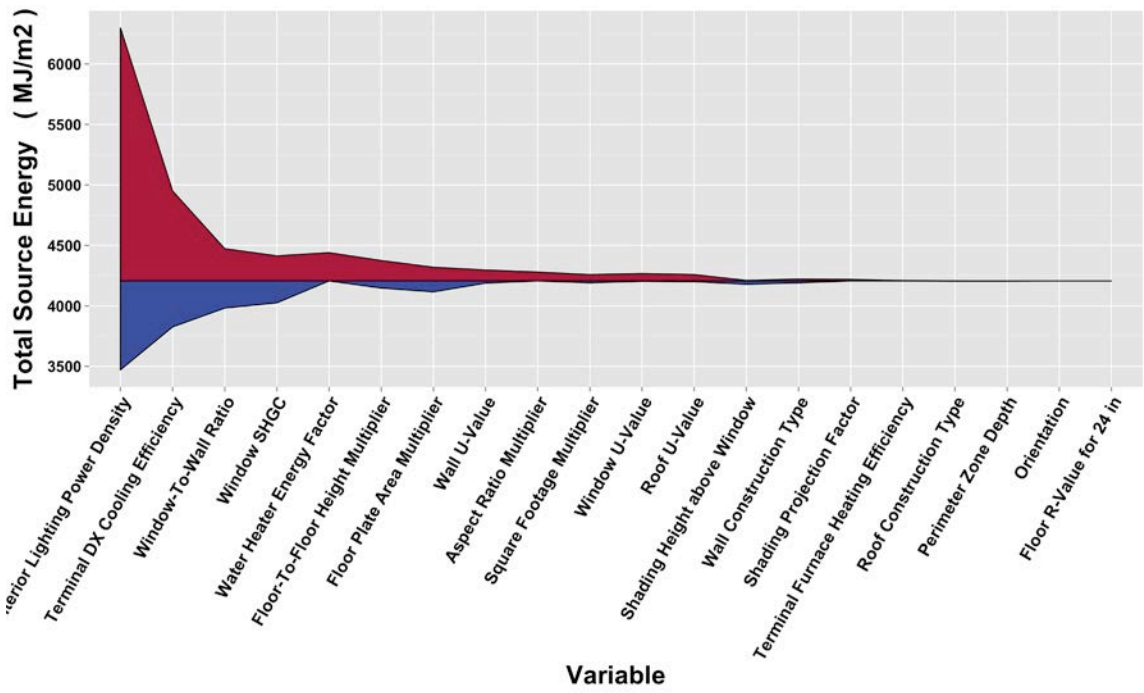
Total Natural Gas



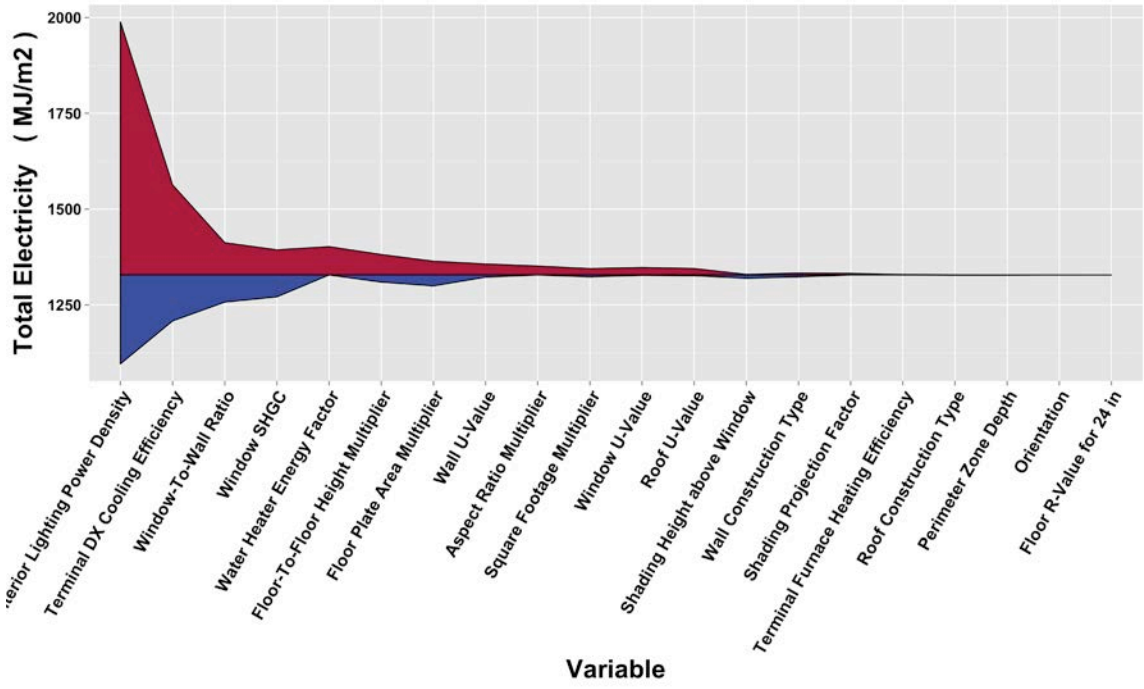
Location: Climate Zone 3B

Total Source Energy

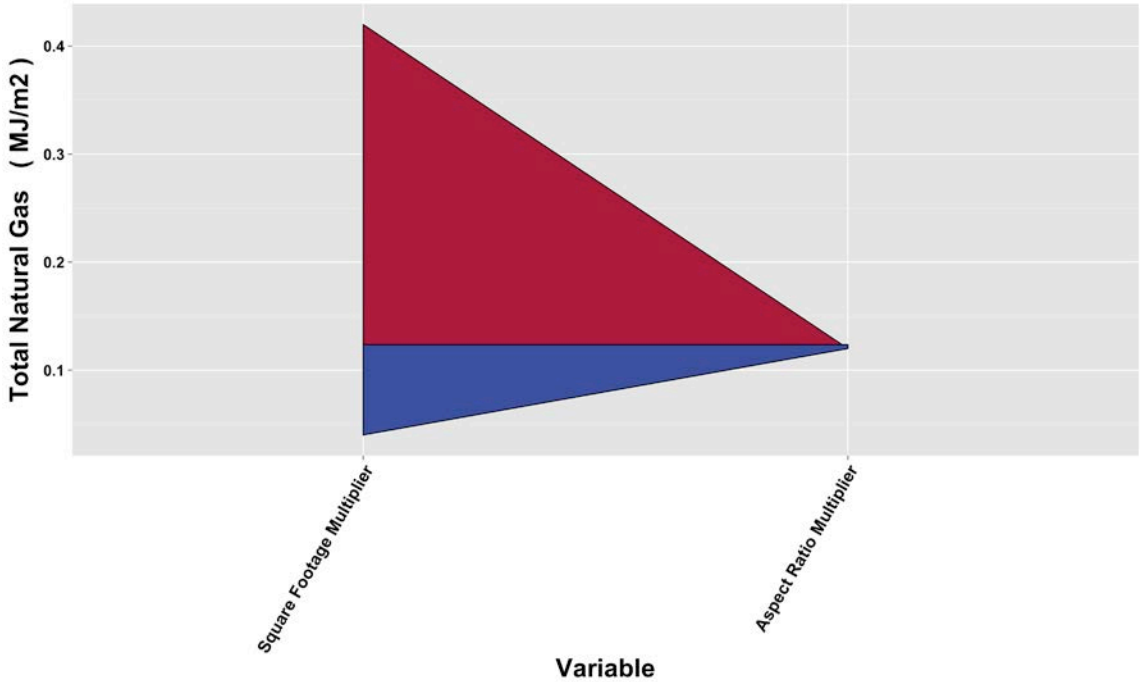
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4206.08	4279.60
Floor Plate Area Multiplier	4500	27000	4115.82	4319.64
Square Footage Multiplier	16200	162000	4190.38	4258.40
Floor-To-Floor Height Multiplier	9.6	19.2	4147.05	4374.93
Perimeter Zone Depth	10	20	4204.13	4206.08
Floor R-Value for 24 in	0	0	4206.08	4206.08
Window-To-Wall Ratio	0	0.71	3981.74	4472.83
Window Sill Height	1	6	4206.08	4206.08
Window U-Value	0.12	1.22	4203.27	4267.72
Window SHGC	0.08	0.7	4025.35	4413.68
Window VLT	0.06	0.89	4206.08	4206.08
Wall Construction Type	masonry-on-masonry	wood-siding	4190.25	4221.72
Wall U-Value	0.03	0.58	4187.84	4296.64
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4204.08	4206.68
Roof U-Value	0.01	0.2	4199.96	4258.87
Daylighting Control Setpoint	0	0	4206.08	4206.08
Interior Lighting Power Density	0.31	3.14	3471.06	6297.24
Shading Projection Factor	0	1	4206.08	4218.68
Shading Height above Window	0	2	4178.68	4210.65
District Chiller Cooling Efficiency	0.52	1.48	4206.08	4206.08
Gas Heating Efficiency	0.87	1.13	4206.08	4206.08
Terminal DX Cooling Efficiency	0.68	1.32	3825.90	4950.61
Terminal Furnace Heating Efficiency	0.87	1.13	4206.08	4209.29
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4206.08	4206.08
Water Heater Energy Factor	1	99	4206.08	4440.05
Orientation	0	359	4205.93	4206.08



Total Electricity



Total Natural Gas

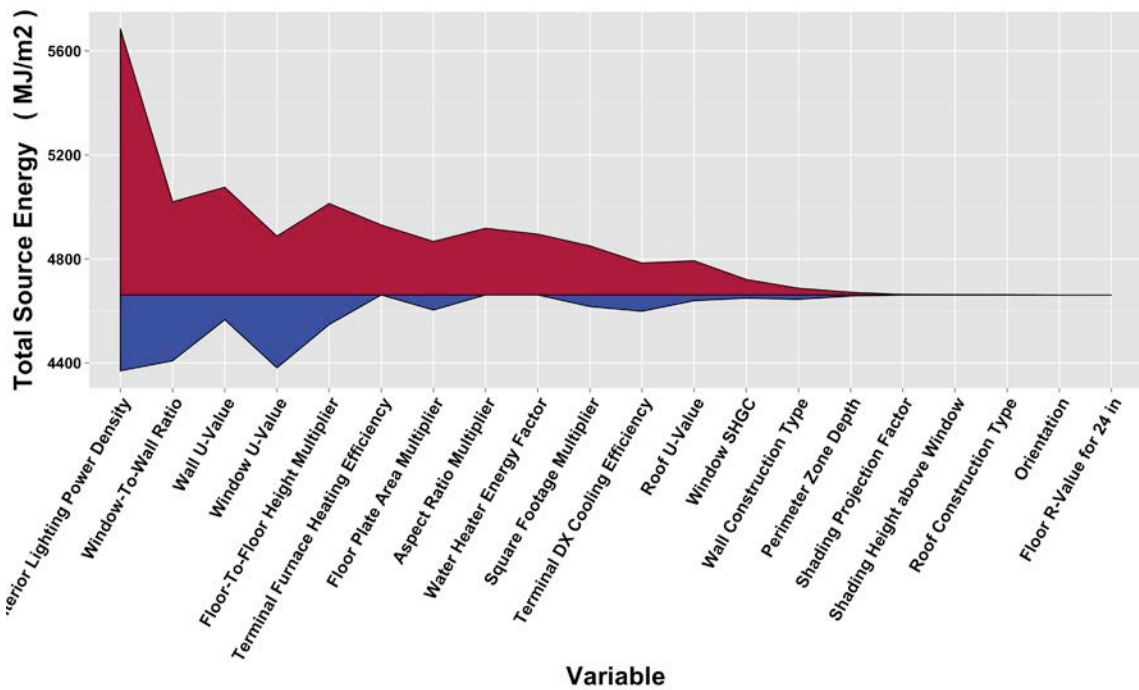


Location: Climate Zone 3C

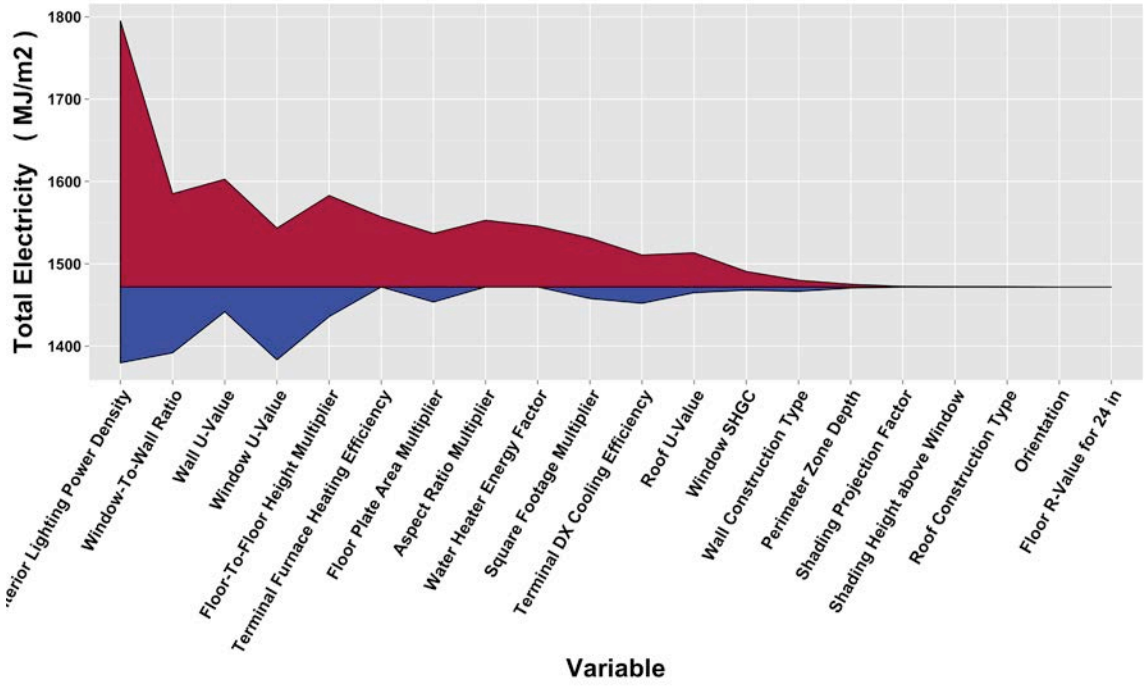
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4661.46	4918.16
Floor Plate Area Multiplier	4500	27000	4603.58	4867.39
Square Footage Multiplier	16200	162000	4616.92	4850.41
Floor-To-Floor Height Multiplier	9.6	19.2	4547.43	5013.45
Perimeter Zone Depth	10	20	4657.29	4671.97
Floor R-Value for 24 in	0	0	4661.46	4661.46
Window-To-Wall Ratio	0	0.71	4408.19	5020.07
Window Sill Height	1	6	4661.46	4661.46
Window U-Value	0.12	1.22	4380.98	4887.97
Window SHGC	0.08	0.7	4649.16	4721.19
Window VLT	0.06	0.89	4661.46	4661.46
Wall Construction Type	masonry-on-masonry	wood-siding	4644.69	4687.46
Wall U-Value	0.03	0.58	4566.05	5076.03
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4661.46	4662.81
Roof U-Value	0.01	0.2	4639.53	4793.04
Daylighting Control Setpoint	0	0	4661.46	4661.46
Interior Lighting Power Density	0.31	3.14	4369.72	5684.42
Shading Projection Factor	0	1	4661.46	4663.61

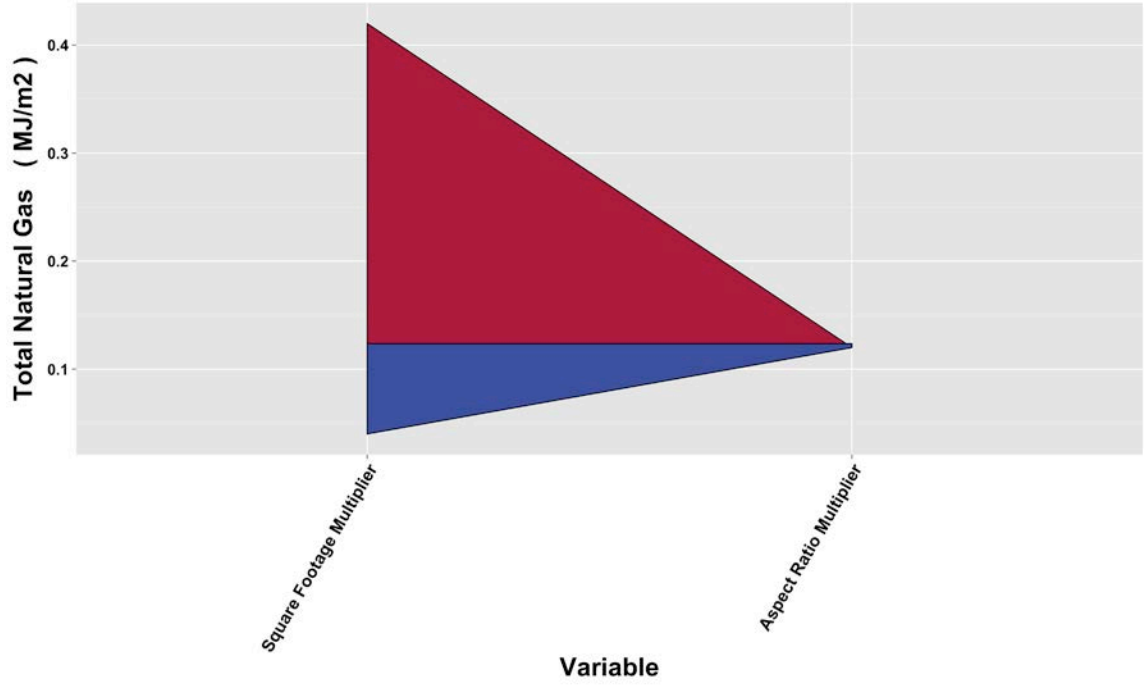
Shading Height above Window	0	2	4661.46	4662.97
District Chiller Cooling Efficiency	0.52	1.48	4661.46	4661.46
Gas Heating Efficiency	0.87	1.13	4661.46	4661.46
Terminal DX Cooling Efficiency	0.68	1.32	4598.71	4784.34
Terminal Furnace Heating Efficiency	0.87	1.13	4661.46	4930.83
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4661.46	4661.46
Water Heater Energy Factor	1	99	4661.46	4895.54
Orientation	0	359	4661.30	4661.47



Total Electricity



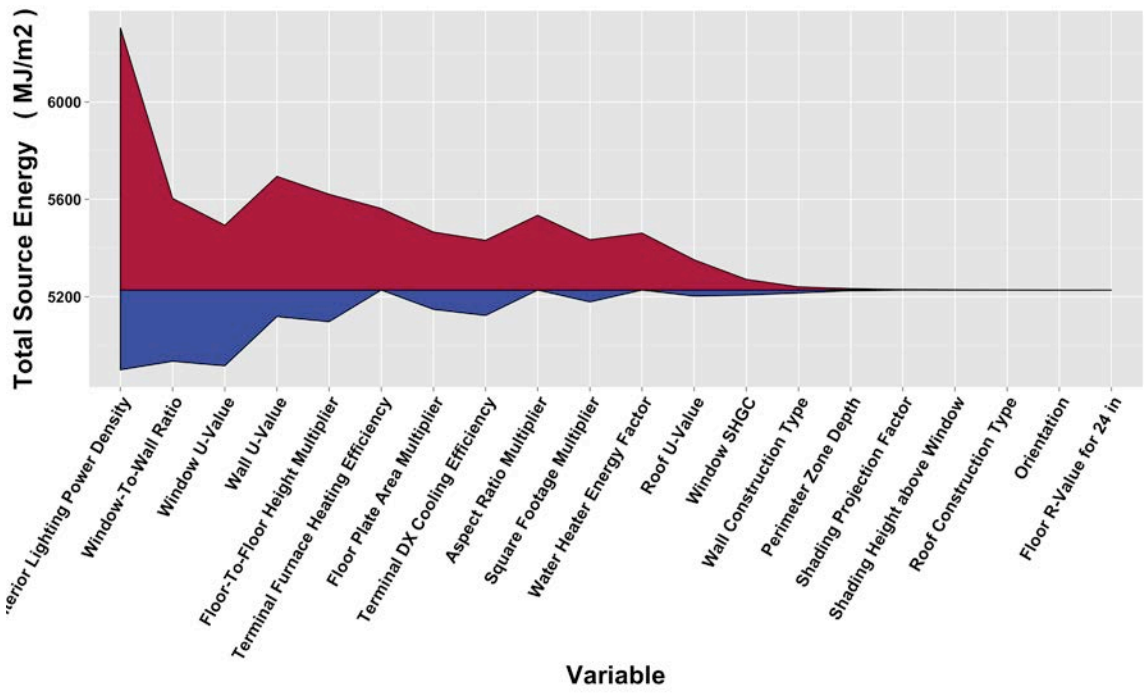
Total Natural Gas



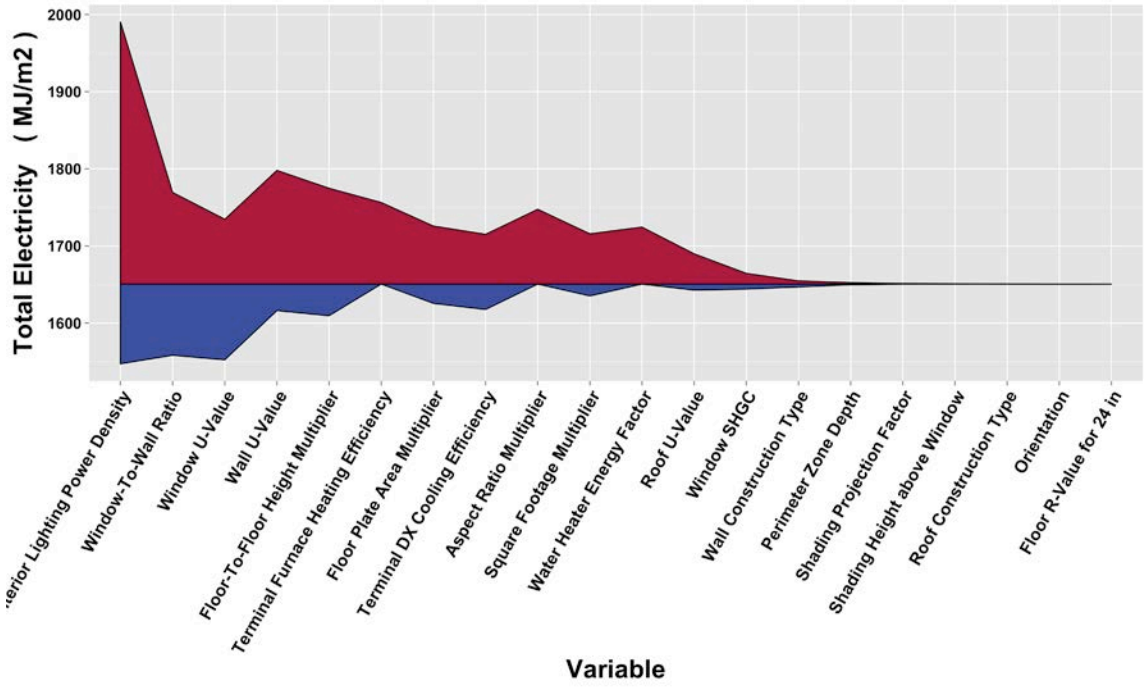
Location: Climate Zone 4A

Total Source Energy

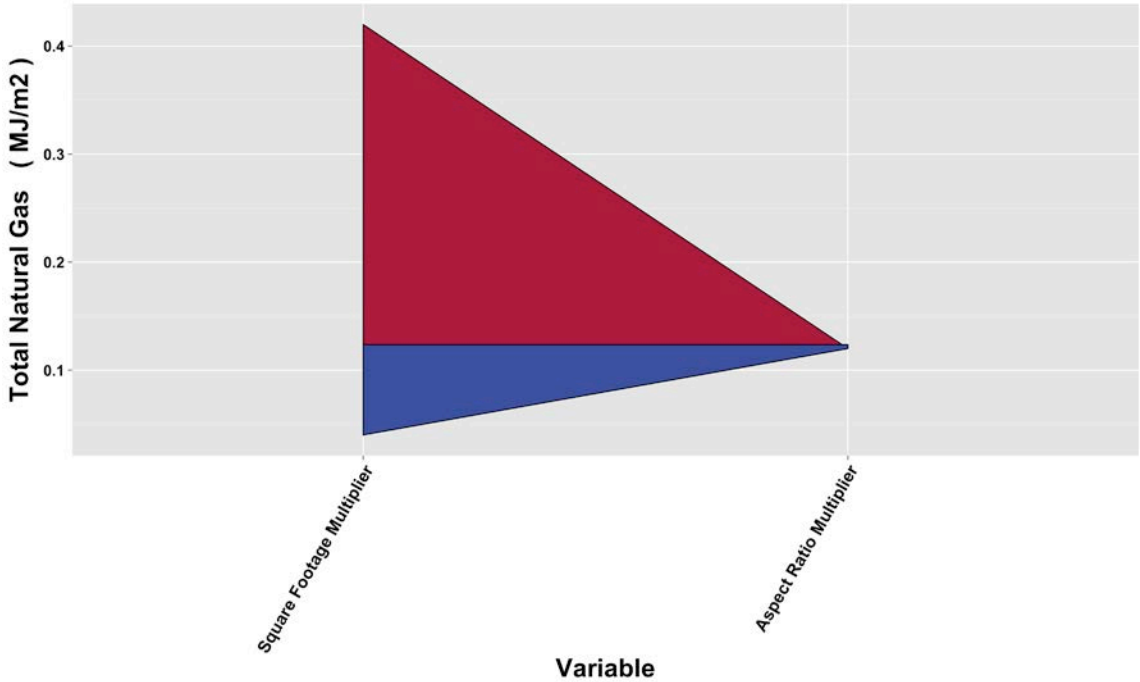
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	5227.12	5534.60
Floor Plate Area Multiplier	4500	27000	5147.81	5465.59
Square Footage Multiplier	16200	162000	5178.33	5434.01
Floor-To-Floor Height Multiplier	9.6	19.2	5097.06	5620.82
Perimeter Zone Depth	10	20	5224.48	5233.13
Floor R-Value for 24 in	0	0	5227.12	5227.12
Window-To-Wall Ratio	0	0.71	4934.68	5603.85
Window Sill Height	1	6	5227.12	5227.12
Window U-Value	0.12	1.22	4915.90	5493.61
Window SHGC	0.08	0.7	5206.54	5271.15
Window VLT	0.06	0.89	5227.12	5227.12
Wall Construction Type	masonry-on-masonry	wood-siding	5215.34	5240.24
Wall U-Value	0.03	0.58	5118.10	5694.35
Roof Construction Type	built-up concrete-deck	built-up wood-deck	5227.12	5227.98
Roof U-Value	0.01	0.2	5202.18	5351.51
Daylighting Control Setpoint	0	0	5227.12	5227.12
Interior Lighting Power Density	0.31	3.14	4899.47	6303.66
Shading Projection Factor	0	1	5227.12	5229.61
Shading Height above Window	0	2	5227.12	5228.40
District Chiller Cooling Efficiency	0.52	1.48	5227.12	5227.12
Gas Heating Efficiency	0.87	1.13	5227.12	5227.12
Terminal DX Cooling Efficiency	0.68	1.32	5122.73	5431.54
Terminal Furnace Heating Efficiency	0.87	1.13	5227.12	5562.39
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	5227.12	5227.12
Water Heater Energy Factor	1	99	5227.12	5461.20
Orientation	0	359	5226.85	5227.12



Total Electricity



Total Natural Gas

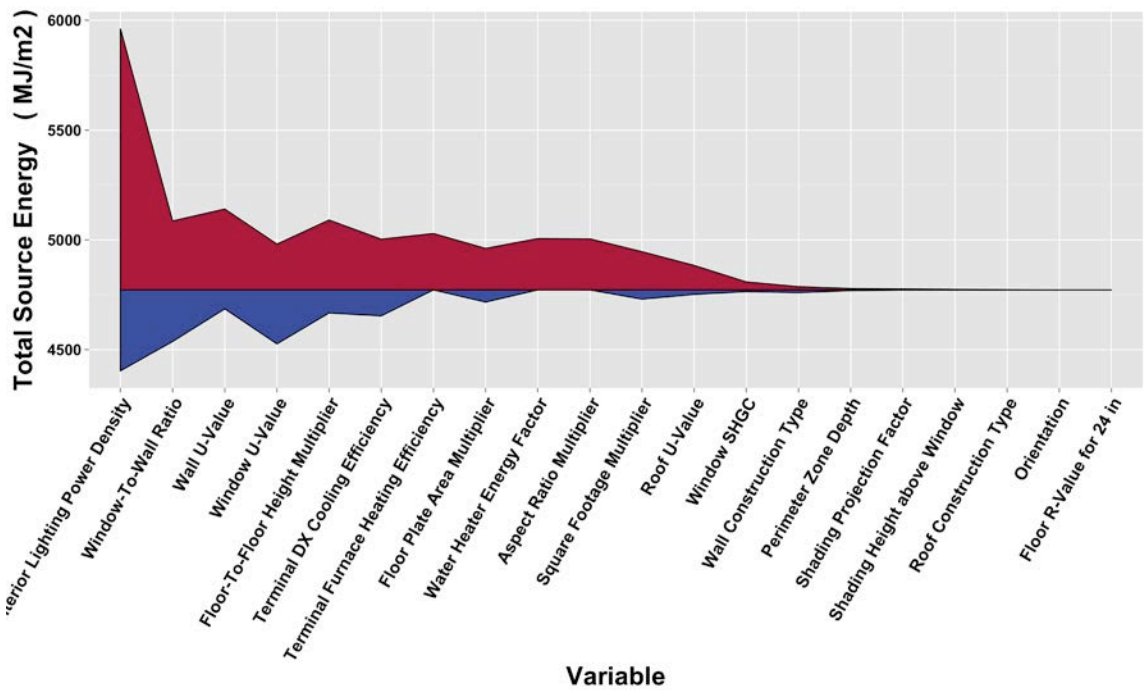


Location: Climate Zone 4B

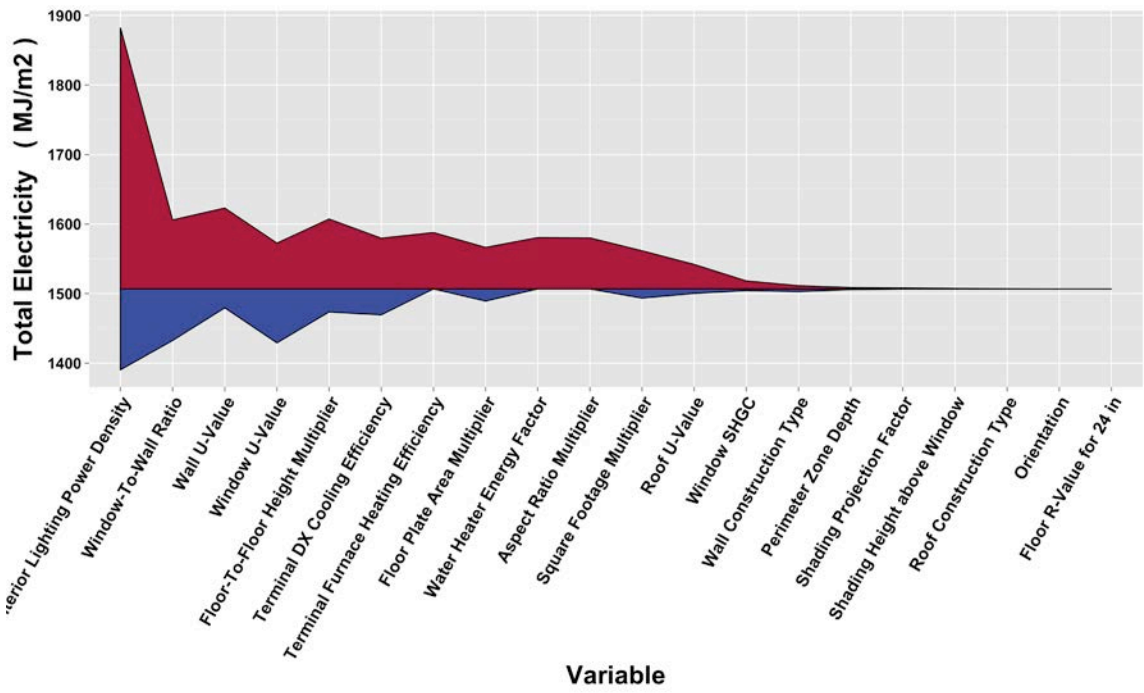
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4771.95	5004.65
Floor Plate Area Multiplier	4500	27000	4716.61	4961.10
Square Footage Multiplier	16200	162000	4730.01	4946.23
Floor-To-Floor Height Multiplier	9.6	19.2	4667.18	5090.52
Perimeter Zone Depth	10	20	4768.88	4778.32
Floor R-Value for 24 in	0	0	4771.95	4771.95
Window-To-Wall Ratio	0	0.71	4537.23	5086.29
Window Sill Height	1	6	4771.95	4771.95
Window U-Value	0.12	1.22	4526.23	4980.83
Window SHGC	0.08	0.7	4764.49	4808.53
Window VLT	0.06	0.89	4771.95	4771.95
Wall Construction Type	masonry-on-masonry	wood-siding	4759.71	4786.86
Wall U-Value	0.03	0.58	4685.75	5140.56
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4771.95	4772.97
Roof U-Value	0.01	0.2	4751.68	4883.73
Daylighting Control Setpoint	0	0	4771.95	4771.95
Interior Lighting Power Density	0.31	3.14	4403.59	5960.14
Shading Projection Factor	0	1	4771.95	4776.88

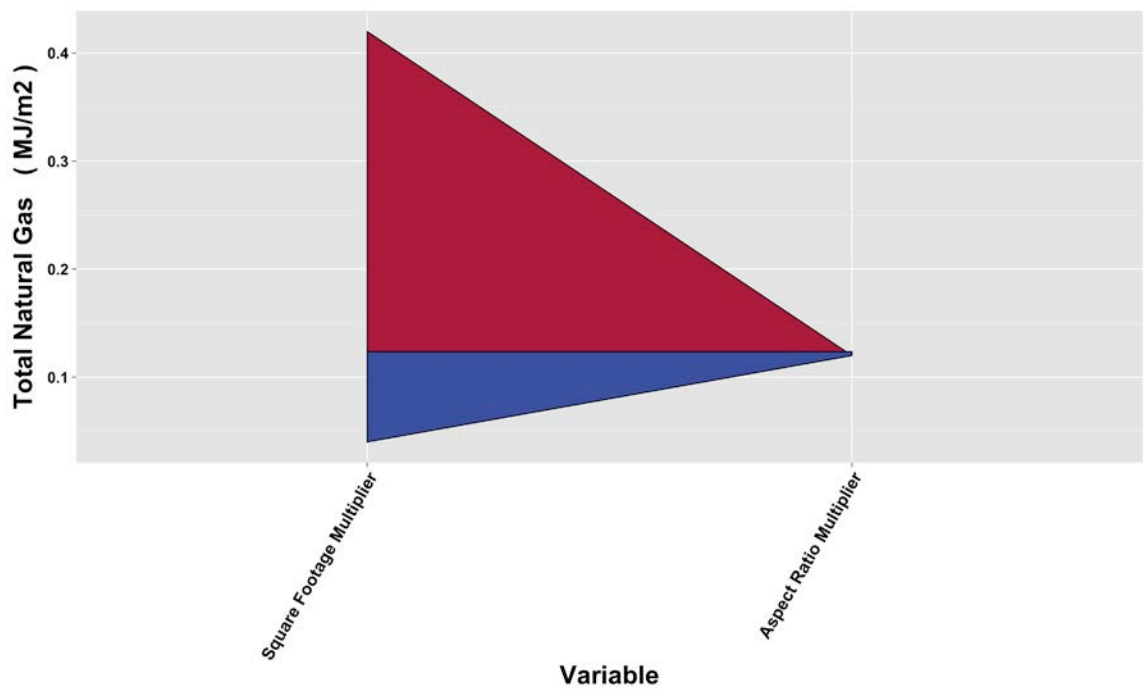
Shading Height above Window	0	2	4771.95	4774.03
District Chiller Cooling Efficiency	0.52	1.48	4771.95	4771.95
Gas Heating Efficiency	0.87	1.13	4771.95	4771.95
Terminal DX Cooling Efficiency	0.68	1.32	4653.90	5003.14
Terminal Furnace Heating Efficiency	0.87	1.13	4771.95	5028.91
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4771.95	4771.95
Water Heater Energy Factor	1	99	4771.95	5006.02
Orientation	0	359	4771.61	4771.95



Total Electricity



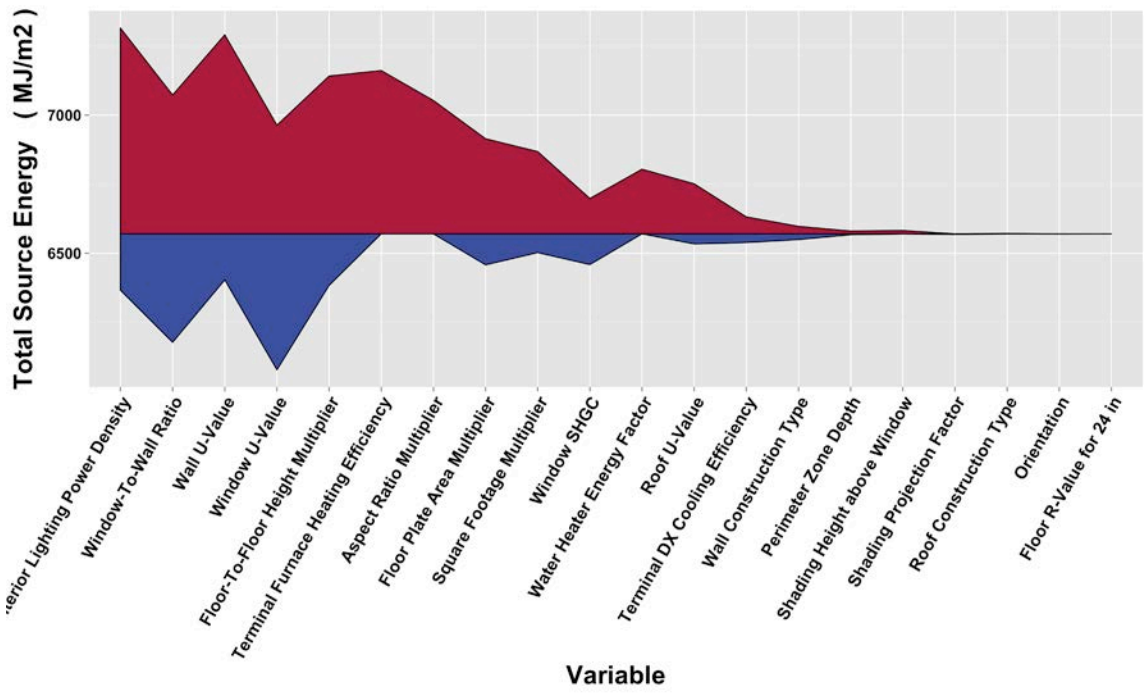
Total Natural Gas



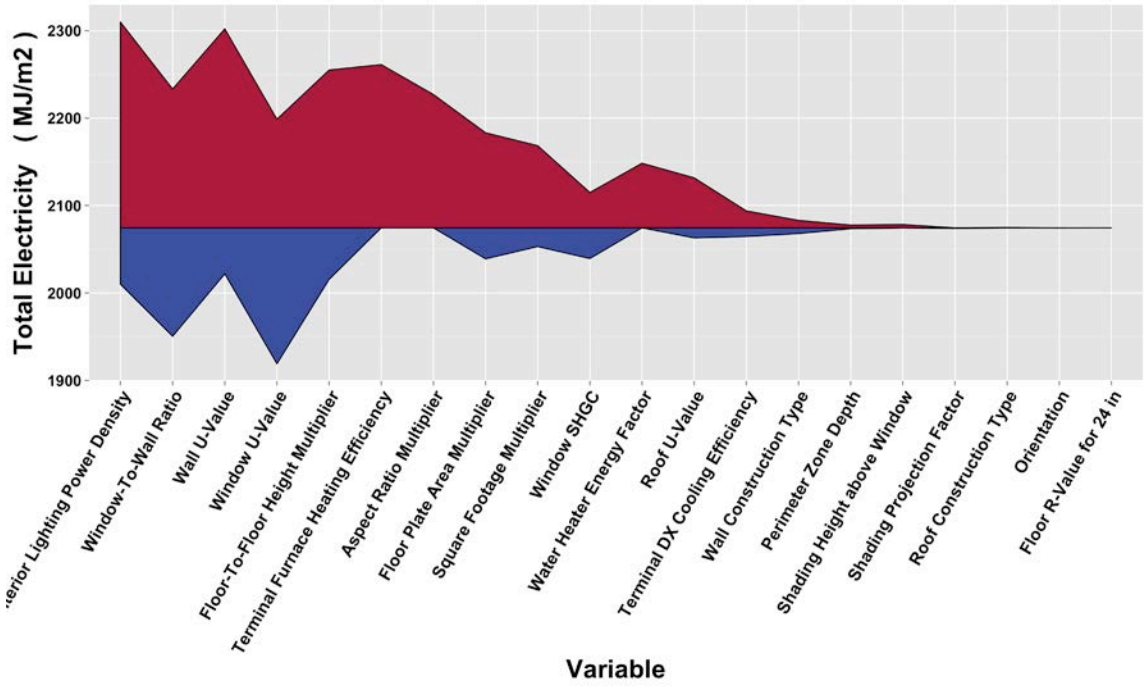
Location: Climate Zone 4C

Total Source Energy

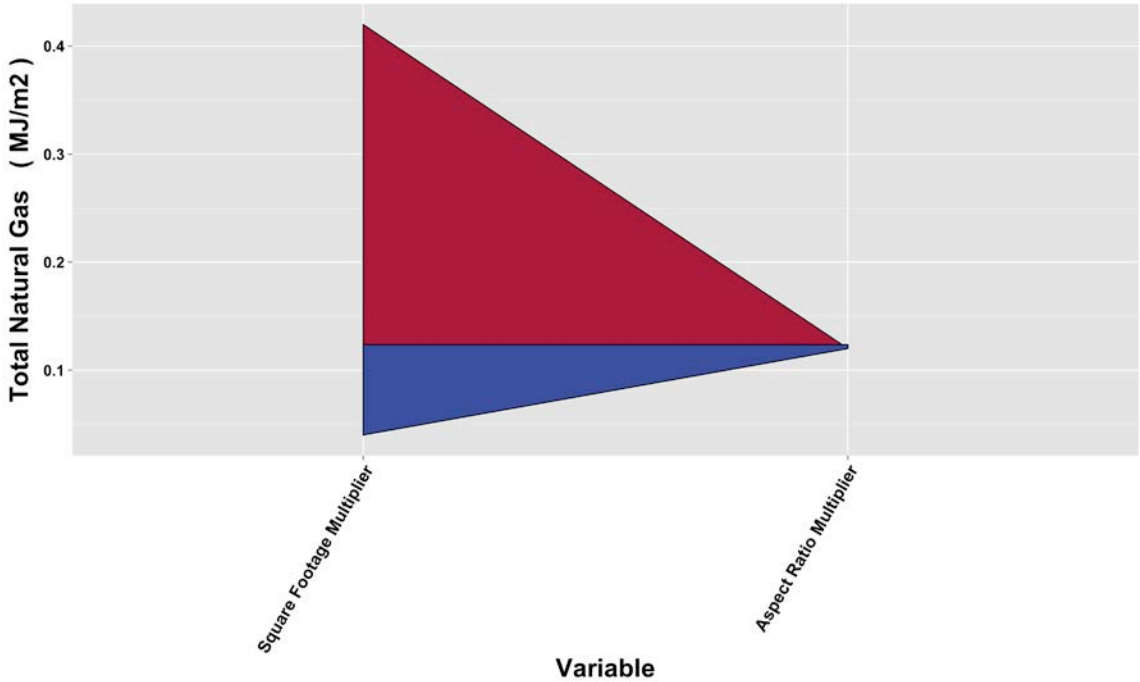
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	6570.01	7053.20
Floor Plate Area Multiplier	4500	27000	6457.65	6914.48
Square Footage Multiplier	16200	162000	6502.02	6868.03
Floor-To-Floor Height Multiplier	9.6	19.2	6383.17	7141.60
Perimeter Zone Depth	10	20	6566.75	6580.15
Floor R-Value for 24 in	0	0	6570.01	6570.01
Window-To-Wall Ratio	0	0.71	6177.13	7072.93
Window Sill Height	1	6	6570.01	6570.01
Window U-Value	0.12	1.22	6077.58	6963.61
Window SHGC	0.08	0.7	6458.71	6698.28
Window VLT	0.06	0.89	6570.01	6570.01
Wall Construction Type	masonry-on-masonry	wood-siding	6549.26	6597.19
Wall U-Value	0.03	0.58	6403.28	7290.79
Roof Construction Type	built-up concrete-deck	built-up wood-deck	6570.01	6571.45
Roof U-Value	0.01	0.2	6533.42	6751.29
Daylighting Control Setpoint	0	0	6570.01	6570.01
Interior Lighting Power Density	0.31	3.14	6365.66	7315.31
Shading Projection Factor	0	1	6568.11	6570.01
Shading Height above Window	0	2	6569.79	6582.07
District Chiller Cooling Efficiency	0.52	1.48	6570.01	6570.01
Gas Heating Efficiency	0.87	1.13	6570.01	6570.01
Terminal DX Cooling Efficiency	0.68	1.32	6538.61	6631.50
Terminal Furnace Heating Efficiency	0.87	1.13	6570.01	7161.39
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	6570.01	6570.01
Water Heater Energy Factor	1	99	6570.01	6804.12
Orientation	0	359	6569.56	6570.01



Total Electricity



Total Natural Gas

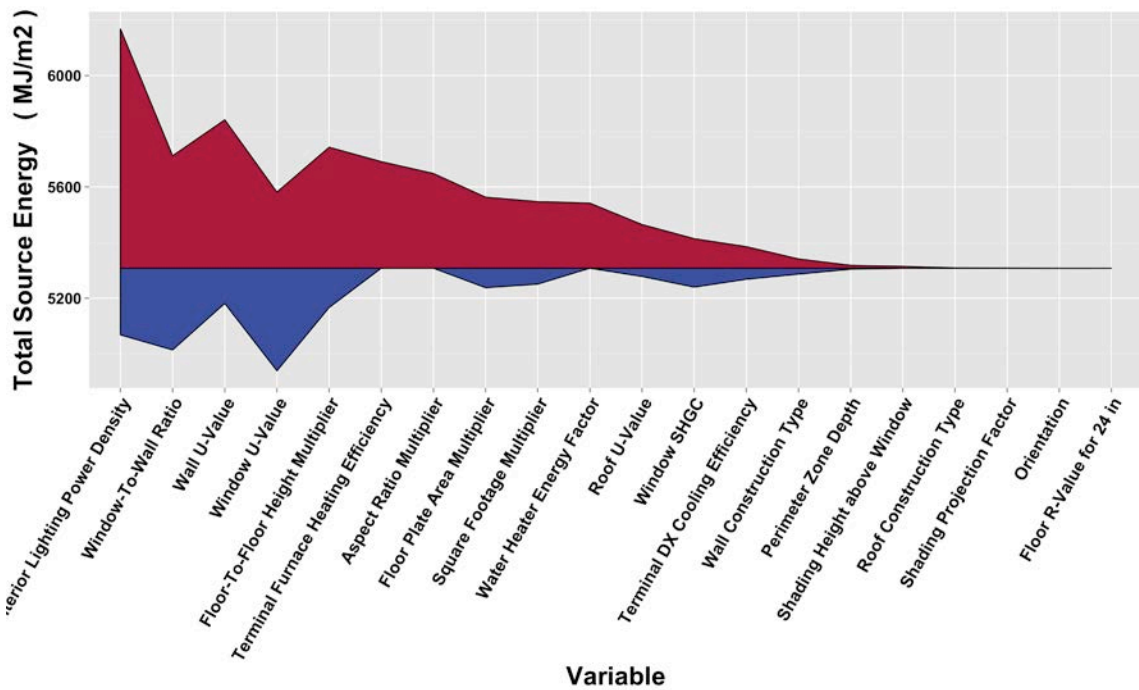


Location: Climate Zone 5A

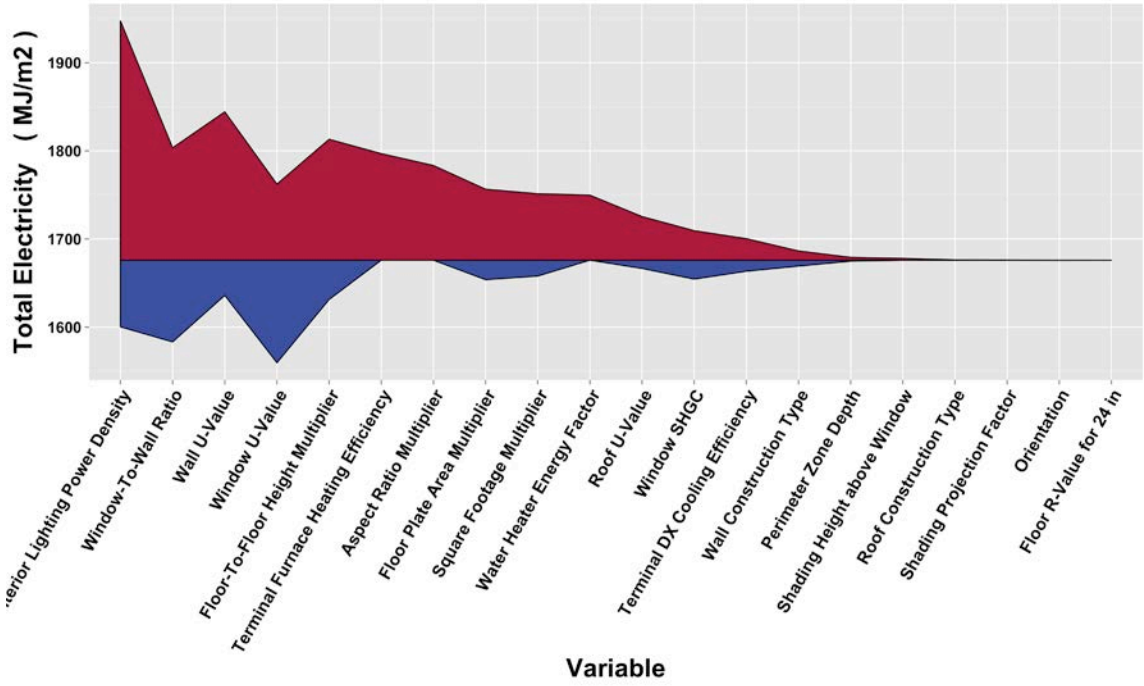
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	5307.70	5648.41
Floor Plate Area Multiplier	4500	27000	5237.68	5563.13
Square Footage Multiplier	16200	162000	5250.55	5547.06
Floor-To-Floor Height Multiplier	9.6	19.2	5166.32	5742.70
Perimeter Zone Depth	10	20	5304.22	5318.12
Floor R-Value for 24 in	0	0	5307.70	5307.70
Window-To-Wall Ratio	0	0.71	5013.94	5712.04
Window Sill Height	1	6	5307.70	5307.70
Window U-Value	0.12	1.22	4938.89	5581.44
Window SHGC	0.08	0.7	5239.66	5413.93
Window VLT	0.06	0.89	5307.70	5307.70
Wall Construction Type	masonry-on-masonry	wood-siding	5286.46	5341.13
Wall U-Value	0.03	0.58	5181.04	5841.32
Roof Construction Type	built-up concrete-deck	built-up wood-deck	5307.70	5308.90
Roof U-Value	0.01	0.2	5278.11	5464.83
Daylighting Control Setpoint	0	0	5307.70	5307.70
Interior Lighting Power Density	0.31	3.14	5068.15	6167.46
Shading Projection Factor	0	1	5307.70	5308.62

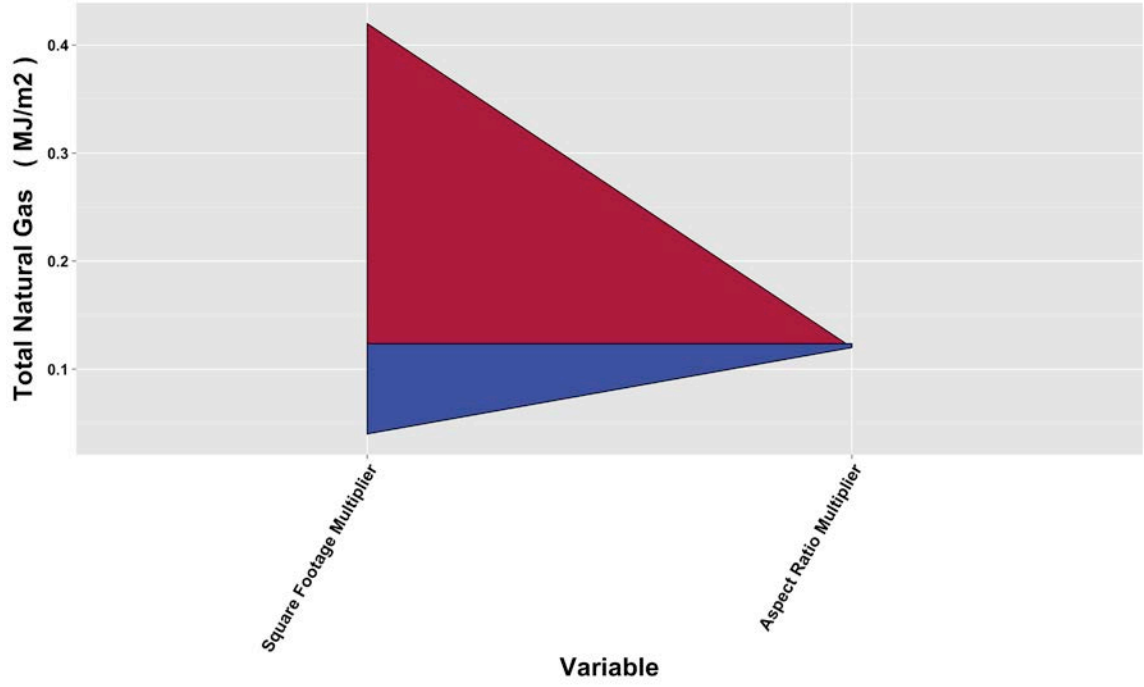
Shading Height above Window	0	2	5307.70	5314.23
District Chiller Cooling Efficiency	0.52	1.48	5307.70	5307.70
Gas Heating Efficiency	0.87	1.13	5307.70	5307.70
Terminal DX Cooling Efficiency	0.68	1.32	5268.09	5385.28
Terminal Furnace Heating Efficiency	0.87	1.13	5307.70	5691.00
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	5307.70	5307.70
Water Heater Energy Factor	1	99	5307.70	5541.81
Orientation	0	359	5307.43	5307.71



Total Electricity



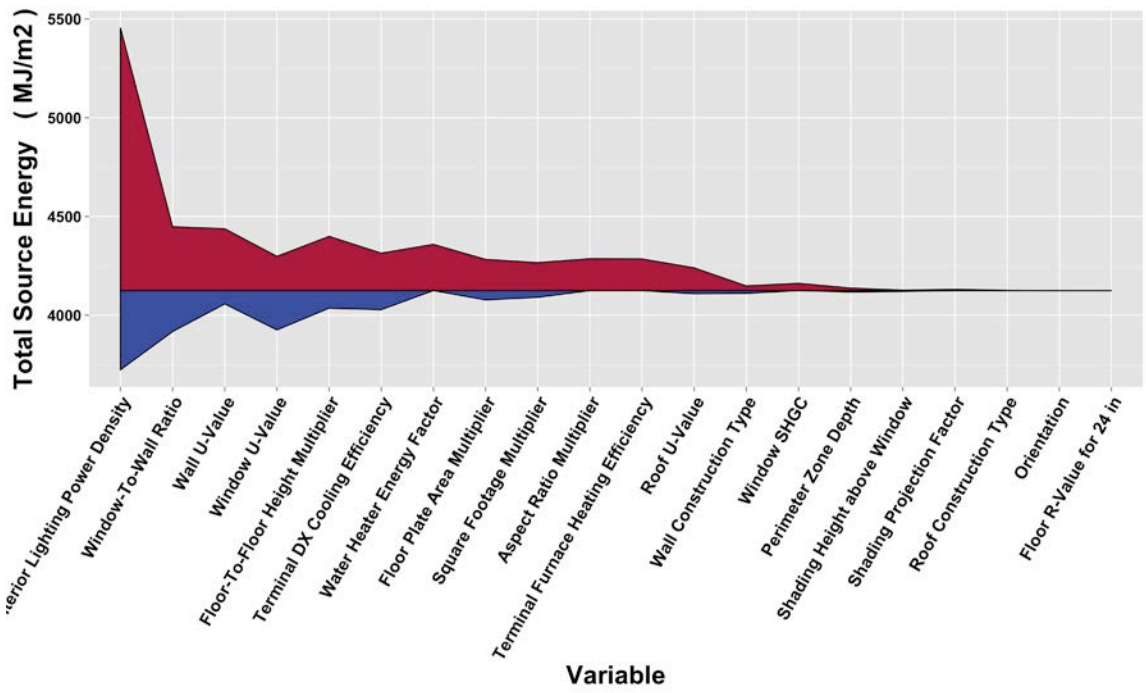
Total Natural Gas



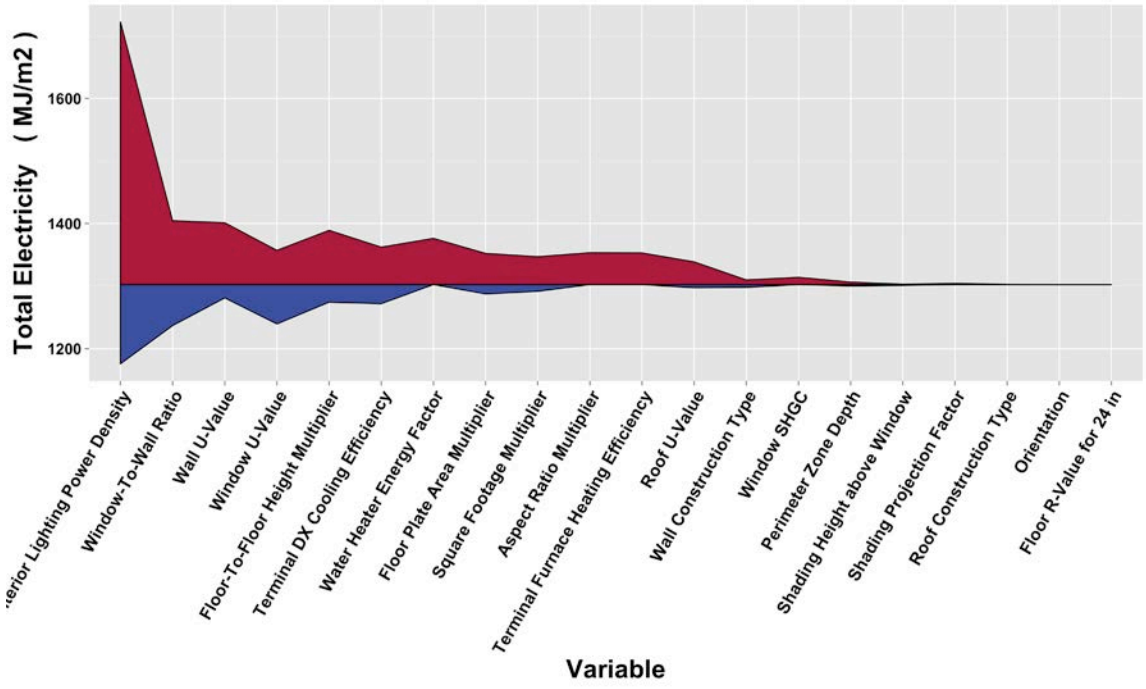
Location: Climate Zone 5B

Total Source Energy

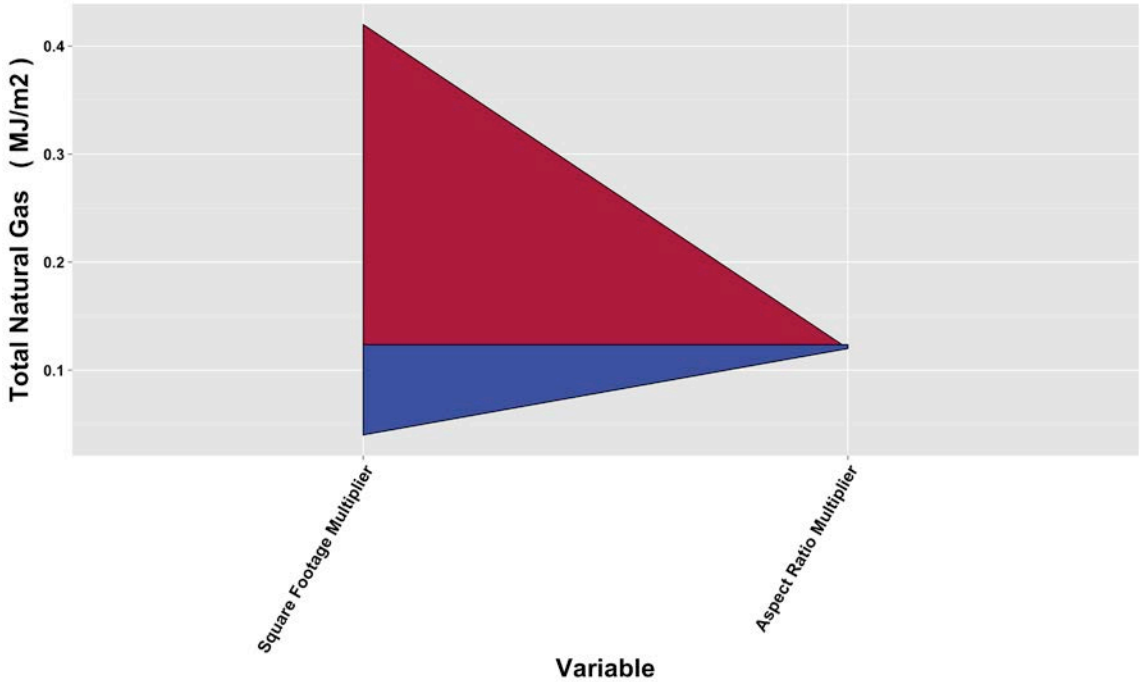
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4124.99	4286.32
Floor Plate Area Multiplier	4500	27000	4077.80	4282.83
Square Footage Multiplier	16200	162000	4090.82	4266.50
Floor-To-Floor Height Multiplier	9.6	19.2	4036.01	4399.81
Perimeter Zone Depth	10	20	4117.95	4137.57
Floor R-Value for 24 in	0	0	4124.99	4124.99
Window-To-Wall Ratio	0	0.71	3917.42	4448.23
Window Sill Height	1	6	4124.99	4124.99
Window U-Value	0.12	1.22	3925.61	4298.44
Window SHGC	0.08	0.7	4124.99	4161.78
Window VLT	0.06	0.89	4124.99	4124.99
Wall Construction Type	masonry-on-masonry	wood-siding	4110.92	4148.64
Wall U-Value	0.03	0.58	4057.41	4438.05
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4124.99	4126.41
Roof U-Value	0.01	0.2	4108.79	4240.13
Daylighting Control Setpoint	0	0	4124.99	4124.99
Interior Lighting Power Density	0.31	3.14	3723.82	5453.96
Shading Projection Factor	0	1	4124.99	4130.80
Shading Height above Window	0	2	4120.75	4126.97
District Chiller Cooling Efficiency	0.52	1.48	4124.99	4124.99
Gas Heating Efficiency	0.87	1.13	4124.99	4124.99
Terminal DX Cooling Efficiency	0.68	1.32	4028.23	4314.47
Terminal Furnace Heating Efficiency	0.87	1.13	4124.99	4285.14
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4124.99	4124.99
Water Heater Energy Factor	1	99	4124.99	4359.04
Orientation	0	359	4124.82	4125.00



Total Electricity



Total Natural Gas

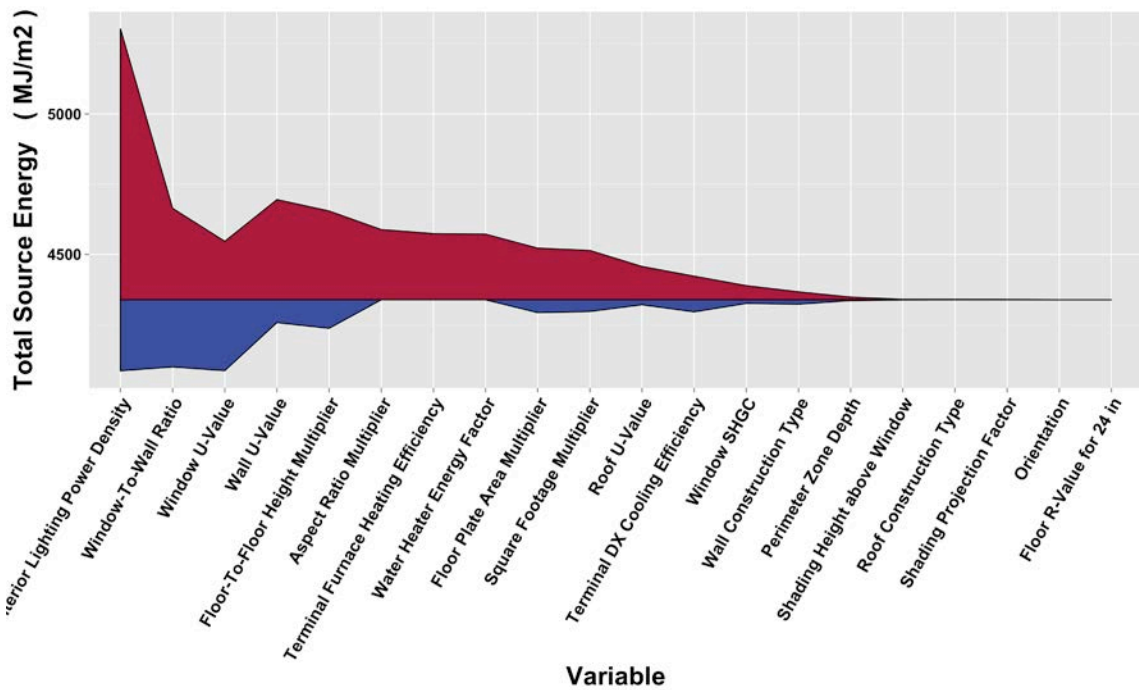


Location: Climate Zone 5C

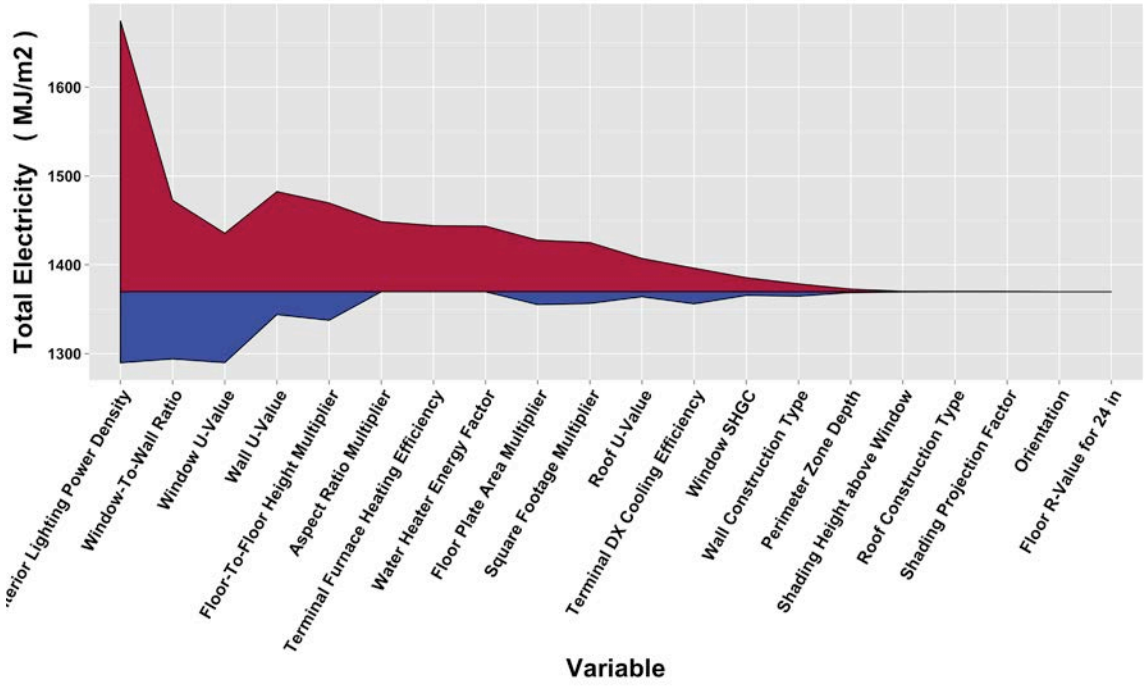
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4337.72	4588.19
Floor Plate Area Multiplier	4500	27000	4291.97	4521.96
Square Footage Multiplier	16200	162000	4296.09	4513.75
Floor-To-Floor Height Multiplier	9.6	19.2	4236.04	4654.45
Perimeter Zone Depth	10	20	4335.09	4347.43
Floor R-Value for 24 in	0	0	4337.72	4337.72
Window-To-Wall Ratio	0	0.71	4098.52	4664.03
Window Sill Height	1	6	4337.72	4337.72
Window U-Value	0.12	1.22	4085.05	4546.42
Window SHGC	0.08	0.7	4324.82	4388.24
Window VLT	0.06	0.89	4337.72	4337.72
Wall Construction Type	masonry-on-masonry	wood-siding	4322.03	4366.20
Wall U-Value	0.03	0.58	4256.43	4695.06
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4337.72	4339.47
Roof U-Value	0.01	0.2	4320.06	4456.58
Daylighting Control Setpoint	0	0	4337.72	4337.72
Interior Lighting Power Density	0.31	3.14	4084.55	5302.99
Shading Projection Factor	0	1	4337.72	4339.08

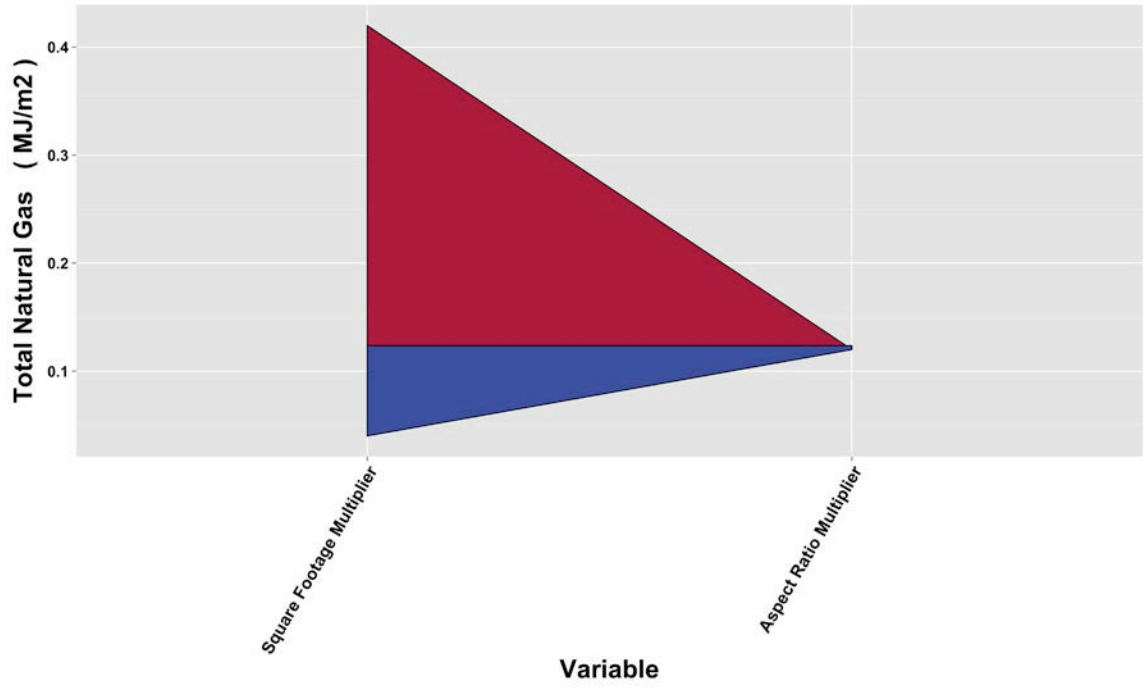
Shading Height above Window	0	2	4337.12	4339.54
District Chiller Cooling Efficiency	0.52	1.48	4337.72	4337.72
Gas Heating Efficiency	0.87	1.13	4337.72	4337.72
Terminal DX Cooling Efficiency	0.68	1.32	4294.69	4422.00
Terminal Furnace Heating Efficiency	0.87	1.13	4337.72	4573.78
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4337.72	4337.72
Water Heater Energy Factor	1	99	4337.72	4571.82
Orientation	0	359	4337.56	4337.72



Total Electricity



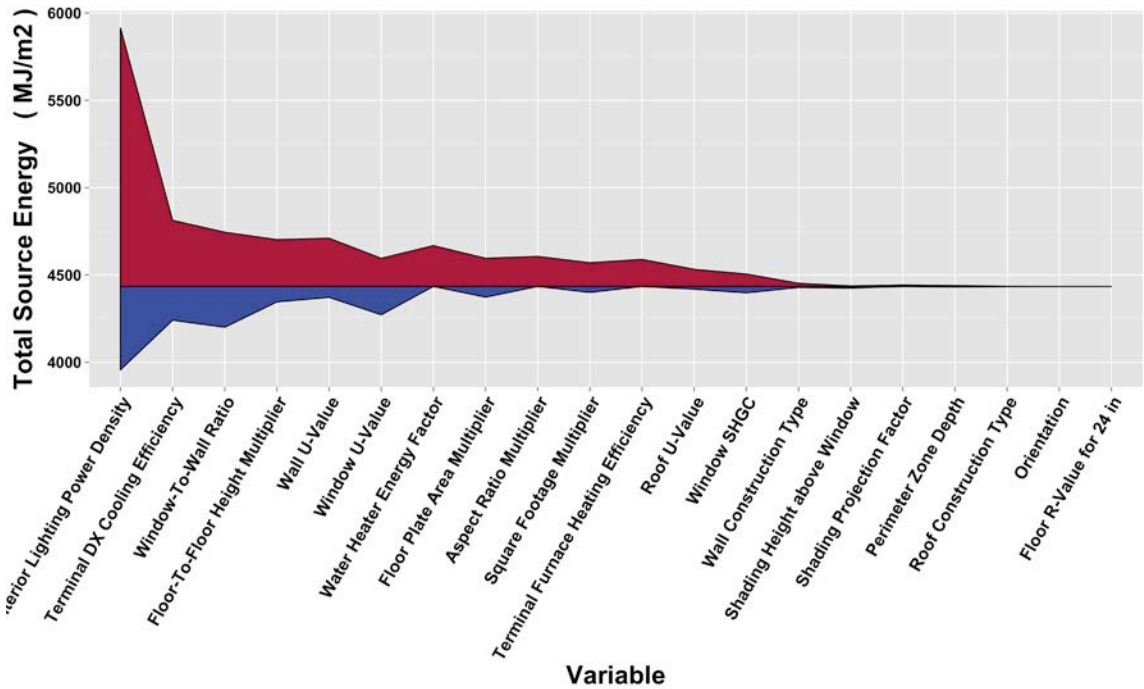
Total Natural Gas



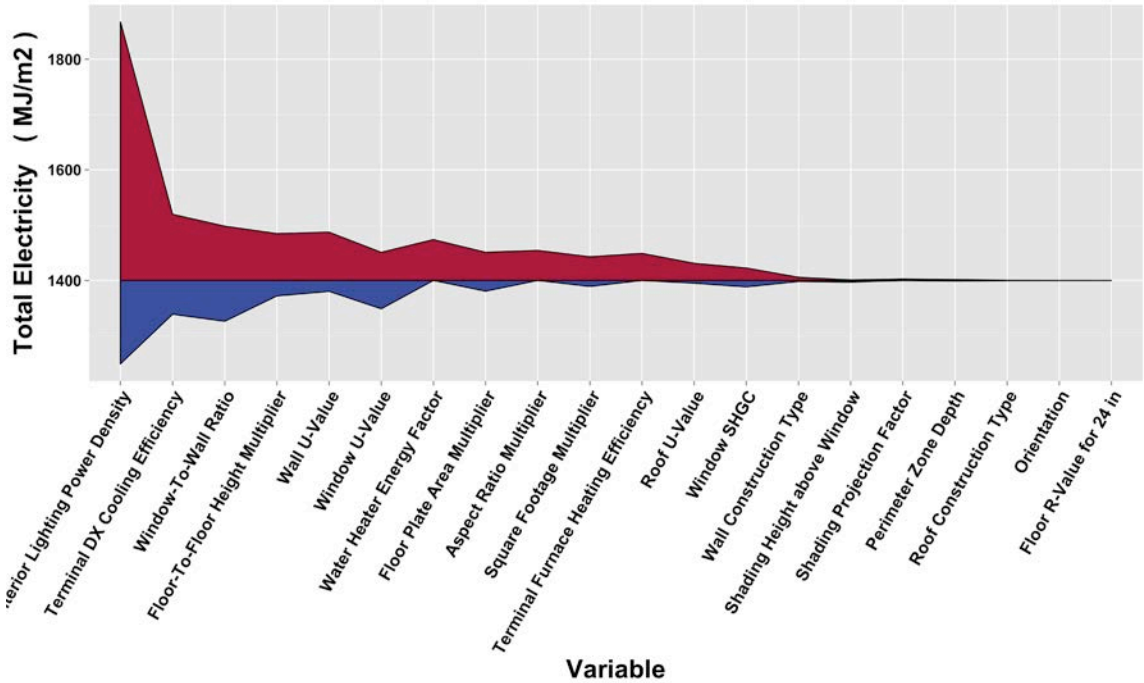
Location: Climate Zone 6A

Total Source Energy

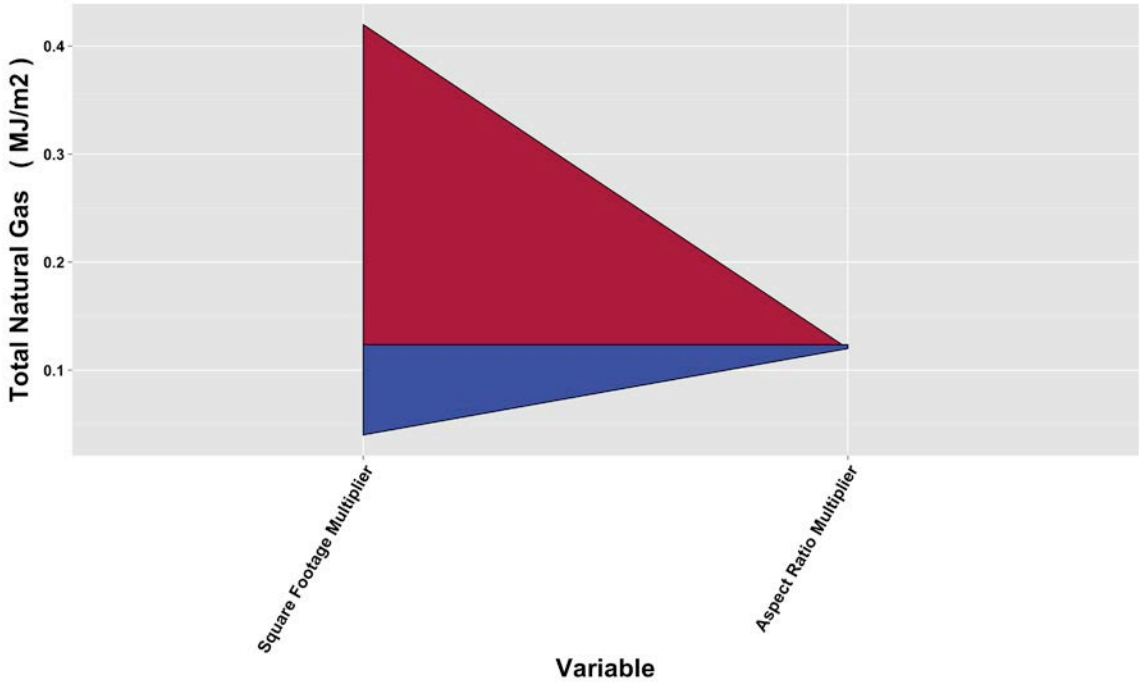
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4433.98	4605.95
Floor Plate Area Multiplier	4500	27000	4372.62	4595.33
Square Footage Multiplier	16200	162000	4399.77	4569.92
Floor-To-Floor Height Multiplier	9.6	19.2	4345.50	4702.31
Perimeter Zone Depth	10	20	4431.10	4438.98
Floor R-Value for 24 in	0	0	4433.98	4433.98
Window-To-Wall Ratio	0	0.71	4200.06	4744.70
Window Sill Height	1	6	4433.98	4433.98
Window U-Value	0.12	1.22	4271.57	4595.10
Window SHGC	0.08	0.7	4397.20	4505.18
Window VLT	0.06	0.89	4433.98	4433.98
Wall Construction Type	masonry-on-masonry	wood-siding	4428.27	4452.31
Wall U-Value	0.03	0.58	4371.53	4710.47
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4433.52	4435.09
Roof U-Value	0.01	0.2	4418.35	4532.21
Daylighting Control Setpoint	0	0	4433.98	4433.98
Interior Lighting Power Density	0.31	3.14	3956.56	5913.78
Shading Projection Factor	0	1	4433.98	4442.35
Shading Height above Window	0	2	4424.68	4436.75
District Chiller Cooling Efficiency	0.52	1.48	4433.98	4433.98
Gas Heating Efficiency	0.87	1.13	4433.98	4433.98
Terminal DX Cooling Efficiency	0.68	1.32	4240.55	4812.79
Terminal Furnace Heating Efficiency	0.87	1.13	4433.98	4589.10
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4433.98	4433.98
Water Heater Energy Factor	1	99	4433.98	4668.02
Orientation	0	359	4433.87	4433.98



Total Electricity



Total Natural Gas

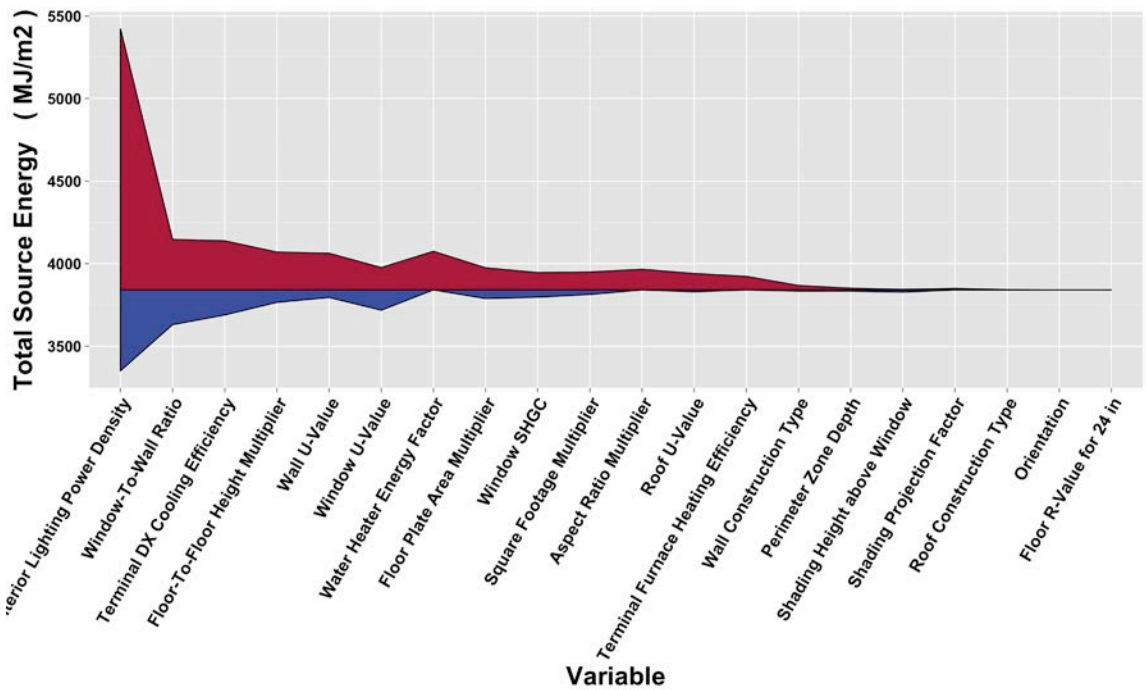


Location: Climate Zone 6B

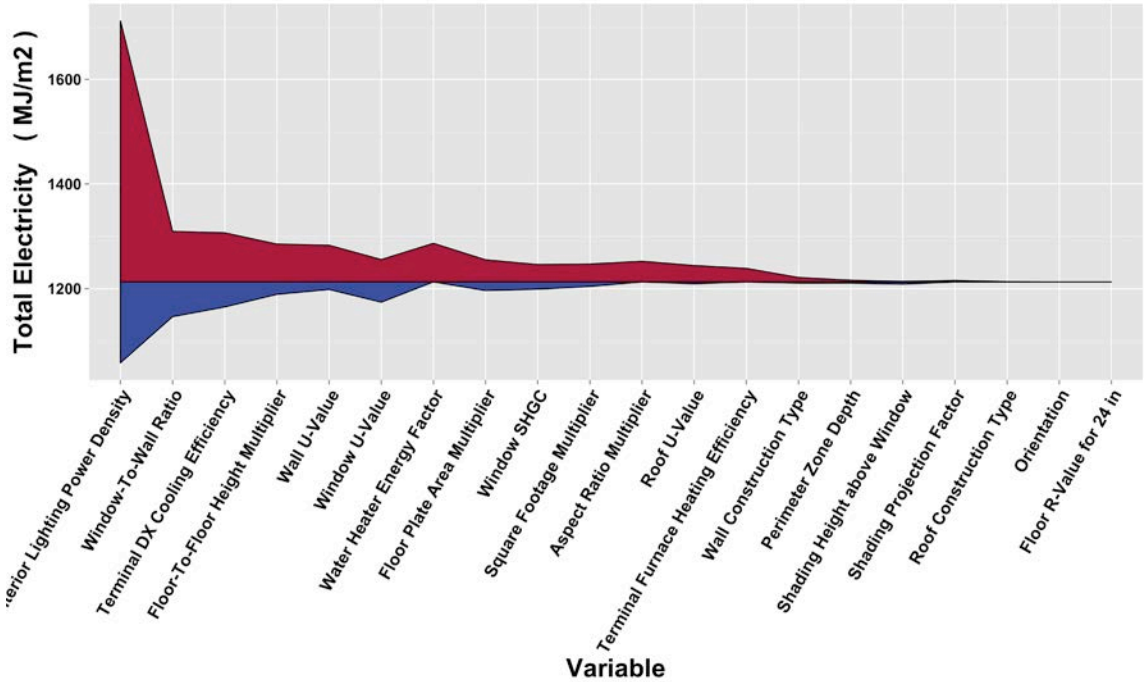
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	3840.90	3965.98
Floor Plate Area Multiplier	4500	27000	3788.50	3974.93
Square Footage Multiplier	16200	162000	3813.30	3949.52
Floor-To-Floor Height Multiplier	9.6	19.2	3765.44	4069.97
Perimeter Zone Depth	10	20	3833.69	3851.09
Floor R-Value for 24 in	0	0	3840.90	3840.90
Window-To-Wall Ratio	0	0.71	3630.20	4146.76
Window Sill Height	1	6	3840.90	3840.90
Window U-Value	0.12	1.22	3717.83	3976.45
Window SHGC	0.08	0.7	3796.77	3946.08
Window VLT	0.06	0.89	3840.90	3840.90
Wall Construction Type	masonry-on-masonry	wood-siding	3833.26	3867.83
Wall U-Value	0.03	0.58	3795.09	4063.00
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3840.71	3842.40
Roof U-Value	0.01	0.2	3829.48	3940.23
Daylighting Control Setpoint	0	0	3840.90	3840.90
Interior Lighting Power Density	0.31	3.14	3350.74	5420.92
Shading Projection Factor	0	1	3840.90	3849.83

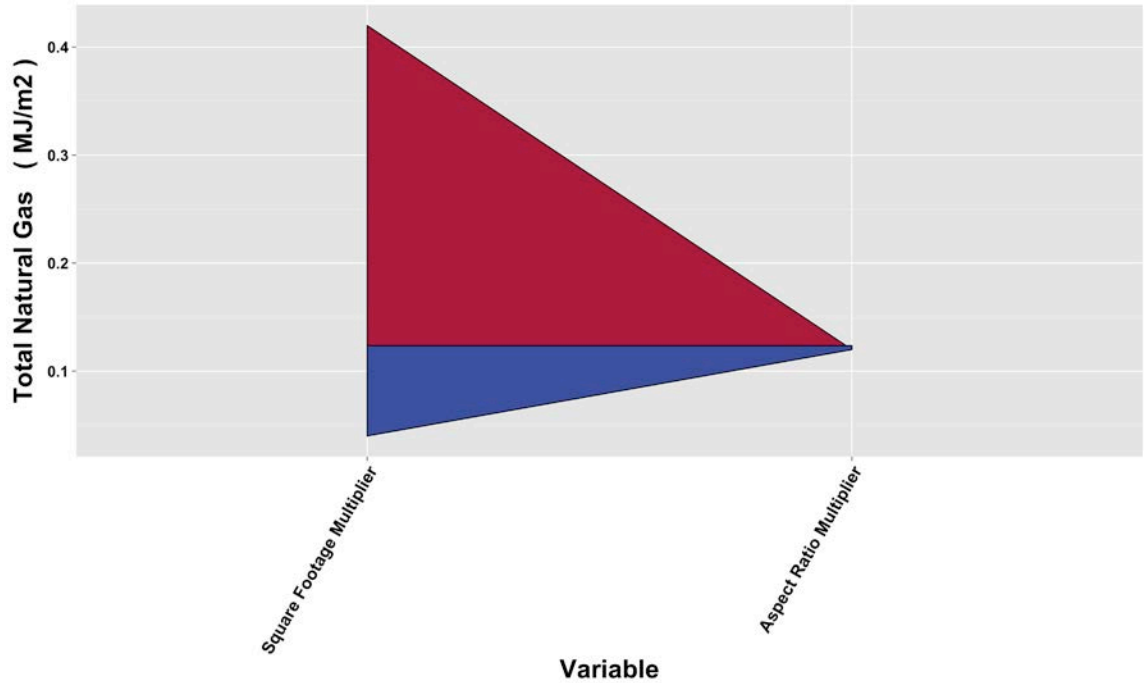
Shading Height above Window	0	2	3827.09	3843.90
District Chiller Cooling Efficiency	0.52	1.48	3840.90	3840.90
Gas Heating Efficiency	0.87	1.13	3840.90	3840.90
Terminal DX Cooling Efficiency	0.68	1.32	3688.98	4138.40
Terminal Furnace Heating Efficiency	0.87	1.13	3840.90	3923.09
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3840.90	3840.90
Water Heater Energy Factor	1	99	3840.90	4074.93
Orientation	0	359	3840.58	3840.90



Total Electricity



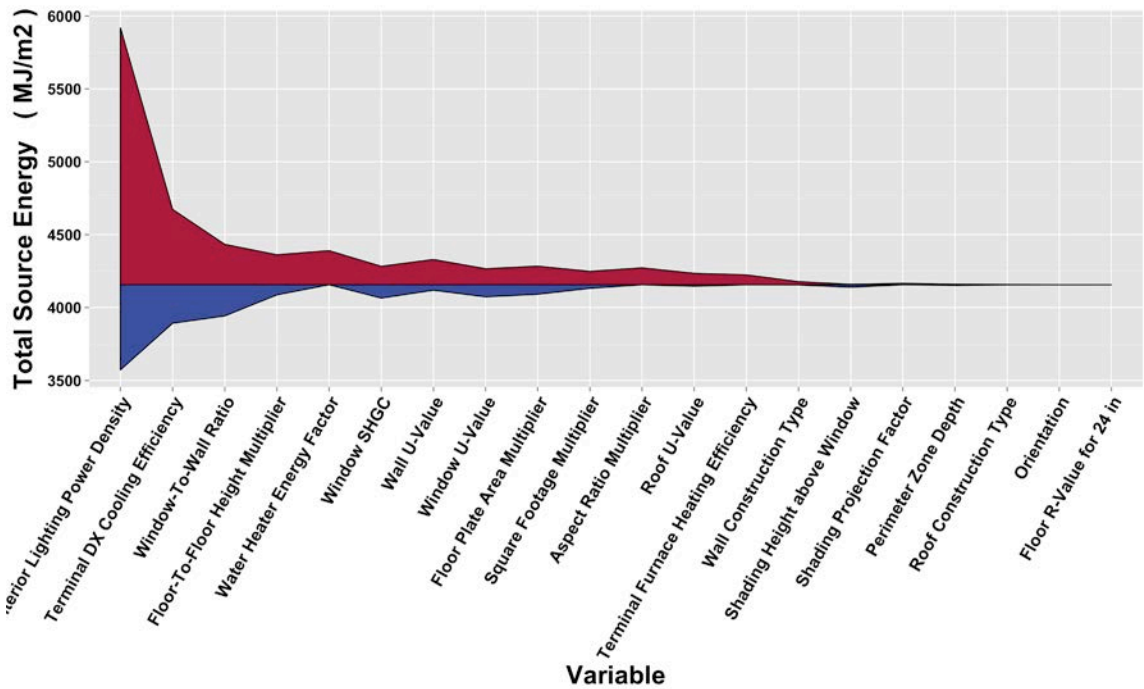
Total Natural Gas



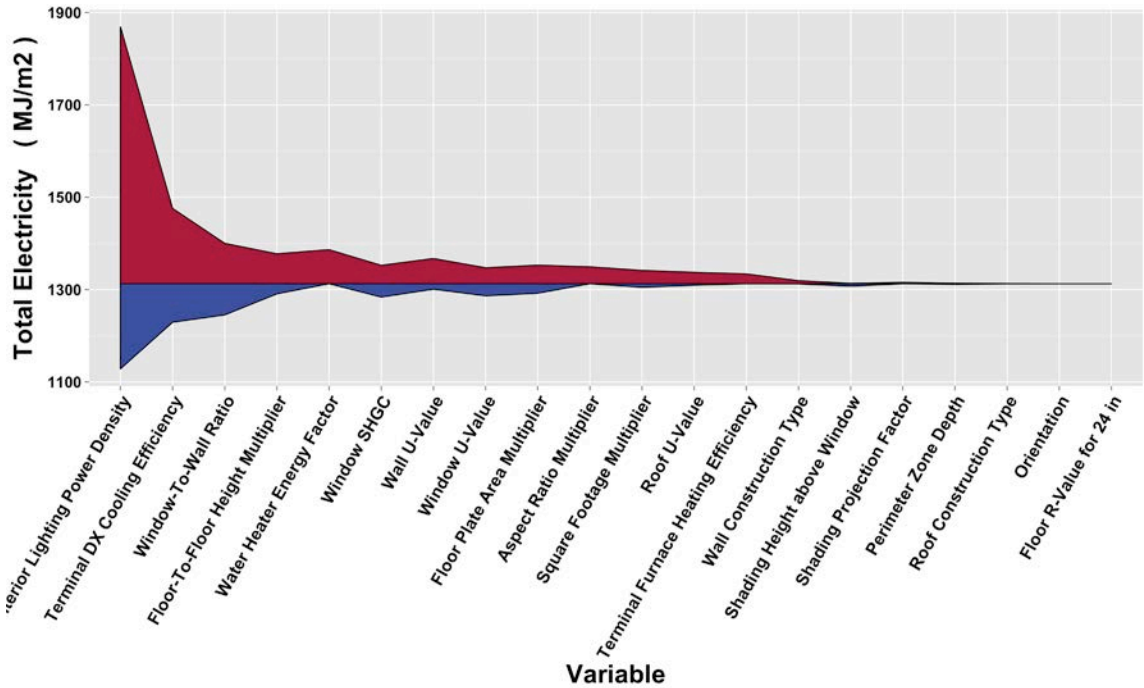
Location: Climate Zone 7

Total Source Energy

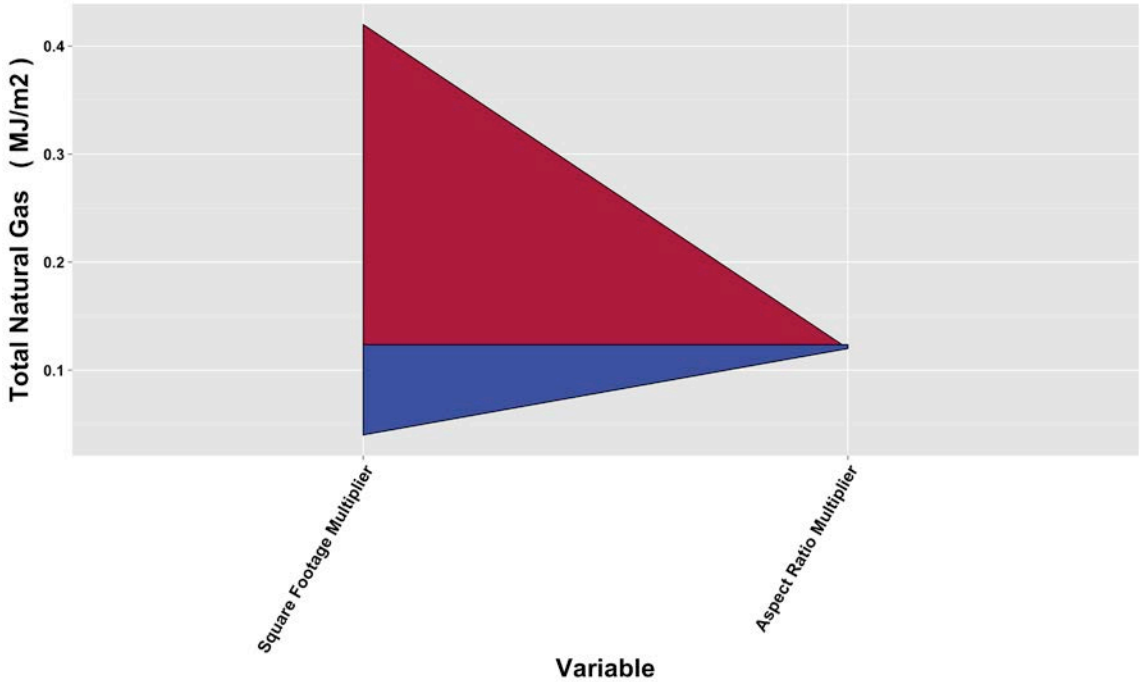
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	4156.58	4272.81
Floor Plate Area Multiplier	4500	27000	4091.55	4284.00
Square Footage Multiplier	16200	162000	4132.17	4248.61
Floor-To-Floor Height Multiplier	9.6	19.2	4087.32	4362.37
Perimeter Zone Depth	10	20	4152.95	4160.22
Floor R-Value for 24 in	0	0	4156.58	4156.58
Window-To-Wall Ratio	0	0.71	3942.86	4433.97
Window Sill Height	1	6	4156.58	4156.58
Window U-Value	0.12	1.22	4073.71	4266.68
Window SHGC	0.08	0.7	4065.08	4283.24
Window VLT	0.06	0.89	4156.58	4156.58
Wall Construction Type	masonry-on-masonry	wood-siding	4155.49	4177.94
Wall U-Value	0.03	0.58	4119.16	4330.09
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4155.82	4157.81
Roof U-Value	0.01	0.2	4146.40	4235.12
Daylighting Control Setpoint	0	0	4156.58	4156.58
Interior Lighting Power Density	0.31	3.14	3573.07	5917.40
Shading Projection Factor	0	1	4156.58	4166.24
Shading Height above Window	0	2	4139.75	4159.64
District Chiller Cooling Efficiency	0.52	1.48	4156.58	4156.58
Gas Heating Efficiency	0.87	1.13	4156.58	4156.58
Terminal DX Cooling Efficiency	0.68	1.32	3892.51	4673.72
Terminal Furnace Heating Efficiency	0.87	1.13	4156.58	4224.13
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4156.58	4156.58
Water Heater Energy Factor	1	99	4156.58	4390.59
Orientation	0	359	4156.45	4156.58



Total Electricity



Total Natural Gas

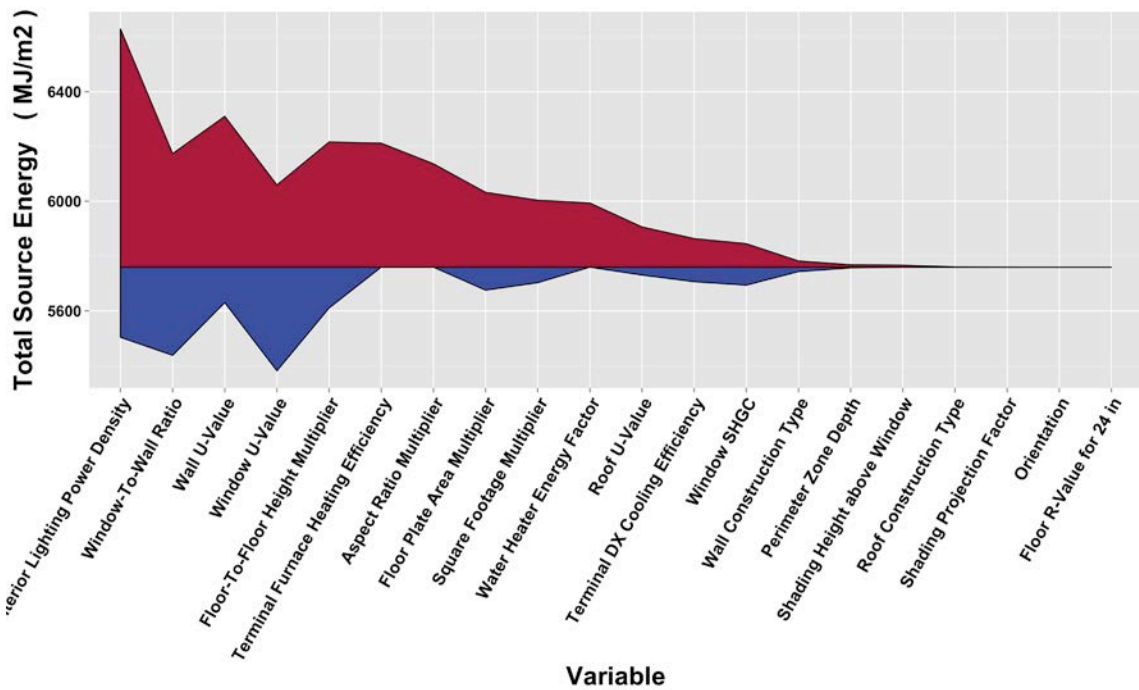


Location: Climate Zone 8

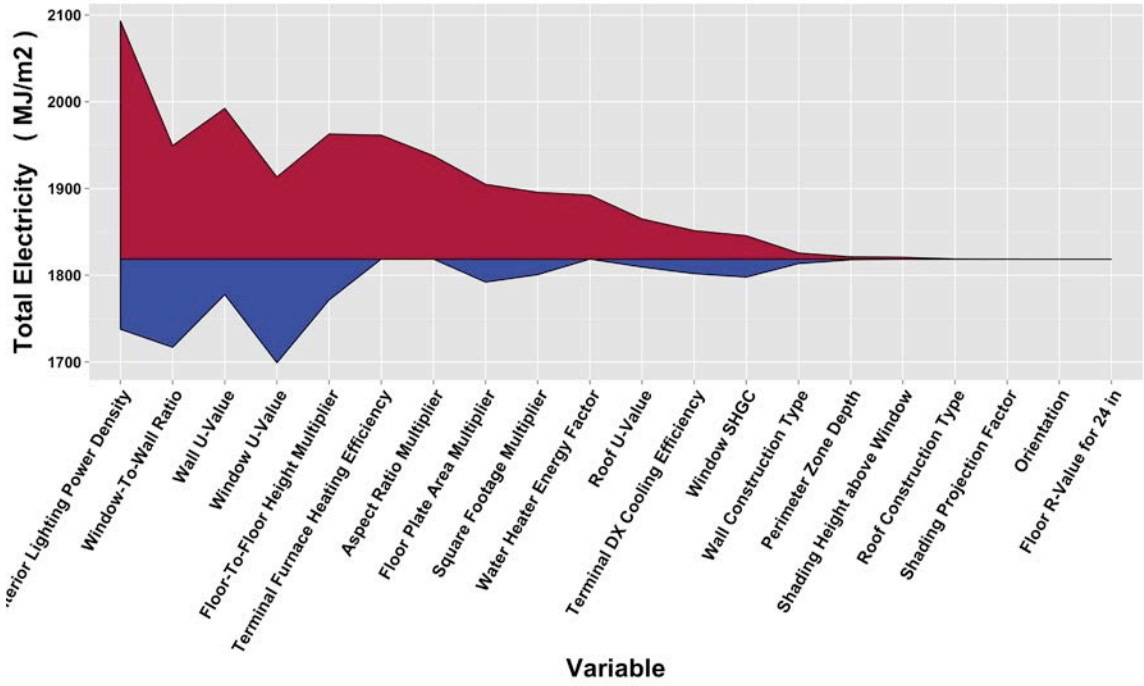
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	1.6	8	5759.42	6136.95
Floor Plate Area Multiplier	4500	27000	5675.27	6032.63
Square Footage Multiplier	16200	162000	5702.54	6003.87
Floor-To-Floor Height Multiplier	9.6	19.2	5610.14	6216.45
Perimeter Zone Depth	10	20	5756.74	5768.05
Floor R-Value for 24 in	0	0	5759.42	5759.42
Window-To-Wall Ratio	0	0.71	5437.24	6173.99
Window Sill Height	1	6	5759.42	5759.42
Window U-Value	0.12	1.22	5380.77	6059.56
Window SHGC	0.08	0.7	5693.62	5844.98
Window VLT	0.06	0.89	5759.42	5759.42
Wall Construction Type	masonry-on-masonry	wood-siding	5743.12	5781.94
Wall U-Value	0.03	0.58	5629.84	6310.27
Roof Construction Type	built-up concrete-deck	built-up wood-deck	5759.42	5760.34
Roof U-Value	0.01	0.2	5730.47	5906.24
Daylighting Control Setpoint	0	0	5759.42	5759.42
Interior Lighting Power Density	0.31	3.14	5503.34	6628.81
Shading Projection Factor	0	1	5759.42	5759.88

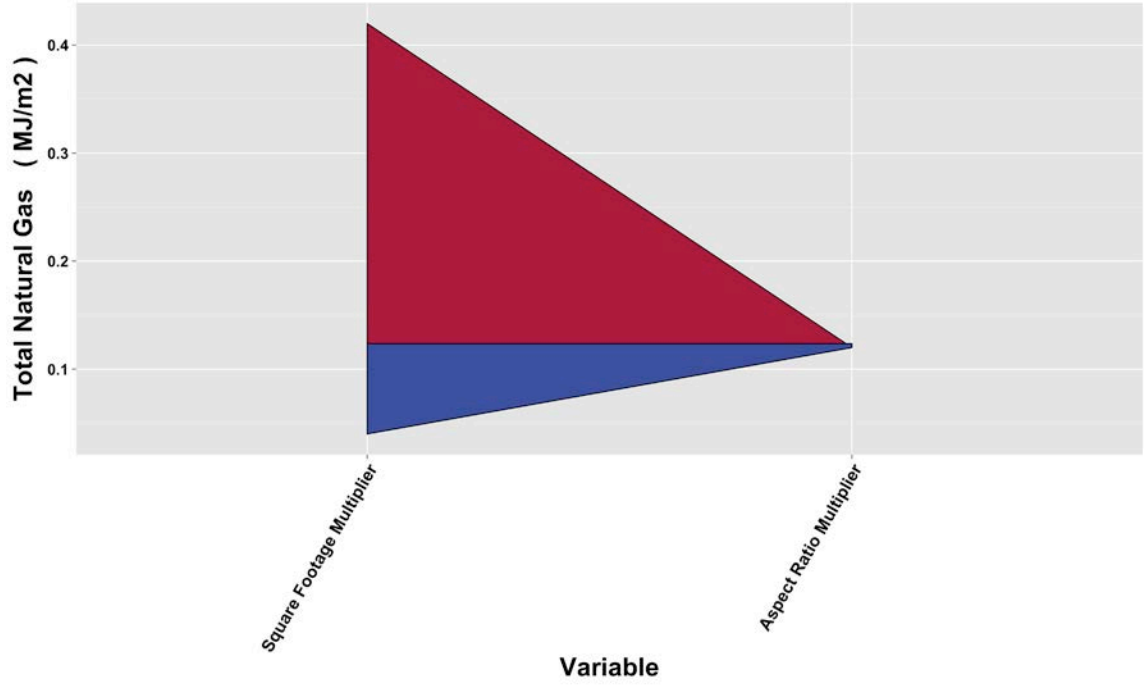
Shading Height above Window	0	2	5759.42	5766.43
District Chiller Cooling Efficiency	0.52	1.48	5759.42	5759.42
Gas Heating Efficiency	0.87	1.13	5759.42	5759.42
Terminal DX Cooling Efficiency	0.68	1.32	5706.19	5863.66
Terminal Furnace Heating Efficiency	0.87	1.13	5759.42	6212.07
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	5759.42	5759.42
Water Heater Energy Factor	1	99	5759.42	5993.52
Orientation	0	359	5759.24	5759.42



Total Electricity



Total Natural Gas

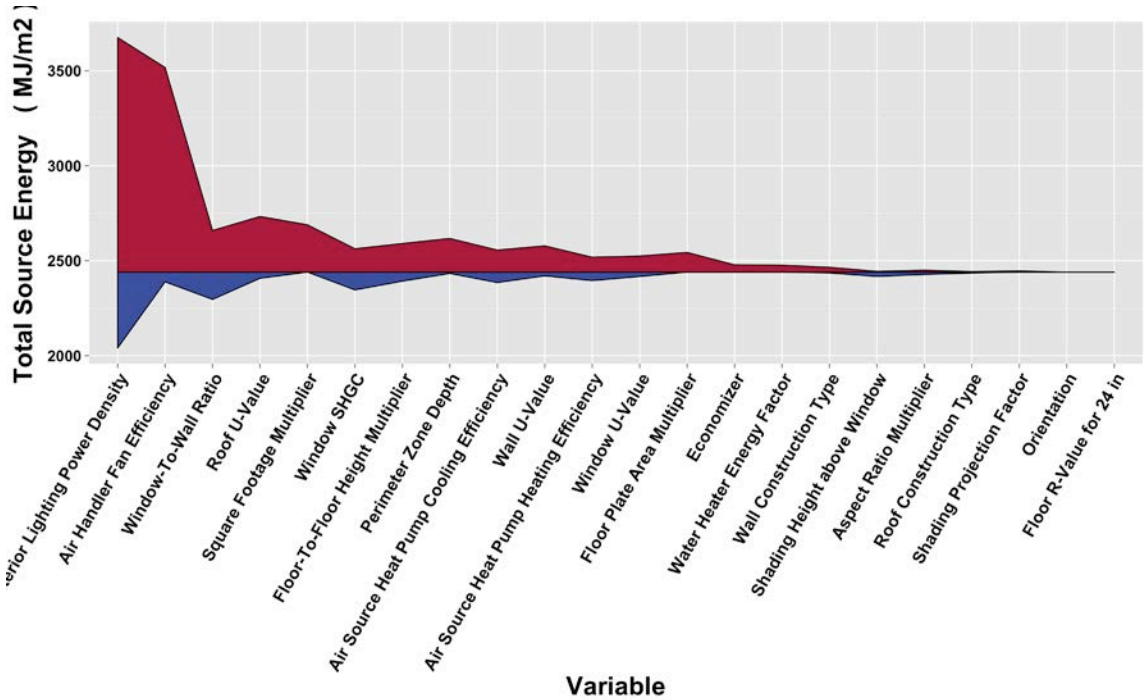


Police Station

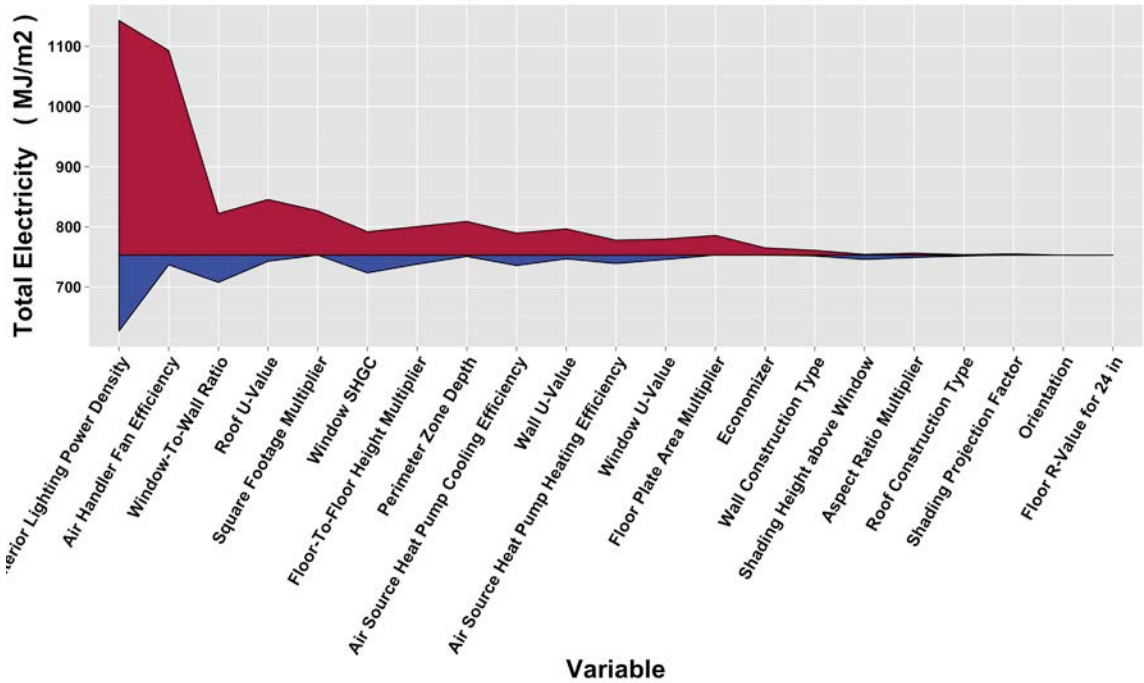
Location: Climate Zone 1A

Total Source Energy

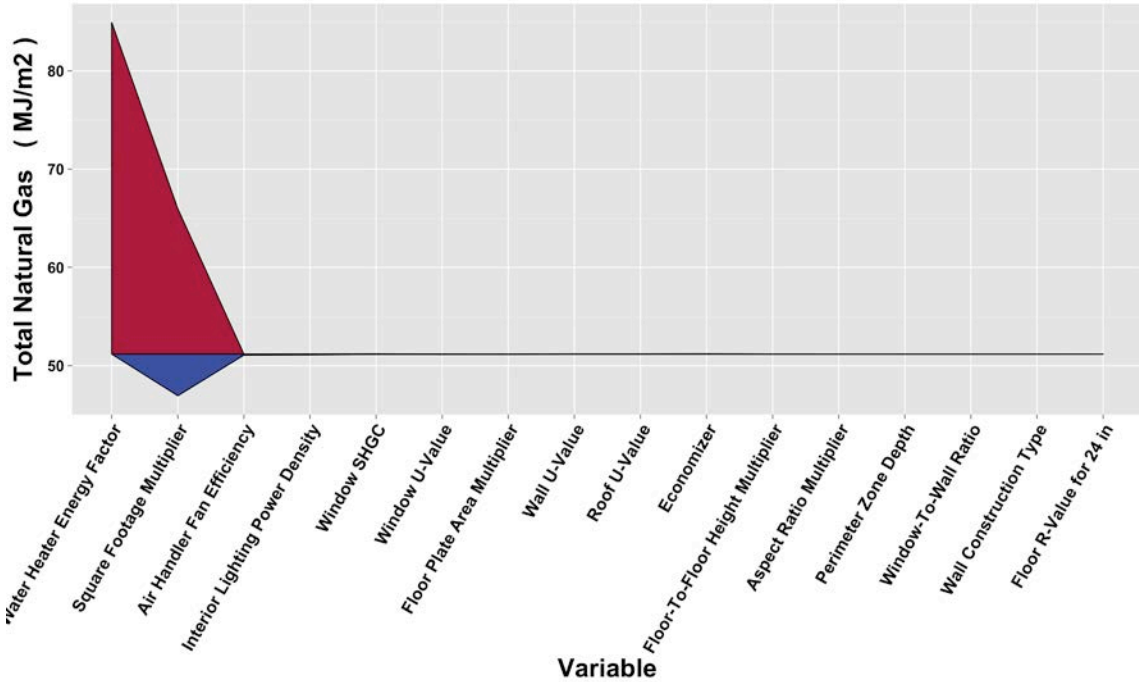
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	2427.38	2450.21
Floor Plate Area Multiplier	6000	12000	2439.77	2543.61
Square Footage Multiplier	3600	36000	2439.77	2689.10
Floor-To-Floor Height Multiplier	10.4	20.8	2391.94	2590.37
Perimeter Zone Depth	10	20	2432.62	2617.15
Floor R-Value for 24 in	0	0.01	2439.77	2439.77
Window-To-Wall Ratio	0	0.59	2295.96	2659.03
Window Sill Height	1	6	2439.77	2439.77
Window U-Value	0.12	1.22	2416.66	2524.44
Window SHGC	0.08	0.7	2345.88	2562.67
Window VLT	0.05	0.77	2439.77	2439.77
Wall Construction Type	masonry-on-masonry	wood-siding	2435.16	2465.13
Wall U-Value	0.03	0.58	2420.00	2578.15
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2434.79	2442.54
Roof U-Value	0.01	0.2	2407.09	2732.70
Daylighting Control Setpoint	0	0	2439.77	2439.77
Interior Lighting Power Density	0.23	2.3	2040.05	3675.06
Shading Projection Factor	0	1	2439.77	2445.97
Shading Height above Window	0	2	2416.96	2443.69
District Chiller Cooling Efficiency	0.52	1.48	2439.77	2439.77
Air Handler Fan Efficiency	20.31	73.12	2388.45	3517.14
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2384.52	2555.80
Air Source Heat Pump Heating Efficiency	2.4	4.2	2395.03	2518.07
Gas Heating Efficiency	0.87	1.13	2439.77	2439.77
Terminal DX Cooling Efficiency	0.68	1.32	2439.77	2439.77
Terminal Furnace Heating Efficiency	0.87	1.13	2439.77	2439.77
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2439.77	2439.77
Water Heater Energy Factor	1	99	2439.77	2476.34
Economizer	false	true	2439.77	2478.04
Fan Control	cav	false	2439.77	2439.77
Orientation	0	359	2439.61	2439.77



Total Electricity



Total Natural Gas

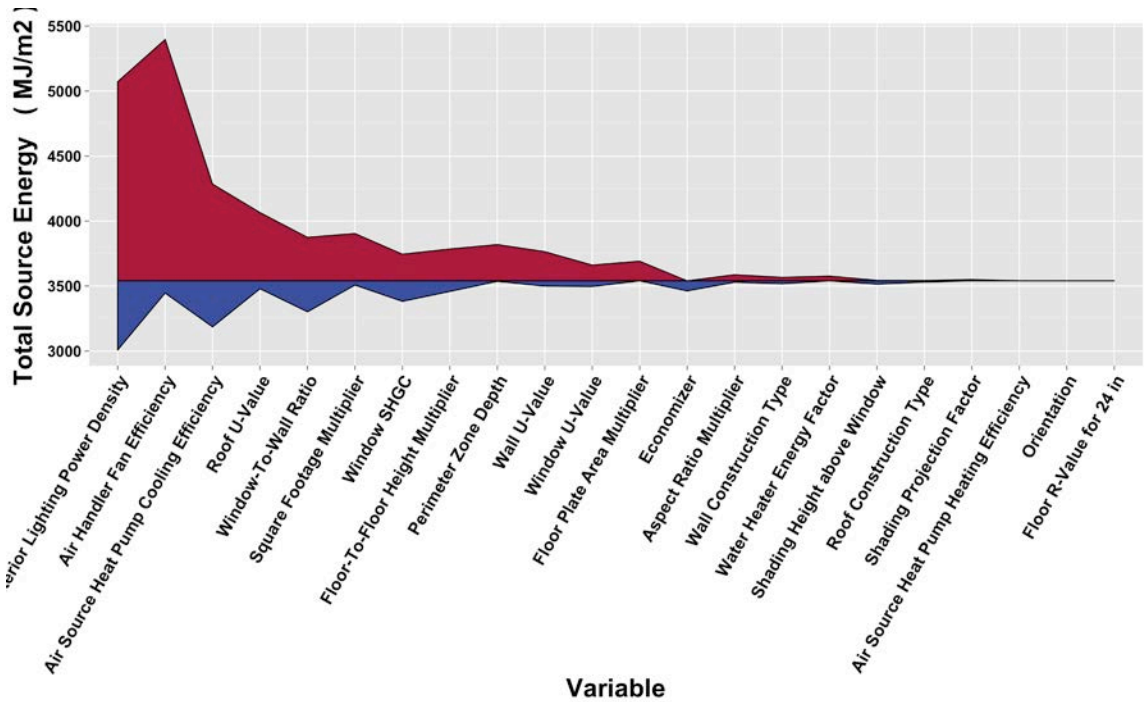


Location: Climate Zone 1B

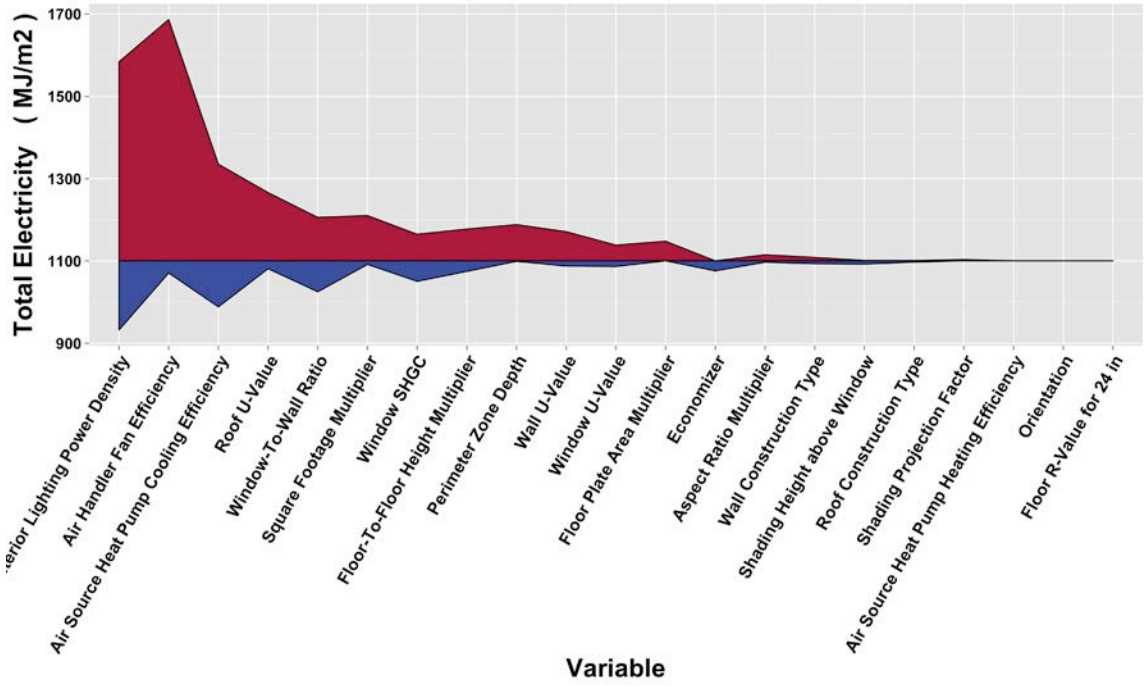
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3529.32	3587.11
Floor Plate Area Multiplier	6000	12000	3540.14	3691.08
Square Footage Multiplier	3600	36000	3507.61	3903.97
Floor-To-Floor Height Multiplier	10.4	20.8	3458.61	3784.82
Perimeter Zone Depth	10	20	3536.27	3819.07
Floor R-Value for 24 in	0	0.01	3540.14	3540.14
Window-To-Wall Ratio	0	0.59	3301.63	3874.50
Window Sill Height	1	6	3540.14	3540.14
Window U-Value	0.12	1.22	3496.47	3661.25
Window SHGC	0.08	0.7	3382.16	3744.82
Window VLT	0.05	0.77	3540.14	3540.14
Wall Construction Type	masonry-on-masonry	wood-siding	3517.78	3566.35
Wall U-Value	0.03	0.58	3499.52	3764.33
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3530.73	3542.75
Roof U-Value	0.01	0.2	3479.25	4065.38
Daylighting Control Setpoint	0	0	3540.14	3540.14
Interior Lighting Power Density	0.23	2.3	3007.73	5071.99
Shading Projection Factor	0	1	3540.14	3549.75

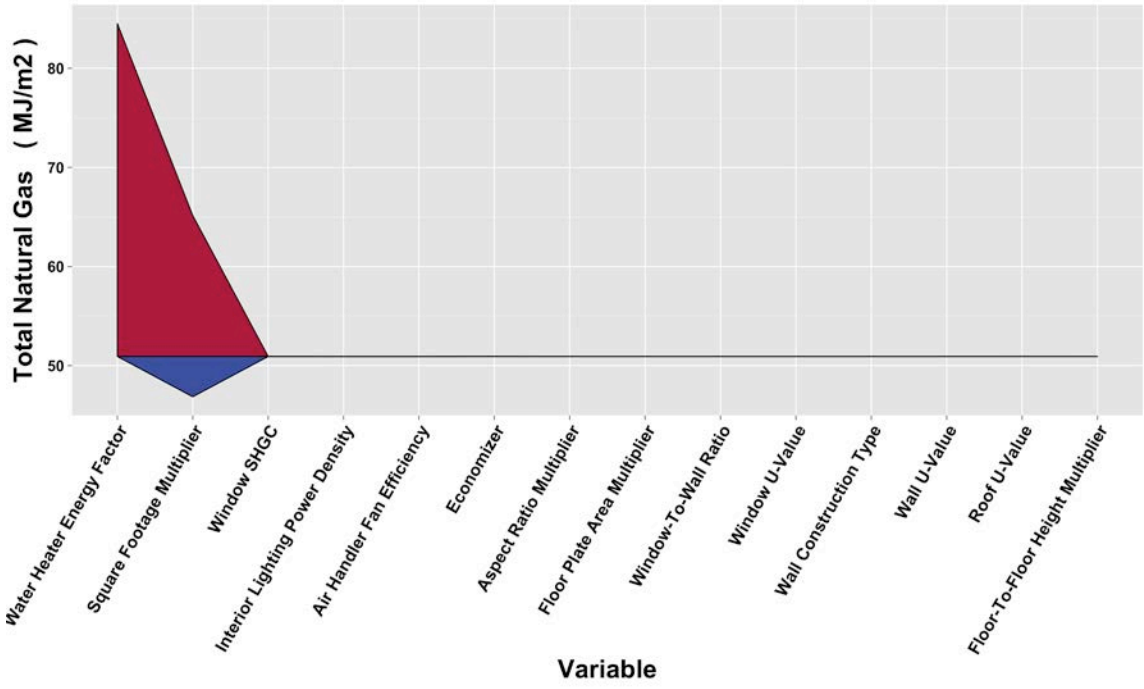
Shading Height above Window	0	2	3514.79	3543.60
District Chiller Cooling Efficiency	0.52	1.48	3540.14	3540.14
Air Handler Fan Efficiency	20.31	73.12	3446.39	5396.95
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3185.70	4284.47
Air Source Heat Pump Heating Efficiency	2.4	4.2	3539.95	3540.49
Gas Heating Efficiency	0.87	1.13	3540.14	3540.14
Terminal DX Cooling Efficiency	0.68	1.32	3540.14	3540.14
Terminal Furnace Heating Efficiency	0.87	1.13	3540.14	3540.14
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3540.14	3540.14
Water Heater Energy Factor	1	99	3540.14	3576.54
Economizer	false	true	3462.54	3540.14
Fan Control	cav	false	3540.14	3540.14
Orientation	0	359	3539.97	3540.14



Total Electricity



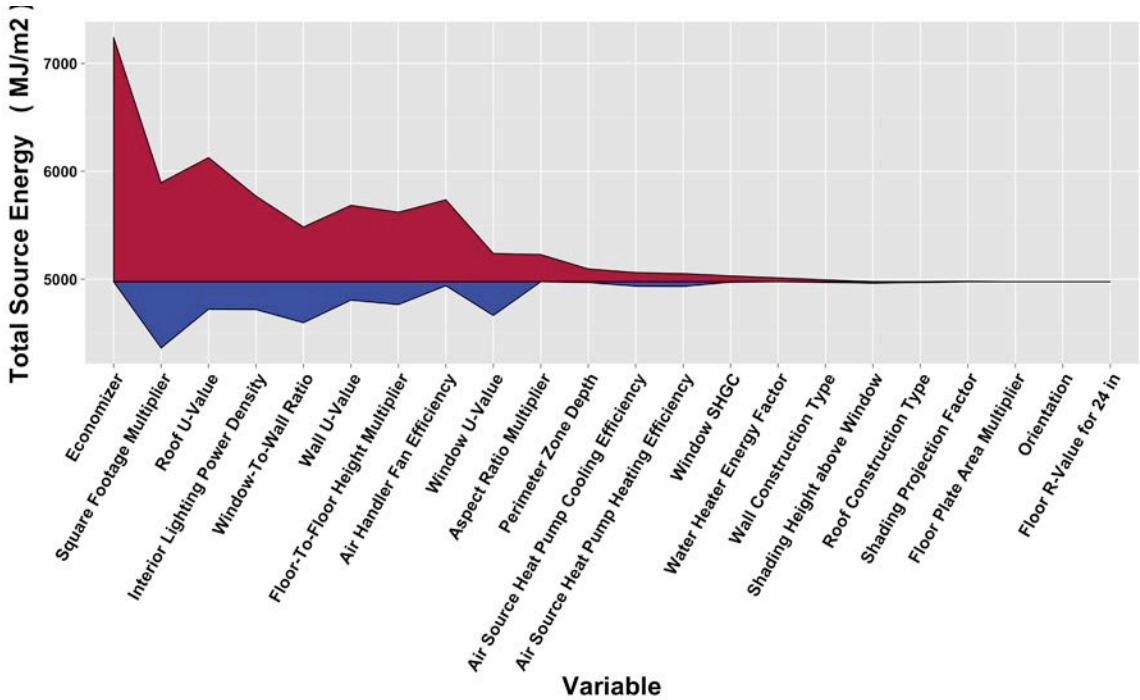
Total Natural Gas



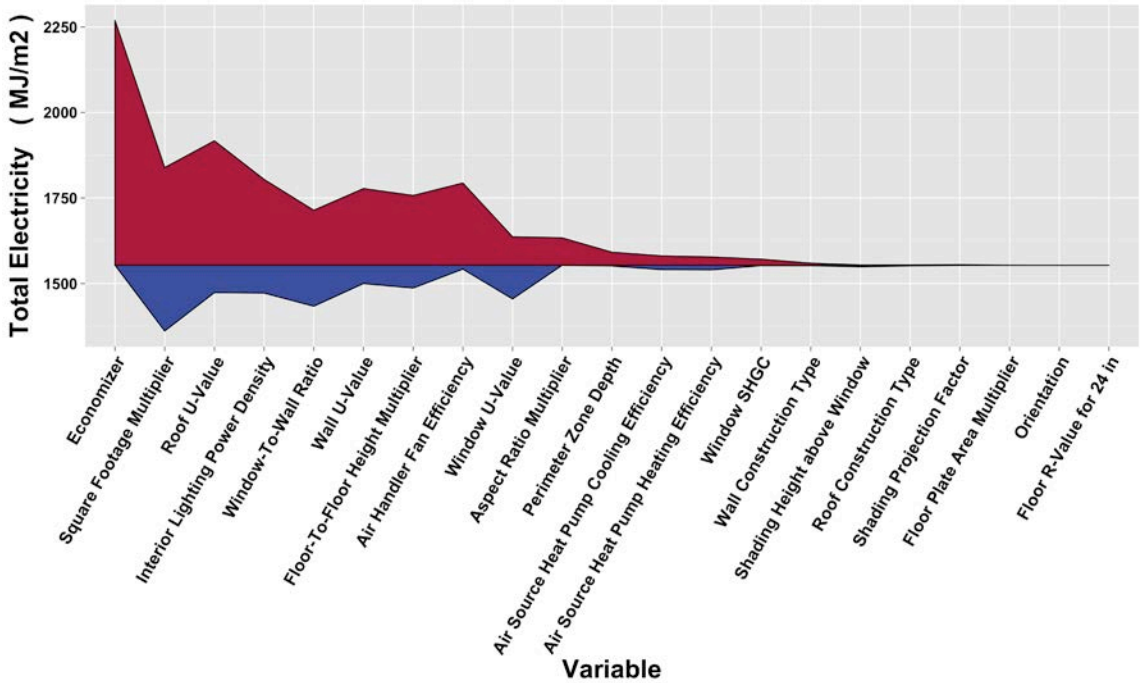
Location: Climate Zone 2A

Total Source Energy

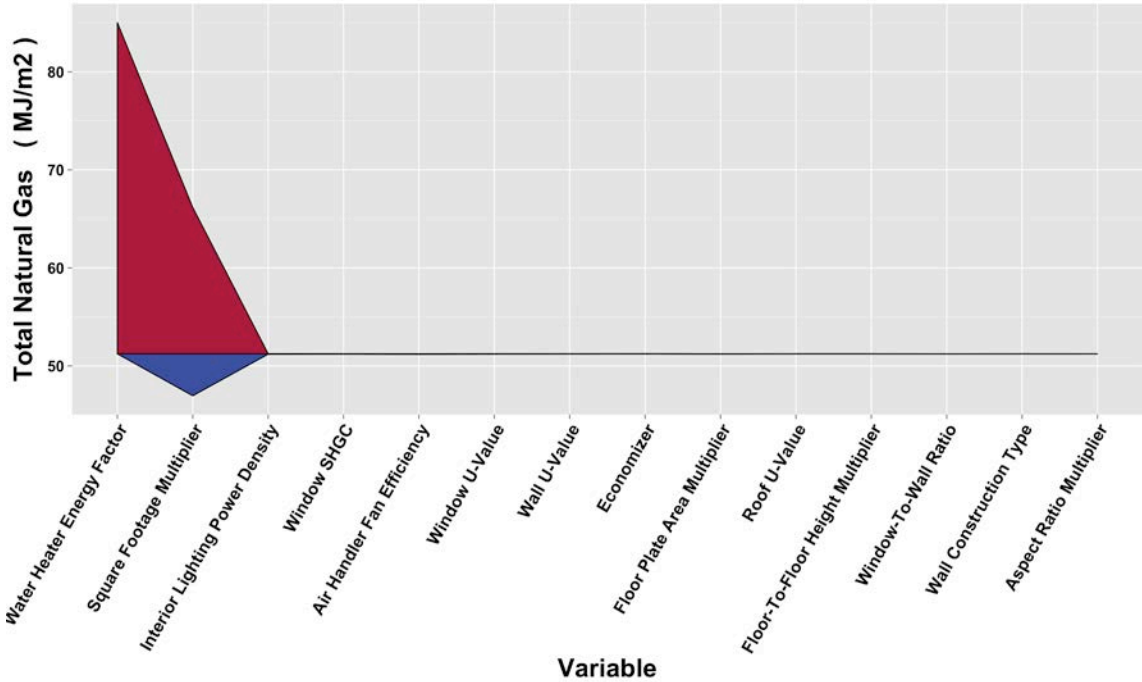
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	4976.14	5228.67
Floor Plate Area Multiplier	6000	12000	4976.14	4976.44
Square Footage Multiplier	3600	36000	4362.02	5895.86
Floor-To-Floor Height Multiplier	10.4	20.8	4764.59	5621.02
Perimeter Zone Depth	10	20	4969.09	5095.99
Floor R-Value for 24 in	0	0.01	4976.14	4976.14
Window-To-Wall Ratio	0	0.59	4596.40	5484.56
Window Sill Height	1	6	4976.14	4976.14
Window U-Value	0.12	1.22	4663.39	5239.04
Window SHGC	0.08	0.7	4972.27	5031.43
Window VLT	0.05	0.77	4976.14	4976.14
Wall Construction Type	masonry-on-masonry	wood-siding	4971.08	4994.35
Wall U-Value	0.03	0.58	4806.31	5685.28
Roof Construction Type	built-up concrete-deck	built-up wood-deck	4969.71	4977.96
Roof U-Value	0.01	0.2	4722.11	6127.58
Daylighting Control Setpoint	0	0	4976.14	4976.14
Interior Lighting Power Density	0.23	2.3	4718.23	5770.13
Shading Projection Factor	0	1	4976.14	4980.31
Shading Height above Window	0	2	4962.59	4977.73
District Chiller Cooling Efficiency	0.52	1.48	4976.14	4976.14
Air Handler Fan Efficiency	20.31	73.12	4939.52	5736.38
Air Source Heat Pump Cooling Efficiency	2.13	4.47	4935.29	5061.94
Air Source Heat Pump Heating Efficiency	2.4	4.2	4932.80	5052.00
Gas Heating Efficiency	0.87	1.13	4976.14	4976.14
Terminal DX Cooling Efficiency	0.68	1.32	4976.14	4976.14
Terminal Furnace Heating Efficiency	0.87	1.13	4976.14	4976.14
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	4976.14	4976.14
Water Heater Energy Factor	1	99	4976.14	5012.76
Economizer	false	true	4976.14	7240.89
Fan Control	cav	false	4976.14	4976.14
Orientation	0	359	4976.07	4976.14



Total Electricity



Total Natural Gas

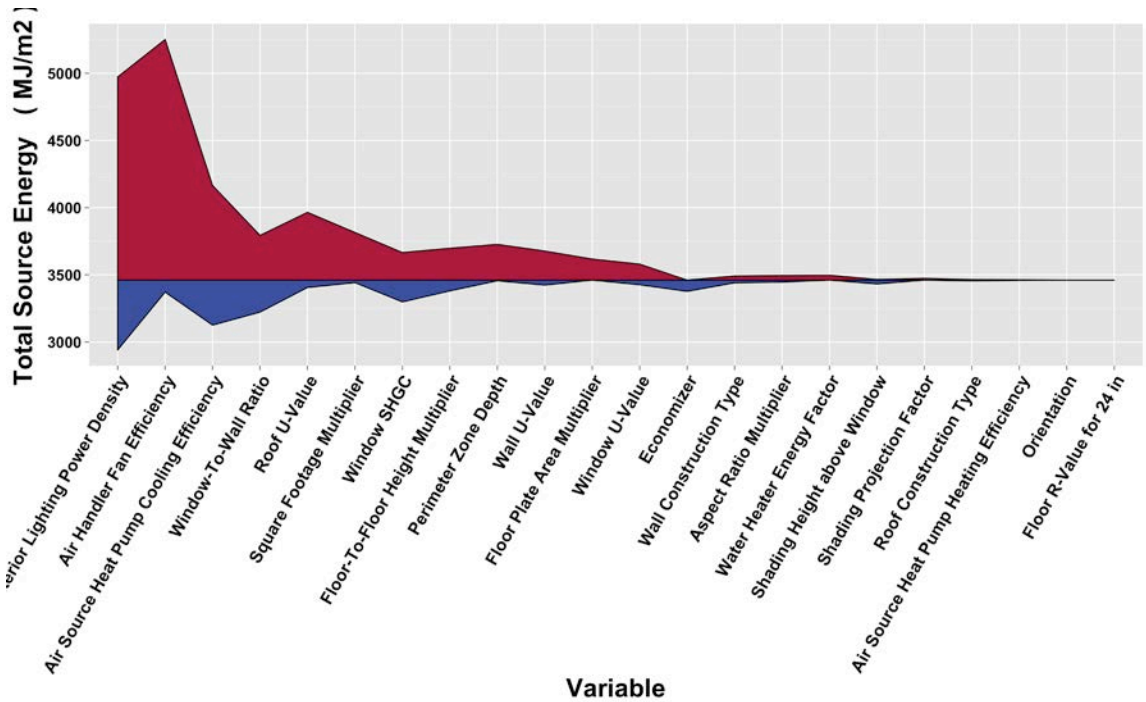


Location: Climate Zone 2B

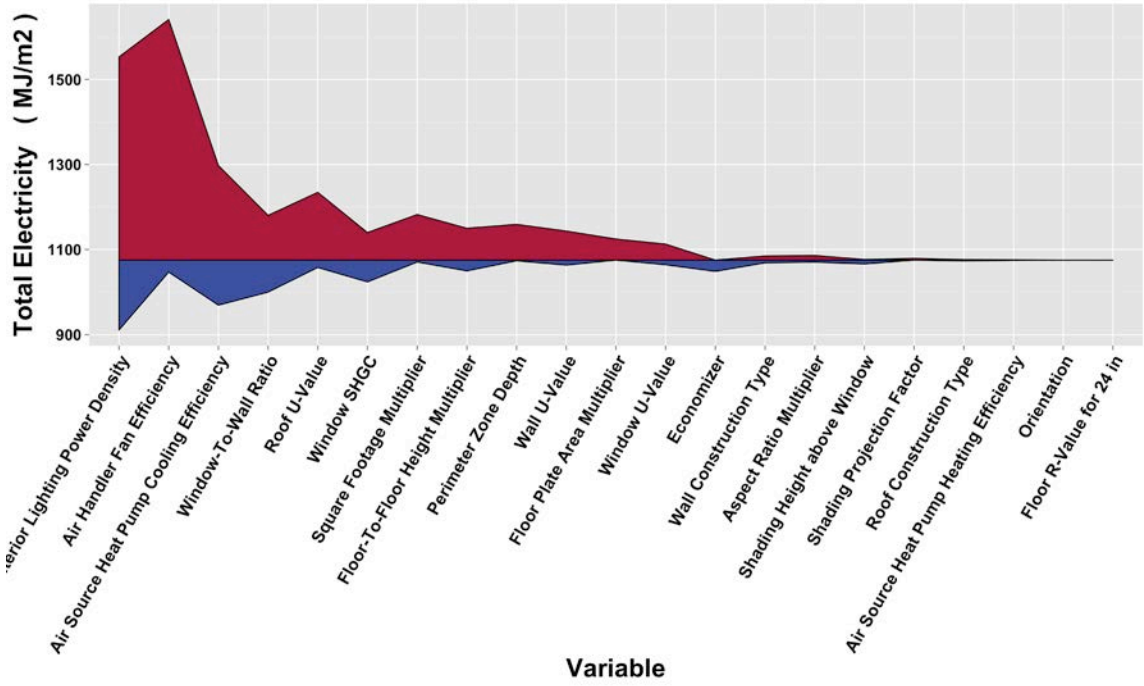
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3445.40	3494.83
Floor Plate Area Multiplier	6000	12000	3460.51	3617.43
Square Footage Multiplier	3600	36000	3441.48	3815.37
Floor-To-Floor Height Multiplier	10.4	20.8	3379.93	3697.68
Perimeter Zone Depth	10	20	3455.13	3726.65
Floor R-Value for 24 in	0	0.01	3460.51	3460.51
Window-To-Wall Ratio	0	0.59	3221.88	3793.75
Window Sill Height	1	6	3460.51	3460.51
Window U-Value	0.12	1.22	3425.54	3579.61
Window SHGC	0.08	0.7	3297.88	3665.71
Window VLT	0.05	0.77	3460.51	3460.51
Wall Construction Type	masonry-on-masonry	wood-siding	3440.07	3491.16
Wall U-Value	0.03	0.58	3422.90	3676.86
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3454.44	3464.07
Roof U-Value	0.01	0.2	3405.21	3965.45
Daylighting Control Setpoint	0	0	3460.51	3460.51
Interior Lighting Power Density	0.23	2.3	2939.71	4973.50
Shading Projection Factor	0	1	3460.51	3473.33

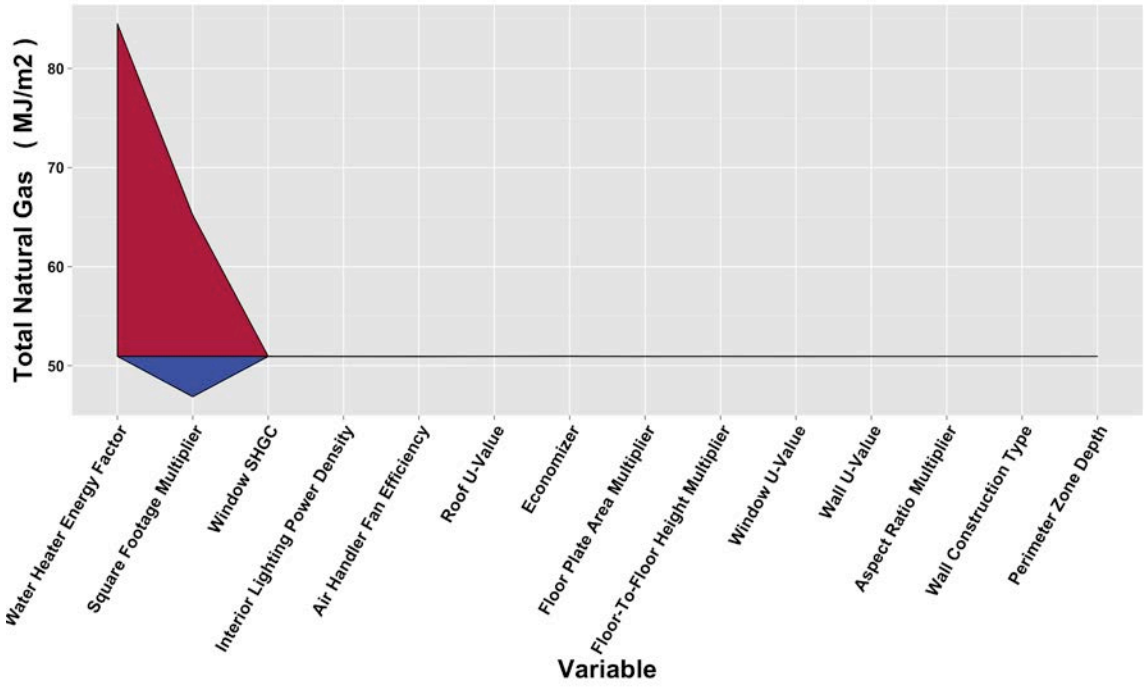
Shading Height above Window	0	2	3431.48	3465.09
District Chiller Cooling Efficiency	0.52	1.48	3460.51	3460.51
Air Handler Fan Efficiency	20.31	73.12	3371.02	5252.27
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3124.84	4165.41
Air Source Heat Pump Heating Efficiency	2.4	4.2	3459.26	3462.69
Gas Heating Efficiency	0.87	1.13	3460.51	3460.51
Terminal DX Cooling Efficiency	0.68	1.32	3460.51	3460.51
Terminal Furnace Heating Efficiency	0.87	1.13	3460.51	3460.51
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3460.51	3460.51
Water Heater Energy Factor	1	99	3460.51	3496.92
Economizer	false	true	3376.38	3460.51
Fan Control	cav	false	3460.51	3460.51
Orientation	0	359	3460.34	3460.51



Total Electricity



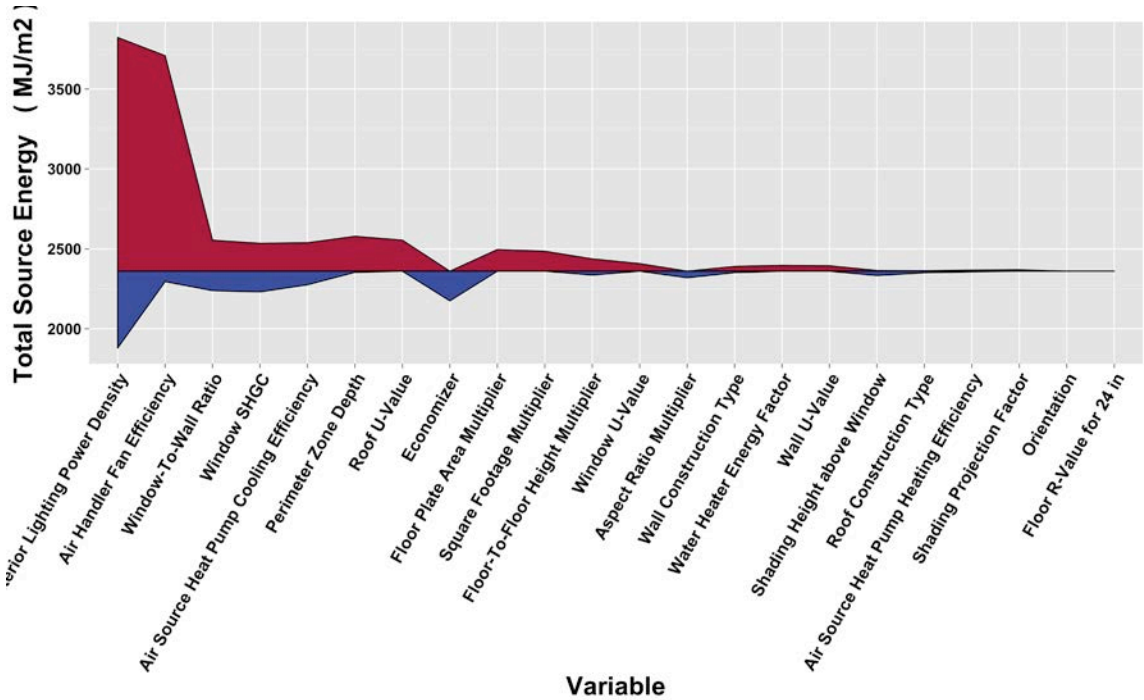
Total Natural Gas



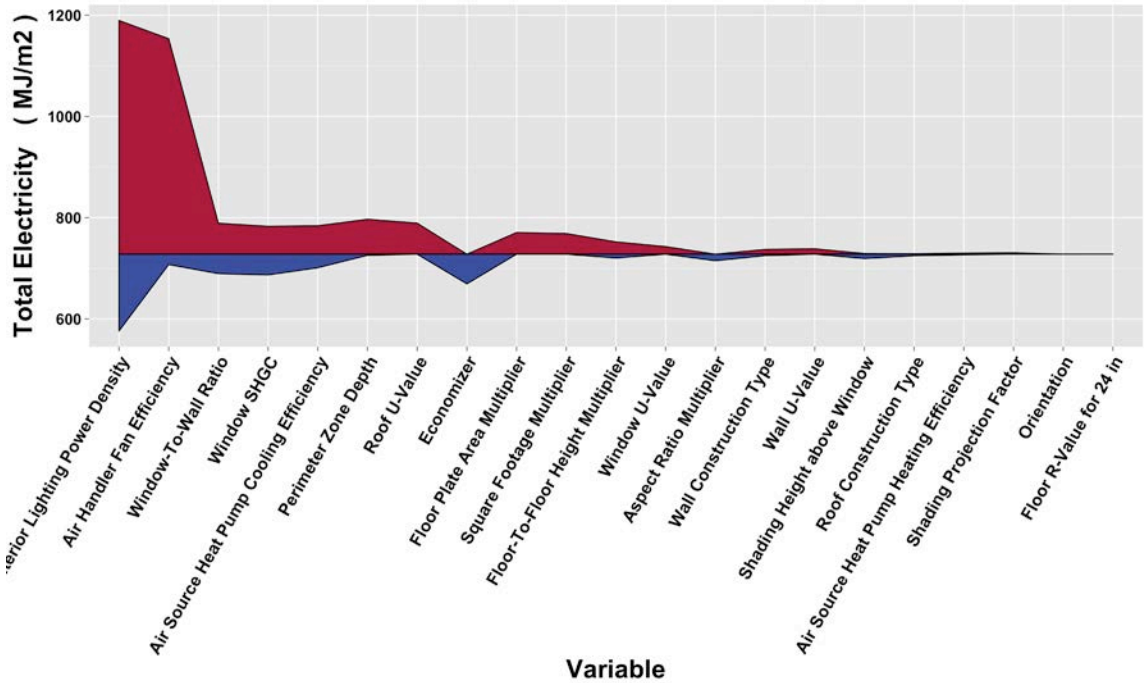
Location: Climate Zone 3A

Total Source Energy

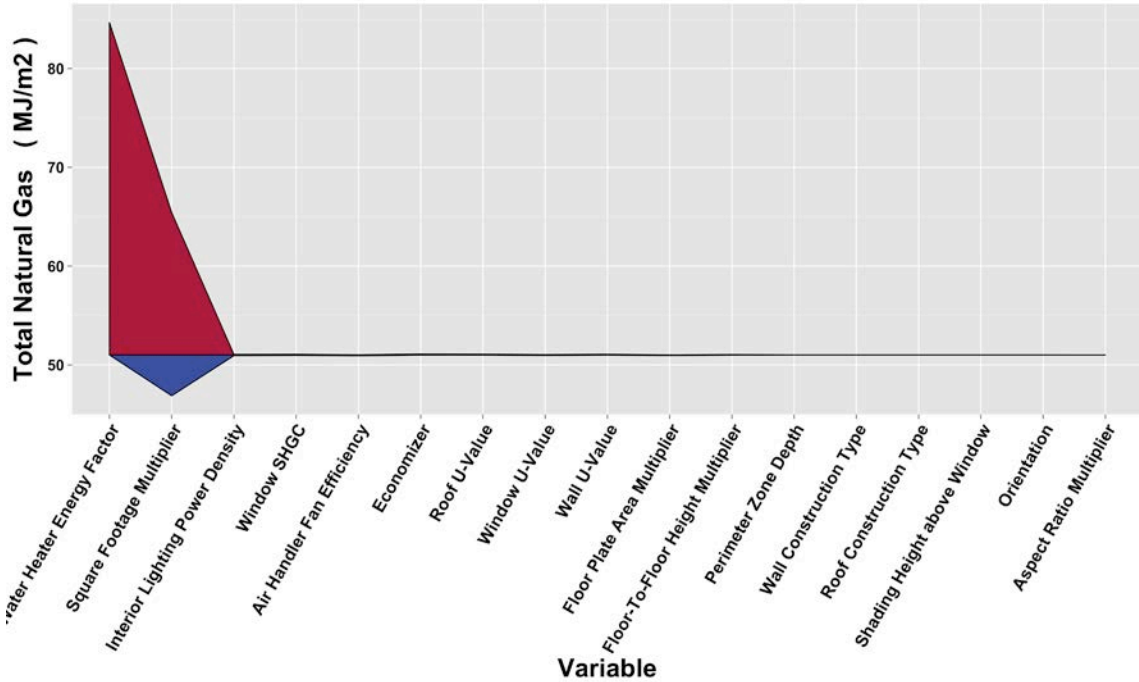
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	2319.22	2360.22
Floor Plate Area Multiplier	6000	12000	2360.22	2495.77
Square Footage Multiplier	3600	36000	2360.22	2485.08
Floor-To-Floor Height Multiplier	10.4	20.8	2336.31	2437.06
Perimeter Zone Depth	10	20	2353.15	2578.46
Floor R-Value for 24 in	0	0.01	2360.22	2360.22
Window-To-Wall Ratio	0	0.59	2238.65	2553.97
Window Sill Height	1	6	2360.22	2360.22
Window U-Value	0.12	1.22	2360.22	2407.65
Window SHGC	0.08	0.7	2230.64	2534.38
Window VLT	0.05	0.77	2360.22	2360.22
Wall Construction Type	masonry-on-masonry	wood-siding	2351.30	2389.99
Wall U-Value	0.03	0.58	2360.22	2394.00
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2350.50	2363.45
Roof U-Value	0.01	0.2	2360.22	2554.57
Daylighting Control Setpoint	0	0	2360.22	2360.22
Interior Lighting Power Density	0.23	2.3	1879.49	3822.45
Shading Projection Factor	0	1	2360.22	2368.82
Shading Height above Window	0	2	2332.99	2364.48
District Chiller Cooling Efficiency	0.52	1.48	2360.22	2360.22
Air Handler Fan Efficiency	20.31	73.12	2295.20	3708.56
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2275.47	2538.17
Air Source Heat Pump Heating Efficiency	2.4	4.2	2356.45	2366.81
Gas Heating Efficiency	0.87	1.13	2360.22	2360.22
Terminal DX Cooling Efficiency	0.68	1.32	2360.22	2360.22
Terminal Furnace Heating Efficiency	0.87	1.13	2360.22	2360.22
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2360.22	2360.22
Water Heater Energy Factor	1	99	2360.22	2396.68
Economizer	false	true	2174.52	2360.22
Fan Control	cav	false	2360.22	2360.22
Orientation	0	359	2359.91	2360.22



Total Electricity



Total Natural Gas

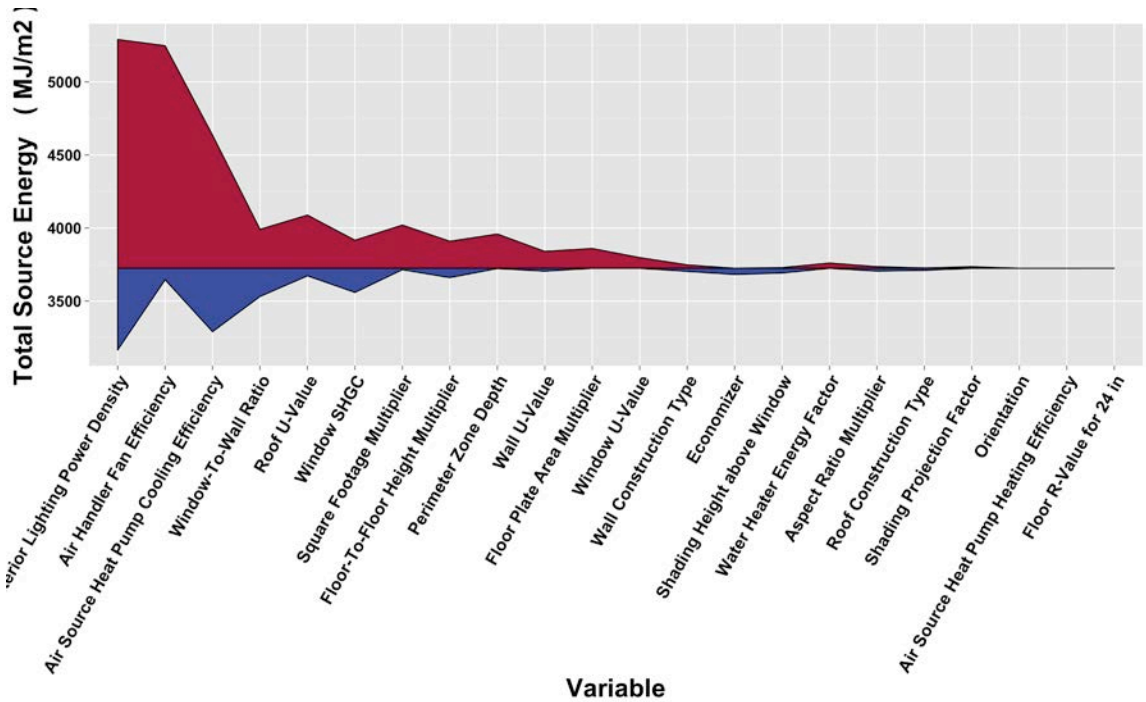


Location: Climate Zone 3B

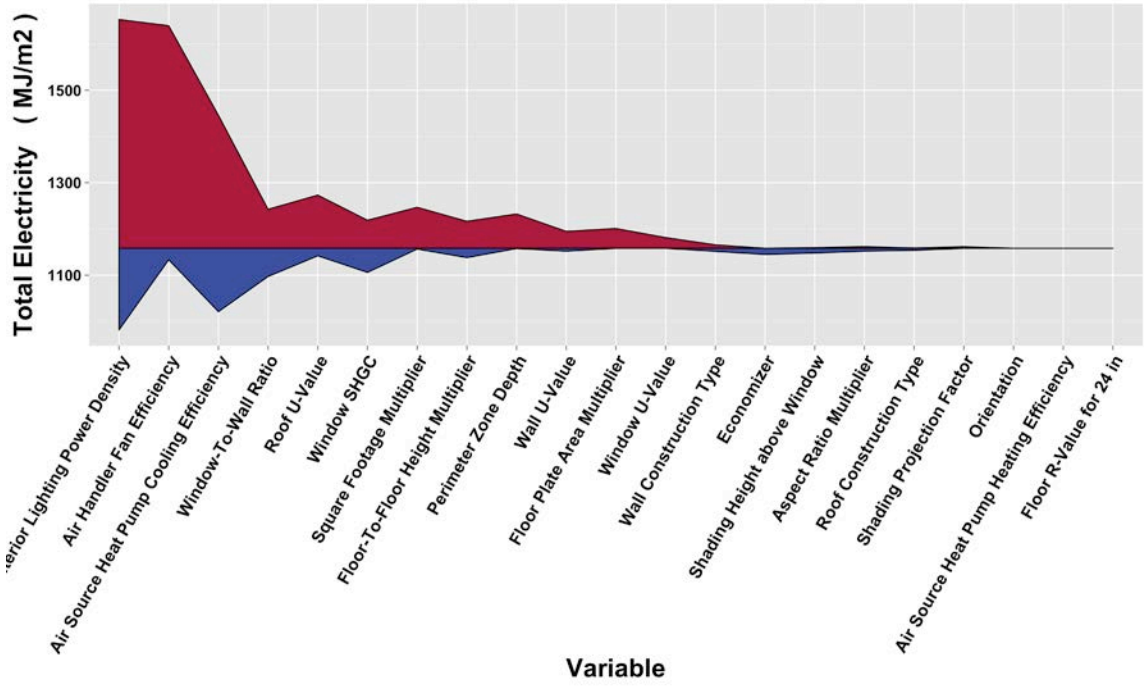
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3704.03	3735.09
Floor Plate Area Multiplier	6000	12000	3723.50	3859.24
Square Footage Multiplier	3600	36000	3713.84	4019.75
Floor-To-Floor Height Multiplier	10.4	20.8	3659.58	3908.53
Perimeter Zone Depth	10	20	3721.85	3958.56
Floor R-Value for 24 in	0	0.01	3723.50	3723.50
Window-To-Wall Ratio	0	0.59	3530.39	3990.63
Window Sill Height	1	6	3723.50	3723.50
Window U-Value	0.12	1.22	3723.50	3797.16
Window SHGC	0.08	0.7	3558.35	3915.90
Window VLT	0.05	0.77	3723.50	3723.50
Wall Construction Type	masonry-on-masonry	wood-siding	3702.52	3747.37
Wall U-Value	0.03	0.58	3703.53	3839.57
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3709.43	3725.86
Roof U-Value	0.01	0.2	3671.91	4087.94
Daylighting Control Setpoint	0	0	3723.50	3723.50
Interior Lighting Power Density	0.23	2.3	3164.03	5289.93
Shading Projection Factor	0	1	3723.50	3734.64

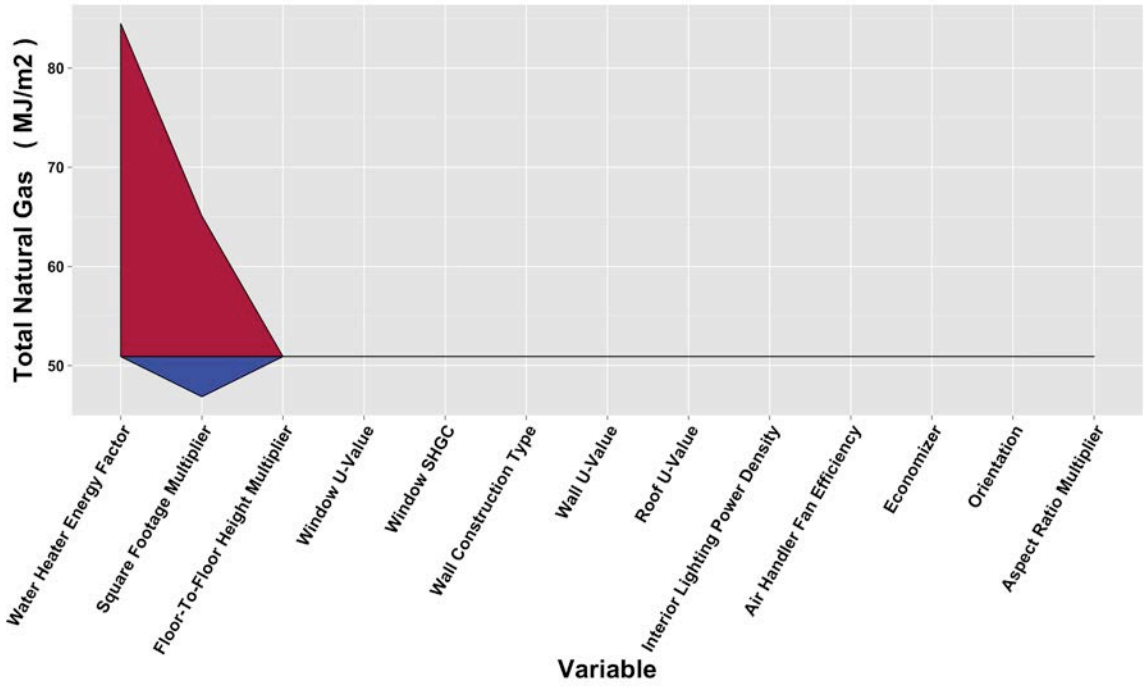
Shading Height above Window	0	2	3691.20	3728.23
District Chiller Cooling Efficiency	0.52	1.48	3723.50	3723.50
Air Handler Fan Efficiency	20.31	73.12	3645.12	5247.52
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3289.43	4635.05
Air Source Heat Pump Heating Efficiency	2.4	4.2	3723.48	3723.54
Gas Heating Efficiency	0.87	1.13	3723.50	3723.50
Terminal DX Cooling Efficiency	0.68	1.32	3723.50	3723.50
Terminal Furnace Heating Efficiency	0.87	1.13	3723.50	3723.50
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3723.50	3723.50
Water Heater Energy Factor	1	99	3723.50	3759.89
Economizer	false	true	3681.56	3723.50
Fan Control	cav	false	3723.50	3723.50
Orientation	0	359	3723.33	3723.50



Total Electricity



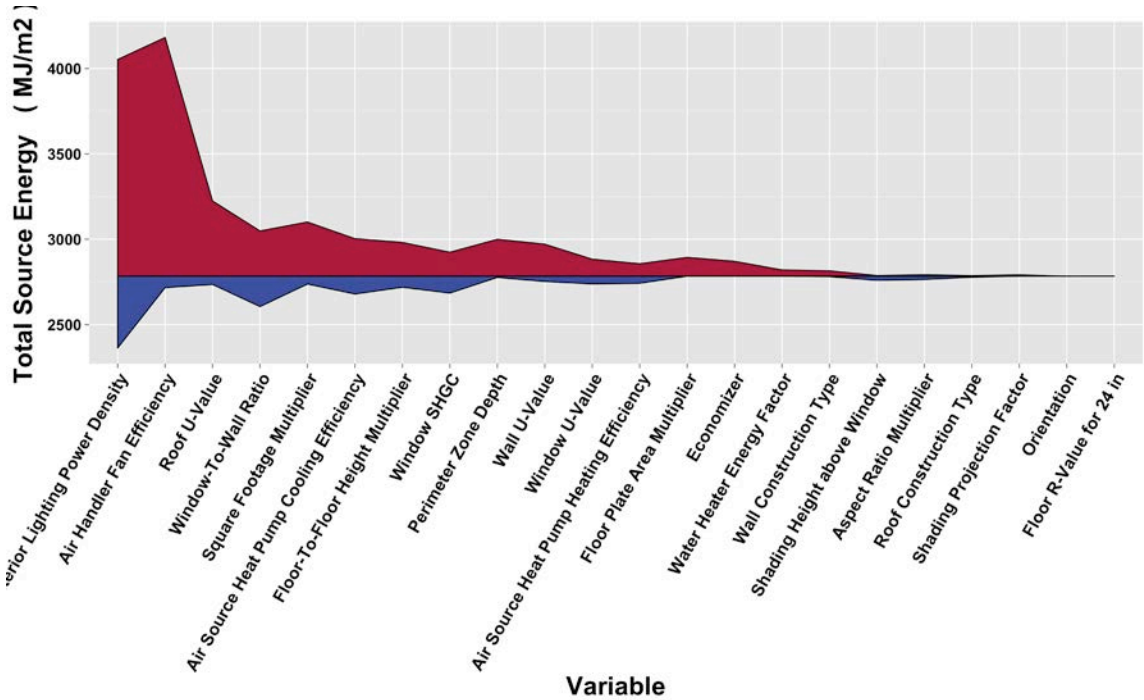
Total Natural Gas



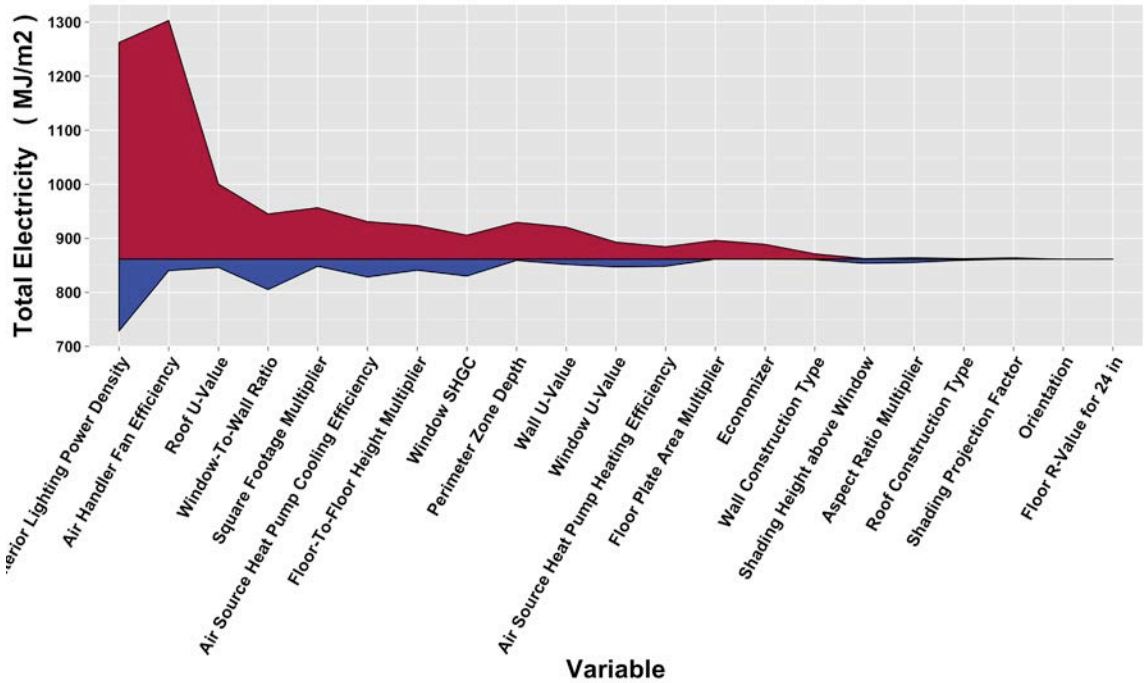
Location: Climate Zone 3C

Total Source Energy

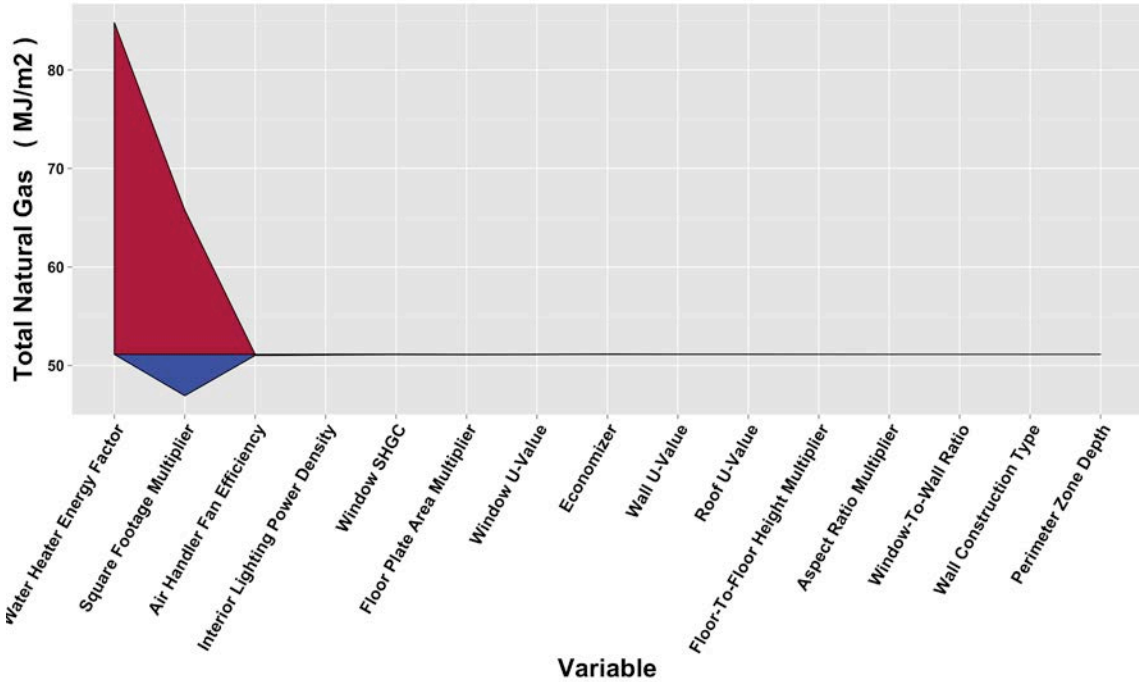
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	2764.27	2791.69
Floor Plate Area Multiplier	6000	12000	2783.54	2893.81
Square Footage Multiplier	3600	36000	2737.39	3100.86
Floor-To-Floor Height Multiplier	10.4	20.8	2718.75	2981.26
Perimeter Zone Depth	10	20	2776.15	2999.73
Floor R-Value for 24 in	0	0.01	2783.54	2783.54
Window-To-Wall Ratio	0	0.59	2605.18	3048.56
Window Sill Height	1	6	2783.54	2783.54
Window U-Value	0.12	1.22	2738.51	2883.18
Window SHGC	0.08	0.7	2684.41	2923.68
Window VLT	0.05	0.77	2783.54	2783.54
Wall Construction Type	masonry-on-masonry	wood-siding	2780.76	2814.91
Wall U-Value	0.03	0.58	2752.52	2971.03
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2777.71	2786.78
Roof U-Value	0.01	0.2	2735.01	3224.34
Daylighting Control Setpoint	0	0	2783.54	2783.54
Interior Lighting Power Density	0.23	2.3	2362.49	4053.17
Shading Projection Factor	0	1	2783.54	2791.20
Shading Height above Window	0	2	2759.37	2787.10
District Chiller Cooling Efficiency	0.52	1.48	2783.54	2783.54
Air Handler Fan Efficiency	20.31	73.12	2716.36	4182.12
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2678.89	3003.32
Air Source Heat Pump Heating Efficiency	2.4	4.2	2742.05	2856.16
Gas Heating Efficiency	0.87	1.13	2783.54	2783.54
Terminal DX Cooling Efficiency	0.68	1.32	2783.54	2783.54
Terminal Furnace Heating Efficiency	0.87	1.13	2783.54	2783.54
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2783.54	2783.54
Water Heater Energy Factor	1	99	2783.54	2820.08
Economizer	false	true	2783.54	2870.50
Fan Control	cav	false	2783.54	2783.54
Orientation	0	359	2783.41	2783.54



Total Electricity



Total Natural Gas

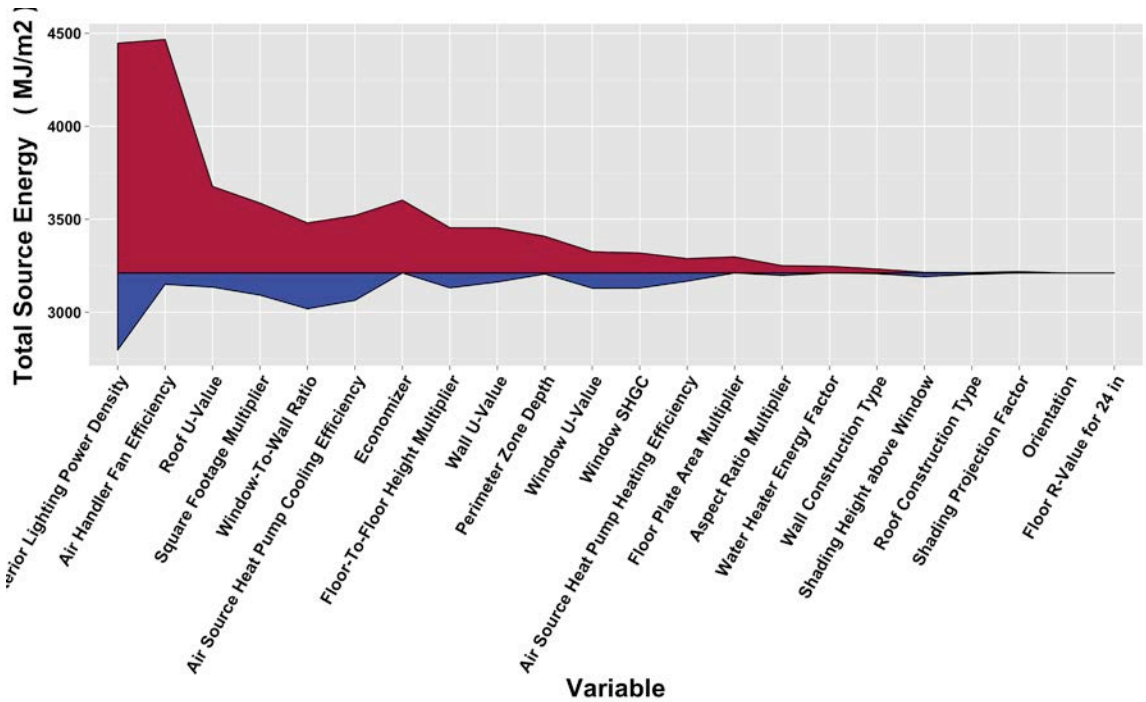


Location: Climate Zone 4A

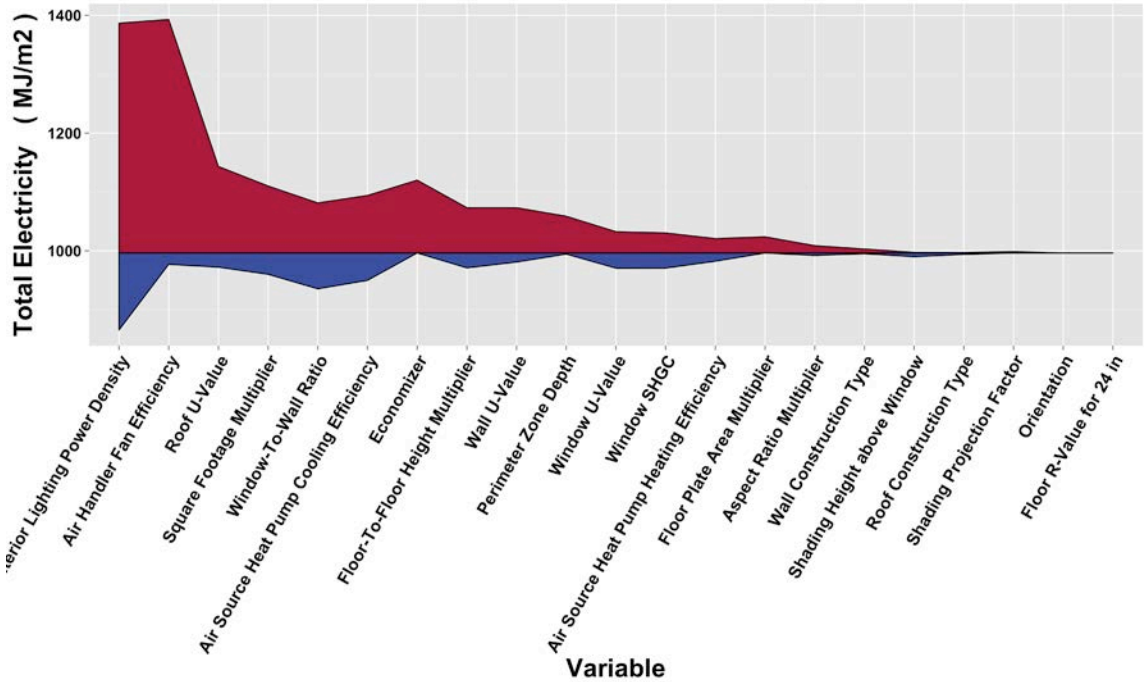
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3197.81	3250.43
Floor Plate Area Multiplier	6000	12000	3210.94	3298.04
Square Footage Multiplier	3600	36000	3091.71	3587.25
Floor-To-Floor Height Multiplier	10.4	20.8	3130.76	3454.82
Perimeter Zone Depth	10	20	3205.11	3408.54
Floor R-Value for 24 in	0	0.01	3210.94	3210.94
Window-To-Wall Ratio	0	0.59	3018.10	3480.22
Window Sill Height	1	6	3210.94	3210.94
Window U-Value	0.12	1.22	3129.25	3325.53
Window SHGC	0.08	0.7	3129.65	3318.75
Window VLT	0.05	0.77	3210.94	3210.94
Wall Construction Type	masonry-on-masonry	wood-siding	3207.11	3232.37
Wall U-Value	0.03	0.58	3162.15	3454.60
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3203.59	3213.62
Roof U-Value	0.01	0.2	3134.76	3676.54
Daylighting Control Setpoint	0	0	3210.94	3210.94
Interior Lighting Power Density	0.23	2.3	2796.63	4446.81
Shading Projection Factor	0	1	3210.94	3218.46

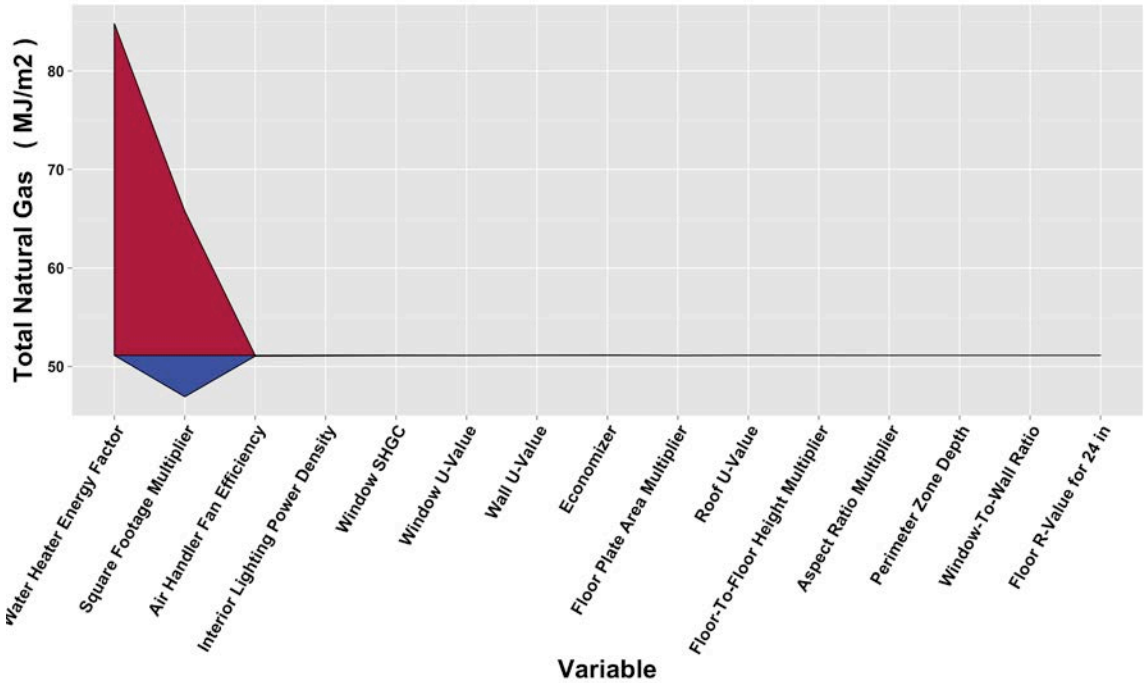
Shading Height above Window	0	2	3190.93	3214.25
District Chiller Cooling Efficiency	0.52	1.48	3210.94	3210.94
Air Handler Fan Efficiency	20.31	73.12	3149.89	4466.72
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3063.60	3520.35
Air Source Heat Pump Heating Efficiency	2.4	4.2	3166.60	3288.54
Gas Heating Efficiency	0.87	1.13	3210.94	3210.94
Terminal DX Cooling Efficiency	0.68	1.32	3210.94	3210.94
Terminal Furnace Heating Efficiency	0.87	1.13	3210.94	3210.94
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3210.94	3210.94
Water Heater Energy Factor	1	99	3210.94	3247.47
Economizer	false	true	3210.94	3602.84
Fan Control	cav	false	3210.94	3210.94
Orientation	0	359	3210.78	3210.94



Total Electricity



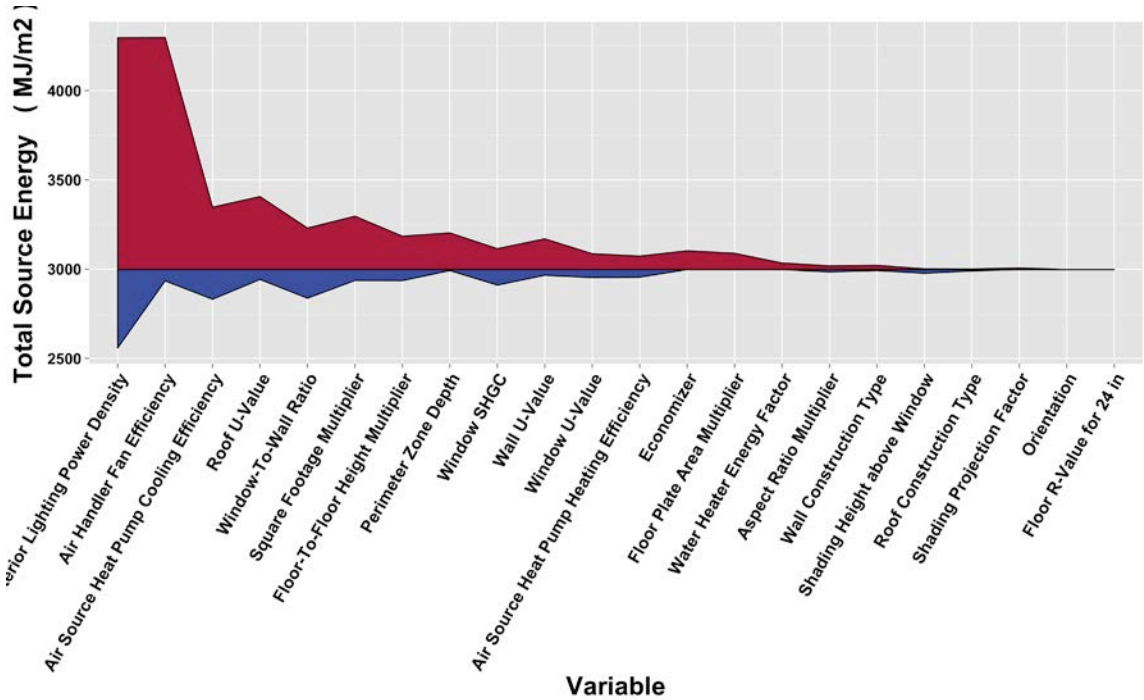
Total Natural Gas



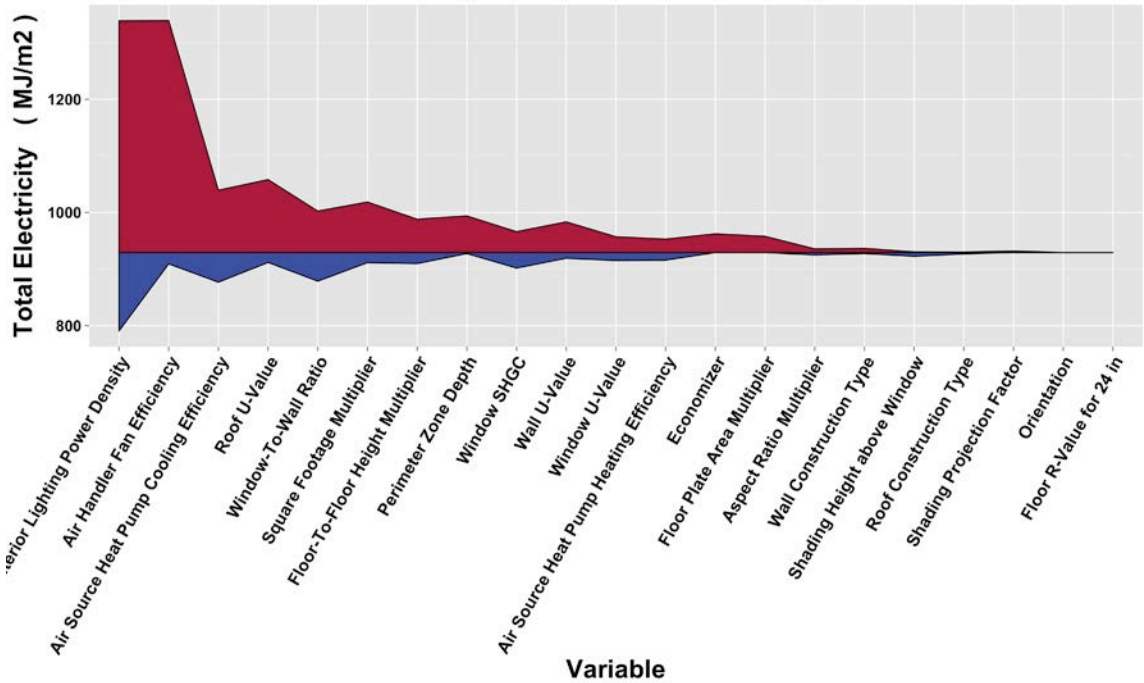
Location: Climate Zone 4B

Total Source Energy

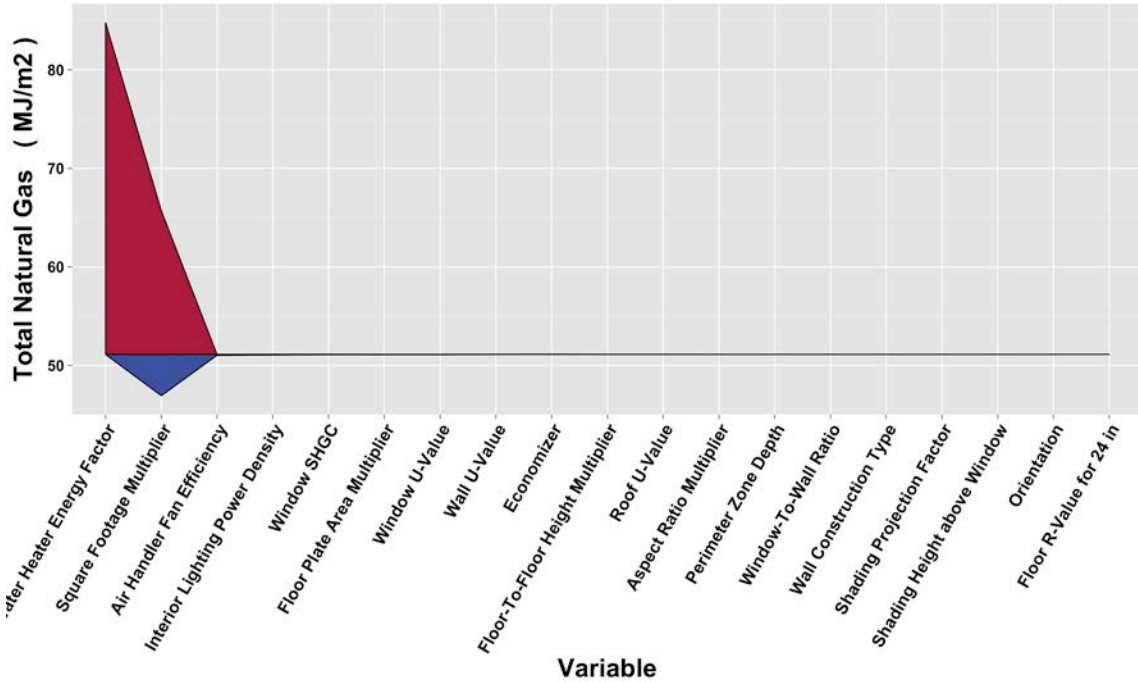
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	2984.24	3018.49
Floor Plate Area Multiplier	6000	12000	2997.84	3088.85
Square Footage Multiplier	3600	36000	2936.60	3296.71
Floor-To-Floor Height Multiplier	10.4	20.8	2935.67	3184.70
Perimeter Zone Depth	10	20	2991.91	3203.11
Floor R-Value for 24 in	0	0.01	2997.84	2997.84
Window-To-Wall Ratio	0	0.59	2837.18	3230.30
Window Sill Height	1	6	2997.84	2997.84
Window U-Value	0.12	1.22	2952.72	3086.43
Window SHGC	0.08	0.7	2910.62	3114.80
Window VLT	0.05	0.77	2997.84	2997.84
Wall Construction Type	masonry-on-masonry	wood-siding	2992.29	3021.50
Wall U-Value	0.03	0.58	2965.80	3169.93
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2990.14	3000.53
Roof U-Value	0.01	0.2	2942.17	3406.79
Daylighting Control Setpoint	0	0	2997.84	2997.84
Interior Lighting Power Density	0.23	2.3	2558.19	4295.58
Shading Projection Factor	0	1	2997.84	3006.86
Shading Height above Window	0	2	2976.63	3001.64
District Chiller Cooling Efficiency	0.52	1.48	2997.84	2997.84
Air Handler Fan Efficiency	20.31	73.12	2934.13	4297.54
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2831.47	3347.20
Air Source Heat Pump Heating Efficiency	2.4	4.2	2954.88	3073.01
Gas Heating Efficiency	0.87	1.13	2997.84	2997.84
Terminal DX Cooling Efficiency	0.68	1.32	2997.84	2997.84
Terminal Furnace Heating Efficiency	0.87	1.13	2997.84	2997.84
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2997.84	2997.84
Water Heater Energy Factor	1	99	2997.84	3034.36
Economizer	false	true	2997.84	3102.88
Fan Control	cav	false	2997.84	2997.84
Orientation	0	359	2997.65	2997.84



Total Electricity



Total Natural Gas

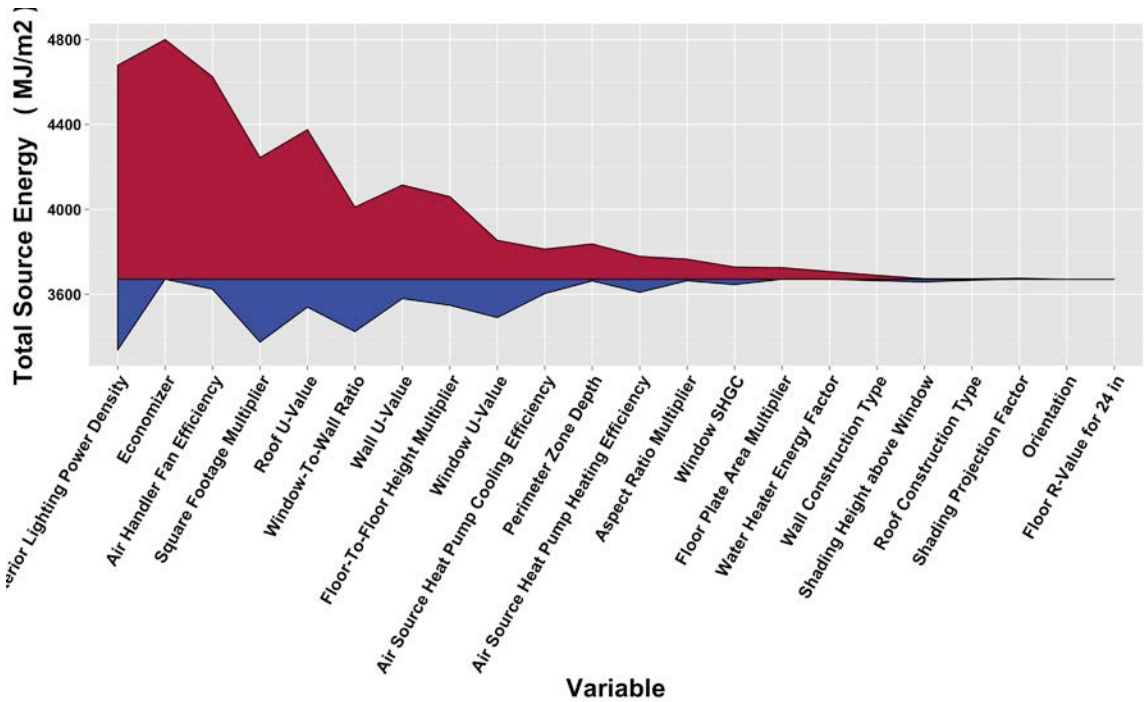


Location: Climate Zone 4C

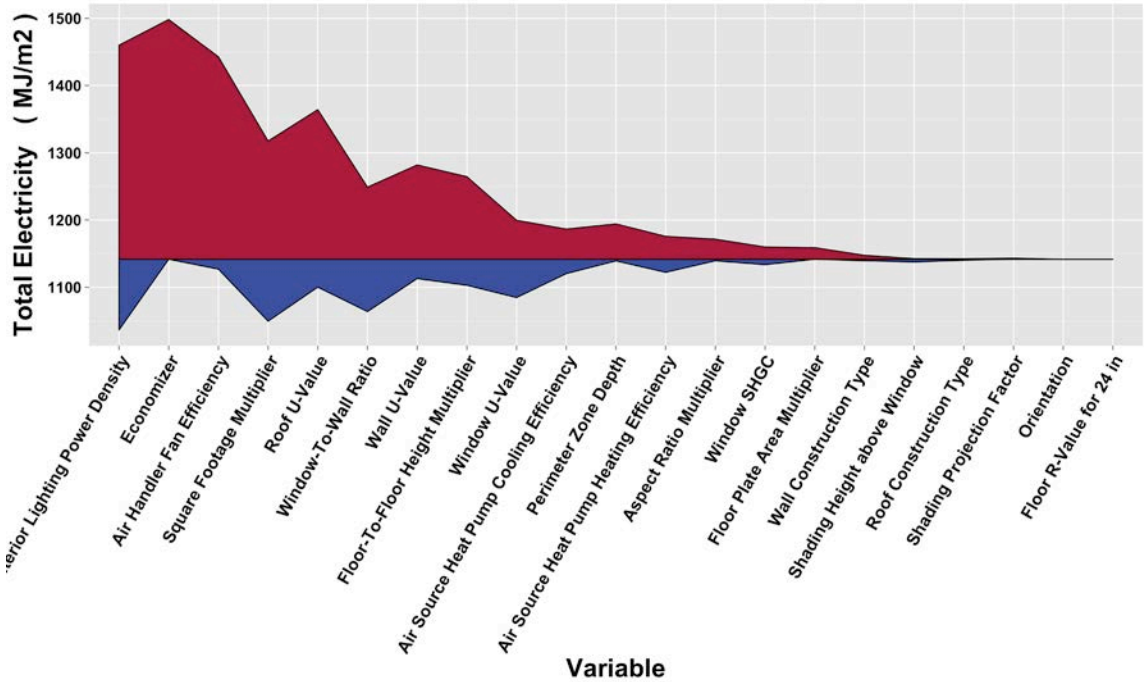
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3663.64	3765.70
Floor Plate Area Multiplier	6000	12000	3670.97	3725.71
Square Footage Multiplier	3600	36000	3374.51	4244.14
Floor-To-Floor Height Multiplier	10.4	20.8	3548.25	4060.21
Perimeter Zone Depth	10	20	3663.06	3837.57
Floor R-Value for 24 in	0	0.01	3670.97	3670.97
Window-To-Wall Ratio	0	0.59	3424.23	4010.99
Window Sill Height	1	6	3670.97	3670.97
Window U-Value	0.12	1.22	3490.22	3854.62
Window SHGC	0.08	0.7	3645.51	3728.71
Window VLT	0.05	0.77	3670.97	3670.97
Wall Construction Type	masonry-on-masonry	wood-siding	3664.07	3689.74
Wall U-Value	0.03	0.58	3579.73	4115.28
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3666.32	3673.21
Roof U-Value	0.01	0.2	3539.45	4375.94
Daylighting Control Setpoint	0	0	3670.97	3670.97
Interior Lighting Power Density	0.23	2.3	3337.54	4679.36
Shading Projection Factor	0	1	3670.97	3675.76

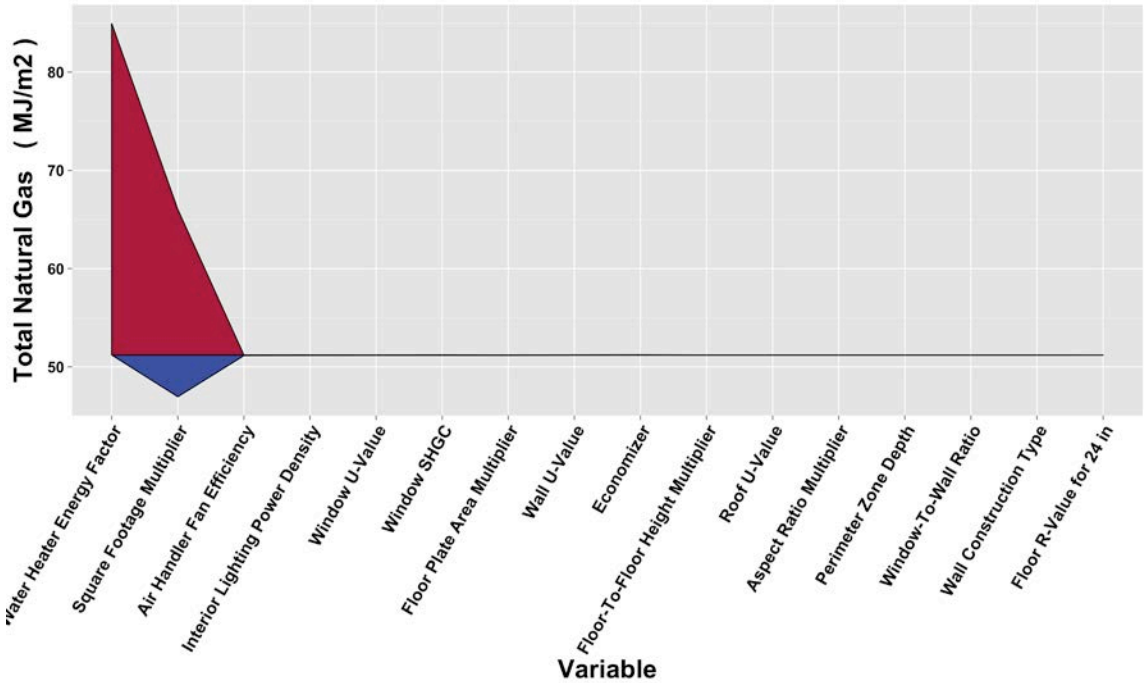
Shading Height above Window	0	2	3658.05	3673.79
District Chiller Cooling Efficiency	0.52	1.48	3670.97	3670.97
Air Handler Fan Efficiency	20.31	73.12	3624.28	4625.03
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3603.25	3813.17
Air Source Heat Pump Heating Efficiency	2.4	4.2	3609.30	3778.89
Gas Heating Efficiency	0.87	1.13	3670.97	3670.97
Terminal DX Cooling Efficiency	0.68	1.32	3670.97	3670.97
Terminal Furnace Heating Efficiency	0.87	1.13	3670.97	3670.97
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3670.97	3670.97
Water Heater Energy Factor	1	99	3670.97	3707.56
Economizer	false	true	3670.97	4800.60
Fan Control	cav	false	3670.97	3670.97
Orientation	0	359	3670.80	3670.97



Total Electricity



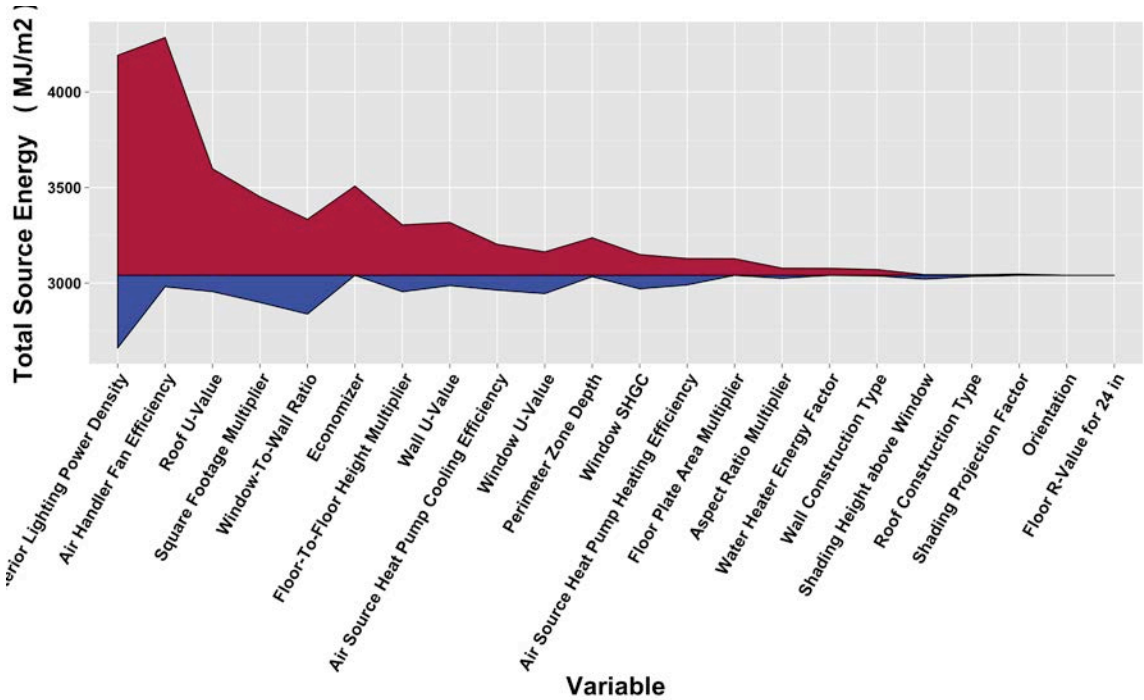
Total Natural Gas



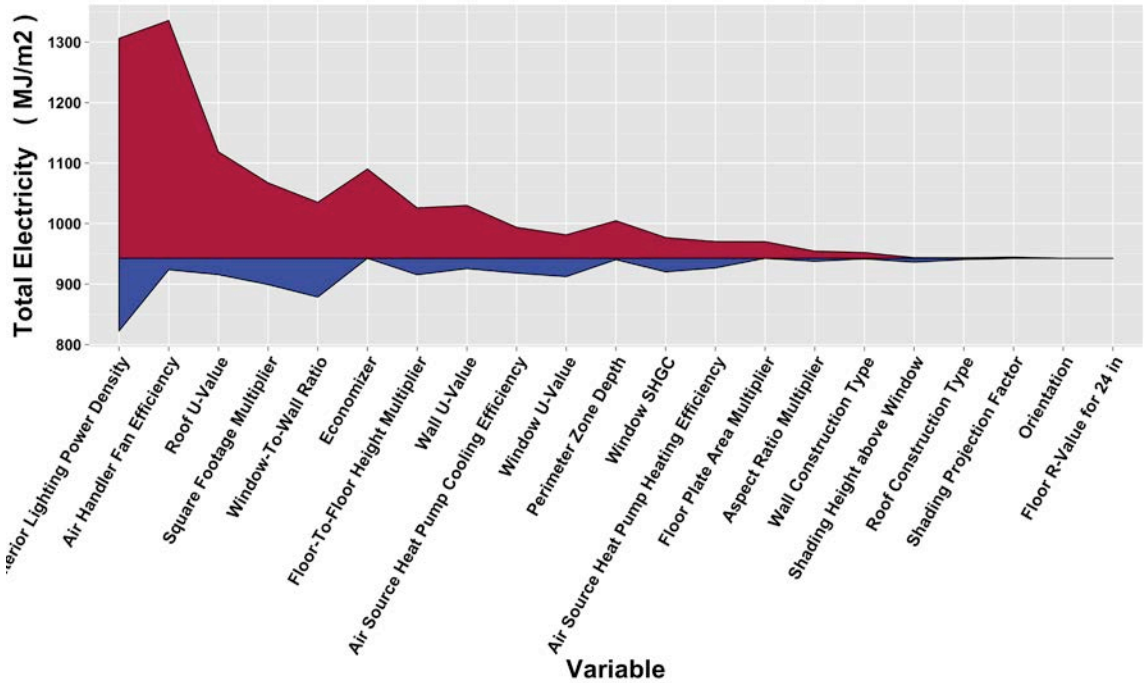
Location: Climate Zone 5A

Total Source Energy

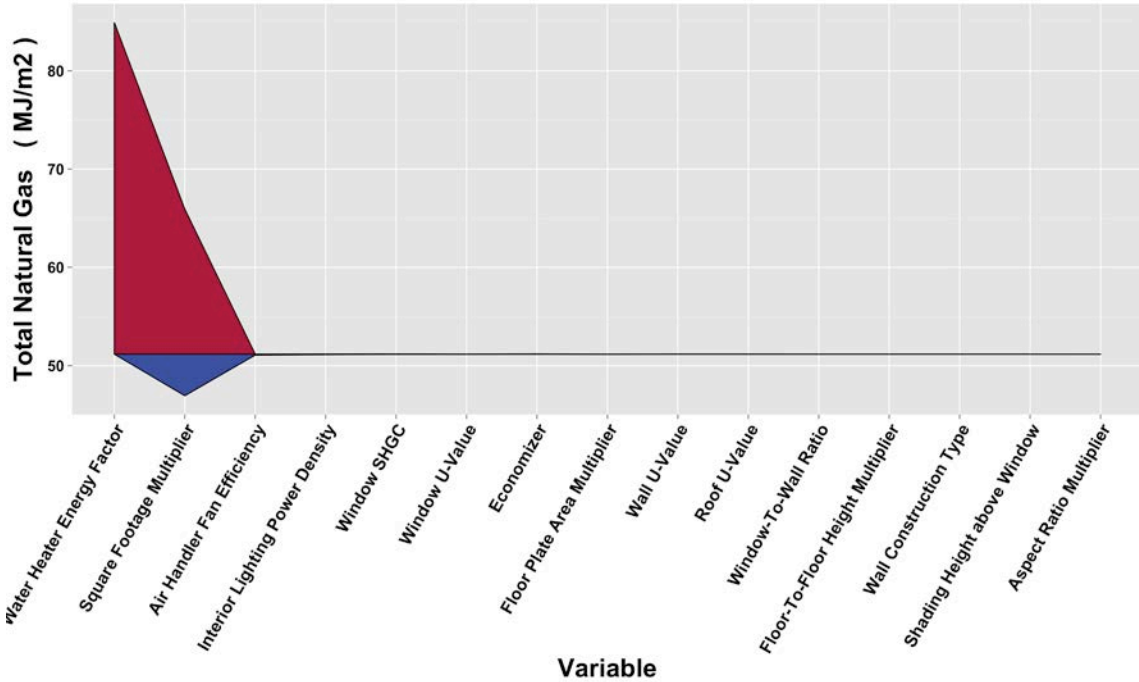
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3024.55	3078.05
Floor Plate Area Multiplier	6000	12000	3040.37	3127.66
Square Footage Multiplier	3600	36000	2898.44	3451.69
Floor-To-Floor Height Multiplier	10.4	20.8	2954.36	3304.72
Perimeter Zone Depth	10	20	3033.36	3237.30
Floor R-Value for 24 in	0	0.01	3040.37	3040.37
Window-To-Wall Ratio	0	0.59	2837.61	3333.82
Window Sill Height	1	6	3040.37	3040.37
Window U-Value	0.12	1.22	2944.49	3163.38
Window SHGC	0.08	0.7	2969.57	3149.34
Window VLT	0.05	0.77	3040.37	3040.37
Wall Construction Type	masonry-on-masonry	wood-siding	3037.48	3070.80
Wall U-Value	0.03	0.58	2986.78	3317.27
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3033.98	3043.46
Roof U-Value	0.01	0.2	2955.01	3598.43
Daylighting Control Setpoint	0	0	3040.37	3040.37
Interior Lighting Power Density	0.23	2.3	2659.82	4192.26
Shading Projection Factor	0	1	3040.37	3046.81
Shading Height above Window	0	2	3020.24	3043.99
District Chiller Cooling Efficiency	0.52	1.48	3040.37	3040.37
Air Handler Fan Efficiency	20.31	73.12	2980.70	4285.74
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2963.03	3202.78
Air Source Heat Pump Heating Efficiency	2.4	4.2	2990.09	3128.36
Gas Heating Efficiency	0.87	1.13	3040.37	3040.37
Terminal DX Cooling Efficiency	0.68	1.32	3040.37	3040.37
Terminal Furnace Heating Efficiency	0.87	1.13	3040.37	3040.37
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3040.37	3040.37
Water Heater Energy Factor	1	99	3040.37	3076.94
Economizer	false	true	3040.37	3508.37
Fan Control	cav	false	3040.37	3040.37
Orientation	0	359	3040.22	3040.37



Total Electricity



Total Natural Gas

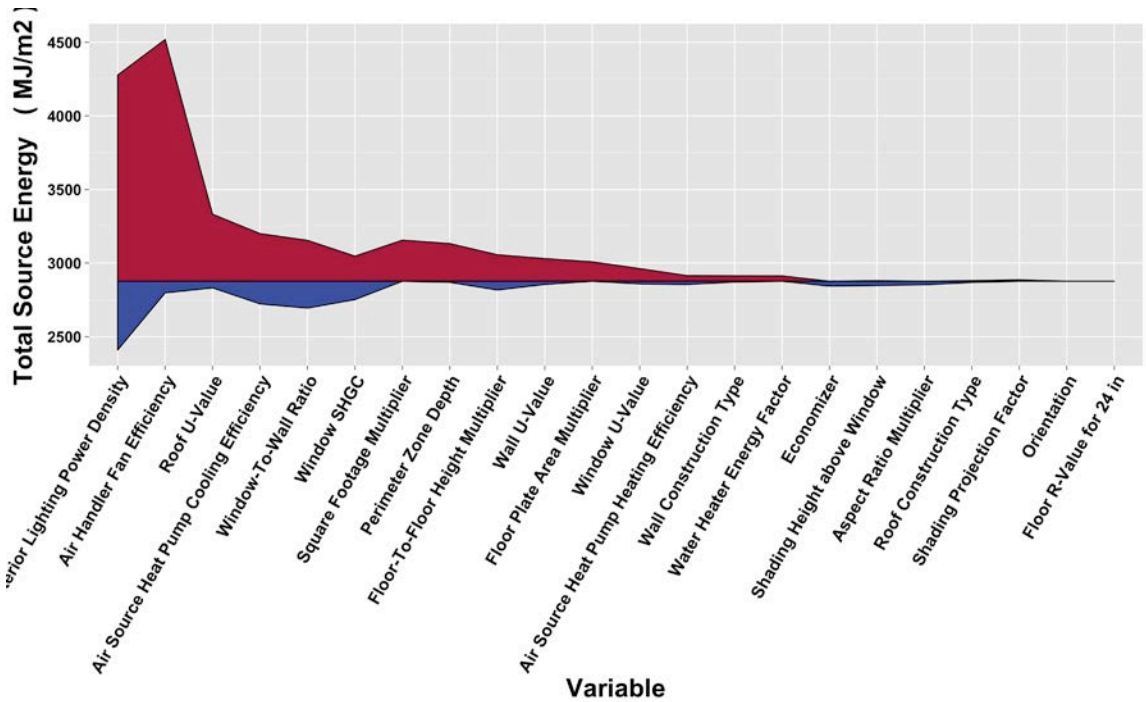


Location: Climate Zone 5B

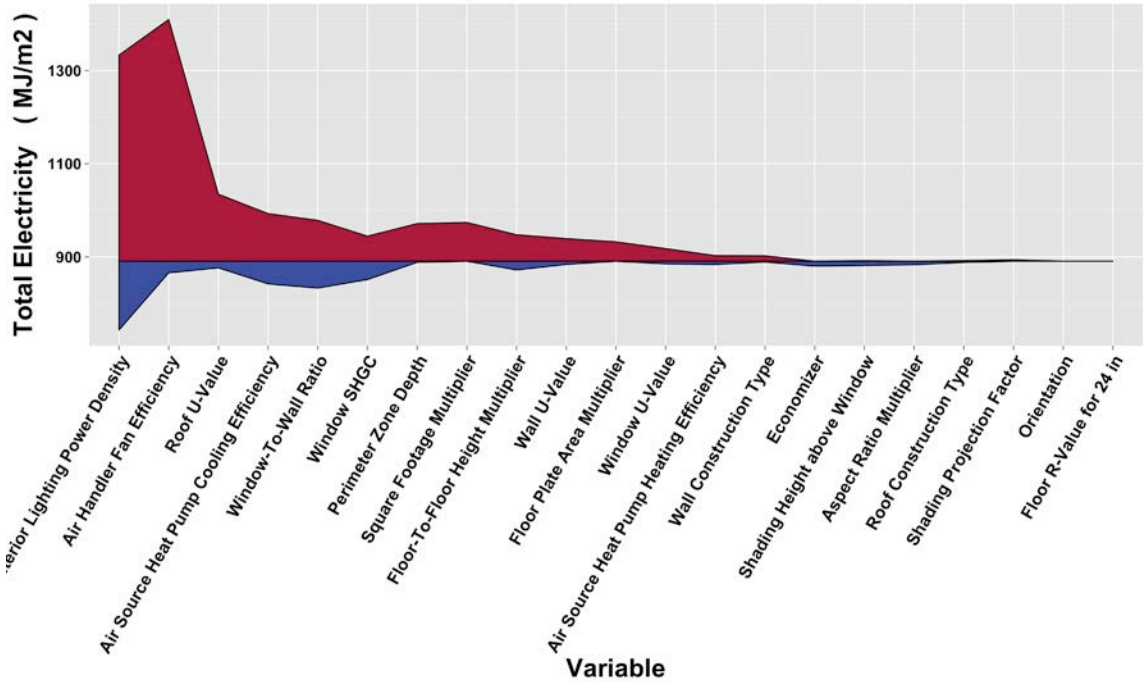
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	2852.47	2876.40
Floor Plate Area Multiplier	6000	12000	2876.40	3008.23
Square Footage Multiplier	3600	36000	2876.40	3155.72
Floor-To-Floor Height Multiplier	10.4	20.8	2816.81	3056.46
Perimeter Zone Depth	10	20	2868.79	3132.42
Floor R-Value for 24 in	0	0.01	2876.40	2876.40
Window-To-Wall Ratio	0	0.59	2693.80	3154.37
Window Sill Height	1	6	2876.40	2876.40
Window U-Value	0.12	1.22	2858.25	2962.37
Window SHGC	0.08	0.7	2751.67	3047.01
Window VLT	0.05	0.77	2876.40	2876.40
Wall Construction Type	masonry-on-masonry	wood-siding	2870.78	2913.27
Wall U-Value	0.03	0.58	2854.60	3030.39
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2868.37	2880.60
Roof U-Value	0.01	0.2	2831.38	3332.05
Daylighting Control Setpoint	0	0	2876.40	2876.40
Interior Lighting Power Density	0.23	2.3	2408.97	4277.26
Shading Projection Factor	0	1	2876.40	2886.31

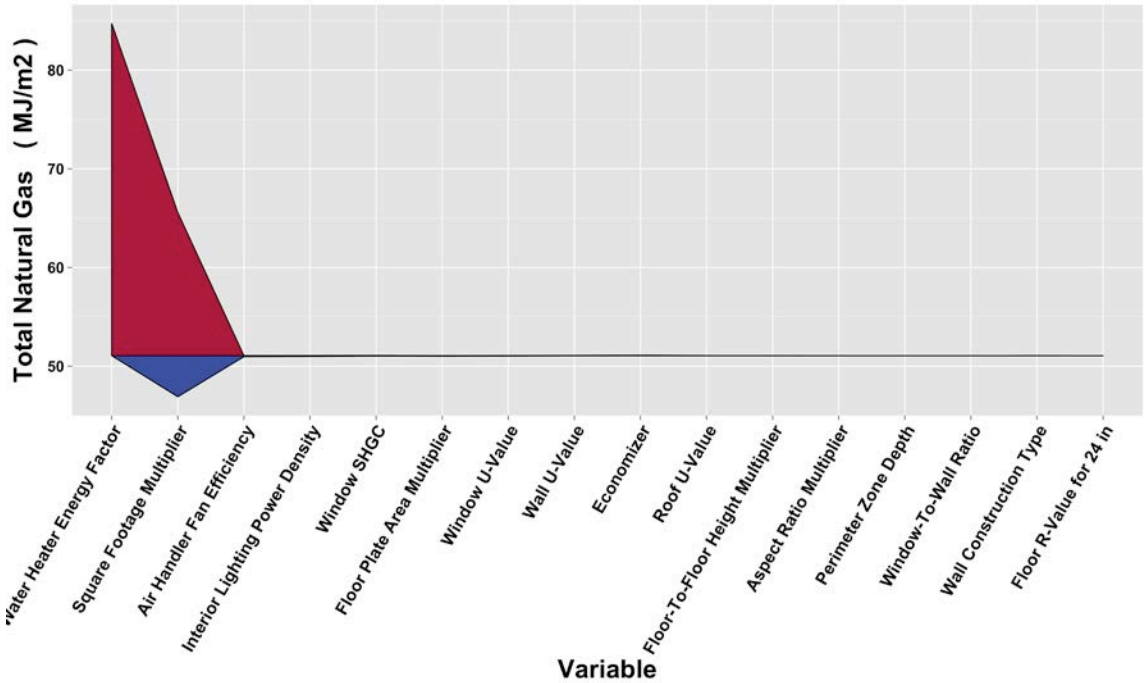
Shading Height above Window	0	2	2847.71	2880.16
District Chiller Cooling Efficiency	0.52	1.48	2876.40	2876.40
Air Handler Fan Efficiency	20.31	73.12	2797.34	4519.09
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2722.27	3200.06
Air Source Heat Pump Heating Efficiency	2.4	4.2	2854.60	2914.55
Gas Heating Efficiency	0.87	1.13	2876.40	2876.40
Terminal DX Cooling Efficiency	0.68	1.32	2876.40	2876.40
Terminal Furnace Heating Efficiency	0.87	1.13	2876.40	2876.40
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2876.40	2876.40
Water Heater Energy Factor	1	99	2876.40	2912.88
Economizer	false	true	2843.17	2876.40
Fan Control	cav	false	2876.40	2876.40
Orientation	0	359	2876.28	2876.40



Total Electricity



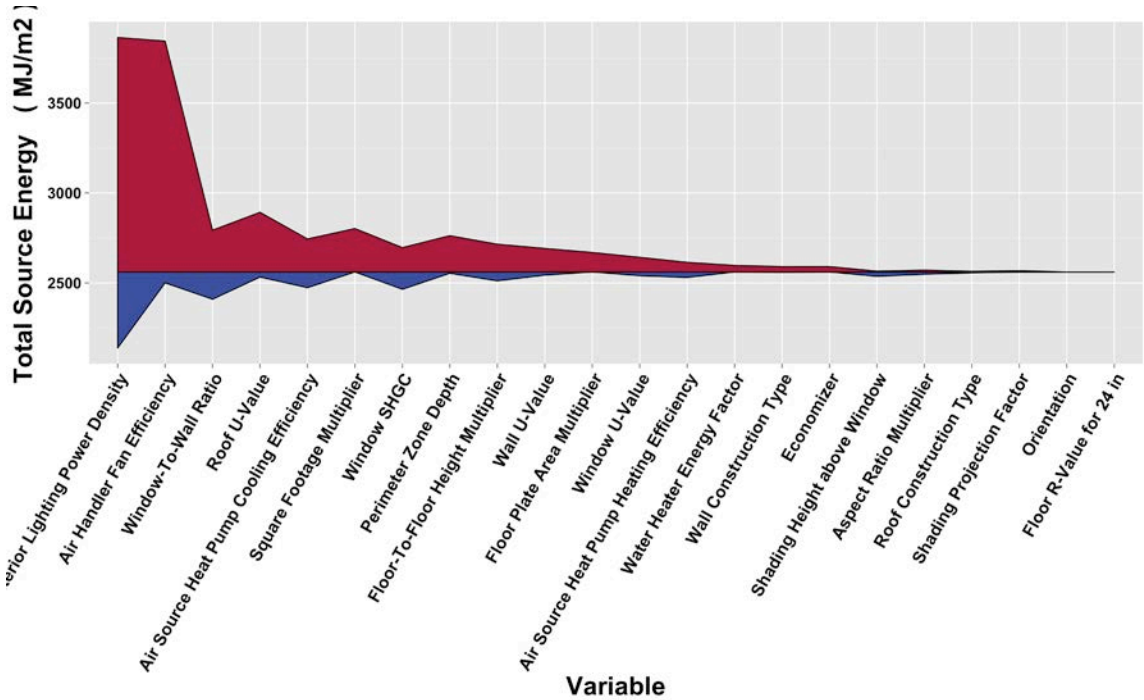
Total Natural Gas



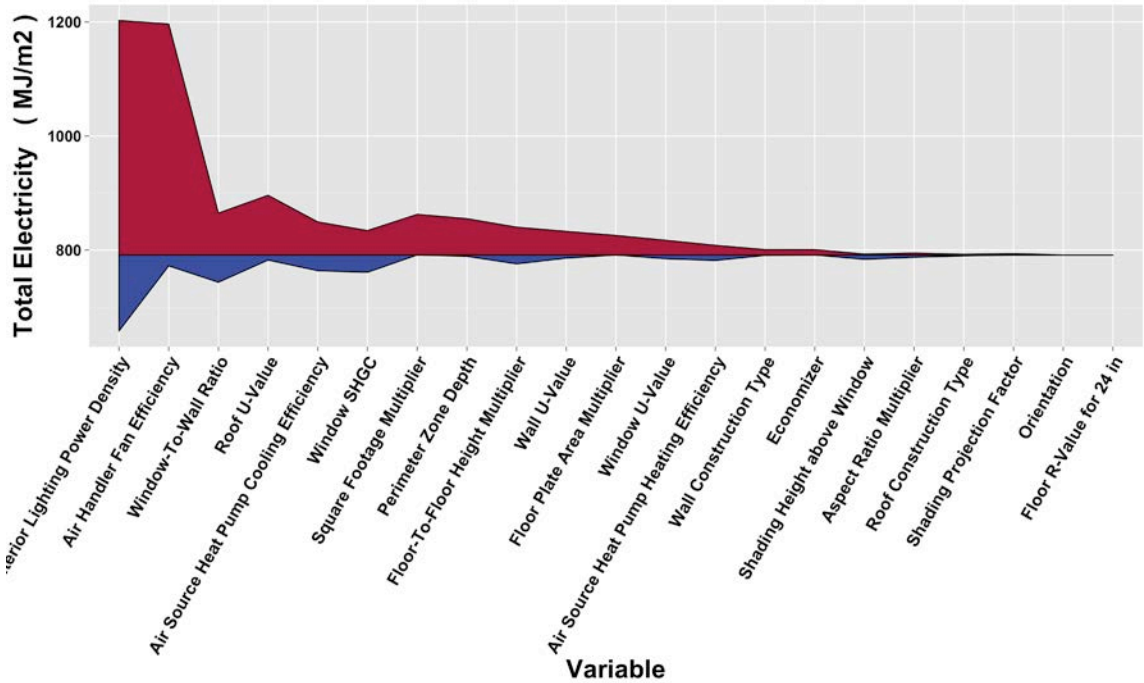
Location: Climate Zone 5C

Total Source Energy

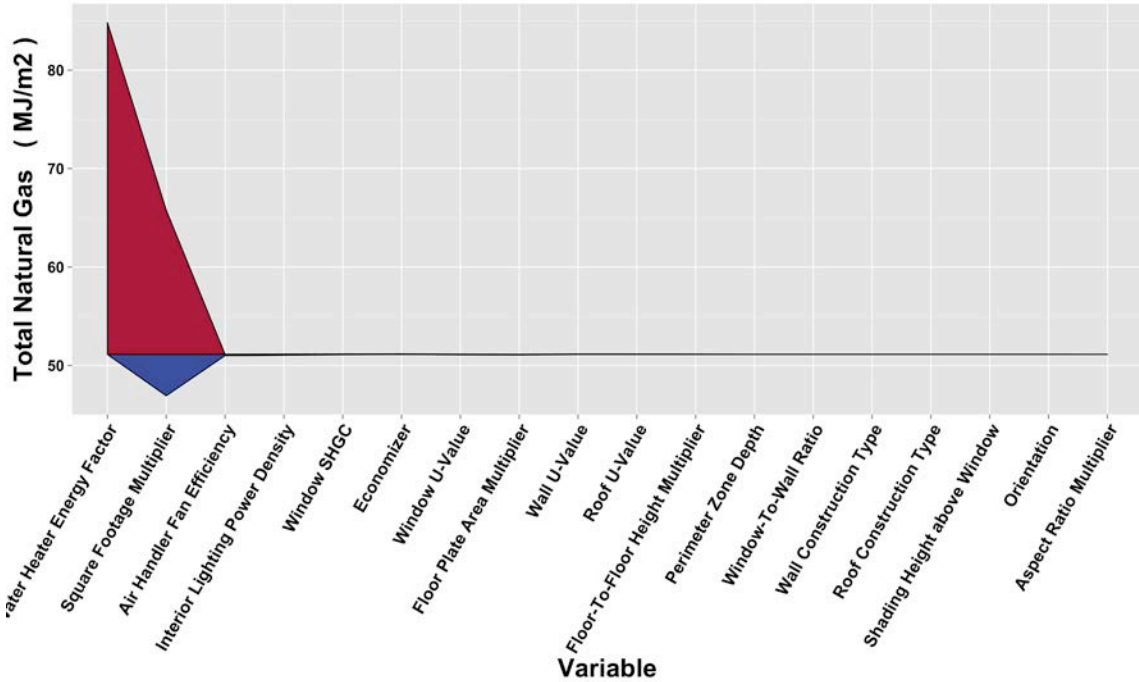
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	2548.37	2571.66
Floor Plate Area Multiplier	6000	12000	2561.07	2669.54
Square Footage Multiplier	3600	36000	2561.07	2802.57
Floor-To-Floor Height Multiplier	10.4	20.8	2511.54	2715.44
Perimeter Zone Depth	10	20	2553.69	2762.89
Floor R-Value for 24 in	0	0.01	2561.07	2561.07
Window-To-Wall Ratio	0	0.59	2409.38	2793.66
Window Sill Height	1	6	2561.07	2561.07
Window U-Value	0.12	1.22	2540.28	2642.58
Window SHGC	0.08	0.7	2464.68	2696.59
Window VLT	0.05	0.77	2561.07	2561.07
Wall Construction Type	masonry-on-masonry	wood-siding	2558.78	2590.87
Wall U-Value	0.03	0.58	2543.50	2692.02
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2556.06	2564.49
Roof U-Value	0.01	0.2	2532.70	2892.93
Daylighting Control Setpoint	0	0	2561.07	2561.07
Interior Lighting Power Density	0.23	2.3	2138.36	3864.19
Shading Projection Factor	0	1	2561.07	2568.41
Shading Height above Window	0	2	2536.86	2565.75
District Chiller Cooling Efficiency	0.52	1.48	2561.07	2561.07
Air Handler Fan Efficiency	20.31	73.12	2500.47	3844.45
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2473.61	2744.73
Air Source Heat Pump Heating Efficiency	2.4	4.2	2530.48	2614.59
Gas Heating Efficiency	0.87	1.13	2561.07	2561.07
Terminal DX Cooling Efficiency	0.68	1.32	2561.07	2561.07
Terminal Furnace Heating Efficiency	0.87	1.13	2561.07	2561.07
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2561.07	2561.07
Water Heater Energy Factor	1	99	2561.07	2597.60
Economizer	false	true	2561.07	2591.05
Fan Control	cav	false	2561.07	2561.07
Orientation	0	359	2560.77	2561.07



Total Electricity



Total Natural Gas

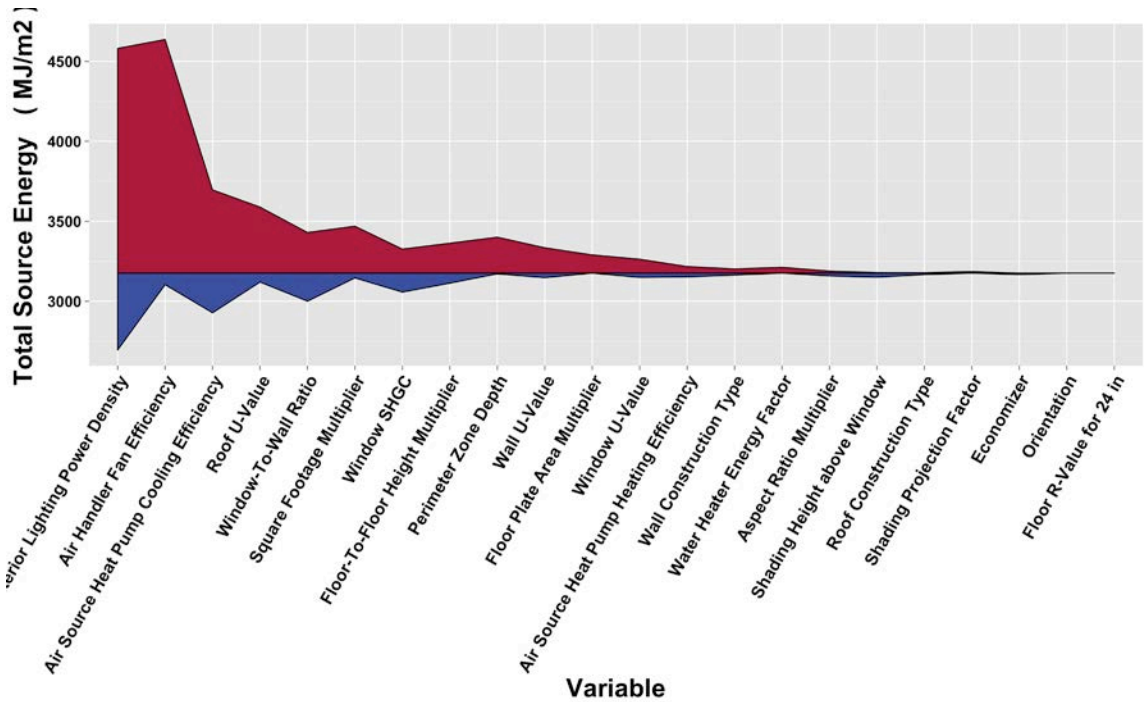


Location: Climate Zone 6A

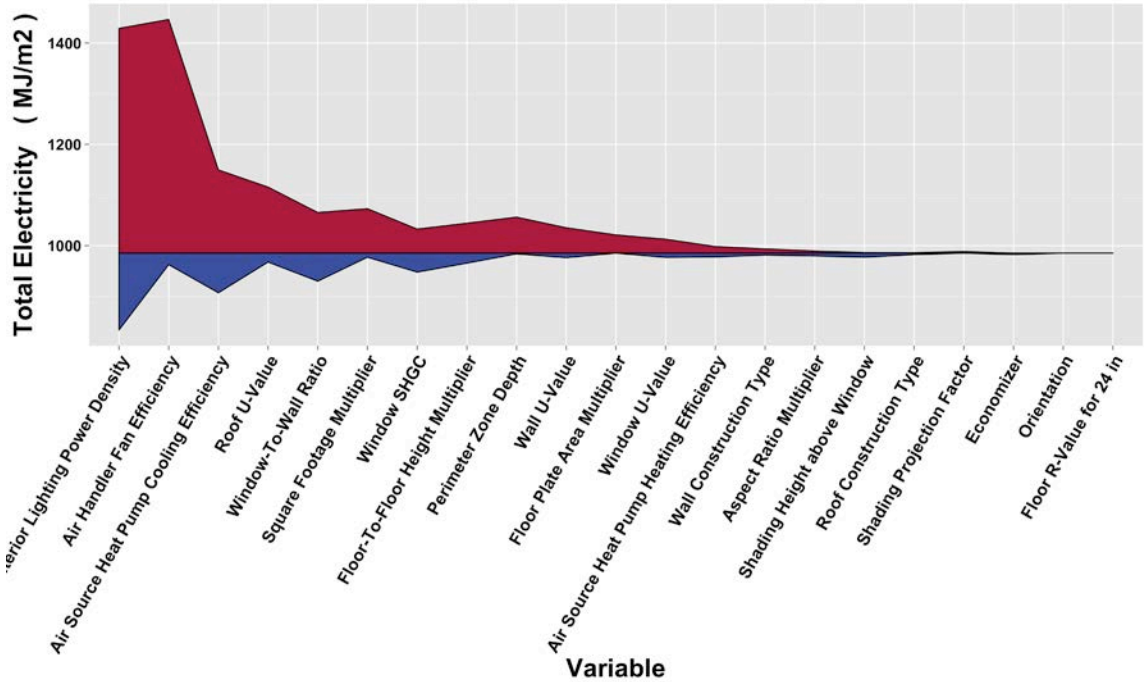
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3158.49	3189.03
Floor Plate Area Multiplier	6000	12000	3175.97	3289.95
Square Footage Multiplier	3600	36000	3146.01	3469.64
Floor-To-Floor Height Multiplier	10.4	20.8	3113.36	3363.19
Perimeter Zone Depth	10	20	3171.47	3400.93
Floor R-Value for 24 in	0	0.01	3175.97	3175.97
Window-To-Wall Ratio	0	0.59	3000.64	3430.01
Window Sill Height	1	6	3175.97	3175.97
Window U-Value	0.12	1.22	3149.37	3263.03
Window SHGC	0.08	0.7	3057.35	3326.34
Window VLT	0.05	0.77	3175.97	3175.97
Wall Construction Type	masonry-on-masonry	wood-siding	3163.85	3202.45
Wall U-Value	0.03	0.58	3147.66	3334.74
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3166.85	3179.10
Roof U-Value	0.01	0.2	3120.15	3589.07
Daylighting Control Setpoint	0	0	3175.97	3175.97
Interior Lighting Power Density	0.23	2.3	2695.40	4580.90
Shading Projection Factor	0	1	3175.97	3185.94

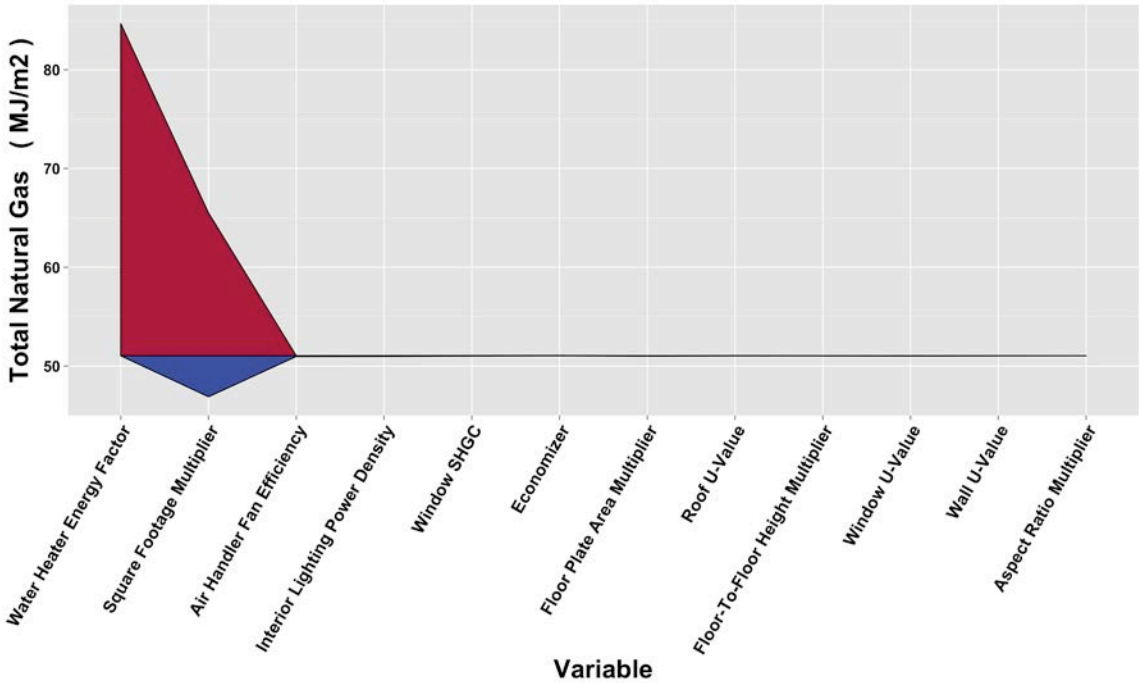
Shading Height above Window	0	2	3150.40	3179.75
District Chiller Cooling Efficiency	0.52	1.48	3175.97	3175.97
Air Handler Fan Efficiency	20.31	73.12	3103.96	4636.59
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2928.07	3696.56
Air Source Heat Pump Heating Efficiency	2.4	4.2	3152.37	3217.27
Gas Heating Efficiency	0.87	1.13	3175.97	3175.97
Terminal DX Cooling Efficiency	0.68	1.32	3175.97	3175.97
Terminal Furnace Heating Efficiency	0.87	1.13	3175.97	3175.97
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3175.97	3175.97
Water Heater Energy Factor	1	99	3175.97	3212.45
Economizer	false	true	3167.19	3175.97
Fan Control	cav	false	3175.97	3175.97
Orientation	0	359	3175.86	3175.97



Total Electricity



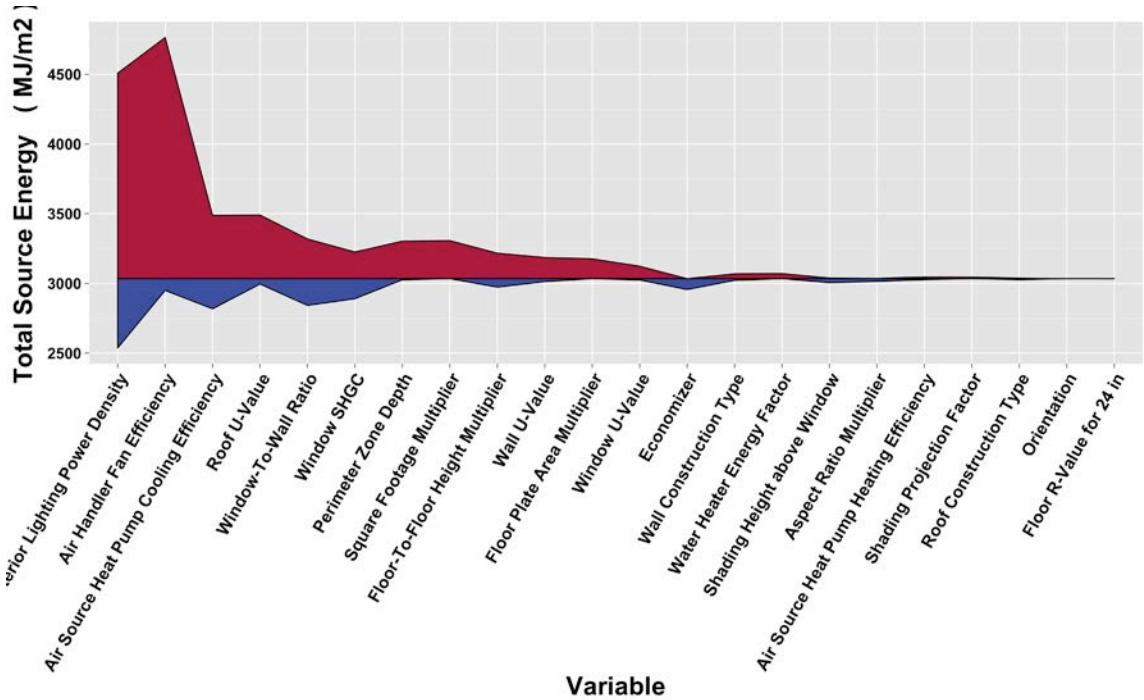
Total Natural Gas



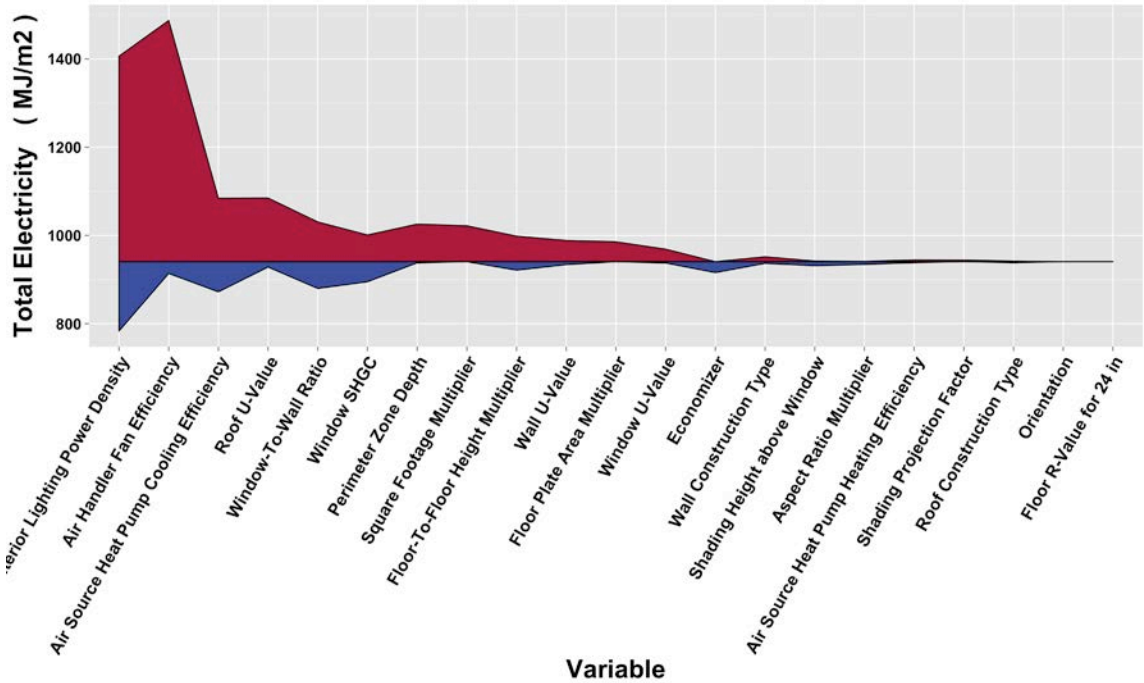
Location: Climate Zone 6B

Total Source Energy

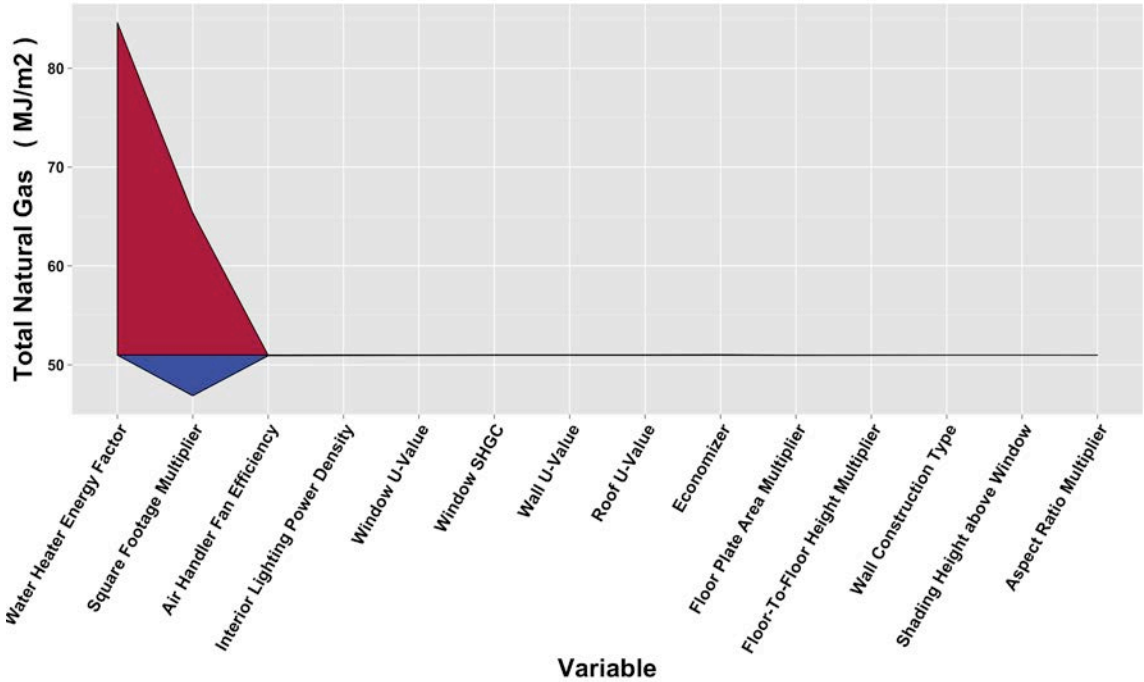
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3014.27	3036.31
Floor Plate Area Multiplier	6000	12000	3034.14	3176.43
Square Footage Multiplier	3600	36000	3034.14	3307.19
Floor-To-Floor Height Multiplier	10.4	20.8	2972.82	3217.01
Perimeter Zone Depth	10	20	3025.67	3303.41
Floor R-Value for 24 in	0	0.01	3034.14	3034.14
Window-To-Wall Ratio	0	0.59	2841.74	3319.13
Window Sill Height	1	6	3034.14	3034.14
Window U-Value	0.12	1.22	3024.52	3123.66
Window SHGC	0.08	0.7	2890.02	3225.52
Window VLT	0.05	0.77	3034.14	3034.14
Wall Construction Type	masonry-on-masonry	wood-siding	3021.83	3068.98
Wall U-Value	0.03	0.58	3012.91	3185.96
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3026.78	3037.89
Roof U-Value	0.01	0.2	2995.17	3490.95
Daylighting Control Setpoint	0	0	3034.14	3034.14
Interior Lighting Power Density	0.23	2.3	2536.33	4508.72
Shading Projection Factor	0	1	3034.14	3045.74
Shading Height above Window	0	2	3005.27	3038.70
District Chiller Cooling Efficiency	0.52	1.48	3034.14	3034.14
Air Handler Fan Efficiency	20.31	73.12	2949.44	4764.69
Air Source Heat Pump Cooling Efficiency	2.13	4.47	2817.48	3489.11
Air Source Heat Pump Heating Efficiency	2.4	4.2	3027.11	3046.43
Gas Heating Efficiency	0.87	1.13	3034.14	3034.14
Terminal DX Cooling Efficiency	0.68	1.32	3034.14	3034.14
Terminal Furnace Heating Efficiency	0.87	1.13	3034.14	3034.14
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3034.14	3034.14
Water Heater Energy Factor	1	99	3034.14	3070.58
Economizer	false	true	2955.64	3034.14
Fan Control	cav	false	3034.14	3034.14
Orientation	0	359	3034.00	3034.14



Total Electricity



Total Natural Gas

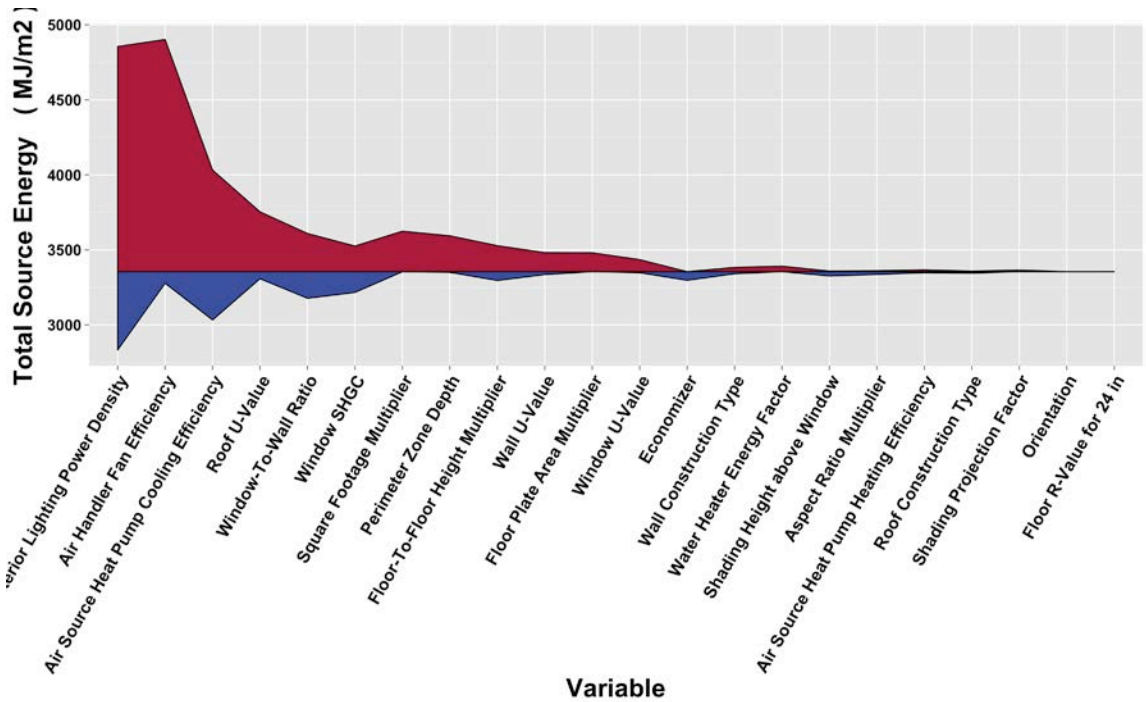


Location: Climate Zone 7

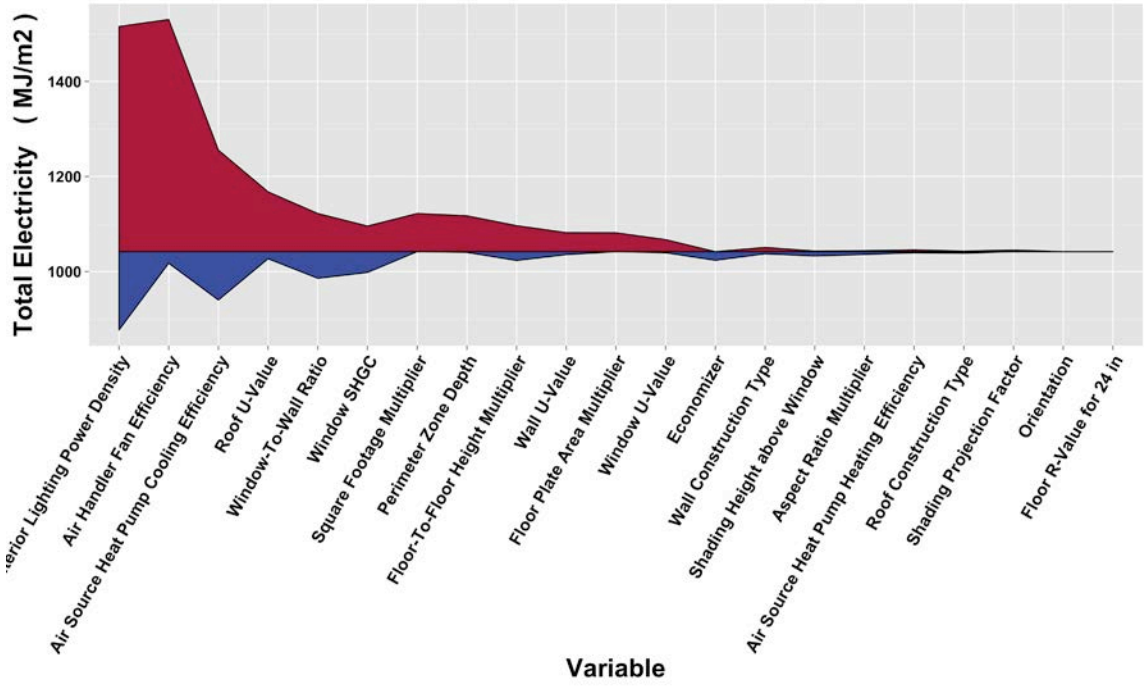
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3336.15	3361.22
Floor Plate Area Multiplier	6000	12000	3355.10	3480.83
Square Footage Multiplier	3600	36000	3354.34	3624.75
Floor-To-Floor Height Multiplier	10.4	20.8	3296.02	3528.36
Perimeter Zone Depth	10	20	3350.17	3594.03
Floor R-Value for 24 in	0	0.01	3355.10	3355.10
Window-To-Wall Ratio	0	0.59	3177.33	3609.48
Window Sill Height	1	6	3355.10	3355.10
Window U-Value	0.12	1.22	3347.73	3435.21
Window SHGC	0.08	0.7	3216.28	3525.88
Window VLT	0.05	0.77	3355.10	3355.10
Wall Construction Type	masonry-on-masonry	wood-siding	3340.69	3383.39
Wall U-Value	0.03	0.58	3335.24	3481.73
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3344.86	3358.29
Roof U-Value	0.01	0.2	3307.62	3753.82
Daylighting Control Setpoint	0	0	3355.10	3355.10
Interior Lighting Power Density	0.23	2.3	2832.61	4855.40
Shading Projection Factor	0	1	3355.10	3365.47

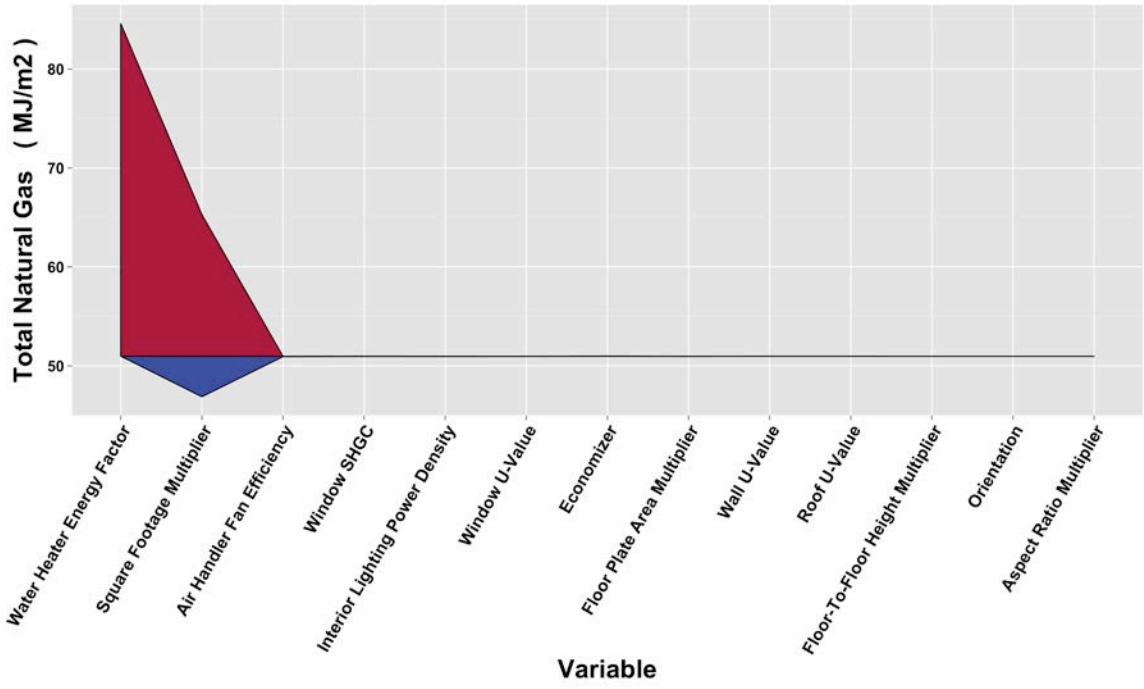
Shading Height above Window	0	2	3326.04	3358.99
District Chiller Cooling Efficiency	0.52	1.48	3355.10	3355.10
Air Handler Fan Efficiency	20.31	73.12	3277.54	4902.42
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3032.59	4032.38
Air Source Heat Pump Heating Efficiency	2.4	4.2	3348.17	3367.23
Gas Heating Efficiency	0.87	1.13	3355.10	3355.10
Terminal DX Cooling Efficiency	0.68	1.32	3355.10	3355.10
Terminal Furnace Heating Efficiency	0.87	1.13	3355.10	3355.10
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3355.10	3355.10
Water Heater Energy Factor	1	99	3355.10	3391.53
Economizer	false	true	3297.12	3355.10
Fan Control	cav	false	3355.10	3355.10
Orientation	0	359	3354.72	3355.10



Total Electricity



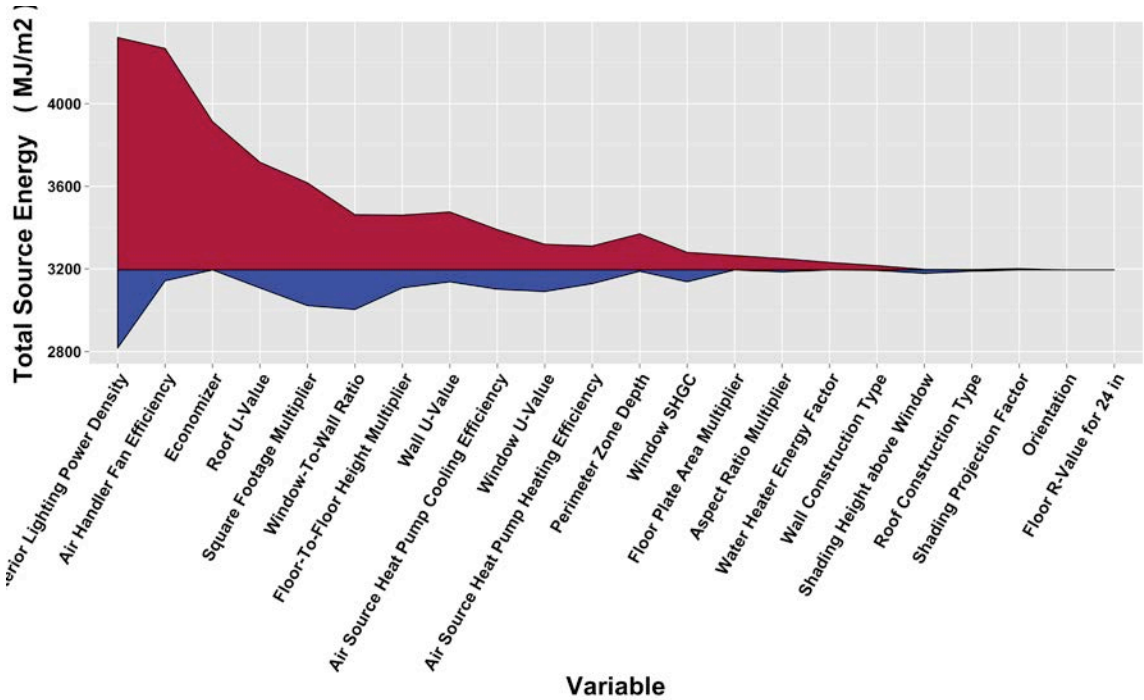
Total Natural Gas



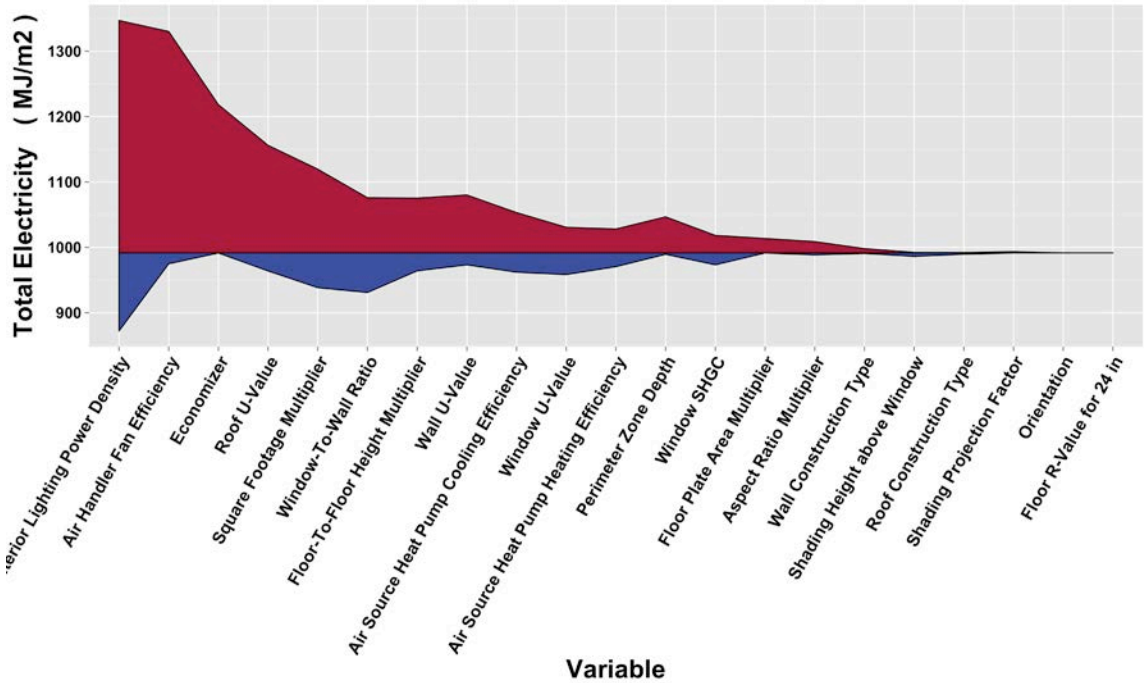
Location: Climate Zone 8

Total Source Energy

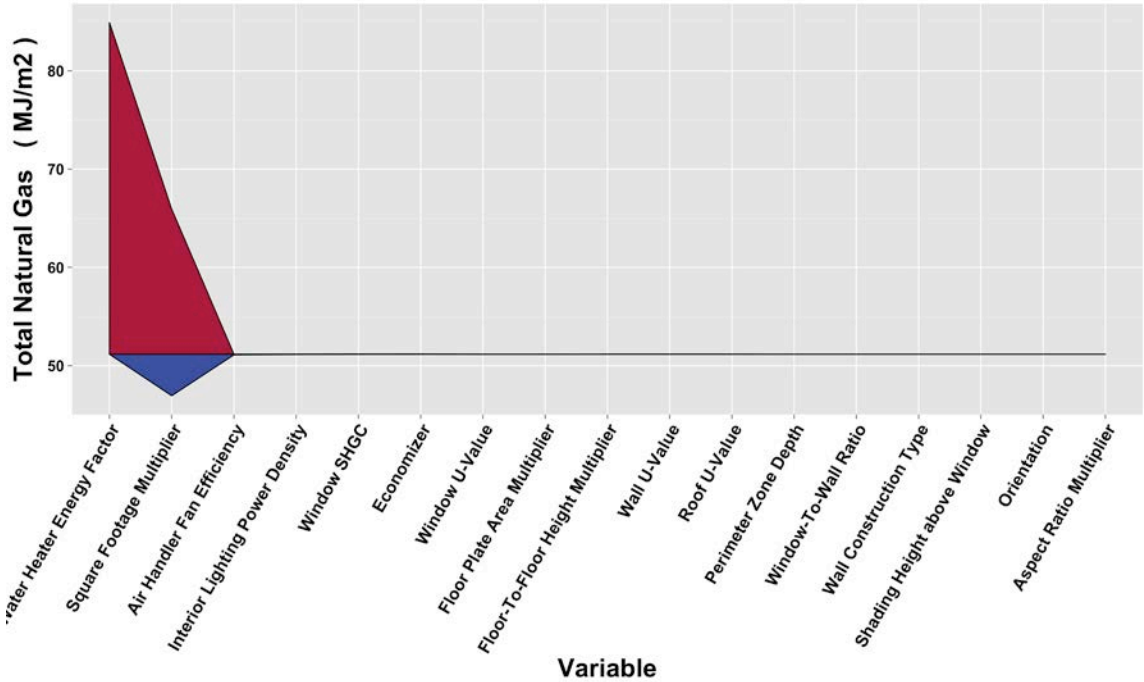
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.83	4.17	3185.56	3249.89
Floor Plate Area Multiplier	6000	12000	3194.84	3265.10
Square Footage Multiplier	3600	36000	3022.18	3616.89
Floor-To-Floor Height Multiplier	10.4	20.8	3108.18	3460.52
Perimeter Zone Depth	10	20	3188.39	3369.91
Floor R-Value for 24 in	0	0.01	3194.84	3194.84
Window-To-Wall Ratio	0	0.59	3003.57	3462.47
Window Sill Height	1	6	3194.84	3194.84
Window U-Value	0.12	1.22	3090.38	3319.21
Window SHGC	0.08	0.7	3137.43	3279.99
Window VLT	0.05	0.77	3194.84	3194.84
Wall Construction Type	masonry-on-masonry	wood-siding	3192.71	3215.93
Wall U-Value	0.03	0.58	3137.46	3475.73
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3188.93	3197.21
Roof U-Value	0.01	0.2	3107.69	3716.24
Daylighting Control Setpoint	0	0	3194.84	3194.84
Interior Lighting Power Density	0.23	2.3	2816.84	4320.80
Shading Projection Factor	0	1	3194.84	3201.07
Shading Height above Window	0	2	3178.38	3197.81
District Chiller Cooling Efficiency	0.52	1.48	3194.84	3194.84
Air Handler Fan Efficiency	20.31	73.12	3142.33	4267.68
Air Source Heat Pump Cooling Efficiency	2.13	4.47	3101.71	3390.42
Air Source Heat Pump Heating Efficiency	2.4	4.2	3128.47	3311.00
Gas Heating Efficiency	0.87	1.13	3194.84	3194.84
Terminal DX Cooling Efficiency	0.68	1.32	3194.84	3194.84
Terminal Furnace Heating Efficiency	0.87	1.13	3194.84	3194.84
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3194.84	3194.84
Water Heater Energy Factor	1	99	3194.84	3231.41
Economizer	false	true	3194.84	3913.36
Fan Control	cav	false	3194.84	3194.84
Orientation	0	359	3194.63	3194.84



Total Electricity



Total Natural Gas



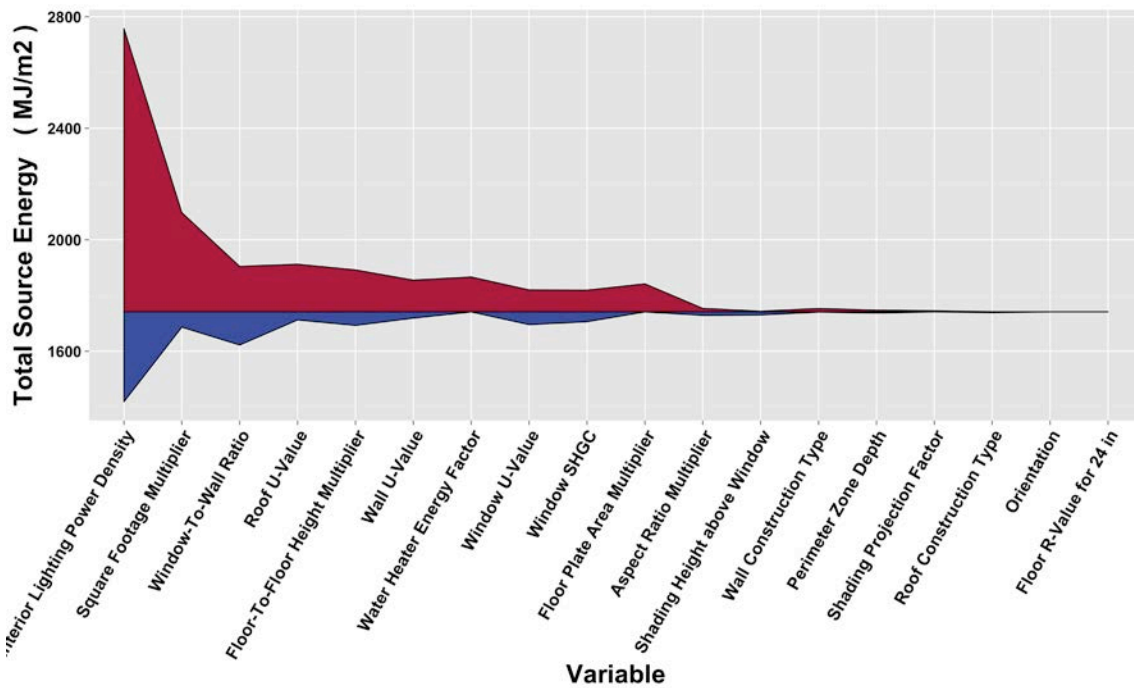
Post Office

Location: Climate Zone 1A

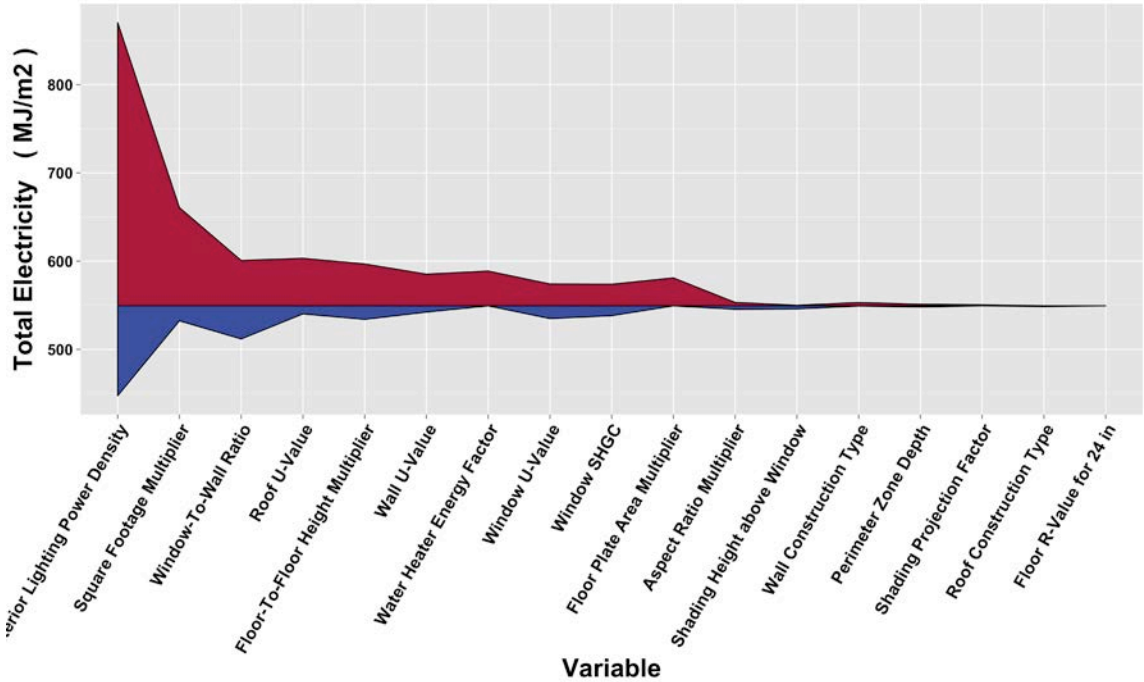
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	1729.08	1753.75
Floor Plate Area Multiplier	2550	5100	1741.31	1841.86
Square Footage Multiplier	1530	15300	1686.56	2097.44
Floor-To-Floor Height Multiplier	9.6	19.2	1692.86	1891.70
Perimeter Zone Depth	10	20	1737.45	1747.24
Floor R-Value for 24 in	0	0.01	1741.31	1741.31
Window-To-Wall Ratio	0	0.71	1622.59	1904.39
Window Sill Height	1	6	1741.31	1741.31
Window U-Value	0.12	1.22	1695.73	1819.93
Window SHGC	0.08	0.7	1706.16	1819.00
Window VLT	0.06	0.89	1741.31	1741.31
Wall Construction Type	masonry-on-masonry	wood-siding	1740.76	1753.42
Wall U-Value	0.03	0.58	1719.03	1855.14
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1739.13	1741.31
Roof U-Value	0.01	0.2	1712.50	1912.04
Daylighting Control Setpoint	0	0	1741.31	1741.31

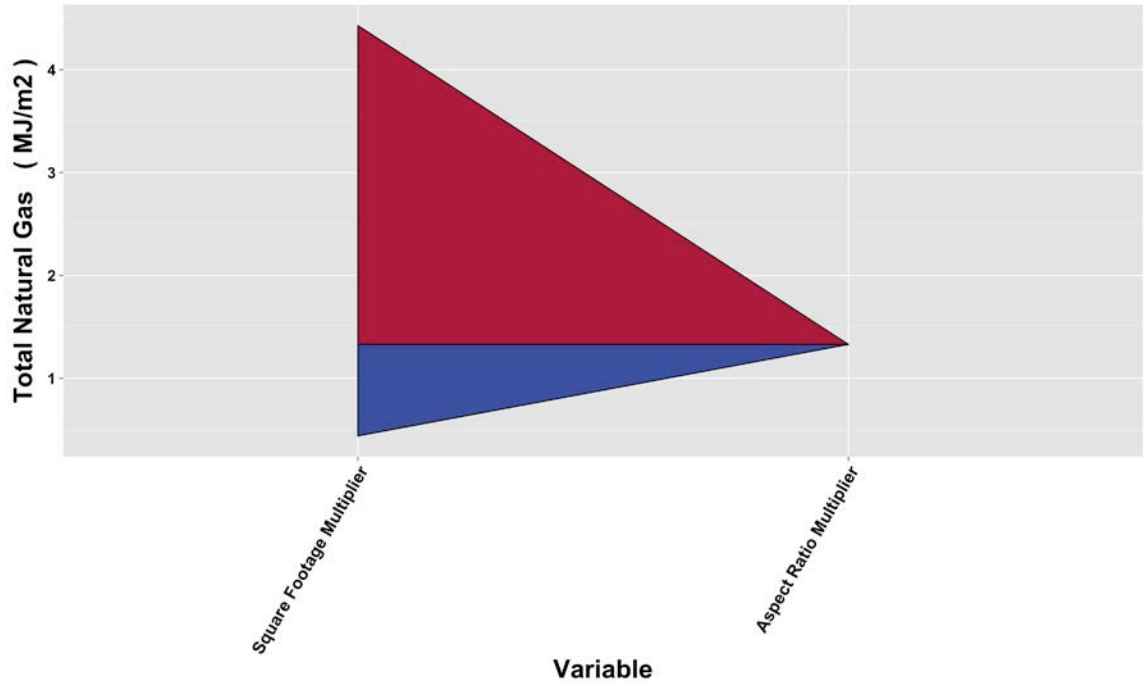
Interior Lighting Power Density	0.38	3.79	1418.88	2757.53
Shading Projection Factor	0	1	1741.31	1745.18
Shading Height above Window	0	2	1730.42	1743.52
District Chiller Cooling Efficiency	0.52	1.48	1741.31	1741.31
Gas Heating Efficiency	0.87	1.13	1741.31	1741.31
Terminal DX Cooling Efficiency	0.68	1.32	1741.31	1741.31
Terminal Furnace Heating Efficiency	0.87	1.13	1741.31	1741.31
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1741.31	1741.31
Water Heater Energy Factor	1	99	1741.31	1866.32
Orientation	0	359	1741.30	1741.36



Total Electricity



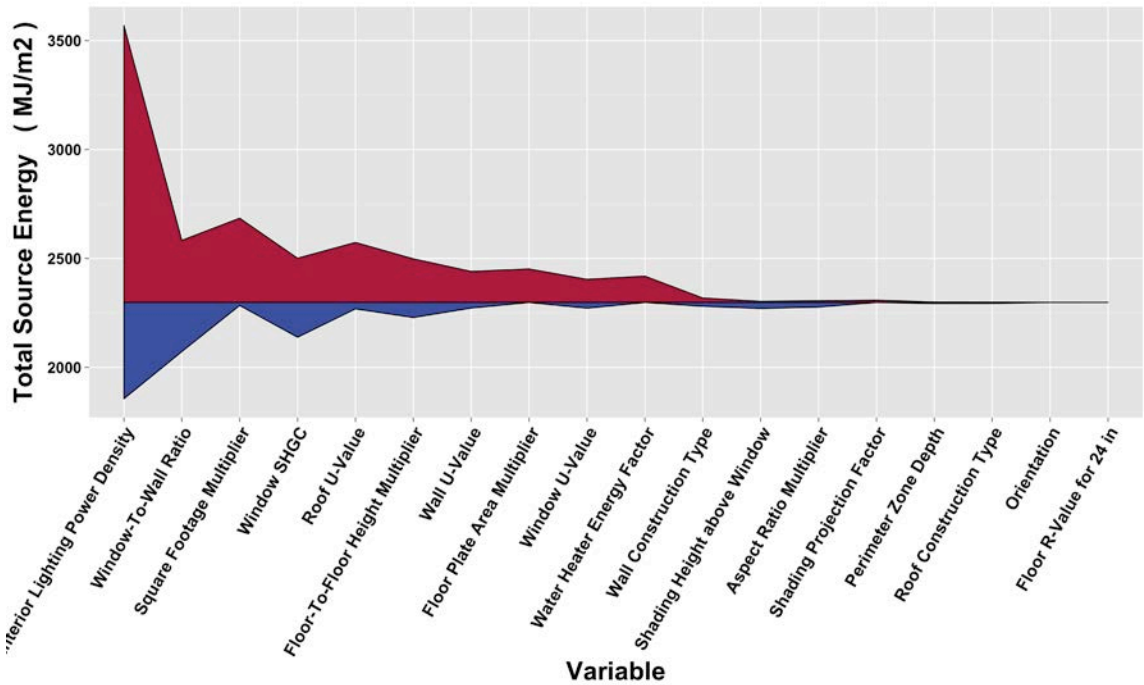
Total Natural Gas



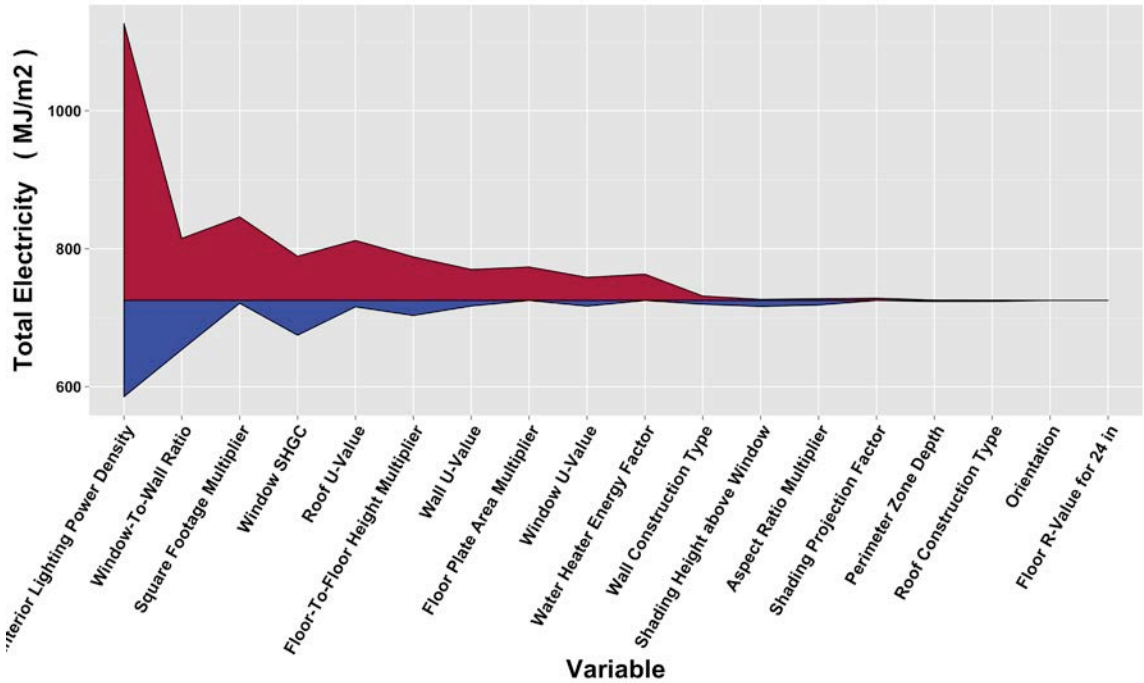
Location: Climate Zone 1B

Total Source Energy

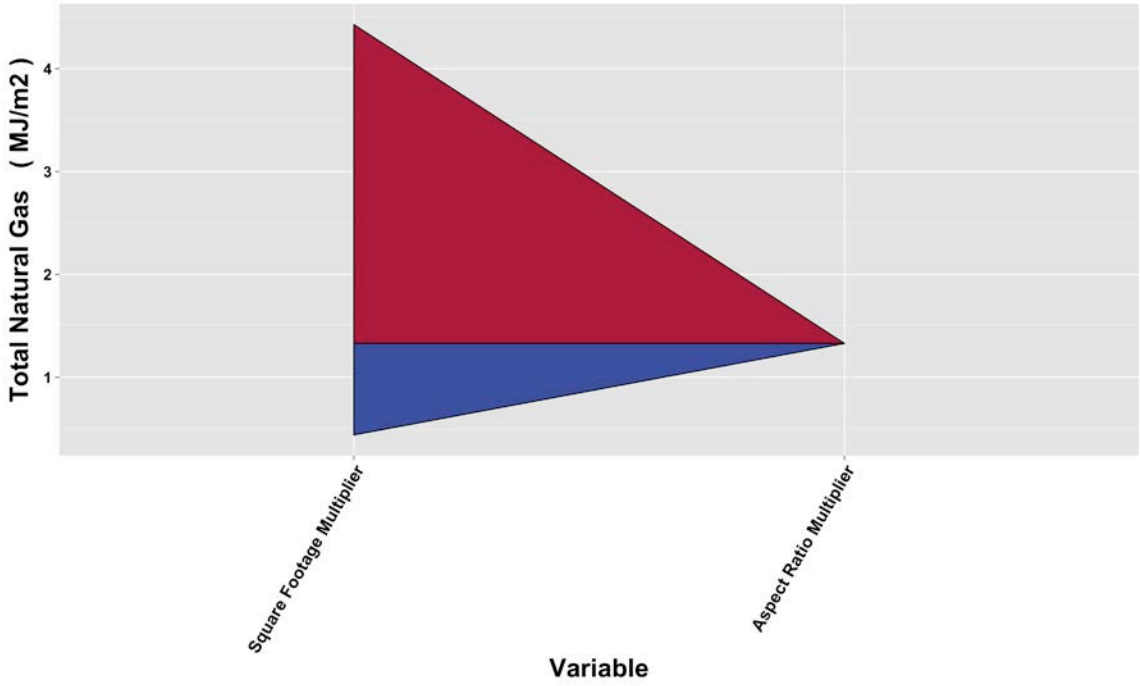
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2276.57	2305.33
Floor Plate Area Multiplier	2550	5100	2297.41	2451.21
Square Footage Multiplier	1530	15300	2283.69	2684.41
Floor-To-Floor Height Multiplier	9.6	19.2	2228.34	2497.75
Perimeter Zone Depth	10	20	2292.85	2299.25
Floor R-Value for 24 in	0	0.01	2297.41	2297.41
Window-To-Wall Ratio	0	0.71	2071.82	2582.63
Window Sill Height	1	6	2297.41	2297.41
Window U-Value	0.12	1.22	2271.24	2403.46
Window SHGC	0.08	0.7	2137.72	2500.55
Window VLT	0.06	0.89	2297.41	2297.41
Wall Construction Type	masonry-on-masonry	wood-siding	2280.06	2317.80
Wall U-Value	0.03	0.58	2271.85	2439.83
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2293.56	2298.63
Roof U-Value	0.01	0.2	2268.09	2573.05
Daylighting Control Setpoint	0	0	2297.41	2297.41
Interior Lighting Power Density	0.38	3.79	1855.25	3568.77
Shading Projection Factor	0	1	2297.41	2307.90
Shading Height above Window	0	2	2270.05	2302.29
District Chiller Cooling Efficiency	0.52	1.48	2297.41	2297.41
Gas Heating Efficiency	0.87	1.13	2297.41	2297.41
Terminal DX Cooling Efficiency	0.68	1.32	2297.41	2297.41
Terminal Furnace Heating Efficiency	0.87	1.13	2297.41	2297.41
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2297.41	2297.41
Water Heater Energy Factor	1	99	2297.41	2418.27
Orientation	0	359	2297.35	2297.45



Total Electricity



Total Natural Gas

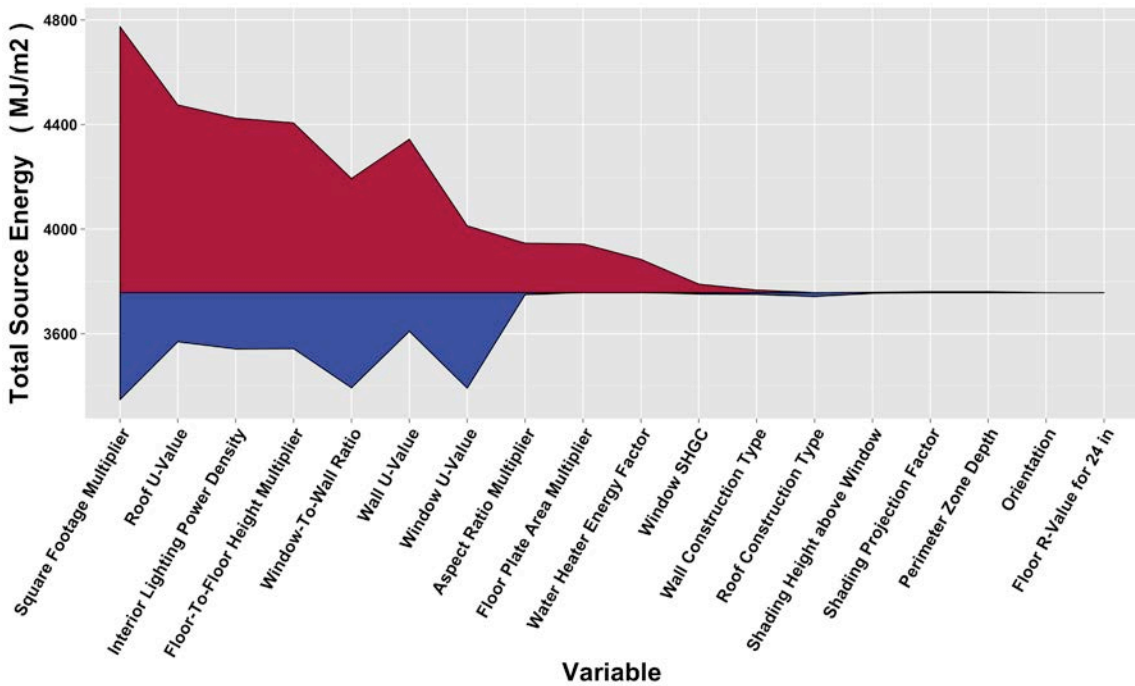


Location: Climate Zone 2A

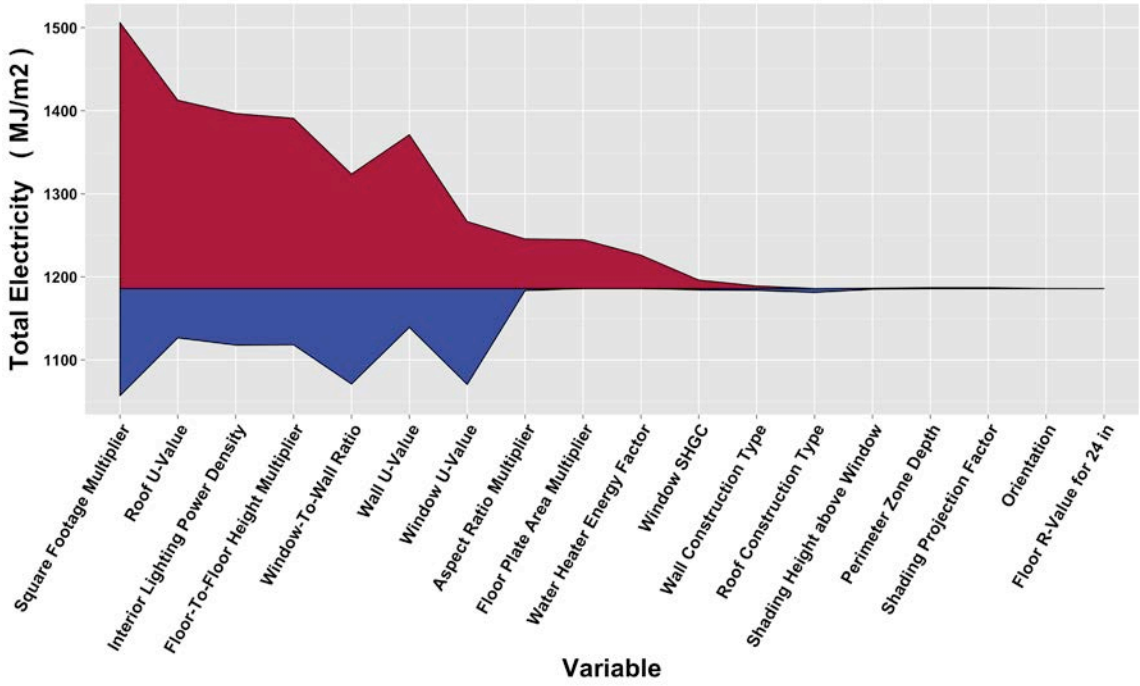
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	3749.09	3946.13
Floor Plate Area Multiplier	2550	5100	3757.33	3943.63
Square Footage Multiplier	1530	15300	3347.35	4774.72
Floor-To-Floor Height Multiplier	9.6	19.2	3542.74	4406.36
Perimeter Zone Depth	10	20	3757.23	3760.58
Floor R-Value for 24 in	0	0.01	3757.33	3757.33
Window-To-Wall Ratio	0	0.71	3392.95	4193.63
Window Sill Height	1	6	3757.33	3757.33
Window U-Value	0.12	1.22	3391.41	4012.78
Window SHGC	0.08	0.7	3751.93	3789.66
Window VLT	0.06	0.89	3757.33	3757.33
Wall Construction Type	masonry-on-masonry	wood-siding	3750.05	3766.91
Wall U-Value	0.03	0.58	3608.94	4343.92
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3742.23	3757.33
Roof U-Value	0.01	0.2	3568.99	4475.28
Daylighting Control Setpoint	0	0	3757.33	3757.33
Interior Lighting Power Density	0.38	3.79	3541.61	4424.66
Shading Projection Factor	0	1	3757.33	3760.69

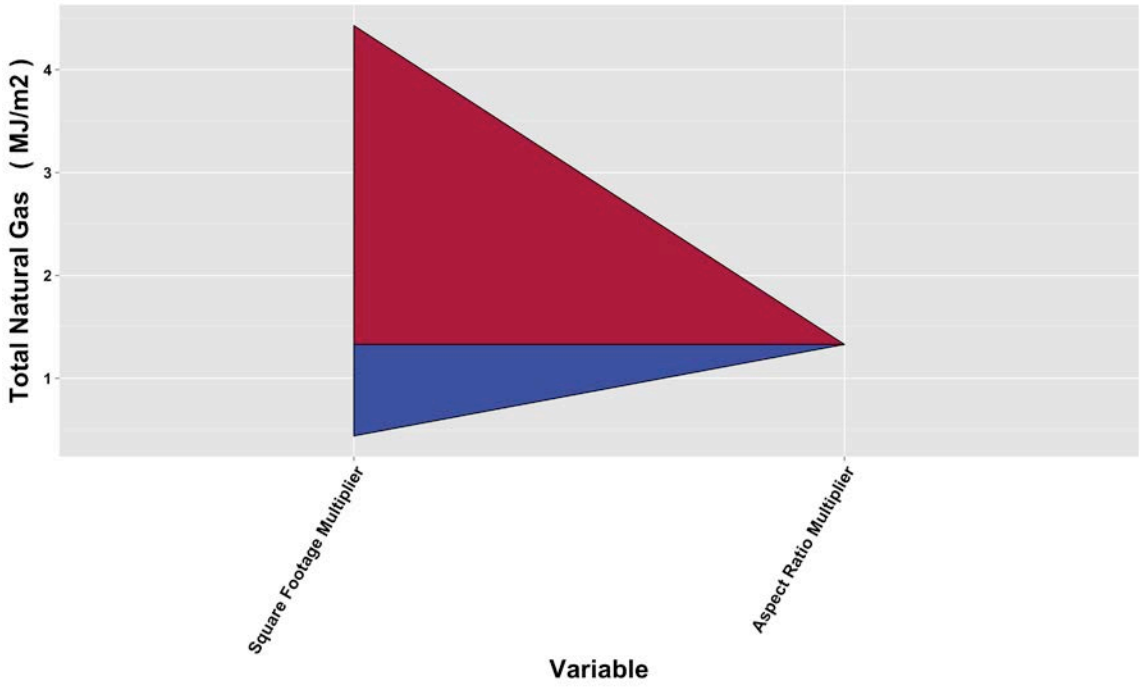
Shading Height above Window	0	2	3754.28	3758.50
District Chiller Cooling Efficiency	0.52	1.48	3757.33	3757.33
Gas Heating Efficiency	0.87	1.13	3757.33	3757.33
Terminal DX Cooling Efficiency	0.68	1.32	3757.33	3757.33
Terminal Furnace Heating Efficiency	0.87	1.13	3757.33	3757.33
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3757.33	3757.33
Water Heater Energy Factor	1	99	3757.33	3884.54
Orientation	0	359	3757.33	3757.63



Total Electricity



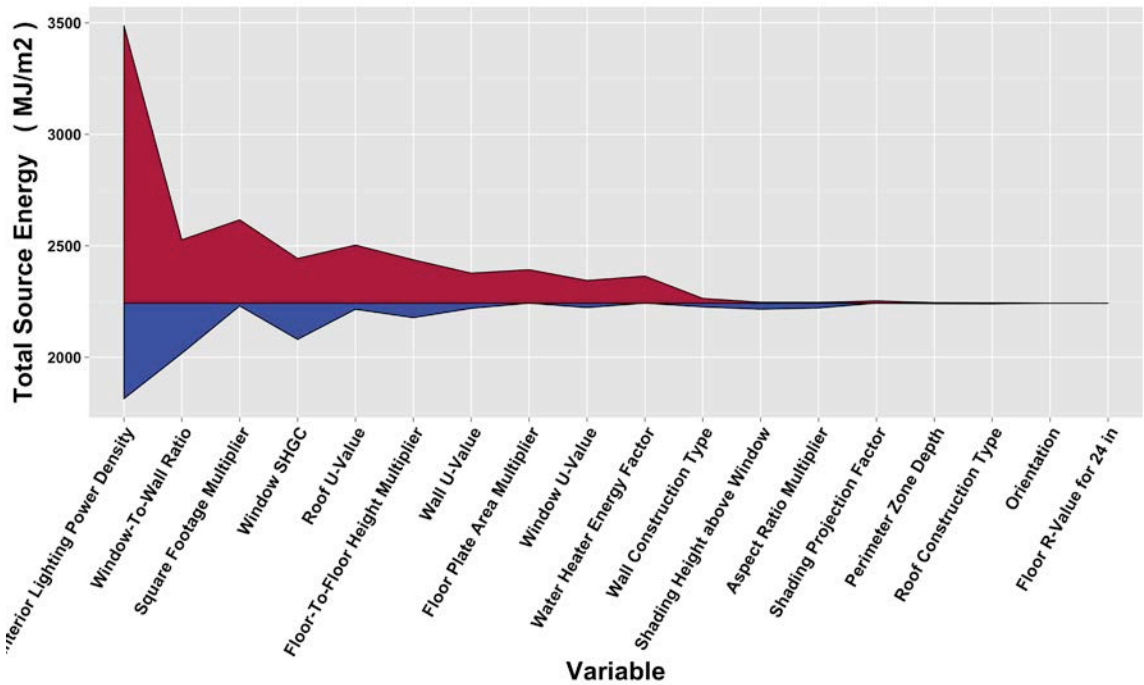
Total Natural Gas



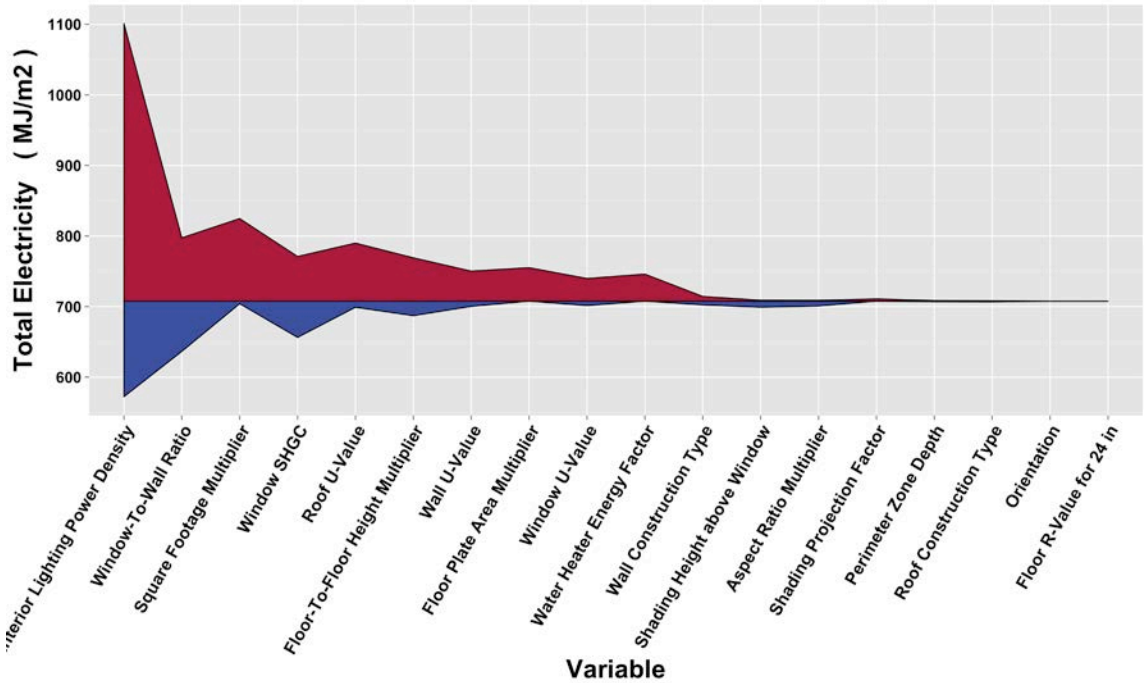
Location: Climate Zone 2B

Total Source Energy

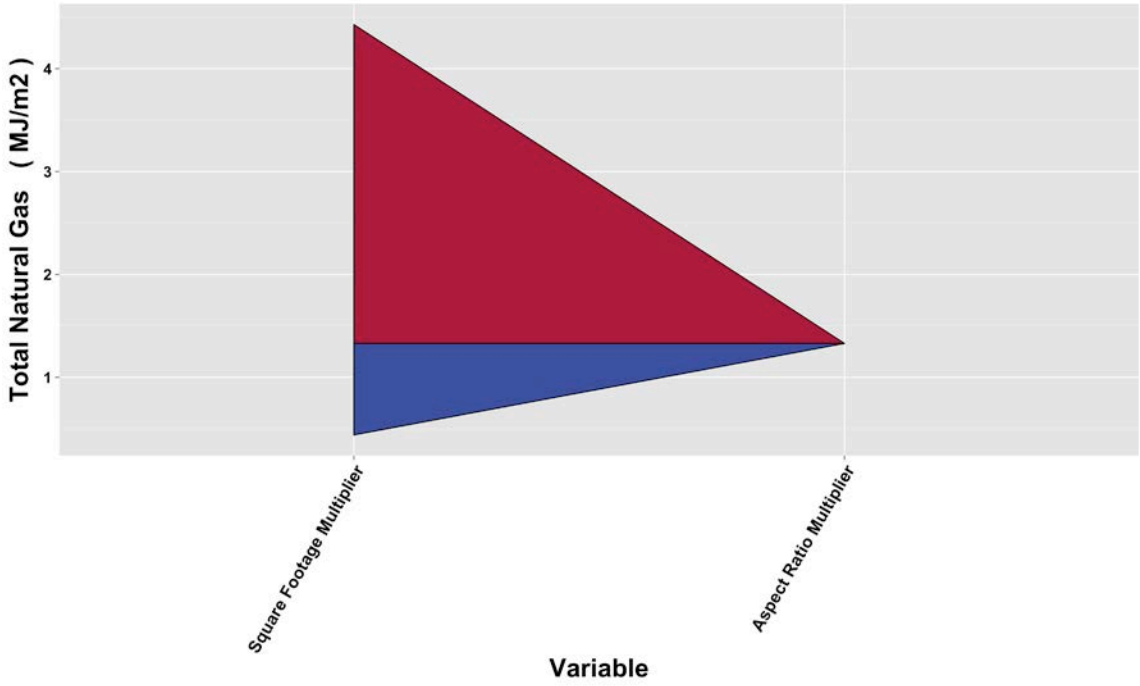
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2221.24	2246.42
Floor Plate Area Multiplier	2550	5100	2242.90	2393.04
Square Footage Multiplier	1530	15300	2230.23	2616.86
Floor-To-Floor Height Multiplier	9.6	19.2	2177.69	2437.42
Perimeter Zone Depth	10	20	2239.89	2245.34
Floor R-Value for 24 in	0	0.01	2242.90	2242.90
Window-To-Wall Ratio	0	0.71	2017.42	2527.12
Window Sill Height	1	6	2242.90	2242.90
Window U-Value	0.12	1.22	2222.99	2344.61
Window SHGC	0.08	0.7	2080.06	2443.33
Window VLT	0.06	0.89	2242.90	2242.90
Wall Construction Type	masonry-on-masonry	wood-siding	2226.18	2263.99
Wall U-Value	0.03	0.58	2219.45	2377.53
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2239.39	2244.51
Roof U-Value	0.01	0.2	2215.31	2503.33
Daylighting Control Setpoint	0	0	2242.90	2242.90
Interior Lighting Power Density	0.38	3.79	1813.88	3488.06
Shading Projection Factor	0	1	2242.90	2252.88
Shading Height above Window	0	2	2215.64	2246.87
District Chiller Cooling Efficiency	0.52	1.48	2242.90	2242.90
Gas Heating Efficiency	0.87	1.13	2242.90	2242.90
Terminal DX Cooling Efficiency	0.68	1.32	2242.90	2242.90
Terminal Furnace Heating Efficiency	0.87	1.13	2242.90	2242.90
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2242.90	2242.90
Water Heater Energy Factor	1	99	2242.90	2364.15
Orientation	0	359	2242.83	2243.28



Total Electricity



Total Natural Gas

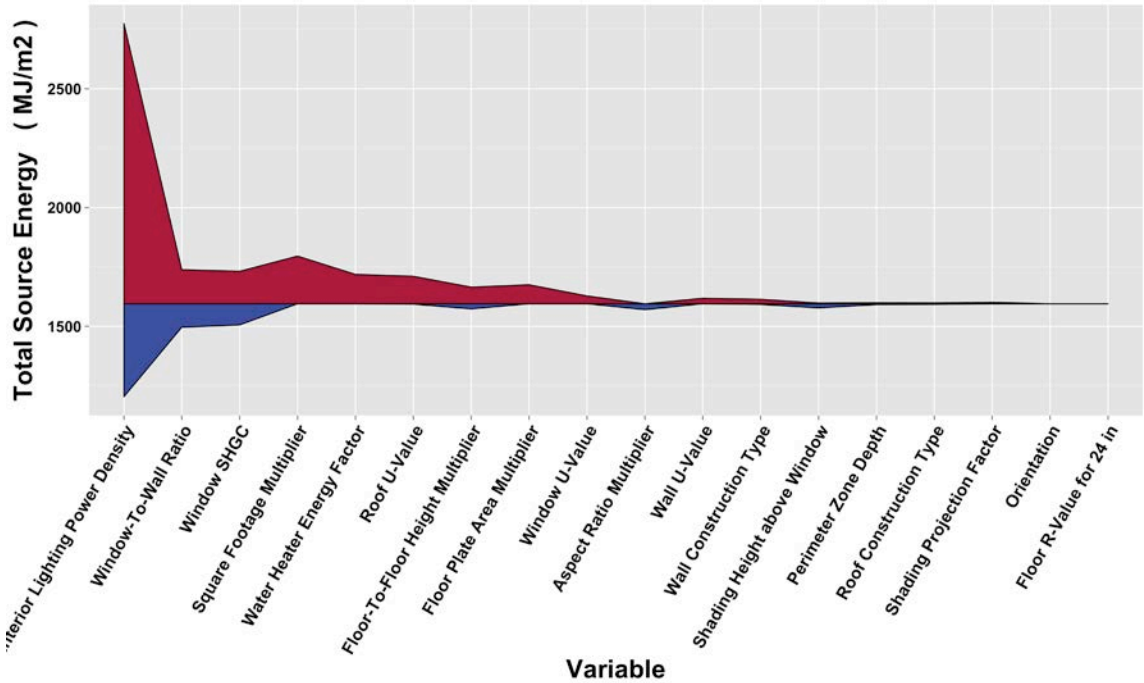


Location: Climate Zone 3A

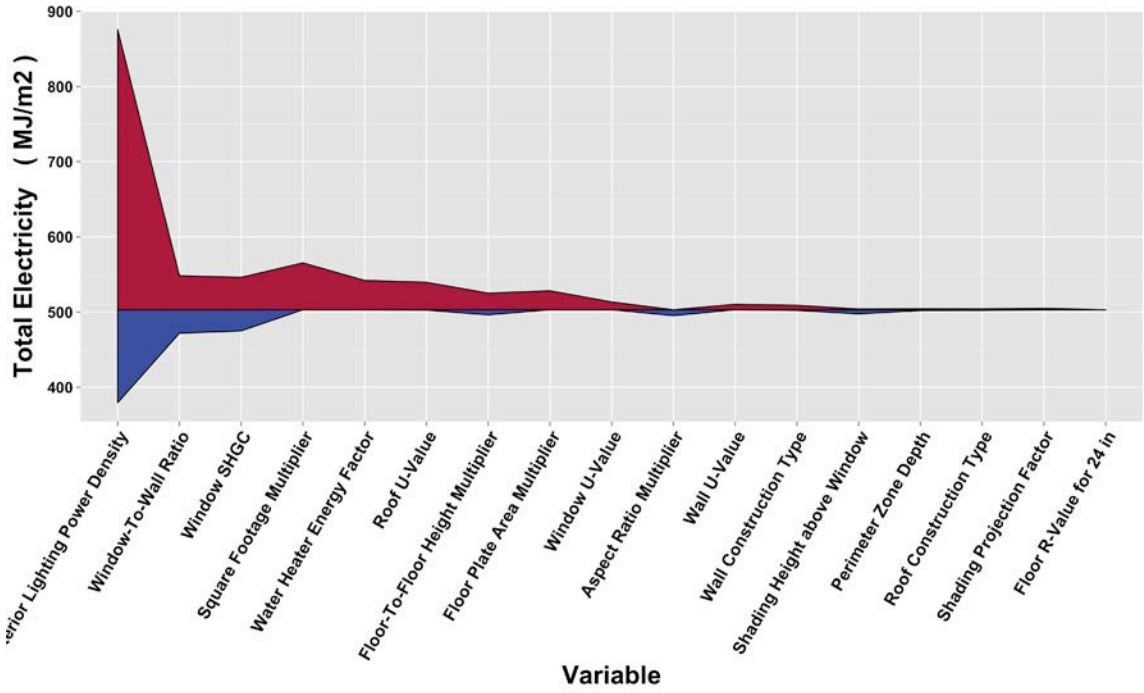
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	1569.88	1594.79
Floor Plate Area Multiplier	2550	5100	1594.79	1674.84
Square Footage Multiplier	1530	15300	1594.79	1795.73
Floor-To-Floor Height Multiplier	9.6	19.2	1573.20	1664.88
Perimeter Zone Depth	10	20	1591.26	1598.86
Floor R-Value for 24 in	0	0.01	1594.79	1594.79
Window-To-Wall Ratio	0	0.71	1495.87	1738.32
Window Sill Height	1	6	1594.79	1594.79
Window U-Value	0.12	1.22	1594.79	1627.82
Window SHGC	0.08	0.7	1505.75	1731.50
Window VLT	0.06	0.89	1594.79	1594.79
Wall Construction Type	masonry-on-masonry	wood-siding	1591.78	1613.64
Wall U-Value	0.03	0.58	1594.79	1617.98
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1591.90	1598.32
Roof U-Value	0.01	0.2	1593.08	1710.56
Daylighting Control Setpoint	0	0	1594.79	1594.79
Interior Lighting Power Density	0.38	3.79	1203.06	2774.85
Shading Projection Factor	0	1	1594.79	1601.07

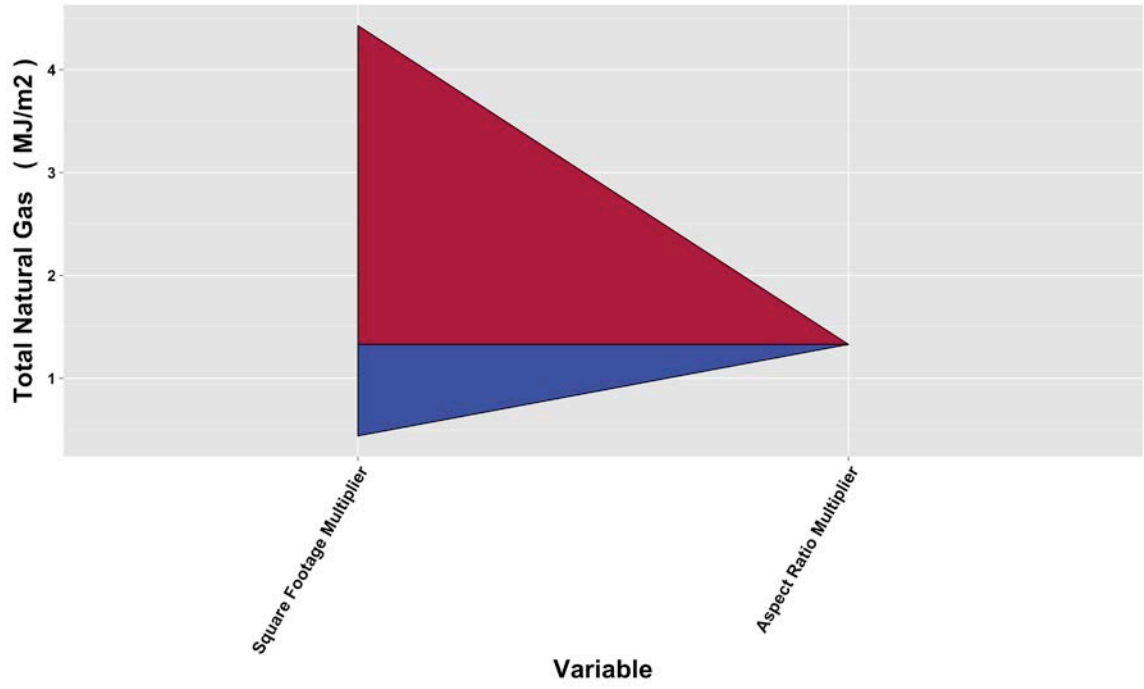
Shading Height above Window	0	2	1577.35	1597.94
District Chiller Cooling Efficiency	0.52	1.48	1594.79	1594.79
Gas Heating Efficiency	0.87	1.13	1594.79	1594.79
Terminal DX Cooling Efficiency	0.68	1.32	1594.79	1594.79
Terminal Furnace Heating Efficiency	0.87	1.13	1594.79	1594.79
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1594.79	1594.79
Water Heater Energy Factor	1	99	1594.79	1718.51
Orientation	0	359	1594.79	1594.80



Total Electricity



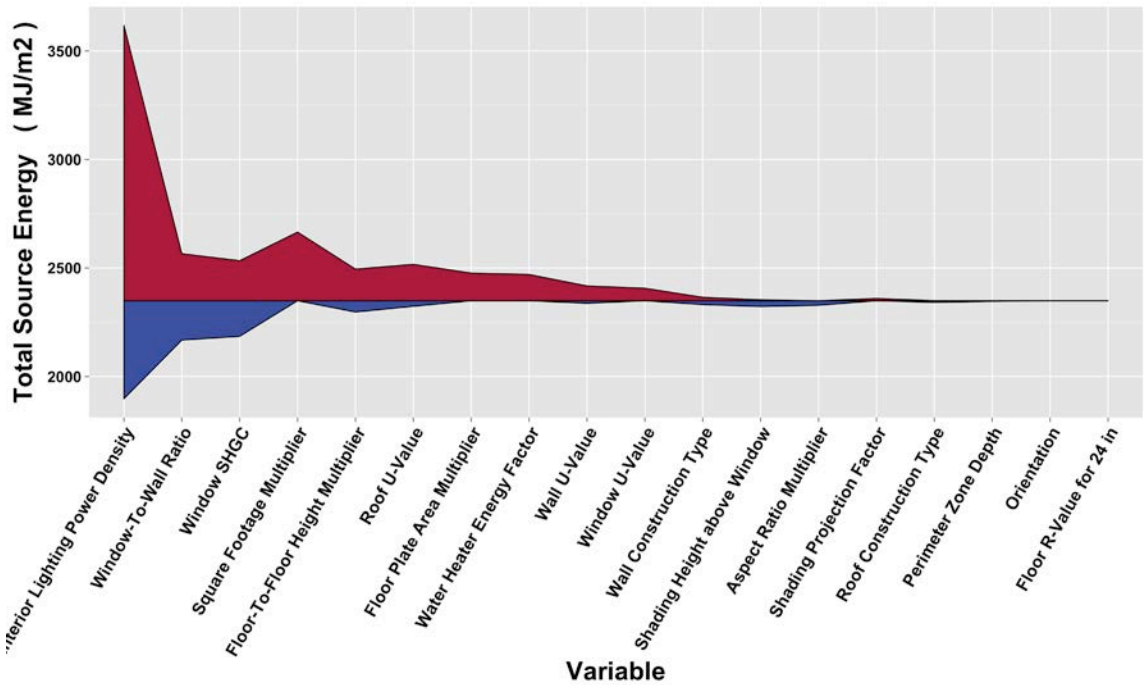
Total Natural Gas



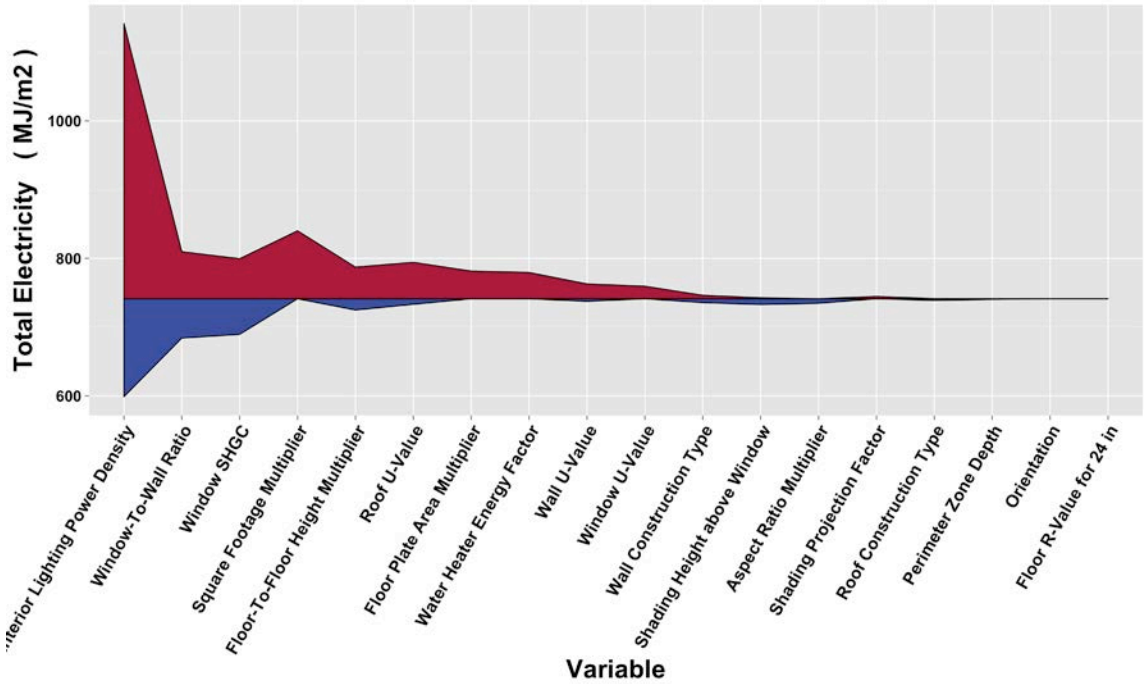
Location: Climate Zone 3B

Total Source Energy

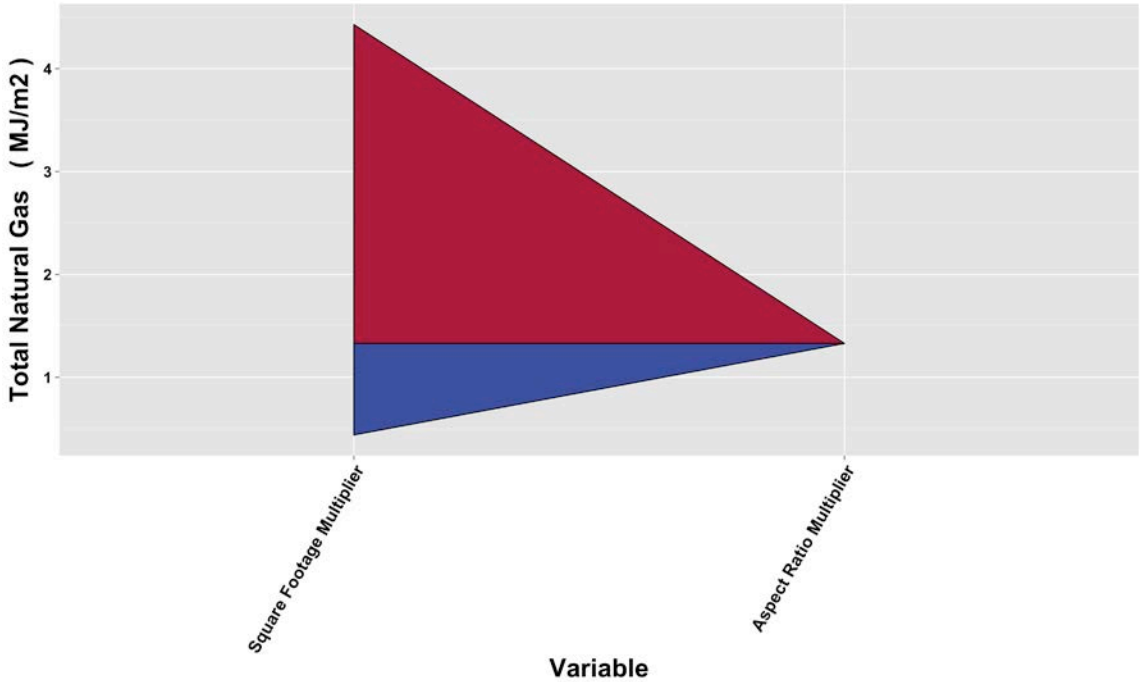
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2328.24	2349.01
Floor Plate Area Multiplier	2550	5100	2349.01	2476.43
Square Footage Multiplier	1530	15300	2349.01	2665.58
Floor-To-Floor Height Multiplier	9.6	19.2	2297.07	2494.83
Perimeter Zone Depth	10	20	2346.26	2349.01
Floor R-Value for 24 in	0	0.01	2349.01	2349.01
Window-To-Wall Ratio	0	0.71	2167.82	2565.86
Window Sill Height	1	6	2349.01	2349.01
Window U-Value	0.12	1.22	2349.01	2406.51
Window SHGC	0.08	0.7	2185.17	2533.59
Window VLT	0.06	0.89	2349.01	2349.01
Wall Construction Type	masonry-on-masonry	wood-siding	2331.37	2364.87
Wall U-Value	0.03	0.58	2337.30	2417.33
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2341.58	2349.51
Roof U-Value	0.01	0.2	2323.60	2516.78
Daylighting Control Setpoint	0	0	2349.01	2349.01
Interior Lighting Power Density	0.38	3.79	1897.36	3616.91
Shading Projection Factor	0	1	2349.01	2359.47
Shading Height above Window	0	2	2322.50	2353.33
District Chiller Cooling Efficiency	0.52	1.48	2349.01	2349.01
Gas Heating Efficiency	0.87	1.13	2349.01	2349.01
Terminal DX Cooling Efficiency	0.68	1.32	2349.01	2349.01
Terminal Furnace Heating Efficiency	0.87	1.13	2349.01	2349.01
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2349.01	2349.01
Water Heater Energy Factor	1	99	2349.01	2469.99
Orientation	0	359	2348.86	2349.01



Total Electricity



Total Natural Gas

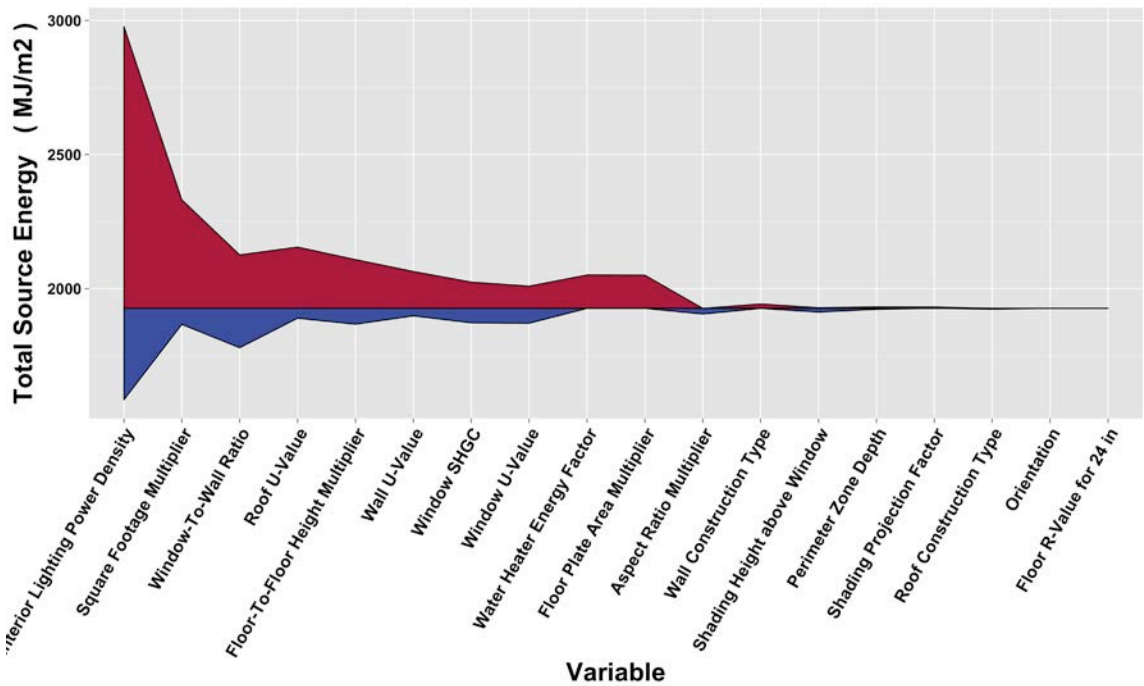


Location: Climate Zone 3C

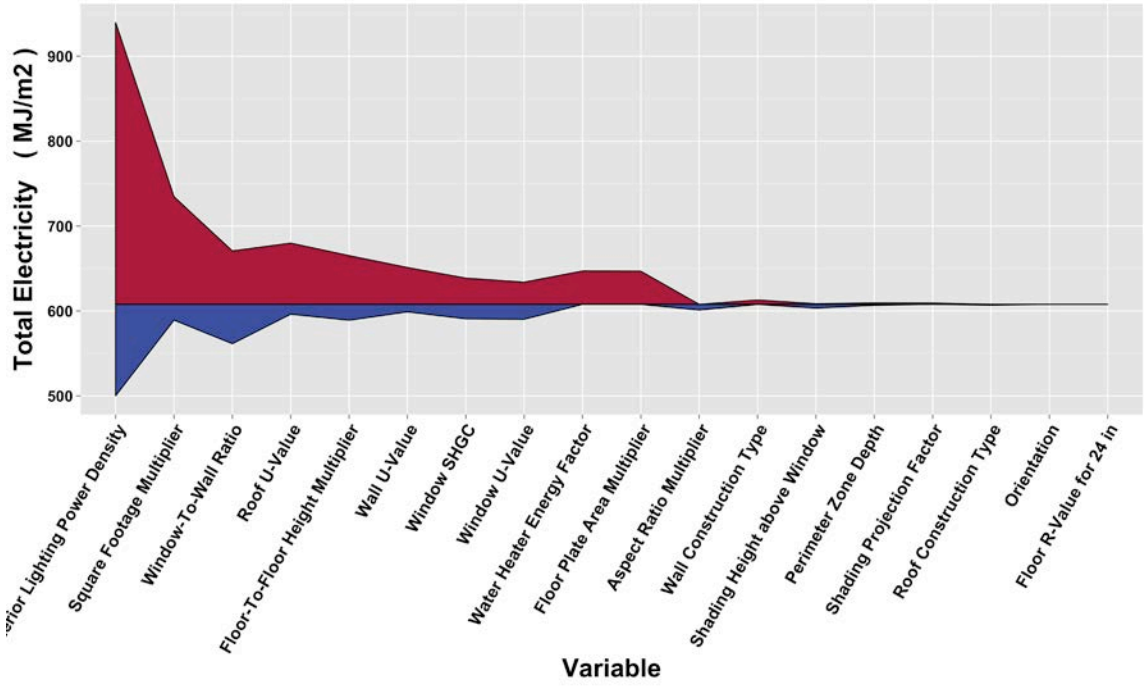
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	1905.30	1926.45
Floor Plate Area Multiplier	2550	5100	1926.45	2050.05
Square Footage Multiplier	1530	15300	1866.74	2331.33
Floor-To-Floor Height Multiplier	9.6	19.2	1867.28	2108.24
Perimeter Zone Depth	10	20	1923.16	1931.72
Floor R-Value for 24 in	0	0.01	1926.45	1926.45
Window-To-Wall Ratio	0	0.71	1779.63	2125.76
Window Sill Height	1	6	1926.45	1926.45
Window U-Value	0.12	1.22	1870.89	2009.17
Window SHGC	0.08	0.7	1872.52	2024.30
Window VLT	0.06	0.89	1926.45	1926.45
Wall Construction Type	masonry-on-masonry	wood-siding	1926.36	1942.65
Wall U-Value	0.03	0.58	1898.48	2063.86
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1923.59	1926.45
Roof U-Value	0.01	0.2	1889.77	2154.84
Daylighting Control Setpoint	0	0	1926.45	1926.45
Interior Lighting Power Density	0.38	3.79	1585.65	2977.04
Shading Projection Factor	0	1	1926.45	1931.31

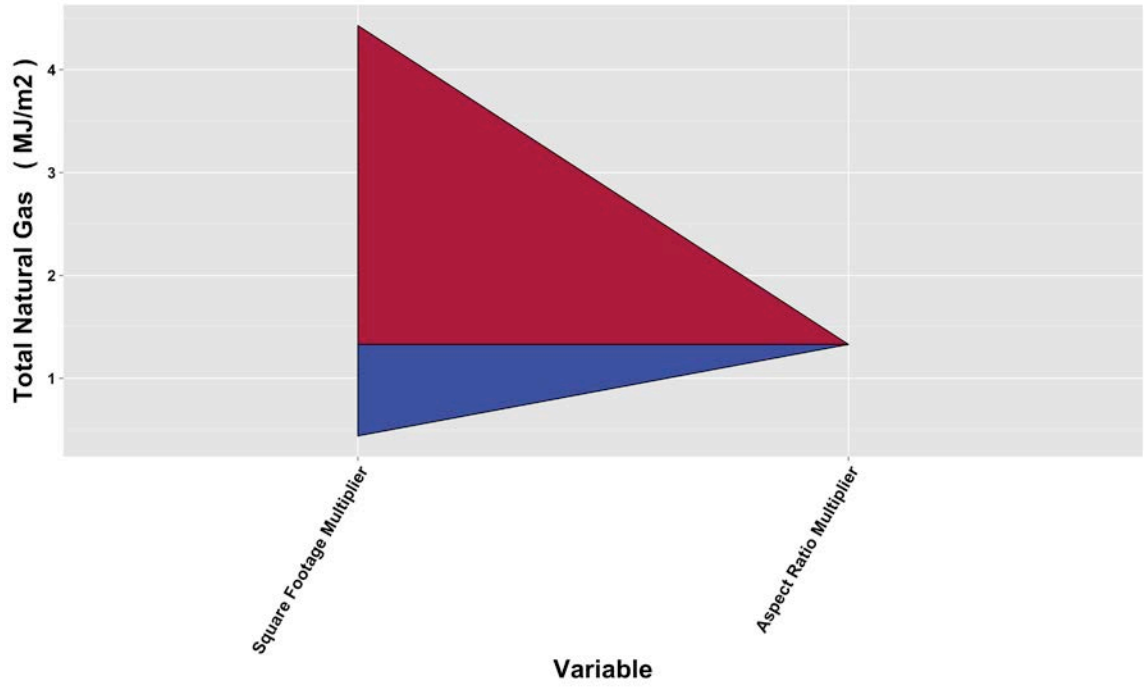
Shading Height above Window	0	2	1912.59	1928.74
District Chiller Cooling Efficiency	0.52	1.48	1926.45	1926.45
Gas Heating Efficiency	0.87	1.13	1926.45	1926.45
Terminal DX Cooling Efficiency	0.68	1.32	1926.45	1926.45
Terminal Furnace Heating Efficiency	0.87	1.13	1926.45	1926.45
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1926.45	1926.45
Water Heater Energy Factor	1	99	1926.45	2050.80
Orientation	0	359	1926.39	1926.54



Total Electricity



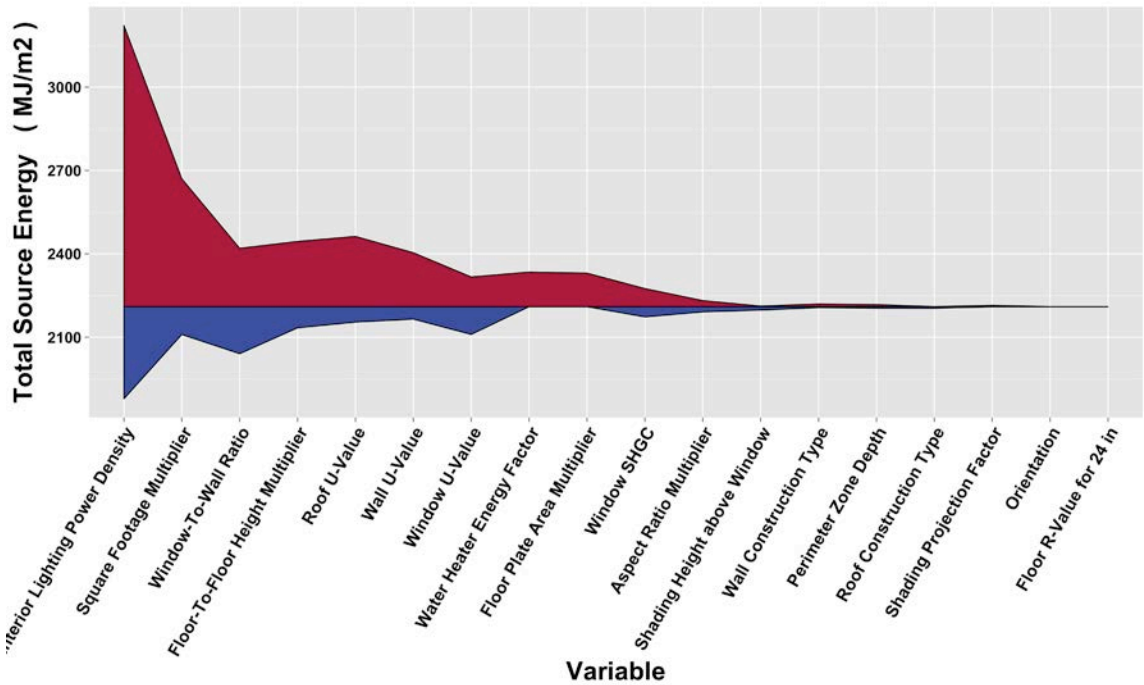
Total Natural Gas



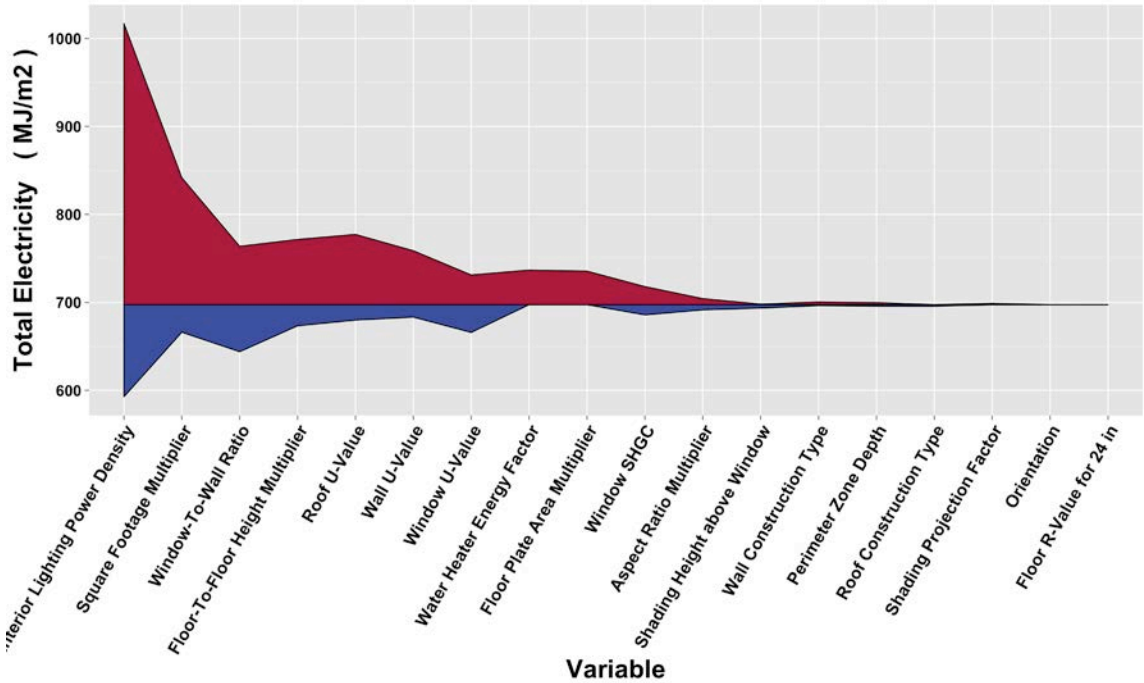
Location: Climate Zone 4A

Total Source Energy

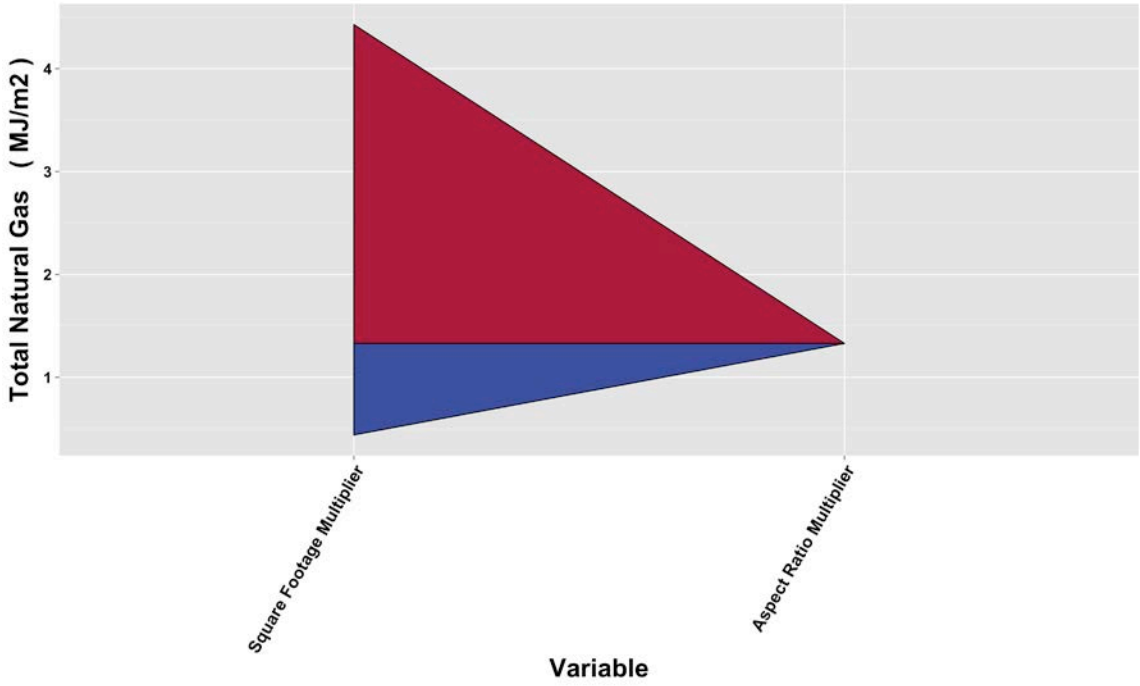
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2191.46	2231.82
Floor Plate Area Multiplier	2550	5100	2210.11	2330.71
Square Footage Multiplier	1530	15300	2109.93	2670.36
Floor-To-Floor Height Multiplier	9.6	19.2	2133.94	2444.77
Perimeter Zone Depth	10	20	2204.75	2217.38
Floor R-Value for 24 in	0	0.01	2210.11	2210.11
Window-To-Wall Ratio	0	0.71	2040.82	2420.03
Window Sill Height	1	6	2210.11	2210.11
Window U-Value	0.12	1.22	2110.26	2316.95
Window SHGC	0.08	0.7	2173.30	2275.12
Window VLT	0.06	0.89	2210.11	2210.11
Wall Construction Type	masonry-on-masonry	wood-siding	2206.71	2219.73
Wall U-Value	0.03	0.58	2165.38	2404.19
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2204.47	2210.11
Roof U-Value	0.01	0.2	2154.72	2462.86
Daylighting Control Setpoint	0	0	2210.11	2210.11
Interior Lighting Power Density	0.38	3.79	1878.61	3221.74
Shading Projection Factor	0	1	2210.11	2214.64
Shading Height above Window	0	2	2197.96	2212.05
District Chiller Cooling Efficiency	0.52	1.48	2210.11	2210.11
Gas Heating Efficiency	0.87	1.13	2210.11	2210.11
Terminal DX Cooling Efficiency	0.68	1.32	2210.11	2210.11
Terminal Furnace Heating Efficiency	0.87	1.13	2210.11	2210.11
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2210.11	2210.11
Water Heater Energy Factor	1	99	2210.11	2334.51
Orientation	0	359	2210.03	2210.11



Total Electricity



Total Natural Gas

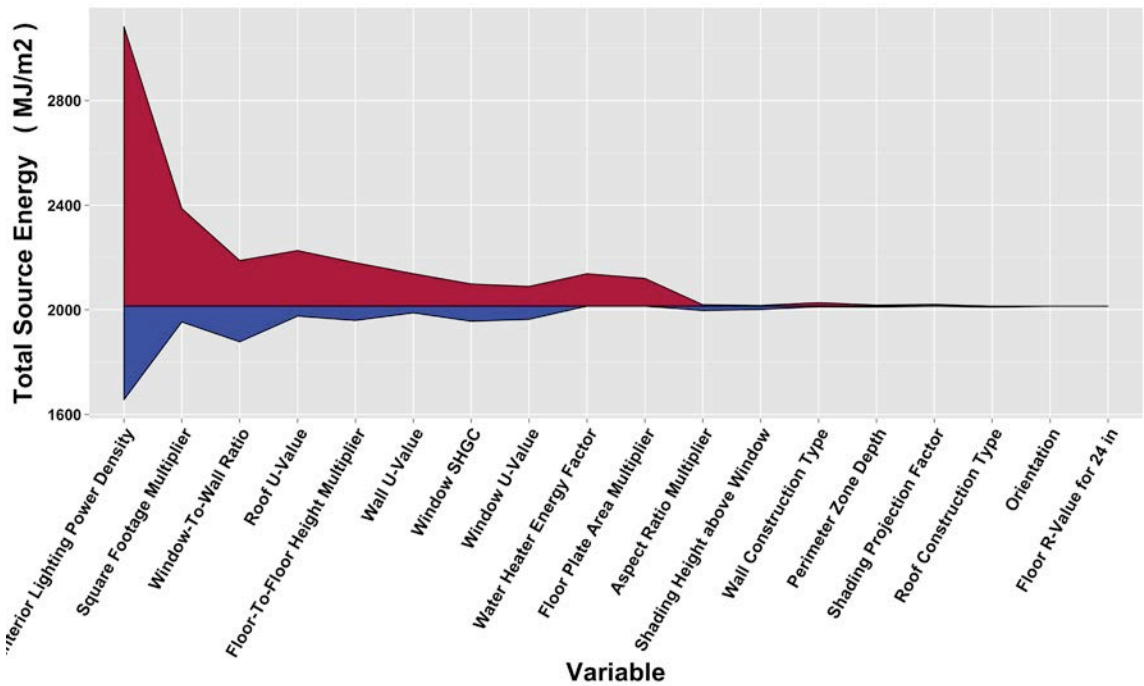


Location: Climate Zone 4B

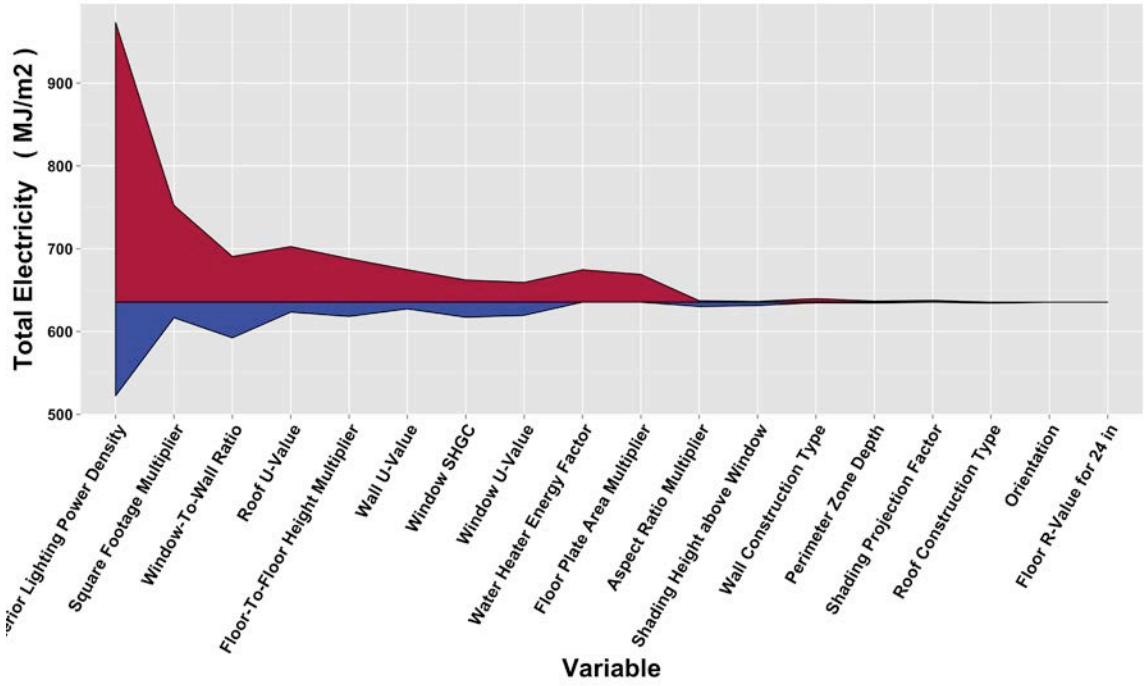
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	1997.35	2019.57
Floor Plate Area Multiplier	2550	5100	2014.07	2120.33
Square Footage Multiplier	1530	15300	1953.61	2387.29
Floor-To-Floor Height Multiplier	9.6	19.2	1959.42	2180.35
Perimeter Zone Depth	10	20	2010.88	2018.08
Floor R-Value for 24 in	0	0.01	2014.07	2014.07
Window-To-Wall Ratio	0	0.71	1877.72	2188.67
Window Sill Height	1	6	2014.07	2014.07
Window U-Value	0.12	1.22	1963.70	2089.59
Window SHGC	0.08	0.7	1956.29	2098.89
Window VLT	0.06	0.89	2014.07	2014.07
Wall Construction Type	masonry-on-masonry	wood-siding	2012.12	2027.55
Wall U-Value	0.03	0.58	1988.43	2138.20
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2010.47	2014.07
Roof U-Value	0.01	0.2	1975.90	2226.66
Daylighting Control Setpoint	0	0	2014.07	2014.07
Interior Lighting Power Density	0.38	3.79	1656.23	3082.84
Shading Projection Factor	0	1	2014.07	2020.62

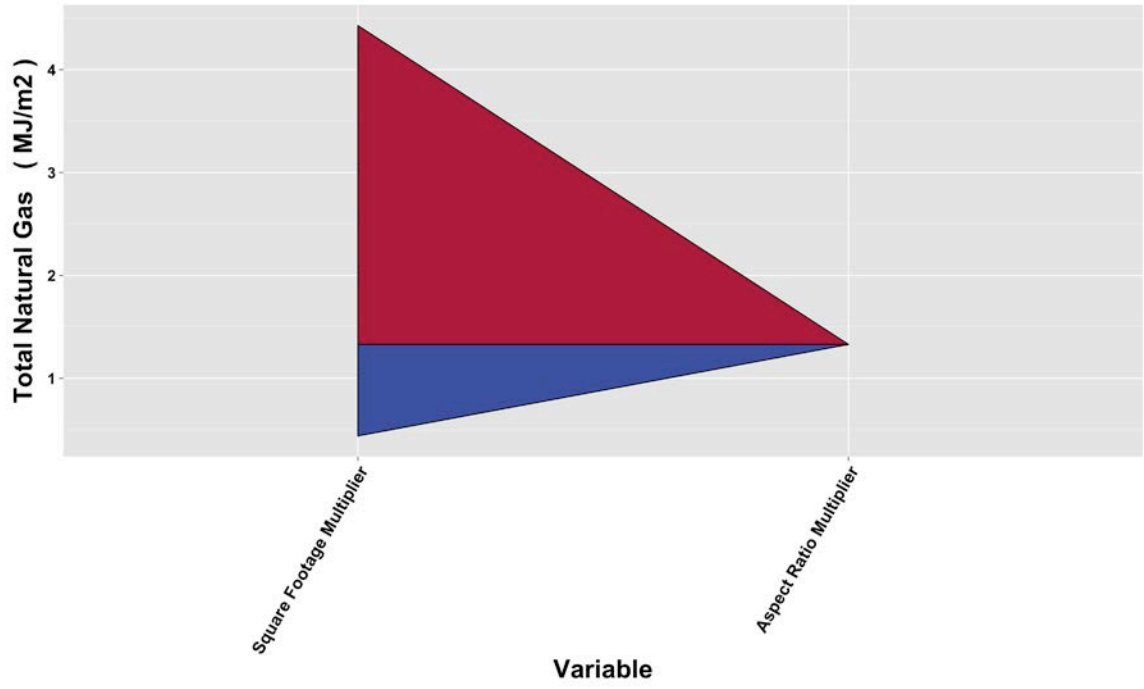
Shading Height above Window	0	2	2001.22	2016.99
District Chiller Cooling Efficiency	0.52	1.48	2014.07	2014.07
Gas Heating Efficiency	0.87	1.13	2014.07	2014.07
Terminal DX Cooling Efficiency	0.68	1.32	2014.07	2014.07
Terminal Furnace Heating Efficiency	0.87	1.13	2014.07	2014.07
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2014.07	2014.07
Water Heater Energy Factor	1	99	2014.07	2138.07
Orientation	0	359	2014.01	2014.07



Total Electricity



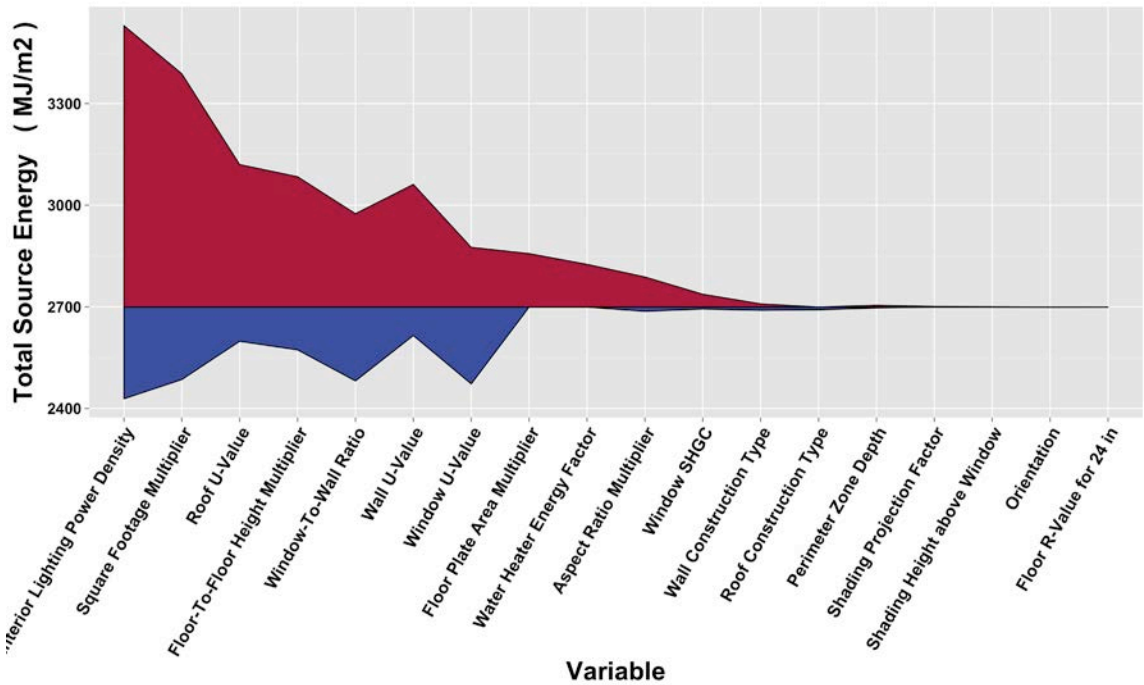
Total Natural Gas



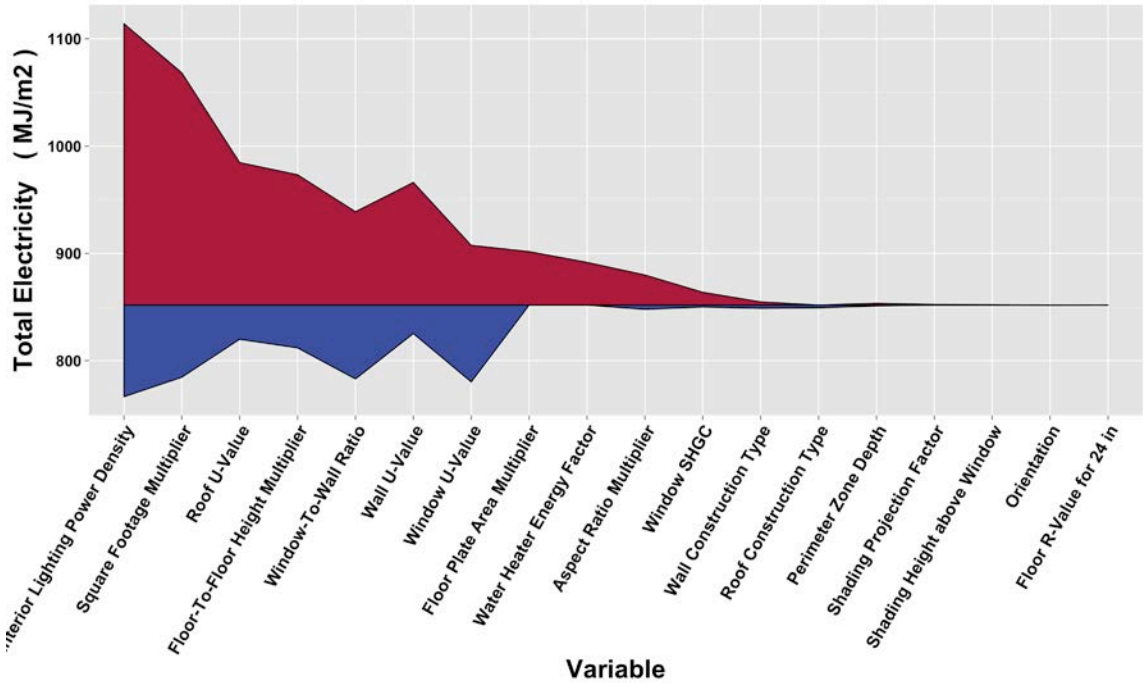
Location: Climate Zone 4C

Total Source Energy

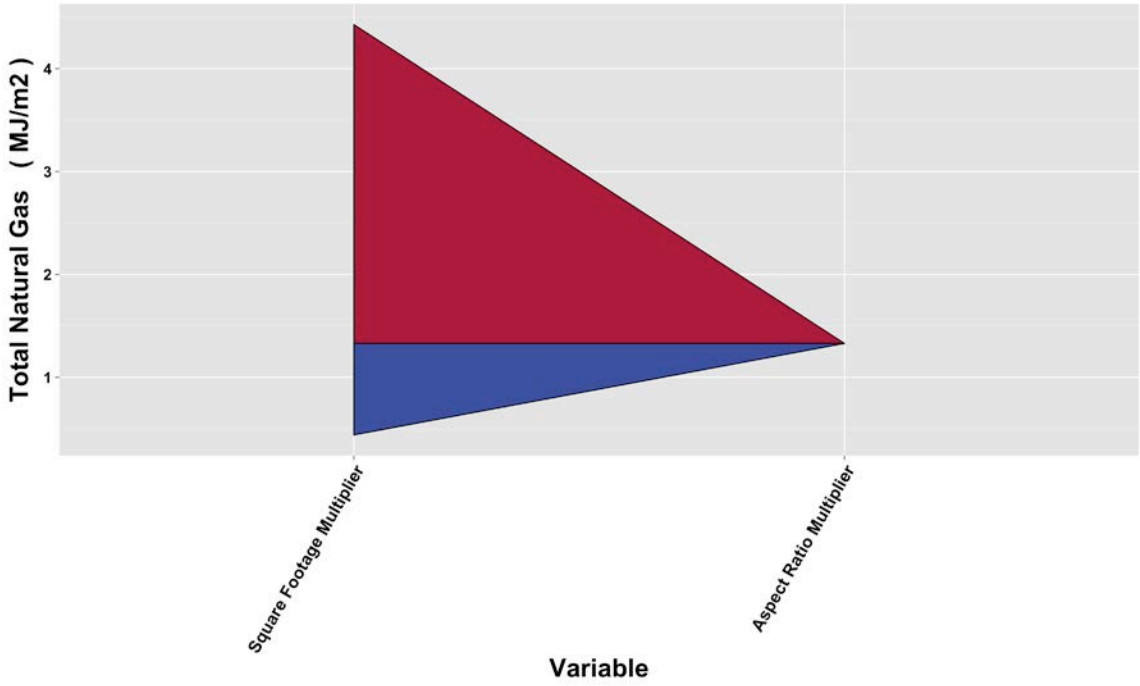
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2686.82	2788.08
Floor Plate Area Multiplier	2550	5100	2699.32	2857.02
Square Footage Multiplier	1530	15300	2485.35	3388.01
Floor-To-Floor Height Multiplier	9.6	19.2	2573.00	3083.98
Perimeter Zone Depth	10	20	2696.79	2704.55
Floor R-Value for 24 in	0	0.01	2699.32	2699.32
Window-To-Wall Ratio	0	0.71	2481.30	2974.85
Window Sill Height	1	6	2699.32	2699.32
Window U-Value	0.12	1.22	2472.53	2875.56
Window SHGC	0.08	0.7	2693.68	2737.09
Window VLT	0.06	0.89	2699.32	2699.32
Wall Construction Type	masonry-on-masonry	wood-siding	2689.70	2708.63
Wall U-Value	0.03	0.58	2615.26	3061.32
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2691.30	2699.32
Roof U-Value	0.01	0.2	2598.41	3119.80
Daylighting Control Setpoint	0	0	2699.32	2699.32
Interior Lighting Power Density	0.38	3.79	2428.64	3530.07
Shading Projection Factor	0	1	2699.32	2701.06
Shading Height above Window	0	2	2699.32	2700.35
District Chiller Cooling Efficiency	0.52	1.48	2699.32	2699.32
Gas Heating Efficiency	0.87	1.13	2699.32	2699.32
Terminal DX Cooling Efficiency	0.68	1.32	2699.32	2699.32
Terminal Furnace Heating Efficiency	0.87	1.13	2699.32	2699.32
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2699.32	2699.32
Water Heater Energy Factor	1	99	2699.32	2825.31
Orientation	0	359	2698.73	2699.32



Total Electricity



Total Natural Gas

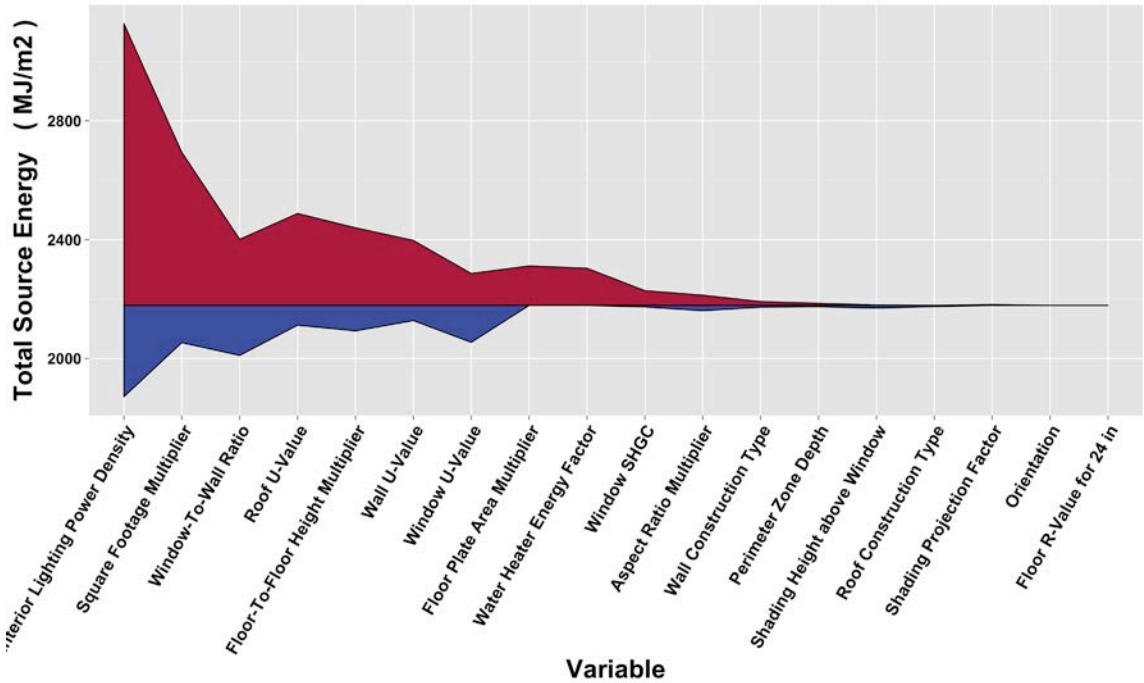


Location: Climate Zone 5A

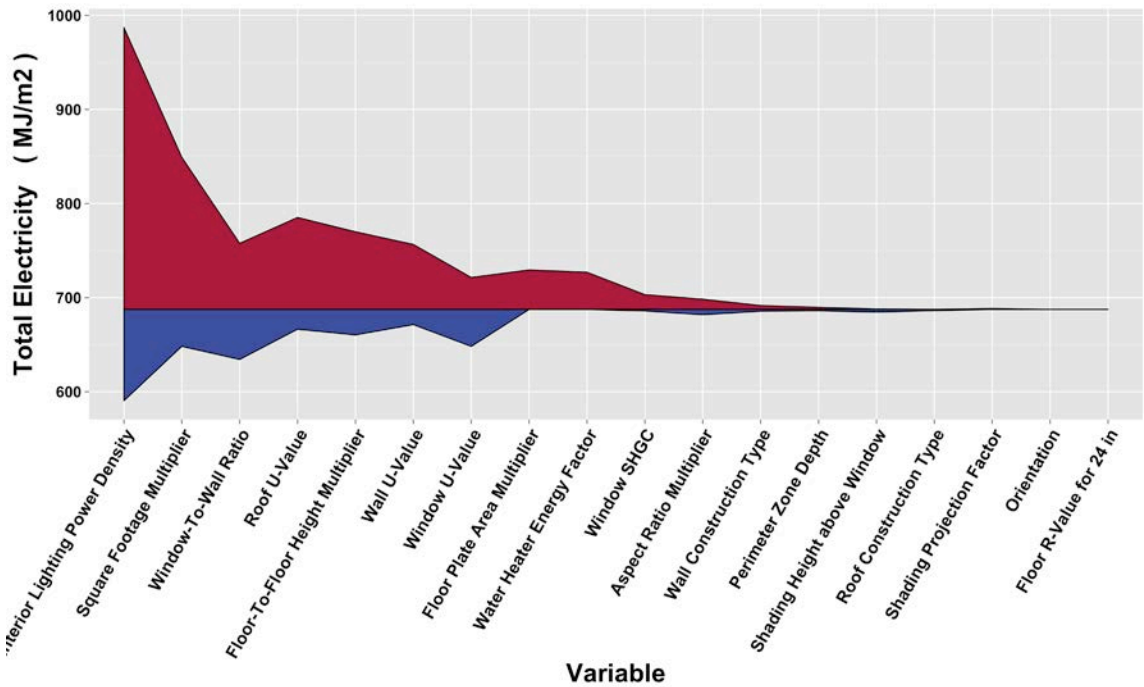
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2160.95	2213.10
Floor Plate Area Multiplier	2550	5100	2178.67	2311.65
Square Footage Multiplier	1530	15300	2053.40	2694.07
Floor-To-Floor Height Multiplier	9.6	19.2	2092.99	2440.10
Perimeter Zone Depth	10	20	2174.20	2185.71
Floor R-Value for 24 in	0	0.01	2178.67	2178.67
Window-To-Wall Ratio	0	0.71	2010.47	2401.27
Window Sill Height	1	6	2178.67	2178.67
Window U-Value	0.12	1.22	2054.36	2286.20
Window SHGC	0.08	0.7	2173.69	2228.46
Window VLT	0.06	0.89	2178.67	2178.67
Wall Construction Type	masonry-on-masonry	wood-siding	2172.88	2191.69
Wall U-Value	0.03	0.58	2127.66	2397.55
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2174.84	2178.67
Roof U-Value	0.01	0.2	2112.19	2488.25
Daylighting Control Setpoint	0	0	2178.67	2178.67
Interior Lighting Power Density	0.38	3.79	1871.31	3127.23
Shading Projection Factor	0	1	2178.67	2181.86

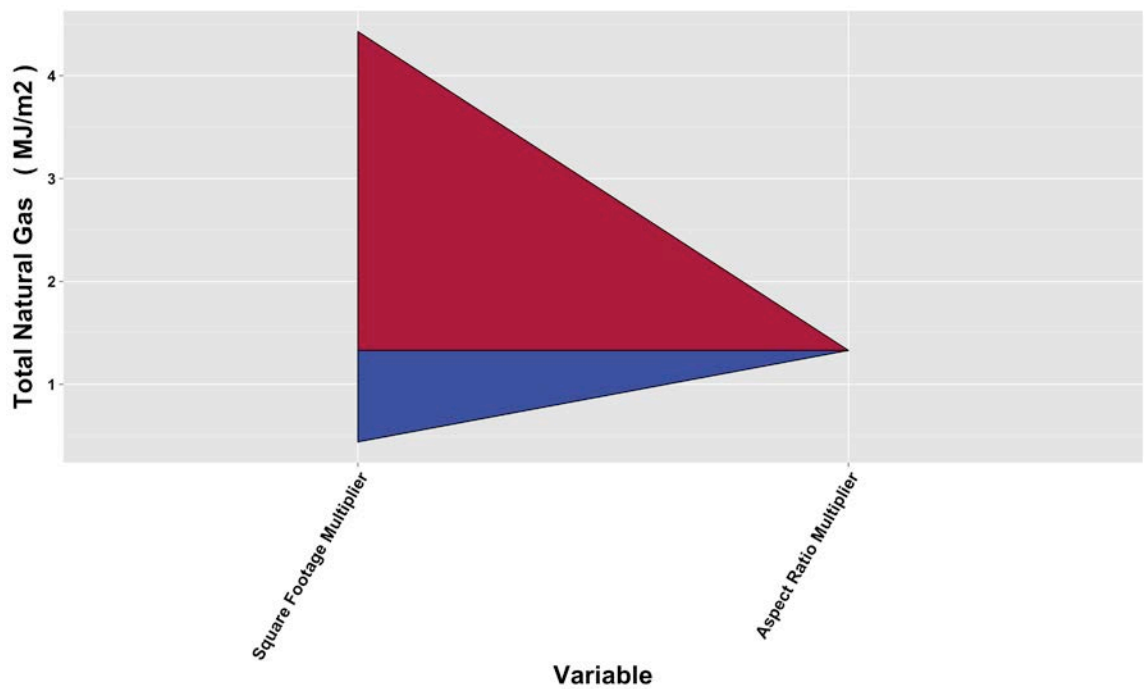
Shading Height above Window	0	2	2169.72	2180.33
District Chiller Cooling Efficiency	0.52	1.48	2178.67	2178.67
Gas Heating Efficiency	0.87	1.13	2178.67	2178.67
Terminal DX Cooling Efficiency	0.68	1.32	2178.67	2178.67
Terminal Furnace Heating Efficiency	0.87	1.13	2178.67	2178.67
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2178.67	2178.67
Water Heater Energy Factor	1	99	2178.67	2303.87
Orientation	0	359	2178.59	2178.69



Total Electricity



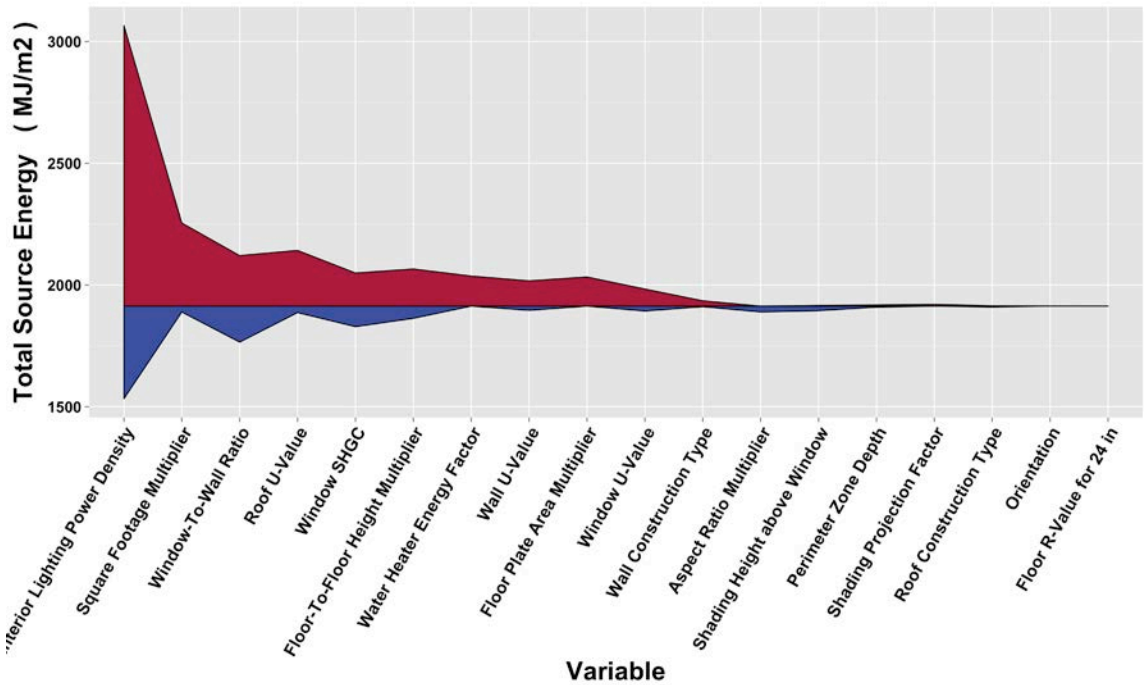
Total Natural Gas



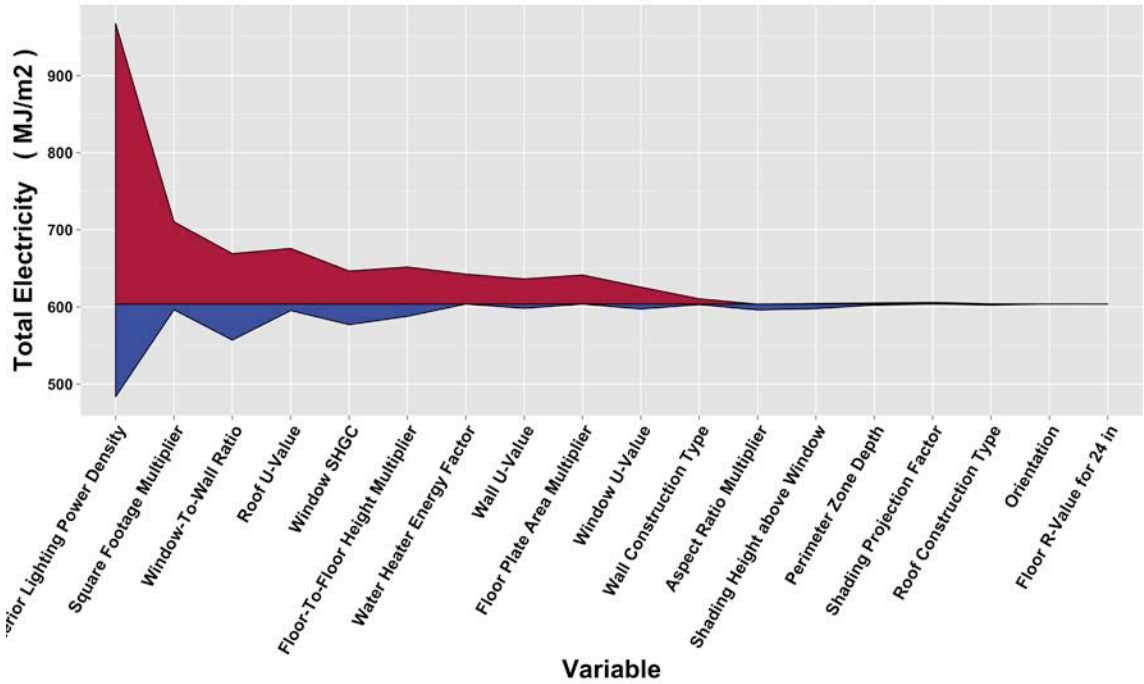
Location: Climate Zone 5B

Total Source Energy

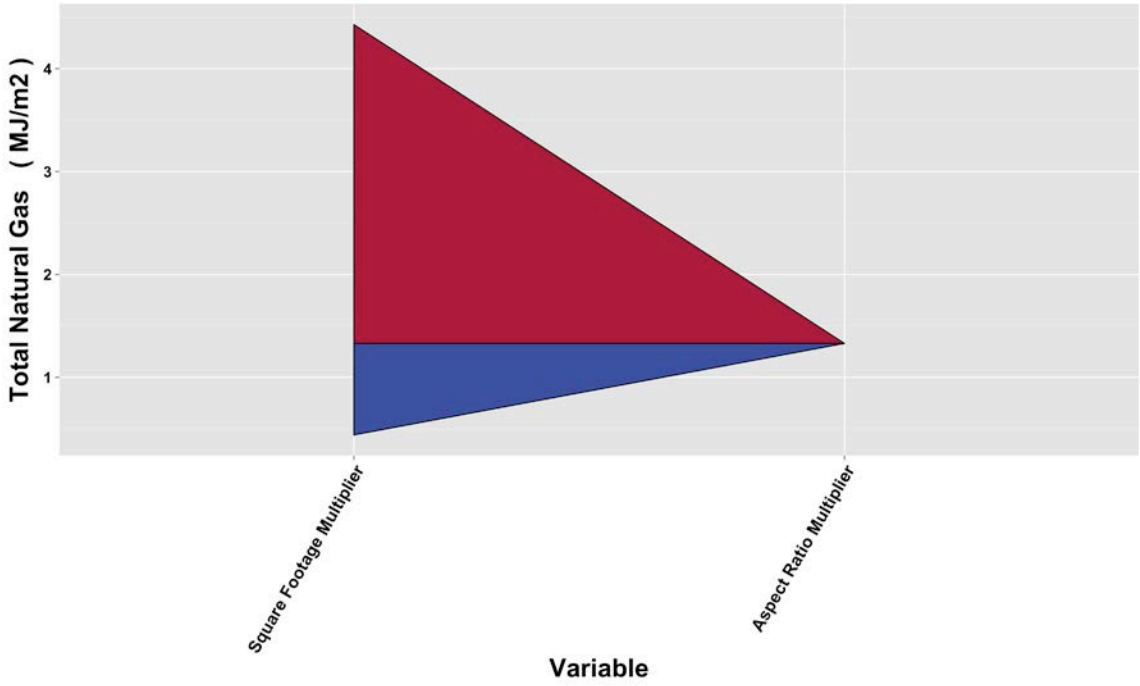
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	1889.09	1913.11
Floor Plate Area Multiplier	2550	5100	1913.11	2032.99
Square Footage Multiplier	1530	15300	1888.86	2254.68
Floor-To-Floor Height Multiplier	9.6	19.2	1862.96	2065.77
Perimeter Zone Depth	10	20	1908.99	1917.88
Floor R-Value for 24 in	0	0.01	1913.11	1913.11
Window-To-Wall Ratio	0	0.71	1765.18	2120.71
Window Sill Height	1	6	1913.11	1913.11
Window U-Value	0.12	1.22	1893.08	1983.29
Window SHGC	0.08	0.7	1828.69	2049.19
Window VLT	0.06	0.89	1913.11	1913.11
Wall Construction Type	masonry-on-masonry	wood-siding	1910.84	1935.08
Wall U-Value	0.03	0.58	1895.86	2016.87
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1909.58	1914.46
Roof U-Value	0.01	0.2	1886.57	2142.02
Daylighting Control Setpoint	0	0	1913.11	1913.11
Interior Lighting Power Density	0.38	3.79	1532.62	3065.42
Shading Projection Factor	0	1	1913.11	1920.39
Shading Height above Window	0	2	1894.48	1916.04
District Chiller Cooling Efficiency	0.52	1.48	1913.11	1913.11
Gas Heating Efficiency	0.87	1.13	1913.11	1913.11
Terminal DX Cooling Efficiency	0.68	1.32	1913.11	1913.11
Terminal Furnace Heating Efficiency	0.87	1.13	1913.11	1913.11
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1913.11	1913.11
Water Heater Energy Factor	1	99	1913.11	2036.60
Orientation	0	359	1913.10	1913.36



Total Electricity



Total Natural Gas

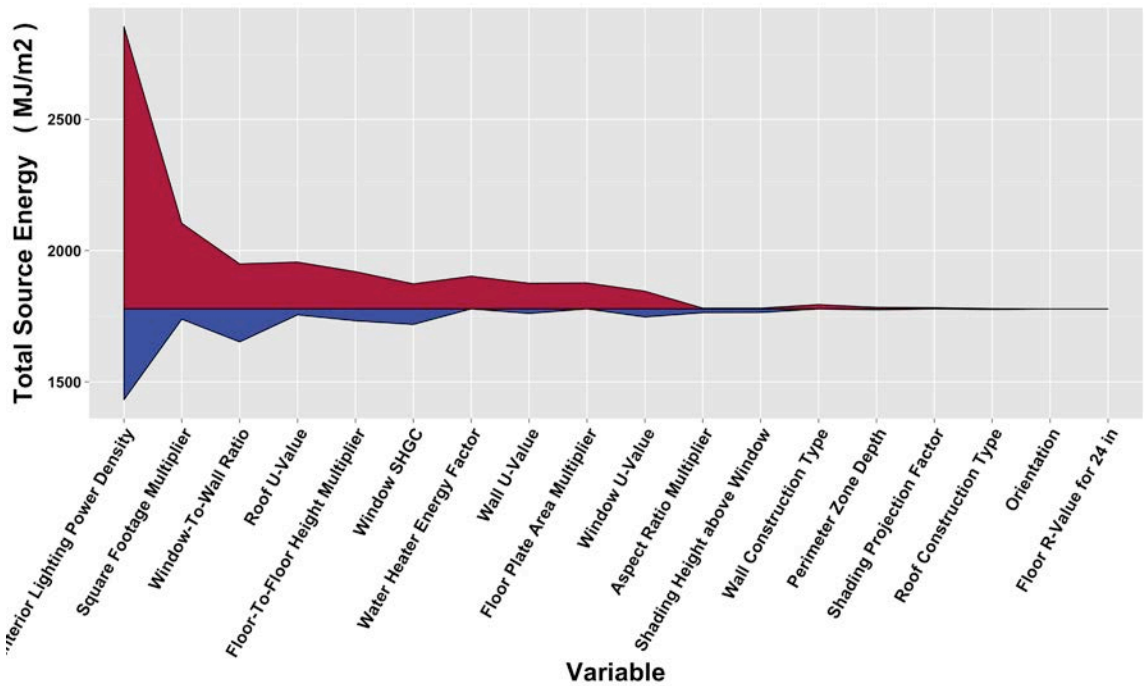


Location: Climate Zone 5C

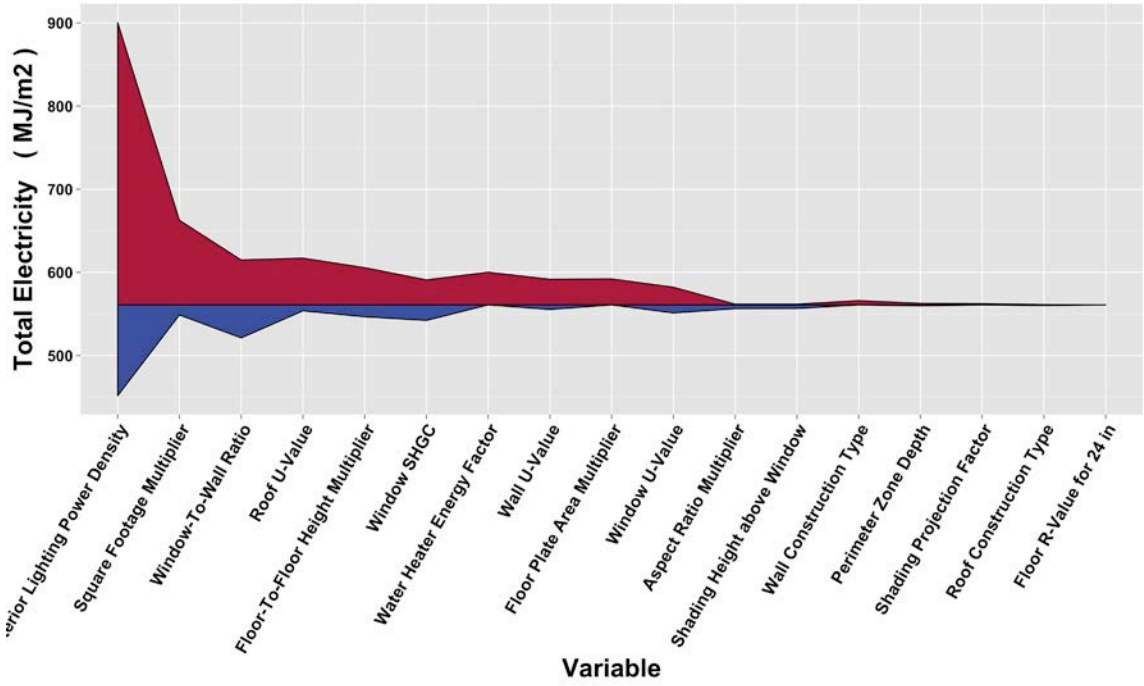
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	1763.66	1780.84
Floor Plate Area Multiplier	2550	5100	1777.99	1876.92
Square Footage Multiplier	1530	15300	1738.66	2103.92
Floor-To-Floor Height Multiplier	9.6	19.2	1732.78	1919.79
Perimeter Zone Depth	10	20	1774.17	1783.85
Floor R-Value for 24 in	0	0.01	1777.99	1777.99
Window-To-Wall Ratio	0	0.71	1652.19	1949.18
Window Sill Height	1	6	1777.99	1777.99
Window U-Value	0.12	1.22	1747.12	1845.34
Window SHGC	0.08	0.7	1718.72	1873.36
Window VLT	0.06	0.89	1777.99	1777.99
Wall Construction Type	masonry-on-masonry	wood-siding	1777.92	1794.43
Wall U-Value	0.03	0.58	1760.53	1875.64
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1775.77	1779.00
Roof U-Value	0.01	0.2	1755.24	1956.13
Daylighting Control Setpoint	0	0	1777.99	1777.99
Interior Lighting Power Density	0.38	3.79	1431.92	2853.15
Shading Projection Factor	0	1	1777.99	1782.88

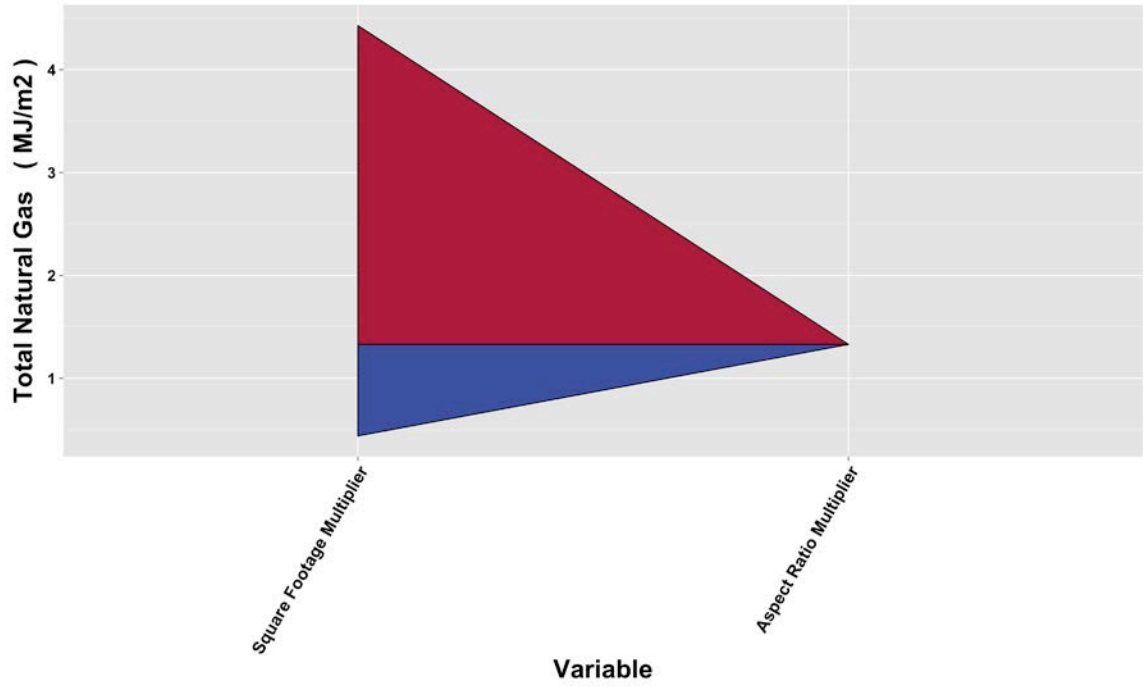
Shading Height above Window	0	2	1764.24	1780.82
District Chiller Cooling Efficiency	0.52	1.48	1777.99	1777.99
Gas Heating Efficiency	0.87	1.13	1777.99	1777.99
Terminal DX Cooling Efficiency	0.68	1.32	1777.99	1777.99
Terminal Furnace Heating Efficiency	0.87	1.13	1777.99	1777.99
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1777.99	1777.99
Water Heater Energy Factor	1	99	1777.99	1902.51
Orientation	0	359	1777.93	1777.99



Total Electricity



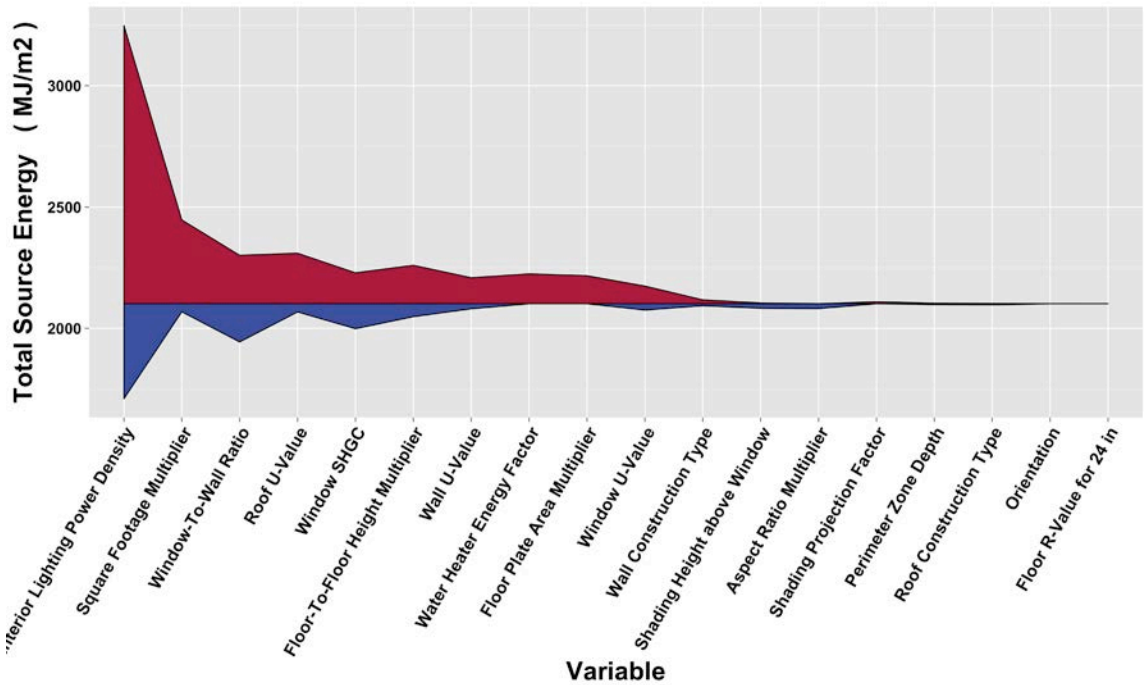
Total Natural Gas



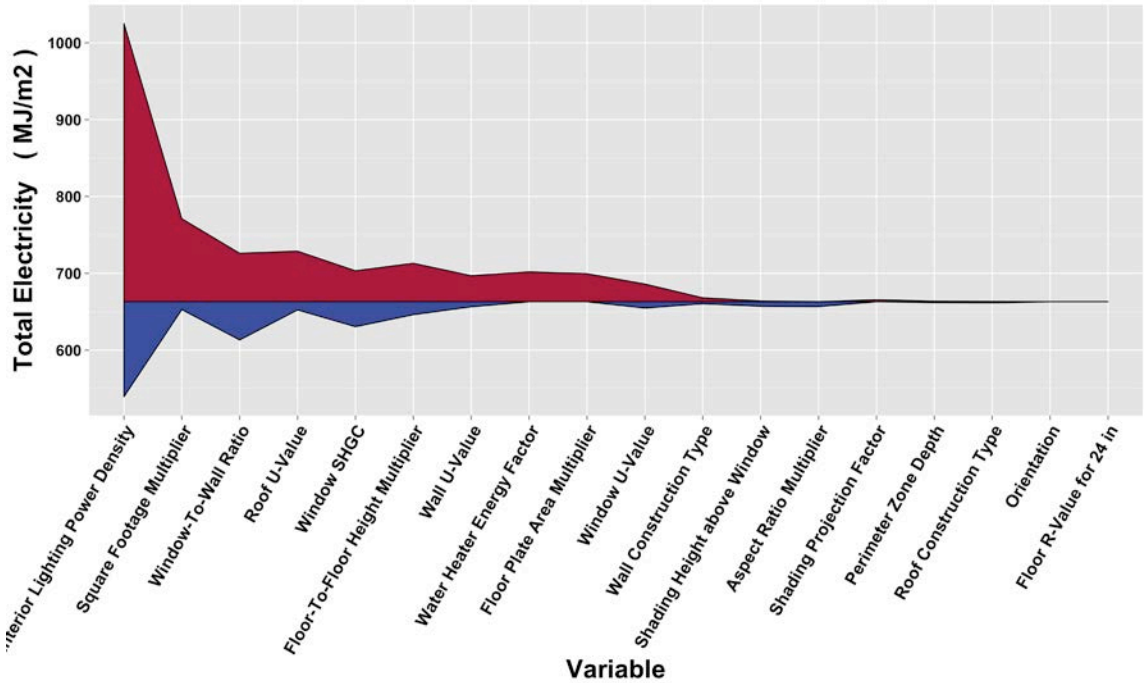
Location: Climate Zone 6A

Total Source Energy

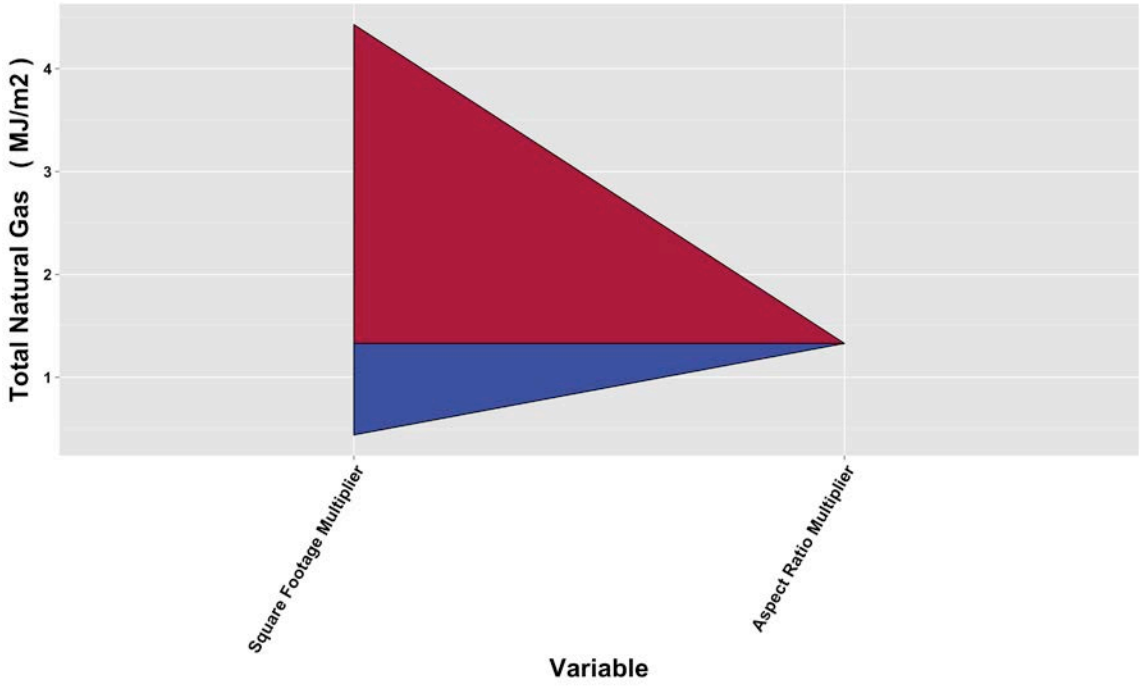
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2081.52	2101.32
Floor Plate Area Multiplier	2550	5100	2101.32	2216.76
Square Footage Multiplier	1530	15300	2068.16	2446.95
Floor-To-Floor Height Multiplier	9.6	19.2	2048.05	2259.83
Perimeter Zone Depth	10	20	2098.30	2103.48
Floor R-Value for 24 in	0	0.01	2101.32	2101.32
Window-To-Wall Ratio	0	0.71	1943.80	2300.87
Window Sill Height	1	6	2101.32	2101.32
Window U-Value	0.12	1.22	2075.41	2174.20
Window SHGC	0.08	0.7	1998.45	2228.83
Window VLT	0.06	0.89	2101.32	2101.32
Wall Construction Type	masonry-on-masonry	wood-siding	2093.26	2117.44
Wall U-Value	0.03	0.58	2080.56	2208.63
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2097.06	2102.16
Roof U-Value	0.01	0.2	2067.69	2309.61
Daylighting Control Setpoint	0	0	2101.32	2101.32
Interior Lighting Power Density	0.38	3.79	1709.67	3247.91
Shading Projection Factor	0	1	2101.32	2109.57
Shading Height above Window	0	2	2082.83	2104.60
District Chiller Cooling Efficiency	0.52	1.48	2101.32	2101.32
Gas Heating Efficiency	0.87	1.13	2101.32	2101.32
Terminal DX Cooling Efficiency	0.68	1.32	2101.32	2101.32
Terminal Furnace Heating Efficiency	0.87	1.13	2101.32	2101.32
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2101.32	2101.32
Water Heater Energy Factor	1	99	2101.32	2224.36
Orientation	0	359	2101.26	2101.37



Total Electricity



Total Natural Gas

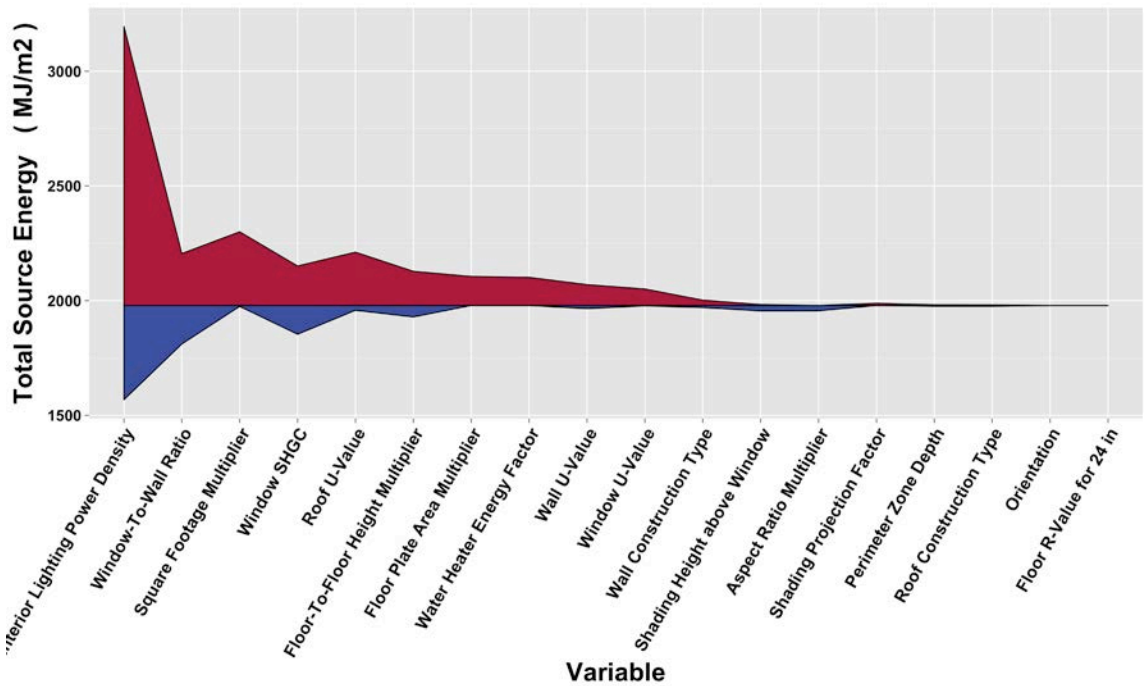


Location: Climate Zone 6B

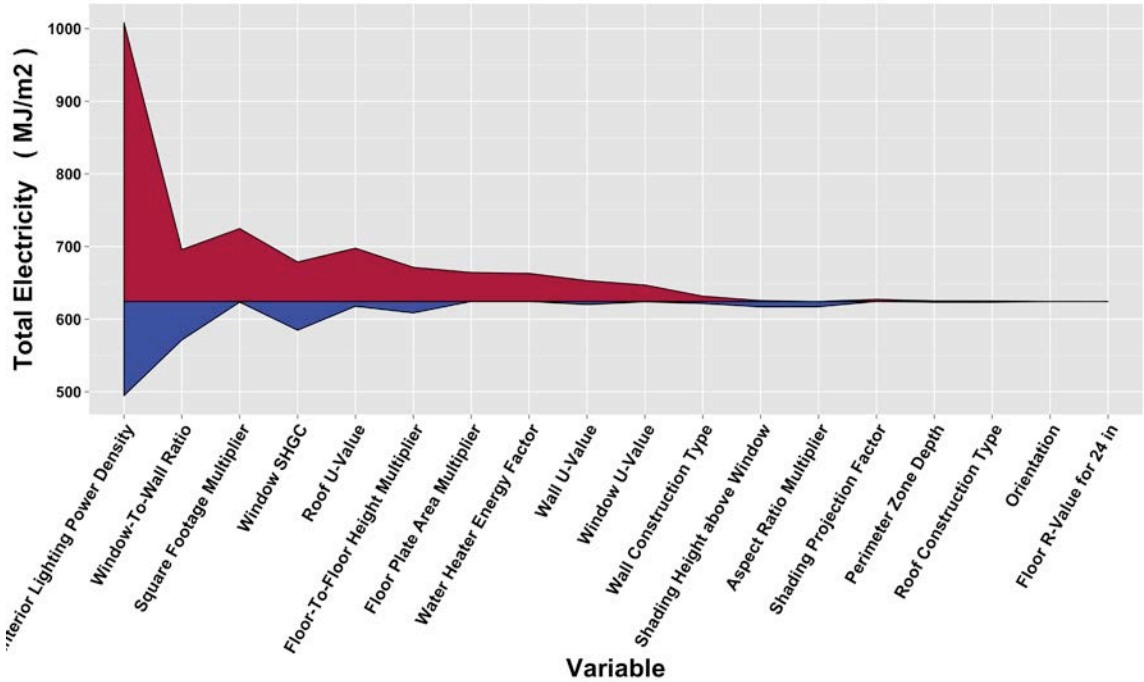
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	1955.82	1978.93
Floor Plate Area Multiplier	2550	5100	1978.93	2105.23
Square Footage Multiplier	1530	15300	1974.82	2300.17
Floor-To-Floor Height Multiplier	9.6	19.2	1928.97	2127.73
Perimeter Zone Depth	10	20	1975.27	1981.46
Floor R-Value for 24 in	0	0.01	1978.93	1978.93
Window-To-Wall Ratio	0	0.71	1810.82	2205.07
Window Sill Height	1	6	1978.93	1978.93
Window U-Value	0.12	1.22	1977.34	2050.65
Window SHGC	0.08	0.7	1853.42	2150.99
Window VLT	0.06	0.89	1978.93	1978.93
Wall Construction Type	masonry-on-masonry	wood-siding	1969.99	2002.10
Wall U-Value	0.03	0.58	1965.30	2069.64
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1975.20	1981.10
Roof U-Value	0.01	0.2	1957.88	2211.30
Daylighting Control Setpoint	0	0	1978.93	1978.93
Interior Lighting Power Density	0.38	3.79	1567.81	3194.62
Shading Projection Factor	0	1	1978.93	1988.14

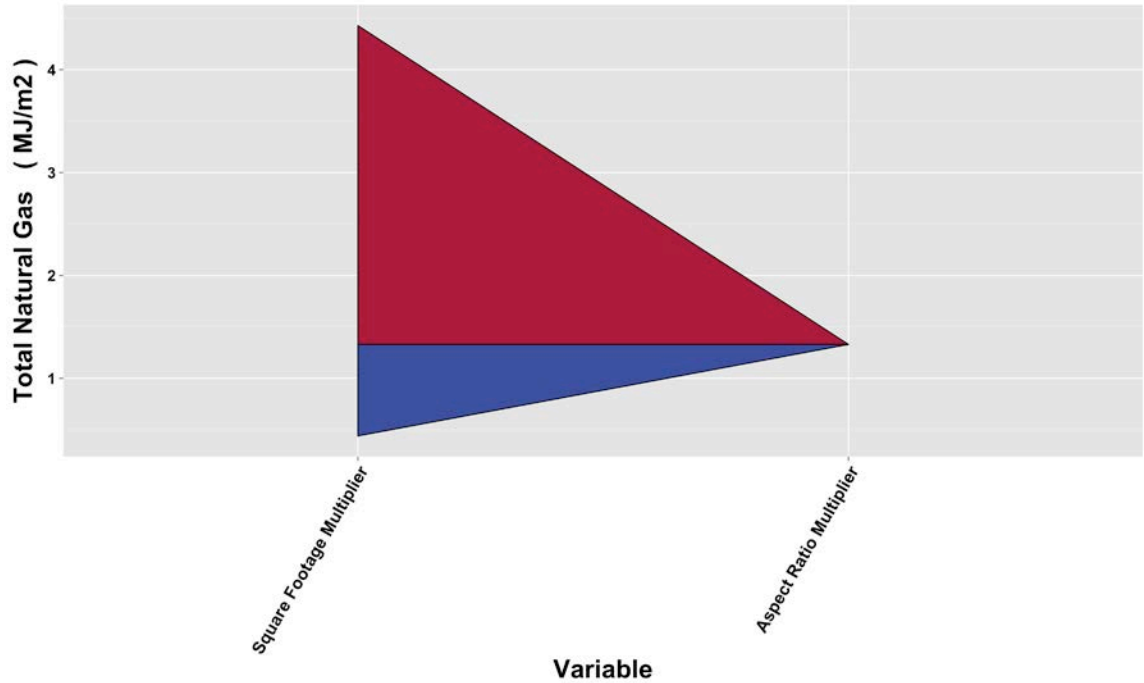
Shading Height above Window	0	2	1955.34	1982.58
District Chiller Cooling Efficiency	0.52	1.48	1978.93	1978.93
Gas Heating Efficiency	0.87	1.13	1978.93	1978.93
Terminal DX Cooling Efficiency	0.68	1.32	1978.93	1978.93
Terminal Furnace Heating Efficiency	0.87	1.13	1978.93	1978.93
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1978.93	1978.93
Water Heater Energy Factor	1	99	1978.93	2101.43
Orientation	0	359	1978.84	1979.22



Total Electricity



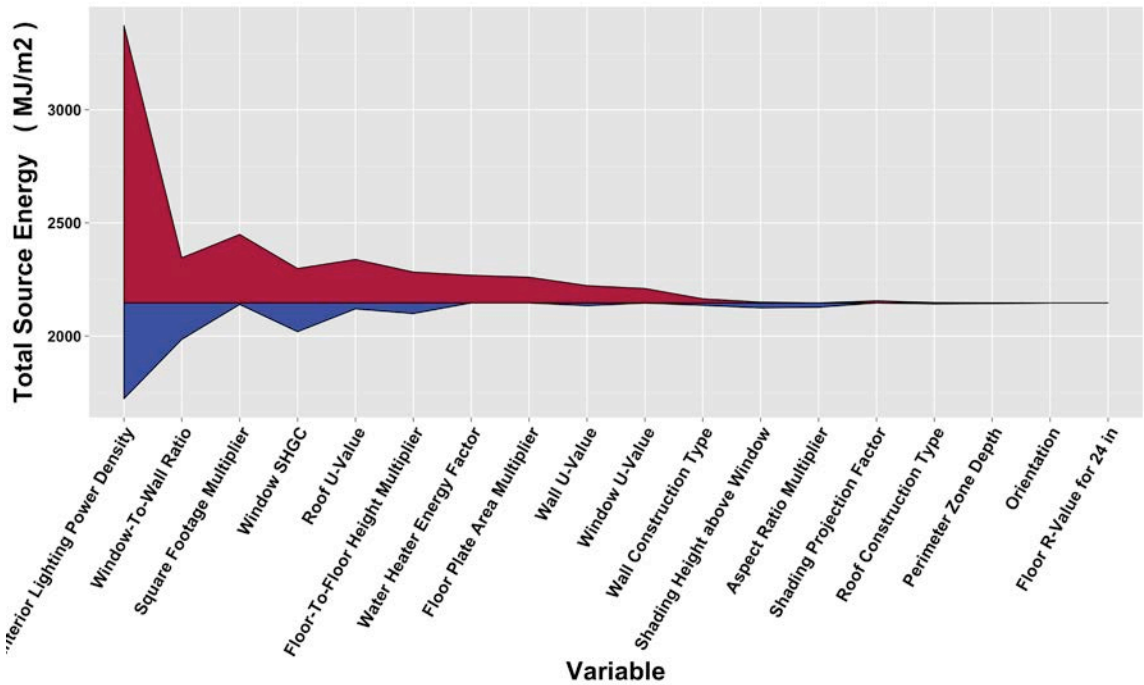
Total Natural Gas



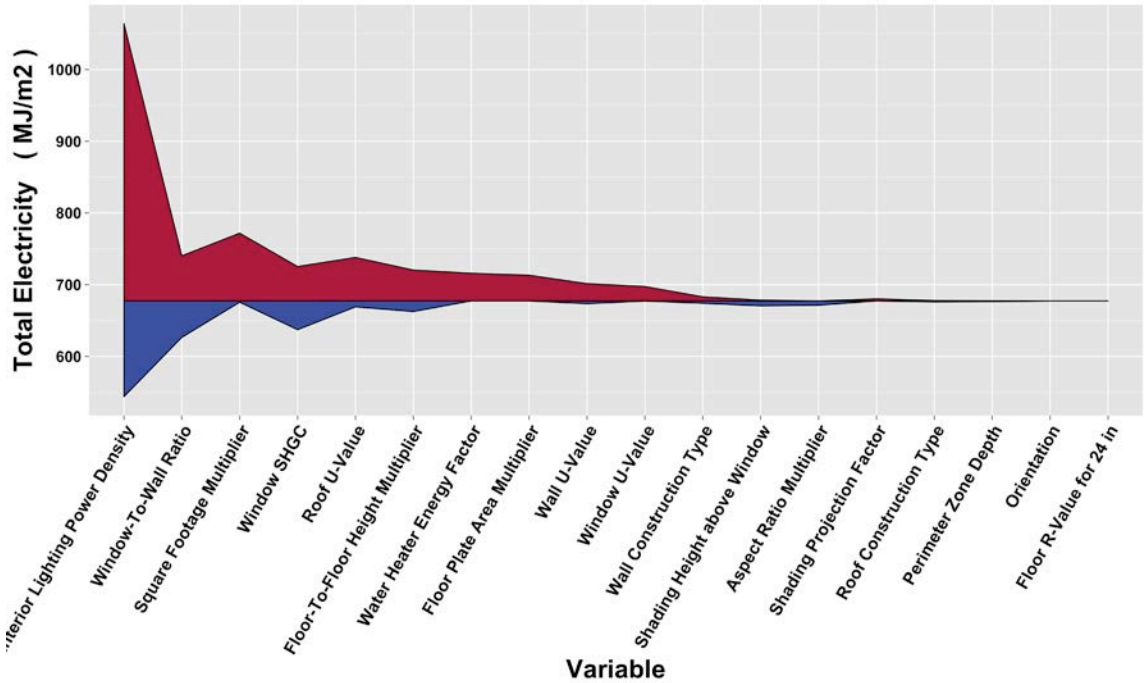
Location: Climate Zone 7

Total Source Energy

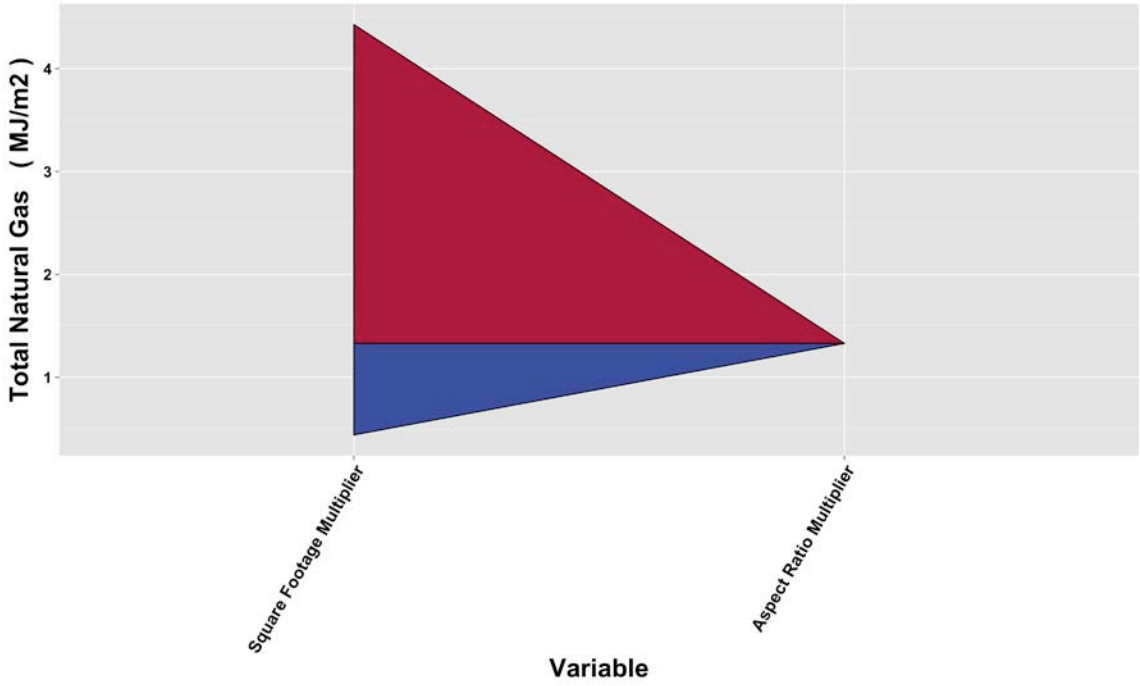
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2127.29	2146.35
Floor Plate Area Multiplier	2550	5100	2146.35	2259.99
Square Footage Multiplier	1530	15300	2139.53	2449.12
Floor-To-Floor Height Multiplier	9.6	19.2	2099.28	2282.87
Perimeter Zone Depth	10	20	2143.28	2146.85
Floor R-Value for 24 in	0	0.01	2146.35	2146.35
Window-To-Wall Ratio	0	0.71	1985.20	2345.76
Window Sill Height	1	6	2146.35	2146.35
Window U-Value	0.12	1.22	2145.83	2210.05
Window SHGC	0.08	0.7	2019.19	2298.43
Window VLT	0.06	0.89	2146.35	2146.35
Wall Construction Type	masonry-on-masonry	wood-siding	2135.80	2164.58
Wall U-Value	0.03	0.58	2134.02	2222.80
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2141.63	2148.03
Roof U-Value	0.01	0.2	2120.06	2338.65
Daylighting Control Setpoint	0	0	2146.35	2146.35
Interior Lighting Power Density	0.38	3.79	1722.89	3371.78
Shading Projection Factor	0	1	2146.35	2155.51
Shading Height above Window	0	2	2124.45	2149.76
District Chiller Cooling Efficiency	0.52	1.48	2146.35	2146.35
Gas Heating Efficiency	0.87	1.13	2146.35	2146.35
Terminal DX Cooling Efficiency	0.68	1.32	2146.35	2146.35
Terminal Furnace Heating Efficiency	0.87	1.13	2146.35	2146.35
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2146.35	2146.35
Water Heater Energy Factor	1	99	2146.35	2268.51
Orientation	0	359	2146.24	2146.35



Total Electricity



Total Natural Gas

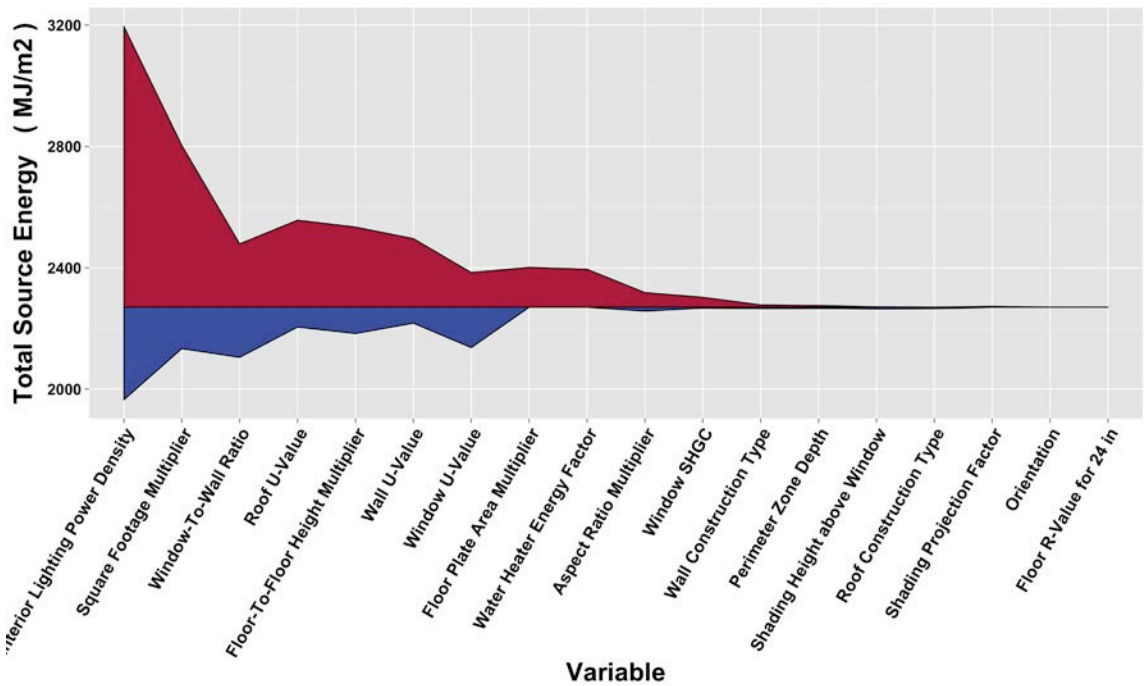


Location: Climate Zone 8

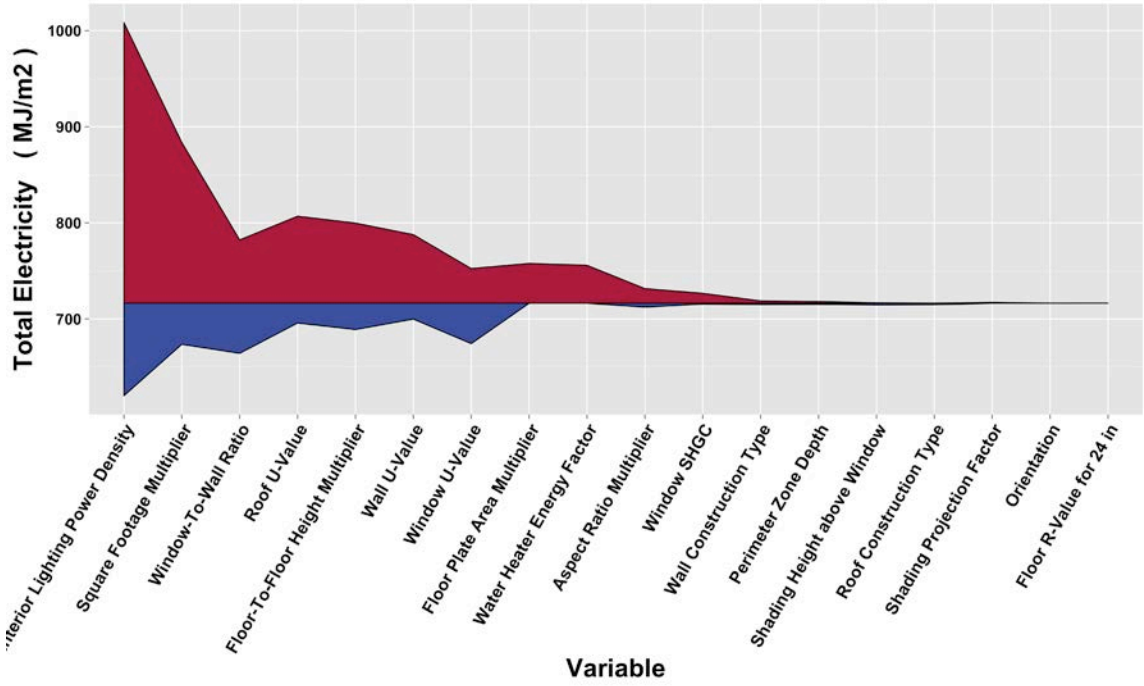
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.71	3.53	2257.41	2318.36
Floor Plate Area Multiplier	2550	5100	2270.01	2401.29
Square Footage Multiplier	1530	15300	2133.71	2803.54
Floor-To-Floor Height Multiplier	9.6	19.2	2183.39	2534.30
Perimeter Zone Depth	10	20	2266.28	2275.78
Floor R-Value for 24 in	0	0.01	2270.01	2270.01
Window-To-Wall Ratio	0	0.71	2104.94	2478.86
Window Sill Height	1	6	2270.01	2270.01
Window U-Value	0.12	1.22	2137.00	2384.44
Window SHGC	0.08	0.7	2267.45	2302.82
Window VLT	0.06	0.89	2270.01	2270.01
Wall Construction Type	masonry-on-masonry	wood-siding	2265.57	2277.75
Wall U-Value	0.03	0.58	2217.75	2496.31
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2265.39	2270.01
Roof U-Value	0.01	0.2	2204.86	2557.10
Daylighting Control Setpoint	0	0	2270.01	2270.01
Interior Lighting Power Density	0.38	3.79	1965.10	3195.17
Shading Projection Factor	0	1	2270.01	2272.99

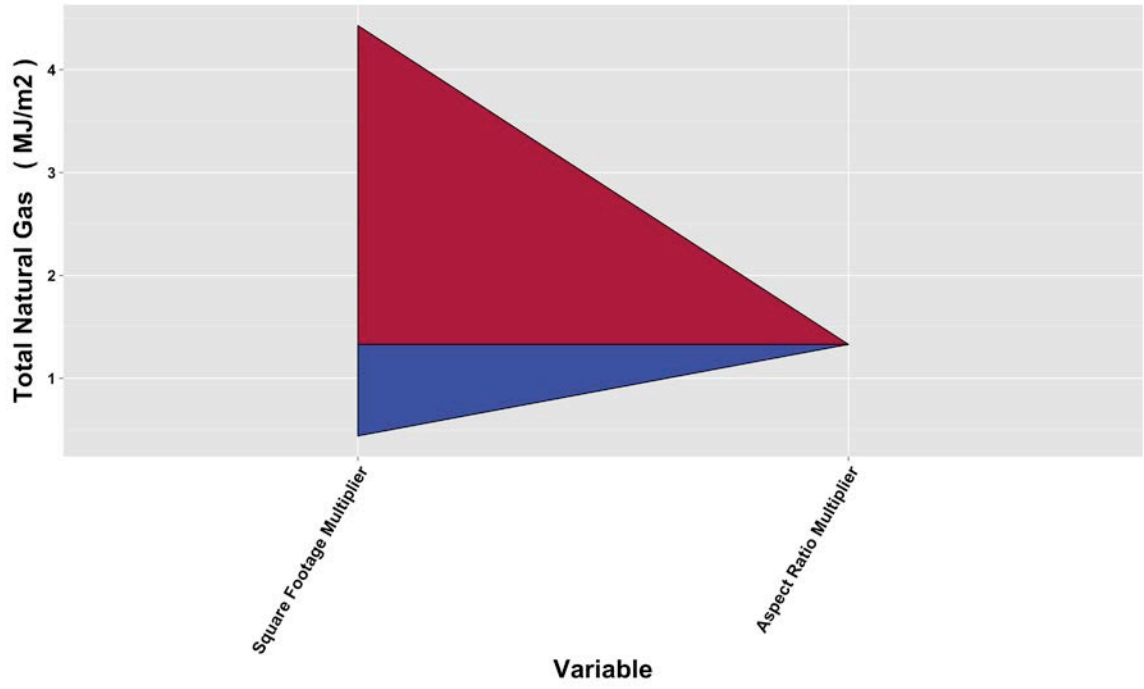
Shading Height above Window	0	2	2264.64	2271.50
District Chiller Cooling Efficiency	0.52	1.48	2270.01	2270.01
Gas Heating Efficiency	0.87	1.13	2270.01	2270.01
Terminal DX Cooling Efficiency	0.68	1.32	2270.01	2270.01
Terminal Furnace Heating Efficiency	0.87	1.13	2270.01	2270.01
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2270.01	2270.01
Water Heater Energy Factor	1	99	2270.01	2395.25
Orientation	0	359	2269.80	2270.01



Total Electricity



Total Natural Gas

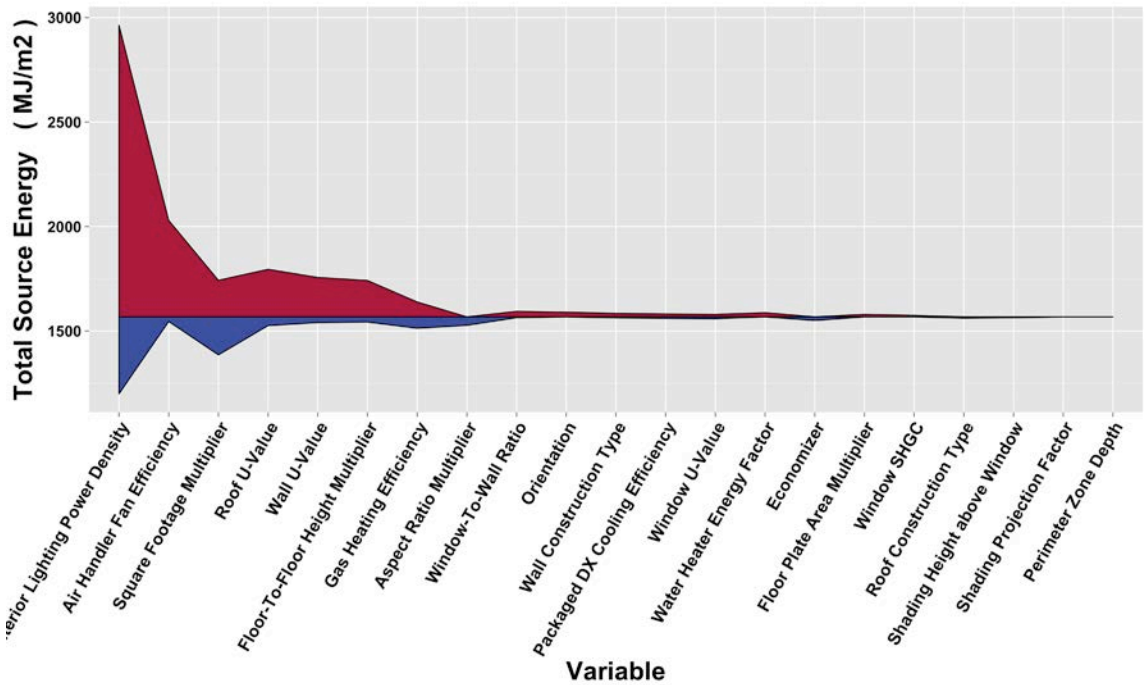


Retail - Stripmall

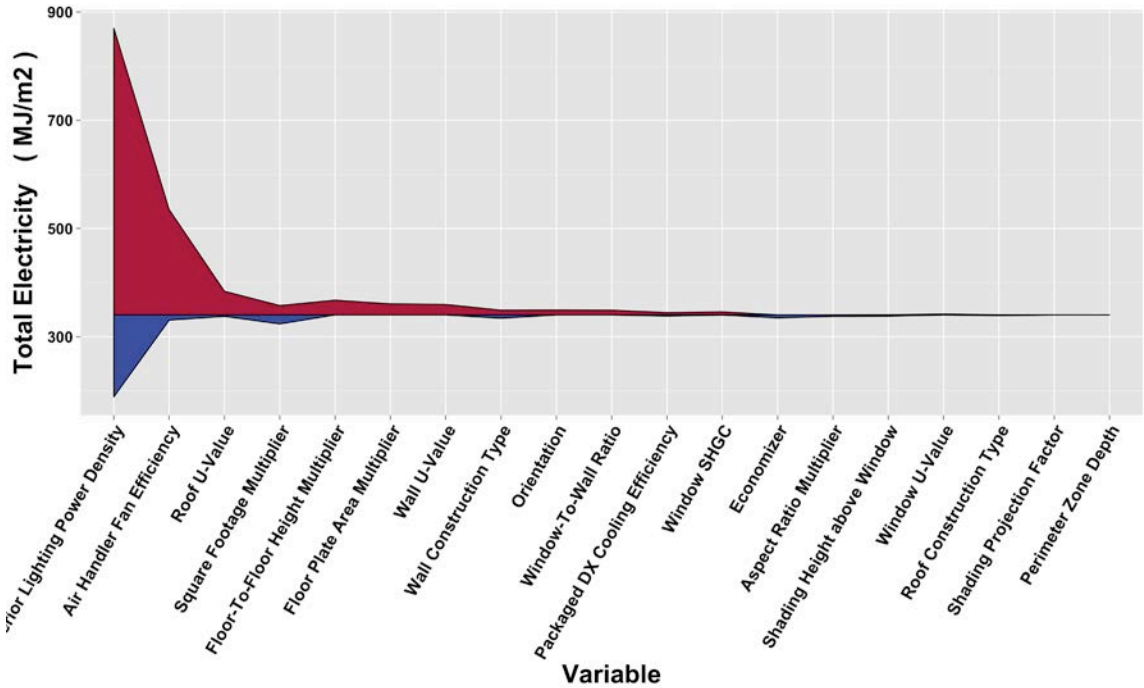
Location: Climate Zone 1A

Total Source Energy

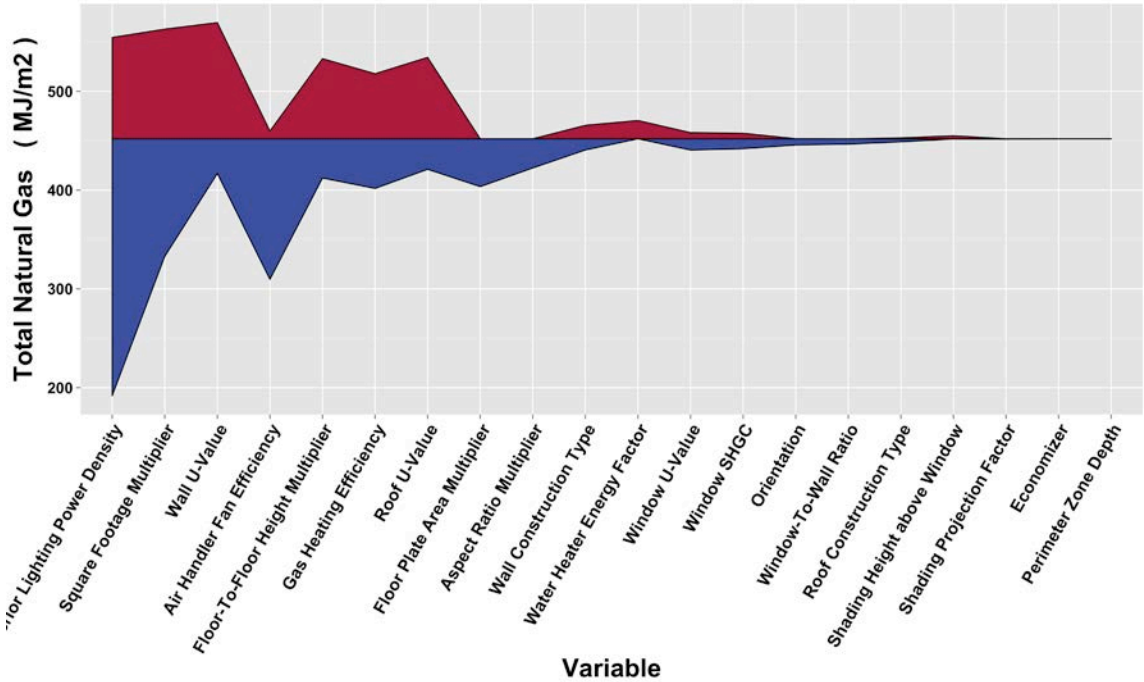
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1527.16	1567.56
Floor Plate Area Multiplier	11250	22500	1567.56	1579.50
Square Footage Multiplier	6750	67500	1385.62	1742.51
Floor-To-Floor Height Multiplier	13.6	27.2	1543.03	1741.68
Perimeter Zone Depth	0	0	1567.56	1567.56
Floor R-Value for 24 in	0	0.01	1567.56	1567.56
Window-To-Wall Ratio	0	0.24	1563.66	1593.80
Window Sill Height	1	6	1567.56	1567.56
Window U-Value	0.12	1.22	1558.92	1579.23
Window SHGC	0.08	0.7	1567.56	1574.50
Window VLT	0.06	0.89	1567.56	1567.56
Wall Construction Type	masonry-on-masonry	wood-siding	1562.71	1584.36
Wall U-Value	0.03	0.58	1540.56	1756.12
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1561.24	1567.56
Roof U-Value	0.01	0.2	1525.71	1795.26
Daylighting Control Setpoint	0	0	1567.56	1567.56
Interior Lighting Power Density	0.42	4.2	1199.09	2962.58
Shading Projection Factor	0	1	1567.56	1567.63
Shading Height above Window	0	2	1563.46	1567.59
District Chiller Cooling Efficiency	0.52	1.48	1567.56	1567.56
Air Handler Fan Efficiency	22.66	81.56	1545.49	2029.47
Packaged DX Cooling Efficiency	2.37	4.63	1560.54	1581.32
Gas Heating Efficiency	0.87	1.13	1513.09	1638.96
Terminal DX Cooling Efficiency	0.68	1.32	1567.56	1567.56
Terminal Furnace Heating Efficiency	0.87	1.13	1567.56	1567.56
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1567.56	1567.56
Water Heater Energy Factor	1	99	1567.56	1587.61
Economizer	false	true	1550.32	1567.56
Fan Control	cav	false	1567.56	1567.56
Orientation	0	359	1567.56	1589.77



Total Electricity



Total Natural Gas

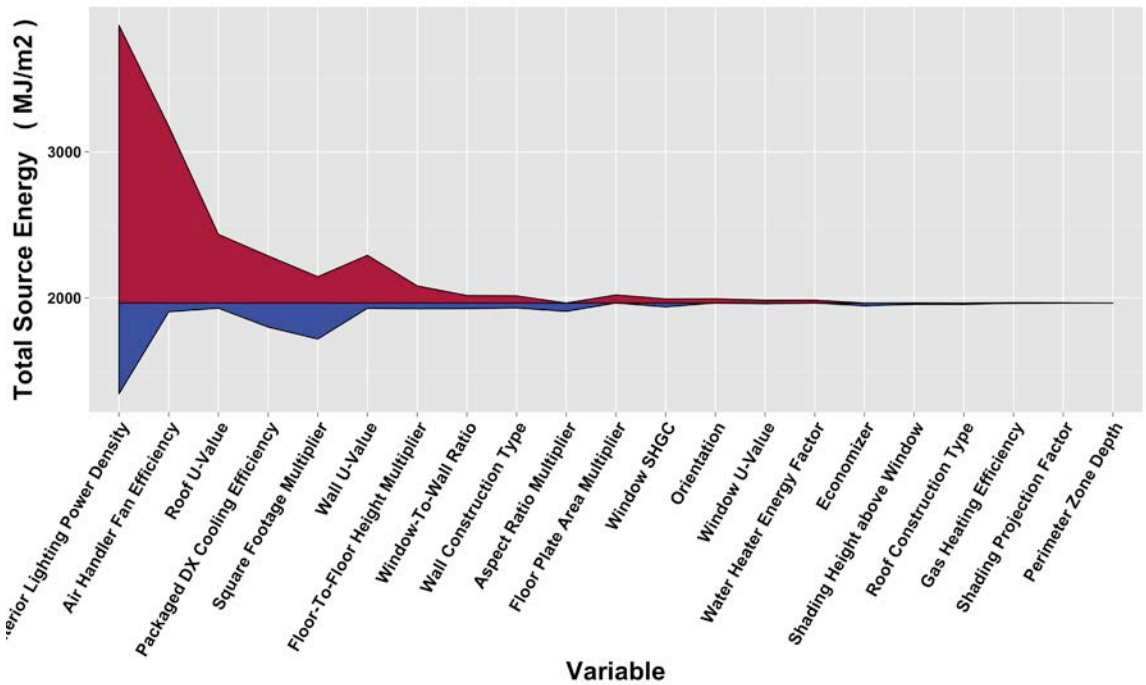


Location: Climate Zone 1B

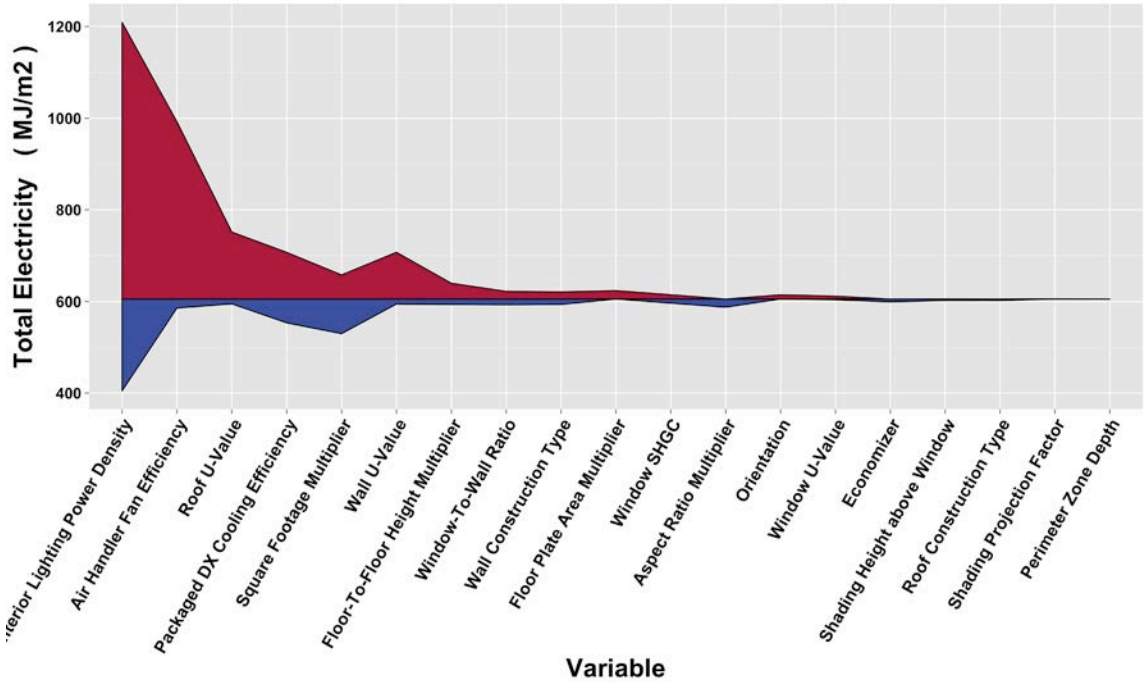
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1907.45	1964.94
Floor Plate Area Multiplier	11250	22500	1964.94	2020.53
Square Footage Multiplier	6750	67500	1718.20	2145.39
Floor-To-Floor Height Multiplier	13.6	27.2	1924.76	2082.51
Perimeter Zone Depth	0	0	1964.94	1964.94
Floor R-Value for 24 in	0	0.01	1964.94	1964.94
Window-To-Wall Ratio	0	0.24	1926.25	2016.70
Window Sill Height	1	6	1964.94	1964.94
Window U-Value	0.12	1.22	1959.06	1984.53
Window SHGC	0.08	0.7	1938.15	1993.11
Window VLT	0.06	0.89	1964.94	1964.94
Wall Construction Type	masonry-on-masonry	wood-siding	1930.89	2014.01
Wall U-Value	0.03	0.58	1928.67	2291.83
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1955.53	1964.94
Roof U-Value	0.01	0.2	1929.50	2435.05
Daylighting Control Setpoint	0	0	1964.94	1964.94
Interior Lighting Power Density	0.42	4.2	1343.12	3865.19
Shading Projection Factor	0	1	1964.94	1967.01

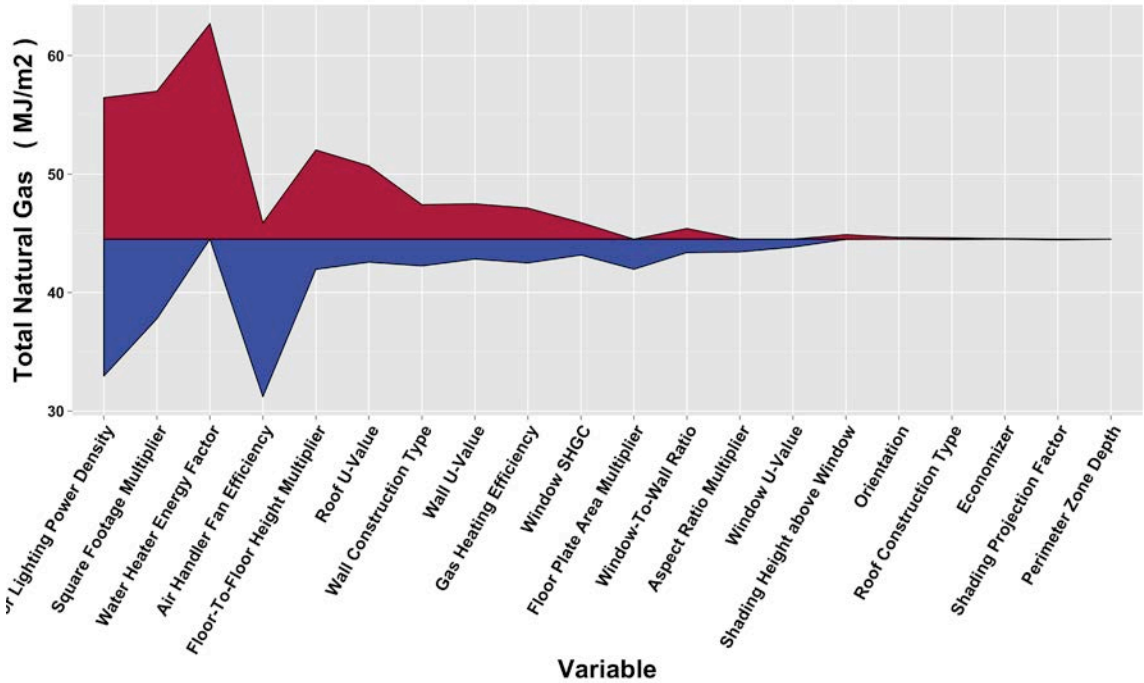
Shading Height above Window	0	2	1955.57	1966.04
District Chiller Cooling Efficiency	0.52	1.48	1964.94	1964.94
Air Handler Fan Efficiency	22.66	81.56	1904.19	3175.62
Packaged DX Cooling Efficiency	2.37	4.63	1800.05	2287.85
Gas Heating Efficiency	0.87	1.13	1962.77	1967.79
Terminal DX Cooling Efficiency	0.68	1.32	1964.94	1964.94
Terminal Furnace Heating Efficiency	0.87	1.13	1964.94	1964.94
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1964.94	1964.94
Water Heater Energy Factor	1	99	1964.94	1984.66
Economizer	false	true	1945.66	1964.94
Fan Control	cav	false	1964.94	1964.94
Orientation	0	359	1964.94	1994.43



Total Electricity



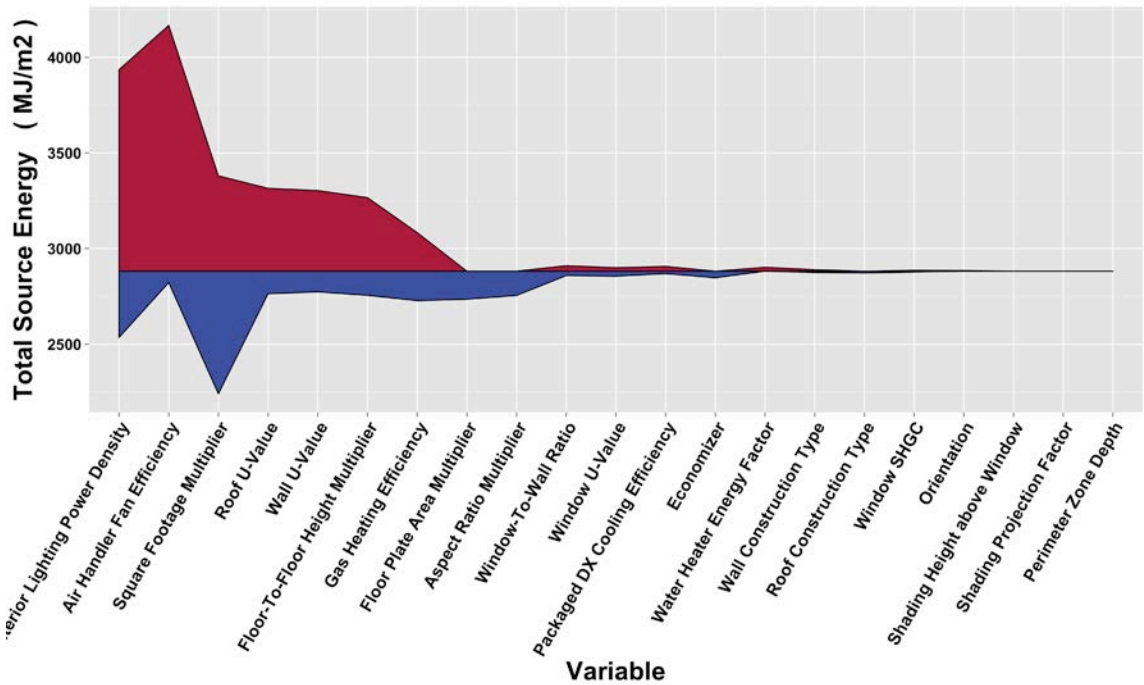
Total Natural Gas



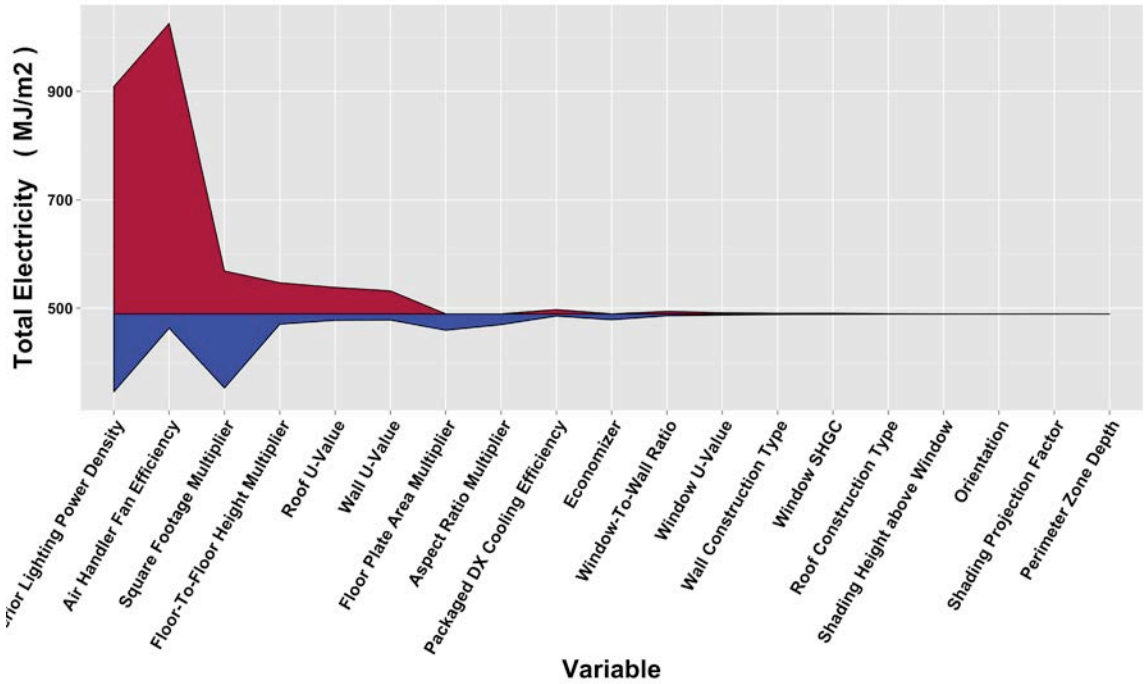
Location: Climate Zone 2A

Total Source Energy

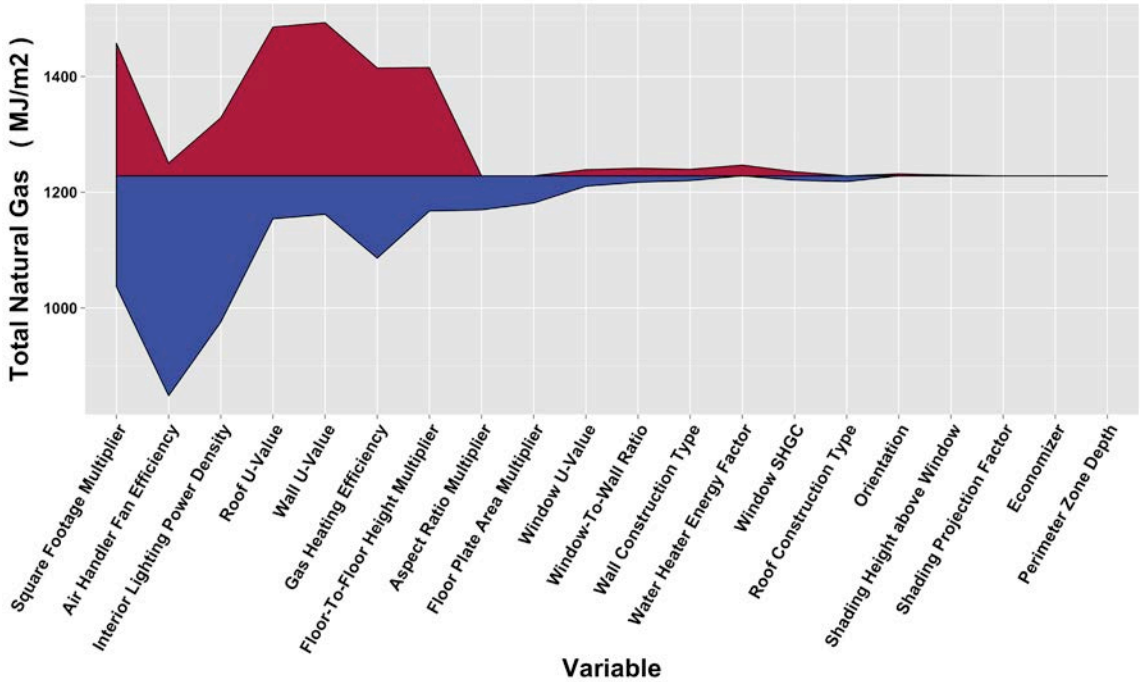
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	2754.79	2881.85
Floor Plate Area Multiplier	11250	22500	2734.96	2881.85
Square Footage Multiplier	6750	67500	2240.11	3380.77
Floor-To-Floor Height Multiplier	13.6	27.2	2755.29	3266.69
Perimeter Zone Depth	0	0	2881.85	2881.85
Floor R-Value for 24 in	0	0.01	2881.85	2881.85
Window-To-Wall Ratio	0	0.24	2858.77	2910.70
Window Sill Height	1	6	2881.85	2881.85
Window U-Value	0.12	1.22	2855.42	2899.94
Window SHGC	0.08	0.7	2877.37	2886.34
Window VLT	0.06	0.89	2881.85	2881.85
Wall Construction Type	masonry-on-masonry	wood-siding	2875.18	2889.72
Wall U-Value	0.03	0.58	2773.69	3303.59
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2872.04	2881.85
Roof U-Value	0.01	0.2	2763.53	3315.35
Daylighting Control Setpoint	0	0	2881.85	2881.85
Interior Lighting Power Density	0.42	4.2	2534.82	3935.90
Shading Projection Factor	0	1	2881.85	2882.10
Shading Height above Window	0	2	2881.85	2882.22
District Chiller Cooling Efficiency	0.52	1.48	2881.85	2881.85
Air Handler Fan Efficiency	22.66	81.56	2821.98	4167.54
Packaged DX Cooling Efficiency	2.37	4.63	2869.06	2906.89
Gas Heating Efficiency	0.87	1.13	2727.62	3084.01
Terminal DX Cooling Efficiency	0.68	1.32	2881.85	2881.85
Terminal Furnace Heating Efficiency	0.87	1.13	2881.85	2881.85
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2881.85	2881.85
Water Heater Energy Factor	1	99	2881.85	2902.05
Economizer	false	true	2847.28	2881.85
Fan Control	cav	false	2881.85	2881.85
Orientation	0	359	2881.85	2885.09



Total Electricity



Total Natural Gas

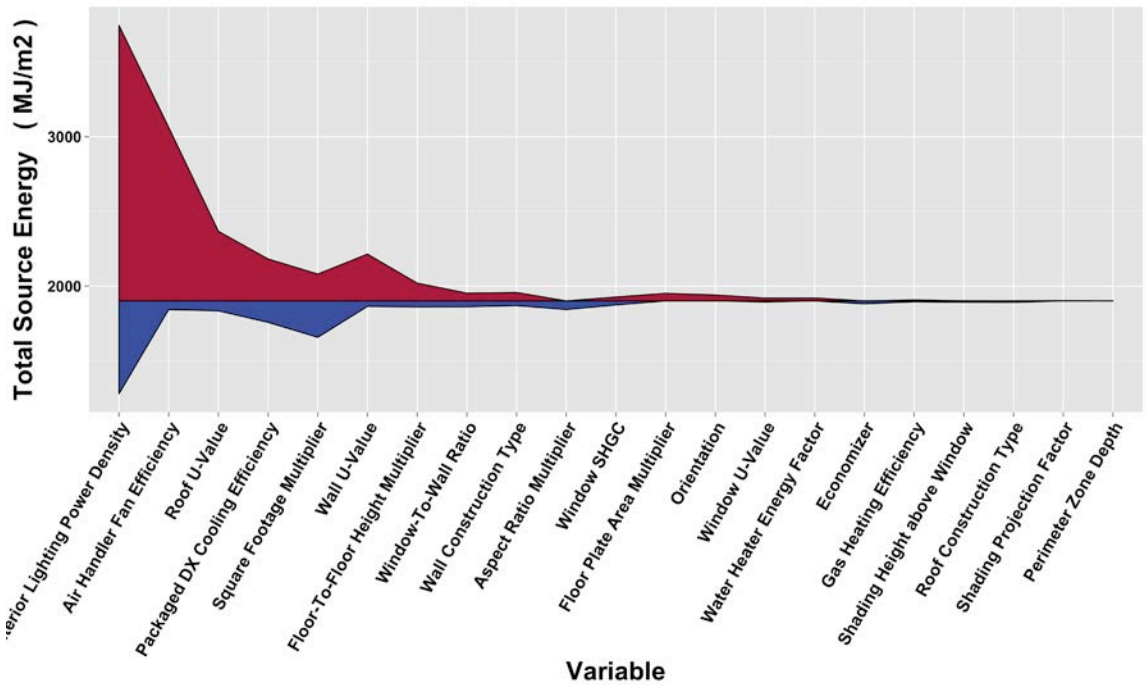


Location: Climate Zone 2B

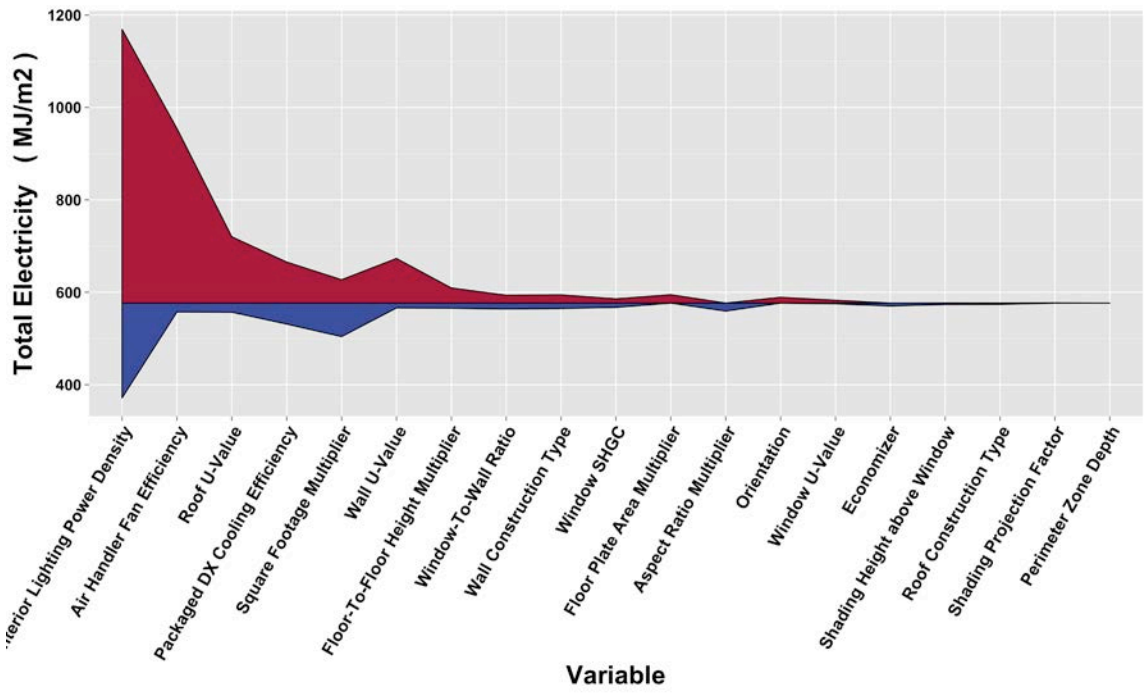
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1842.78	1900.32
Floor Plate Area Multiplier	11250	22500	1900.32	1950.99
Square Footage Multiplier	6750	67500	1656.51	2080.50
Floor-To-Floor Height Multiplier	13.6	27.2	1860.44	2019.84
Perimeter Zone Depth	0	0	1900.32	1900.32
Floor R-Value for 24 in	0	0.01	1900.32	1900.32
Window-To-Wall Ratio	0	0.24	1861.13	1952.47
Window Sill Height	1	6	1900.32	1900.32
Window U-Value	0.12	1.22	1893.81	1919.37
Window SHGC	0.08	0.7	1873.60	1926.63
Window VLT	0.06	0.89	1900.32	1900.32
Wall Construction Type	masonry-on-masonry	wood-siding	1869.51	1957.16
Wall U-Value	0.03	0.58	1863.60	2214.27
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1891.46	1900.32
Roof U-Value	0.01	0.2	1834.15	2367.31
Daylighting Control Setpoint	0	0	1900.32	1900.32
Interior Lighting Power Density	0.42	4.2	1277.77	3746.29
Shading Projection Factor	0	1	1900.32	1902.01

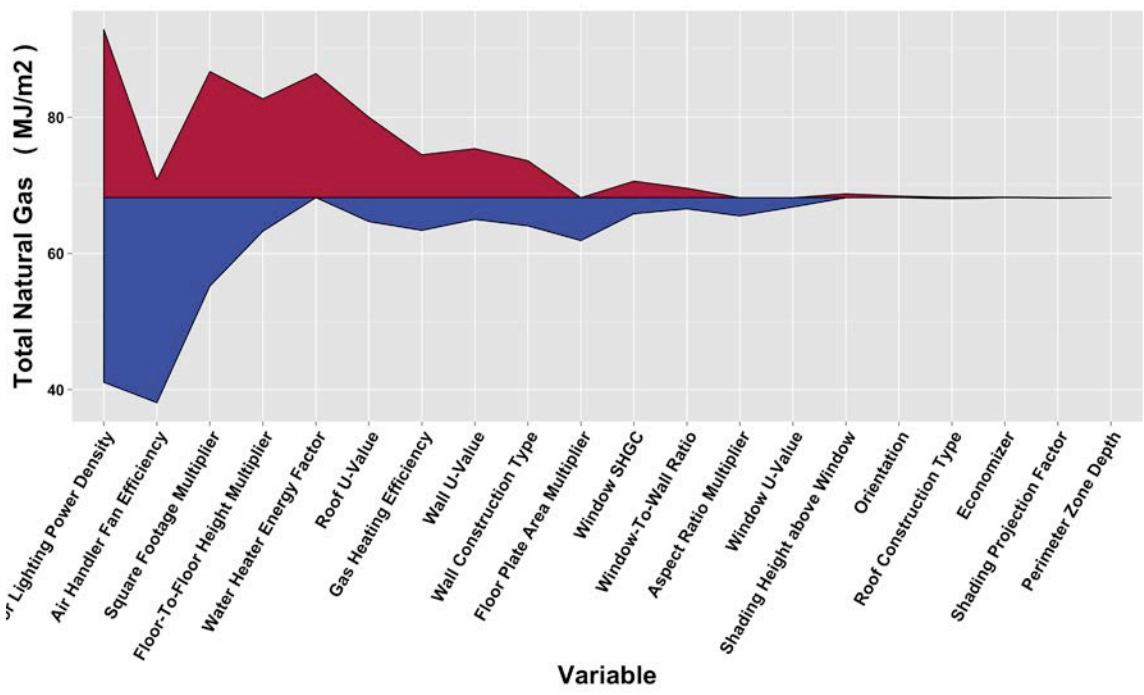
Shading Height above Window	0	2	1891.81	1901.17
District Chiller Cooling Efficiency	0.52	1.48	1900.32	1900.32
Air Handler Fan Efficiency	22.66	81.56	1842.74	3063.53
Packaged DX Cooling Efficiency	2.37	4.63	1756.69	2181.62
Gas Heating Efficiency	0.87	1.13	1895.11	1907.16
Terminal DX Cooling Efficiency	0.68	1.32	1900.32	1900.32
Terminal Furnace Heating Efficiency	0.87	1.13	1900.32	1900.32
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1900.32	1900.32
Water Heater Energy Factor	1	99	1900.32	1920.09
Economizer	false	true	1880.84	1900.32
Fan Control	cav	false	1900.32	1900.32
Orientation	0	359	1900.32	1940.11



Total Electricity



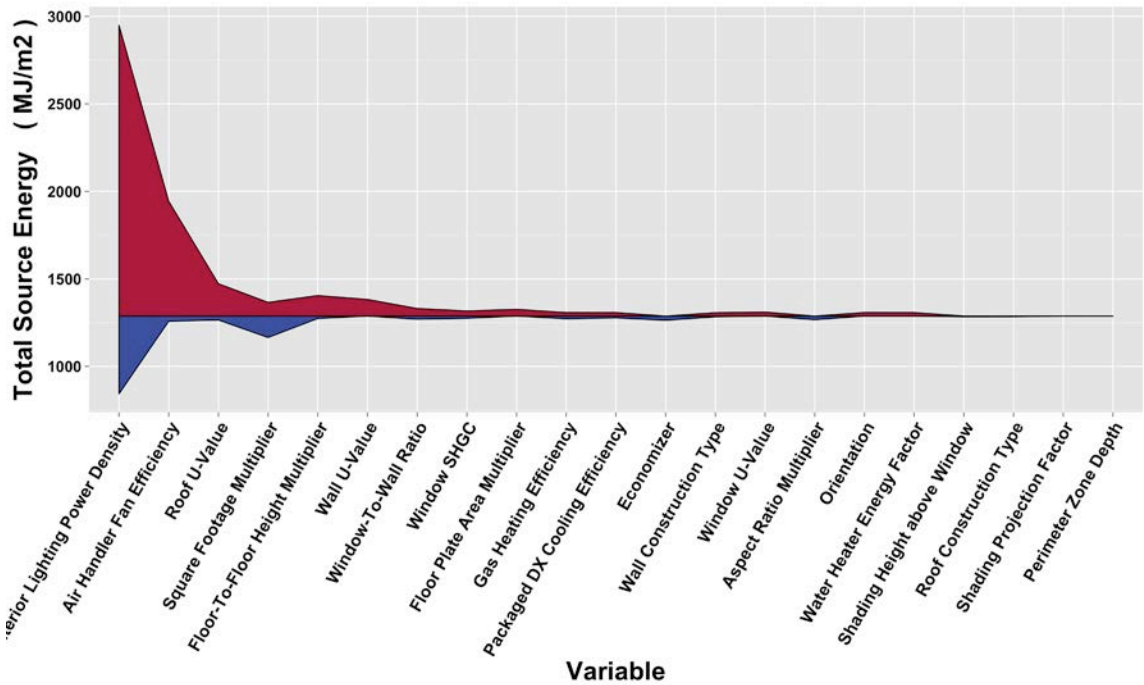
Total Natural Gas



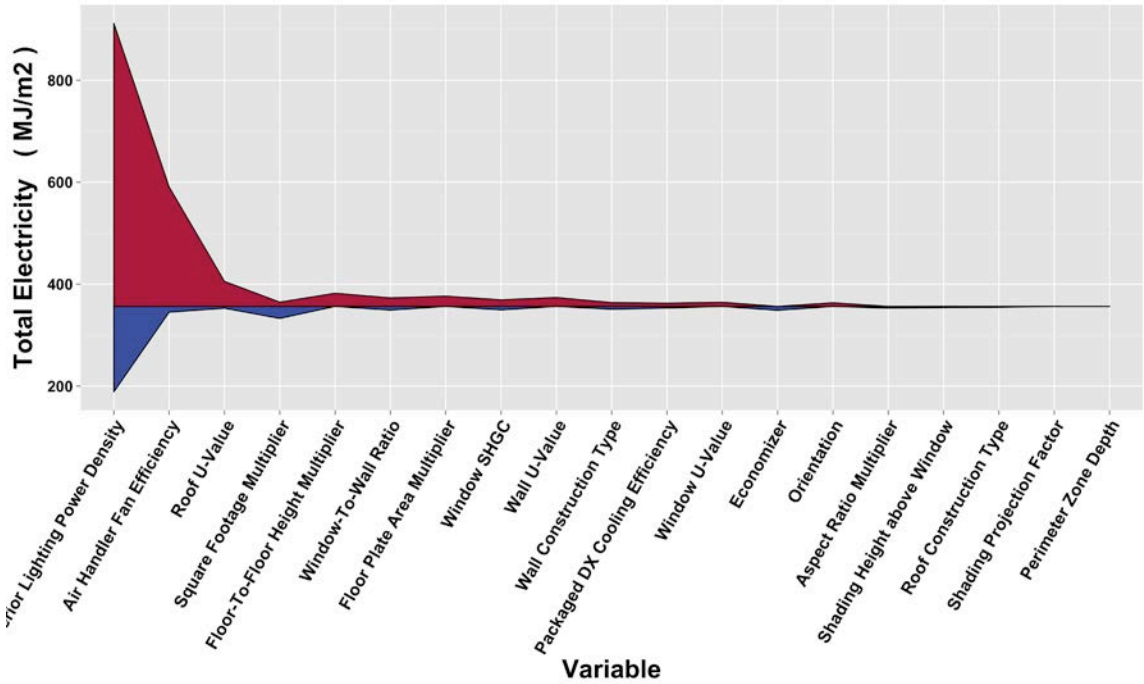
Location: Climate Zone 3A

Total Source Energy

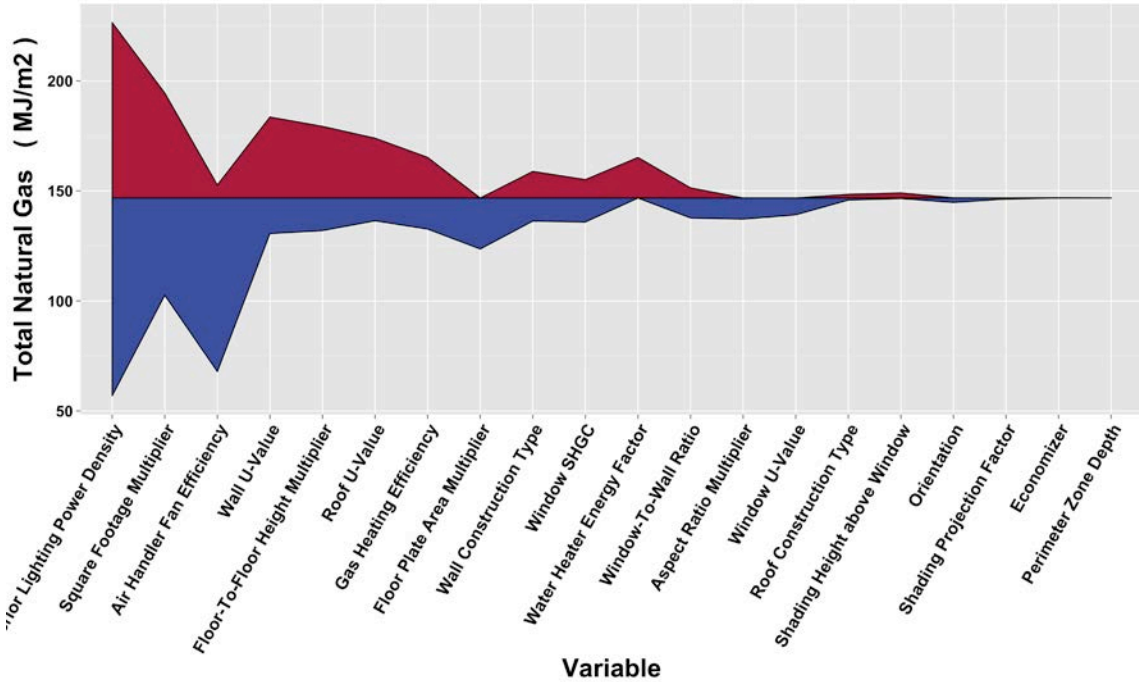
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1266.87	1287.60
Floor Plate Area Multiplier	11250	22500	1287.60	1326.14
Square Footage Multiplier	6750	67500	1165.12	1365.81
Floor-To-Floor Height Multiplier	13.6	27.2	1273.80	1404.75
Perimeter Zone Depth	0	0	1287.60	1287.60
Floor R-Value for 24 in	0	0.01	1287.60	1287.60
Window-To-Wall Ratio	0	0.24	1269.58	1330.85
Window Sill Height	1	6	1287.60	1287.60
Window U-Value	0.12	1.22	1287.60	1310.31
Window SHGC	0.08	0.7	1274.93	1316.85
Window VLT	0.06	0.89	1287.60	1287.60
Wall Construction Type	masonry-on-masonry	wood-siding	1283.29	1306.83
Wall U-Value	0.03	0.58	1287.60	1382.79
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1283.83	1287.60
Roof U-Value	0.01	0.2	1265.15	1472.71
Daylighting Control Setpoint	0	0	1287.60	1287.60
Interior Lighting Power Density	0.42	4.2	843.14	2948.58
Shading Projection Factor	0	1	1287.60	1288.01
Shading Height above Window	0	2	1283.42	1287.82
District Chiller Cooling Efficiency	0.52	1.48	1287.60	1287.60
Air Handler Fan Efficiency	22.66	81.56	1258.12	1943.97
Packaged DX Cooling Efficiency	2.37	4.63	1277.38	1307.60
Gas Heating Efficiency	0.87	1.13	1272.33	1307.62
Terminal DX Cooling Efficiency	0.68	1.32	1287.60	1287.60
Terminal Furnace Heating Efficiency	0.87	1.13	1287.60	1287.60
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1287.60	1287.60
Water Heater Energy Factor	1	99	1287.60	1307.57
Economizer	false	true	1263.68	1287.60
Fan Control	cav	false	1287.60	1287.60
Orientation	0	359	1287.60	1308.05



Total Electricity



Total Natural Gas

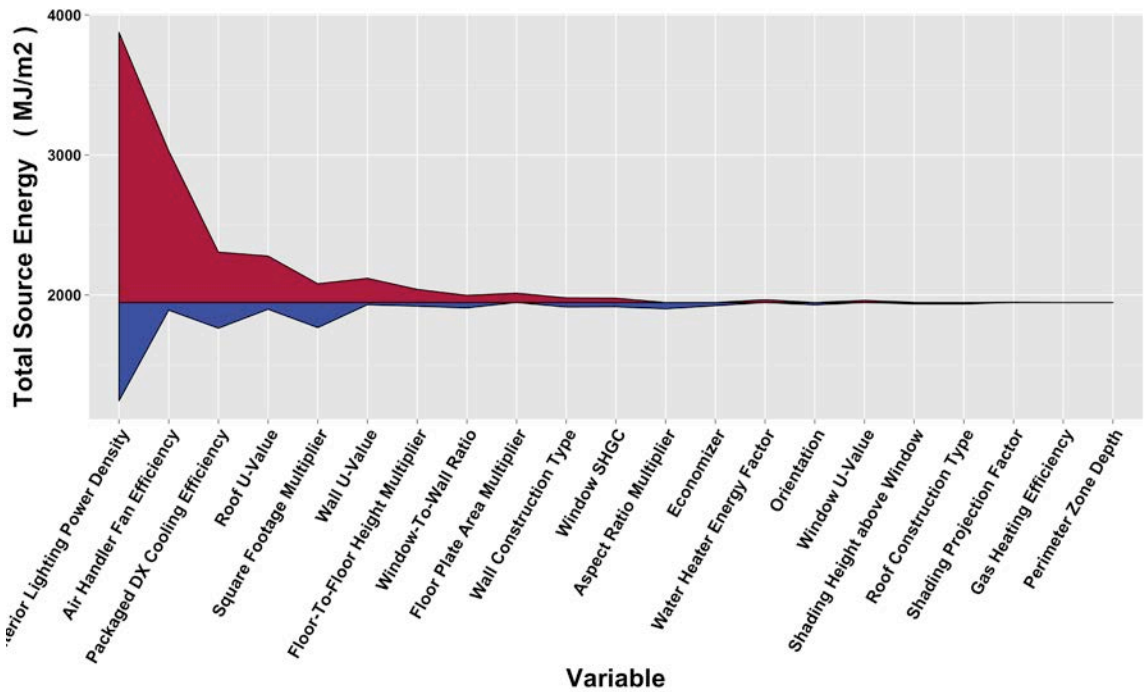


Location: Climate Zone 3B

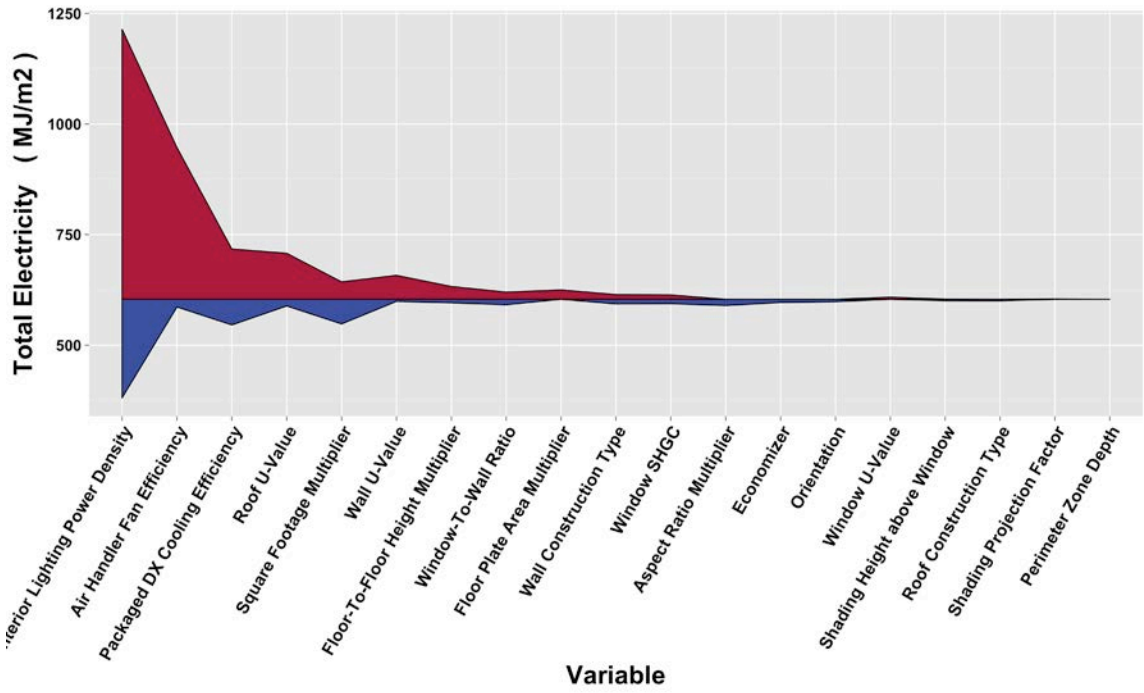
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1901.28	1946.23
Floor Plate Area Multiplier	11250	22500	1946.23	2013.34
Square Footage Multiplier	6750	67500	1766.66	2080.45
Floor-To-Floor Height Multiplier	13.6	27.2	1920.02	2040.32
Perimeter Zone Depth	0	0	1946.23	1946.23
Floor R-Value for 24 in	0	0.01	1946.23	1946.23
Window-To-Wall Ratio	0	0.24	1907.56	1997.13
Window Sill Height	1	6	1946.23	1946.23
Window U-Value	0.12	1.22	1946.15	1961.14
Window SHGC	0.08	0.7	1915.25	1977.17
Window VLT	0.06	0.89	1946.23	1946.23
Wall Construction Type	masonry-on-masonry	wood-siding	1913.66	1979.25
Wall U-Value	0.03	0.58	1930.45	2119.08
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1935.64	1946.23
Roof U-Value	0.01	0.2	1897.79	2278.20
Daylighting Control Setpoint	0	0	1946.23	1946.23
Interior Lighting Power Density	0.42	4.2	1243.69	3875.51
Shading Projection Factor	0	1	1946.23	1948.70

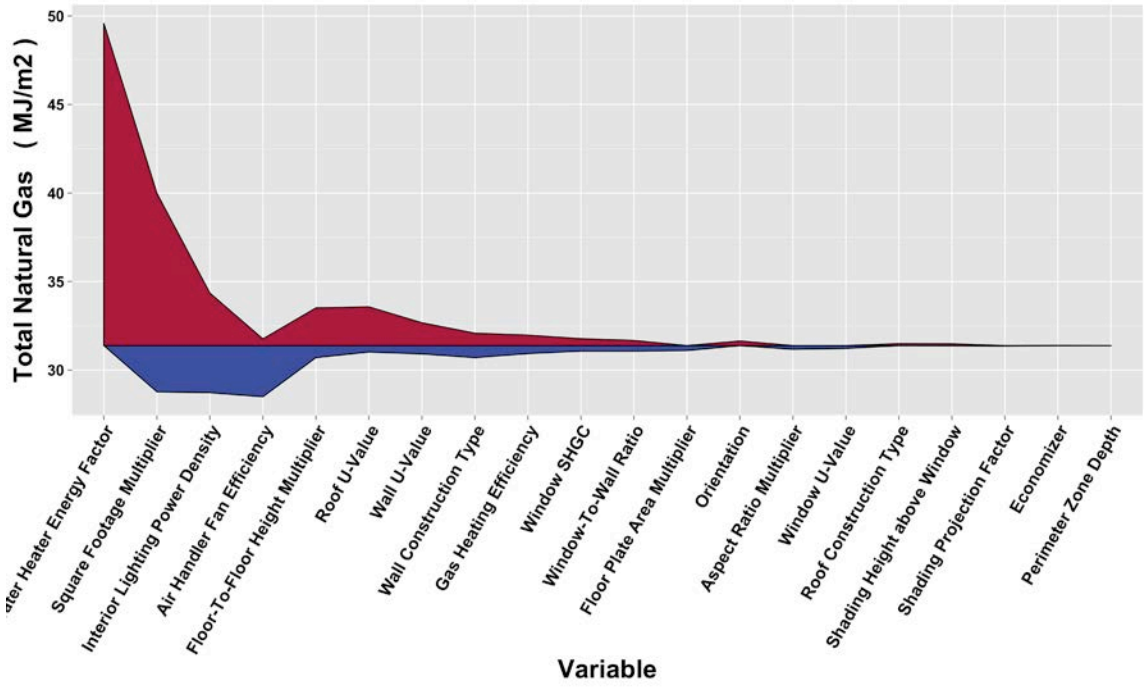
Shading Height above Window	0	2	1936.23	1947.48
District Chiller Cooling Efficiency	0.52	1.48	1946.23	1946.23
Air Handler Fan Efficiency	22.66	81.56	1891.24	3029.14
Packaged DX Cooling Efficiency	2.37	4.63	1762.37	2306.29
Gas Heating Efficiency	0.87	1.13	1945.75	1946.87
Terminal DX Cooling Efficiency	0.68	1.32	1946.23	1946.23
Terminal Furnace Heating Efficiency	0.87	1.13	1946.23	1946.23
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1946.23	1946.23
Water Heater Energy Factor	1	99	1946.23	1965.95
Economizer	false	true	1923.29	1946.23
Fan Control	cav	false	1946.23	1946.23
Orientation	0	359	1929.18	1946.29



Total Electricity



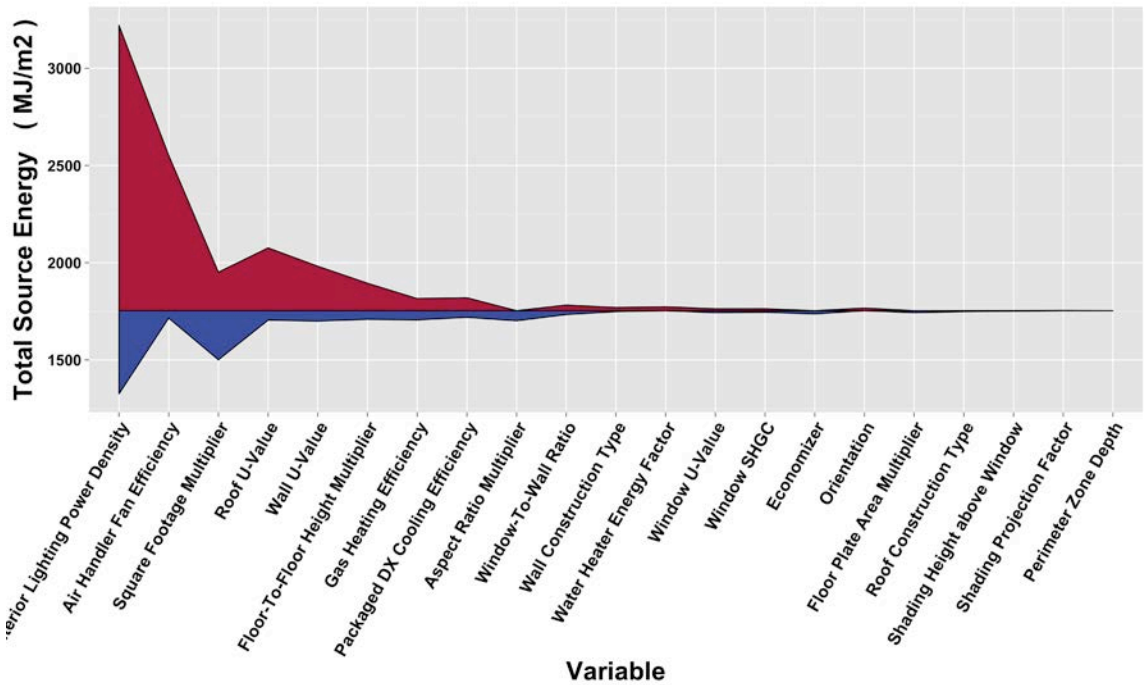
Total Natural Gas



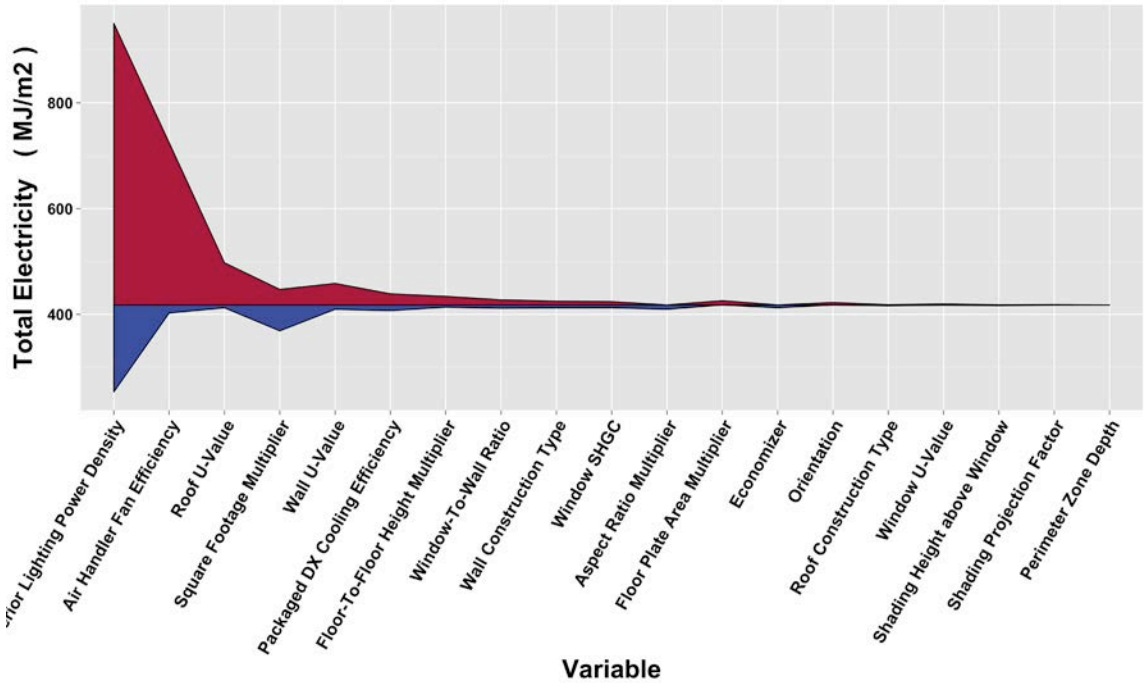
Location: Climate Zone 3C

Total Source Energy

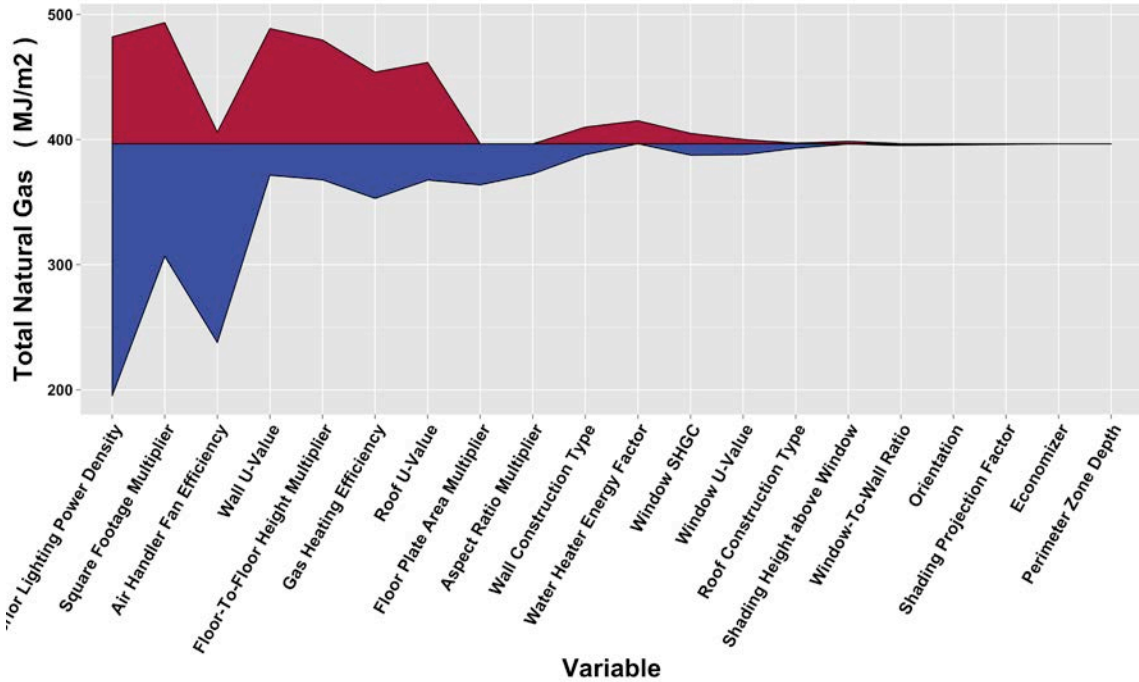
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1701.66	1753.50
Floor Plate Area Multiplier	11250	22500	1743.36	1753.50
Square Footage Multiplier	6750	67500	1500.82	1951.44
Floor-To-Floor Height Multiplier	13.6	27.2	1709.08	1894.74
Perimeter Zone Depth	0	0	1753.50	1753.50
Floor R-Value for 24 in	0	0.01	1753.50	1753.50
Window-To-Wall Ratio	0	0.24	1733.70	1782.38
Window Sill Height	1	6	1753.50	1753.50
Window U-Value	0.12	1.22	1743.14	1763.02
Window SHGC	0.08	0.7	1745.68	1763.26
Window VLT	0.06	0.89	1753.50	1753.50
Wall Construction Type	masonry-on-masonry	wood-siding	1748.59	1769.57
Wall U-Value	0.03	0.58	1700.08	1982.11
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1748.70	1753.50
Roof U-Value	0.01	0.2	1704.82	2076.48
Daylighting Control Setpoint	0	0	1753.50	1753.50
Interior Lighting Power Density	0.42	4.2	1325.63	3220.82
Shading Projection Factor	0	1	1753.50	1754.84
Shading Height above Window	0	2	1751.22	1753.97
District Chiller Cooling Efficiency	0.52	1.48	1753.50	1753.50
Air Handler Fan Efficiency	22.66	81.56	1715.37	2552.42
Packaged DX Cooling Efficiency	2.37	4.63	1719.55	1820.00
Gas Heating Efficiency	0.87	1.13	1706.13	1815.60
Terminal DX Cooling Efficiency	0.68	1.32	1753.50	1753.50
Terminal Furnace Heating Efficiency	0.87	1.13	1753.50	1753.50
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1753.50	1753.50
Water Heater Energy Factor	1	99	1753.50	1773.51
Economizer	false	true	1736.82	1753.50
Fan Control	cav	false	1753.50	1753.50
Orientation	0	359	1753.50	1766.88



Total Electricity



Total Natural Gas

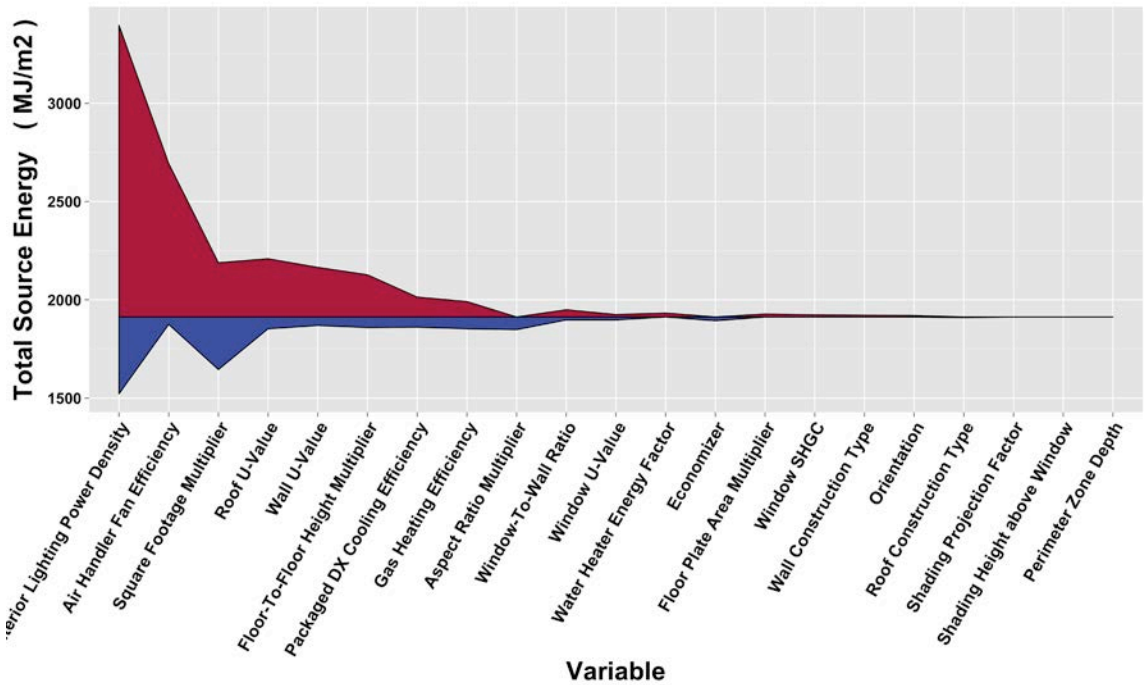


Location: Climate Zone 4A

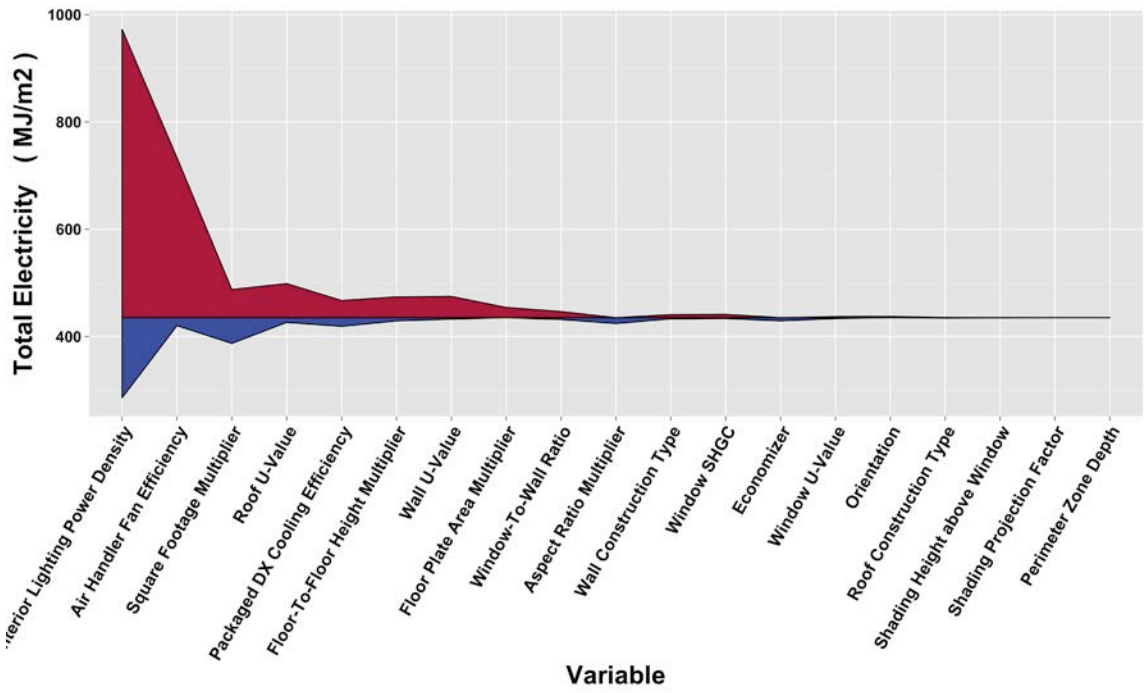
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1848.27	1912.73
Floor Plate Area Multiplier	11250	22500	1912.73	1927.80
Square Footage Multiplier	6750	67500	1645.10	2188.57
Floor-To-Floor Height Multiplier	13.6	27.2	1859.05	2127.23
Perimeter Zone Depth	0	0	1912.73	1912.73
Floor R-Value for 24 in	0	0.01	1912.73	1912.73
Window-To-Wall Ratio	0	0.24	1897.68	1949.50
Window Sill Height	1	6	1912.73	1912.73
Window U-Value	0.12	1.22	1897.59	1925.00
Window SHGC	0.08	0.7	1912.73	1923.42
Window VLT	0.06	0.89	1912.73	1912.73
Wall Construction Type	masonry-on-masonry	wood-siding	1912.73	1921.37
Wall U-Value	0.03	0.58	1869.44	2165.02
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1909.83	1912.73
Roof U-Value	0.01	0.2	1852.61	2208.83
Daylighting Control Setpoint	0	0	1912.73	1912.73
Interior Lighting Power Density	0.42	4.2	1521.53	3396.18
Shading Projection Factor	0	1	1912.73	1913.06

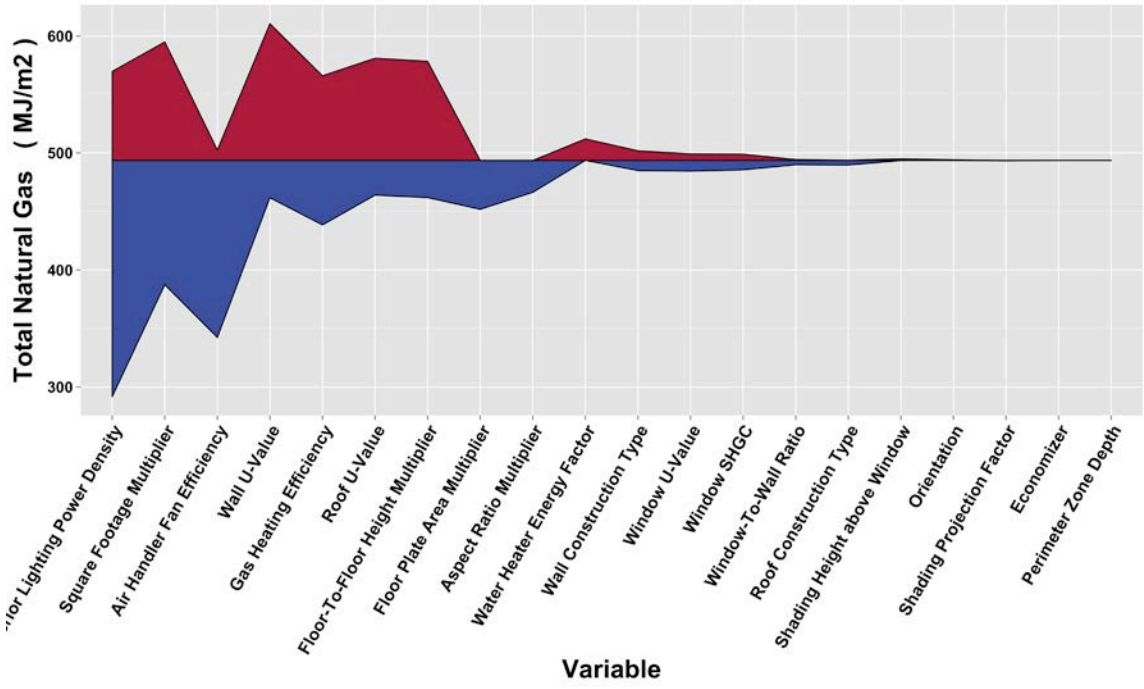
Shading Height above Window	0	2	1912.65	1912.88
District Chiller Cooling Efficiency	0.52	1.48	1912.73	1912.73
Air Handler Fan Efficiency	22.66	81.56	1875.17	2693.44
Packaged DX Cooling Efficiency	2.37	4.63	1861.07	2013.90
Gas Heating Efficiency	0.87	1.13	1852.88	1991.17
Terminal DX Cooling Efficiency	0.68	1.32	1912.73	1912.73
Terminal Furnace Heating Efficiency	0.87	1.13	1912.73	1912.73
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1912.73	1912.73
Water Heater Energy Factor	1	99	1912.73	1932.72
Economizer	false	true	1893.52	1912.73
Fan Control	cav	false	1912.73	1912.73
Orientation	0	359	1912.73	1920.13



Total Electricity



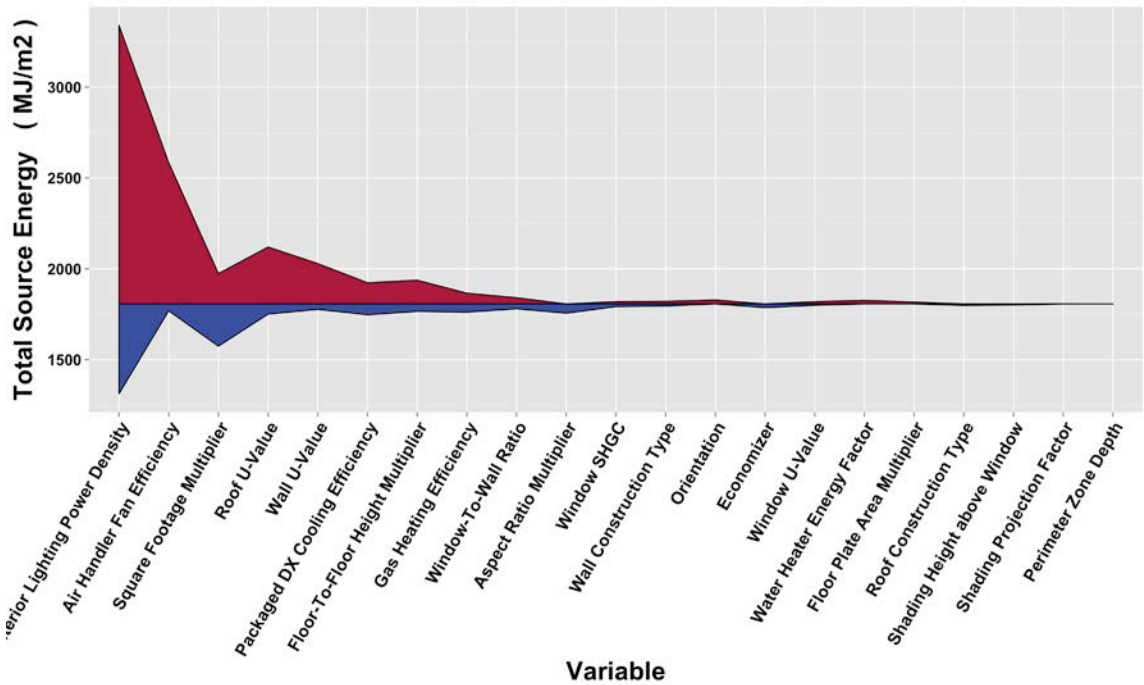
Total Natural Gas



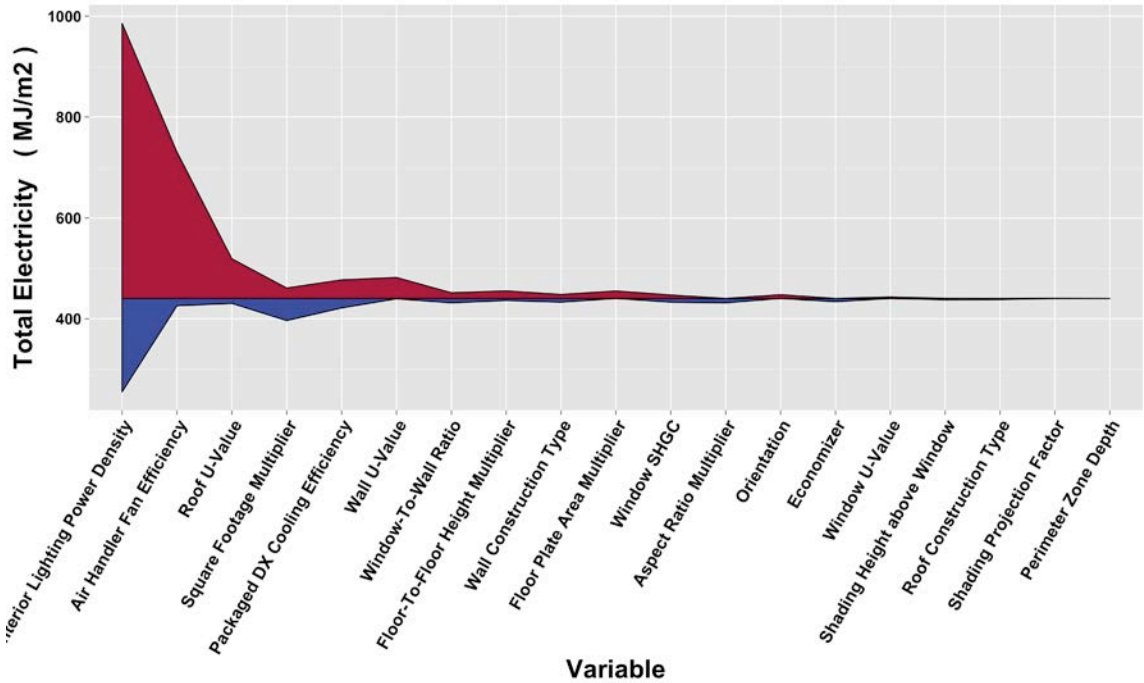
Location: Climate Zone 4B

Total Source Energy

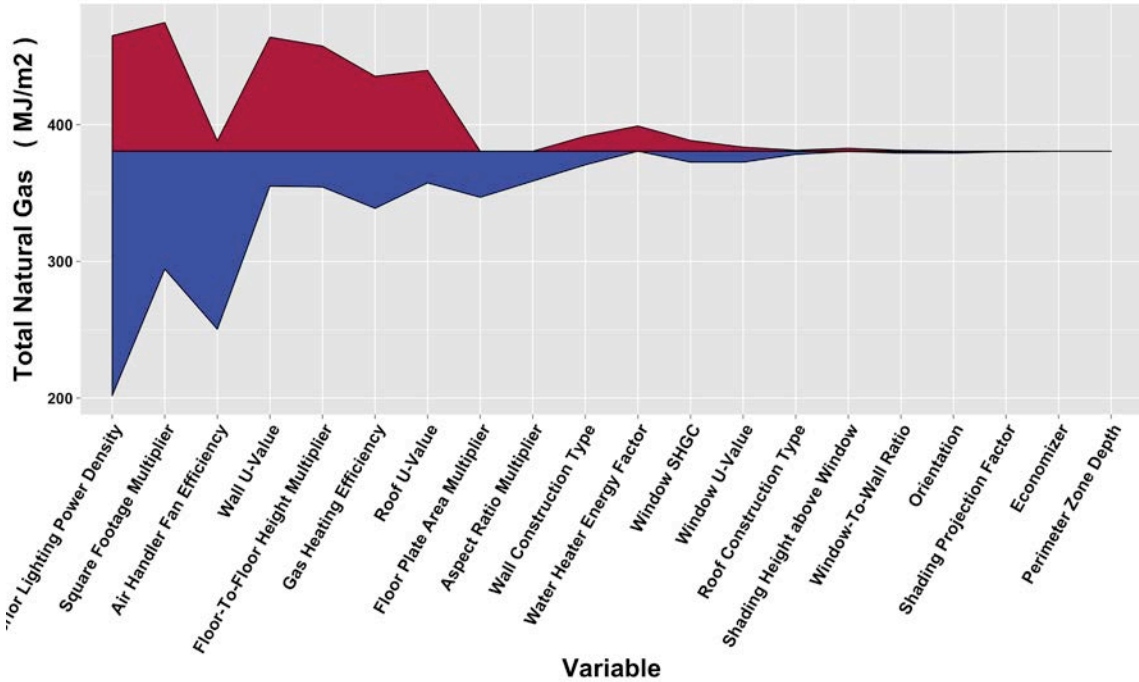
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1755.93	1807.07
Floor Plate Area Multiplier	11250	22500	1807.07	1817.50
Square Footage Multiplier	6750	67500	1574.58	1974.59
Floor-To-Floor Height Multiplier	13.6	27.2	1765.90	1937.86
Perimeter Zone Depth	0	0	1807.07	1807.07
Floor R-Value for 24 in	0	0.01	1807.07	1807.07
Window-To-Wall Ratio	0	0.24	1780.28	1841.43
Window Sill Height	1	6	1807.07	1807.07
Window U-Value	0.12	1.22	1799.59	1819.76
Window SHGC	0.08	0.7	1792.20	1820.17
Window VLT	0.06	0.89	1807.07	1807.07
Wall Construction Type	masonry-on-masonry	wood-siding	1795.60	1821.35
Wall U-Value	0.03	0.58	1777.21	2029.48
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1798.73	1807.07
Roof U-Value	0.01	0.2	1750.95	2120.60
Daylighting Control Setpoint	0	0	1807.07	1807.07
Interior Lighting Power Density	0.42	4.2	1312.20	3340.25
Shading Projection Factor	0	1	1807.07	1808.10
Shading Height above Window	0	2	1801.12	1807.60
District Chiller Cooling Efficiency	0.52	1.48	1807.07	1807.07
Air Handler Fan Efficiency	22.66	81.56	1769.28	2585.49
Packaged DX Cooling Efficiency	2.37	4.63	1747.47	1923.79
Gas Heating Efficiency	0.87	1.13	1761.75	1866.47
Terminal DX Cooling Efficiency	0.68	1.32	1807.07	1807.07
Terminal Furnace Heating Efficiency	0.87	1.13	1807.07	1807.07
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1807.07	1807.07
Water Heater Energy Factor	1	99	1807.07	1827.04
Economizer	false	true	1786.77	1807.07
Fan Control	cav	false	1807.07	1807.07
Orientation	0	359	1807.07	1829.23



Total Electricity



Total Natural Gas

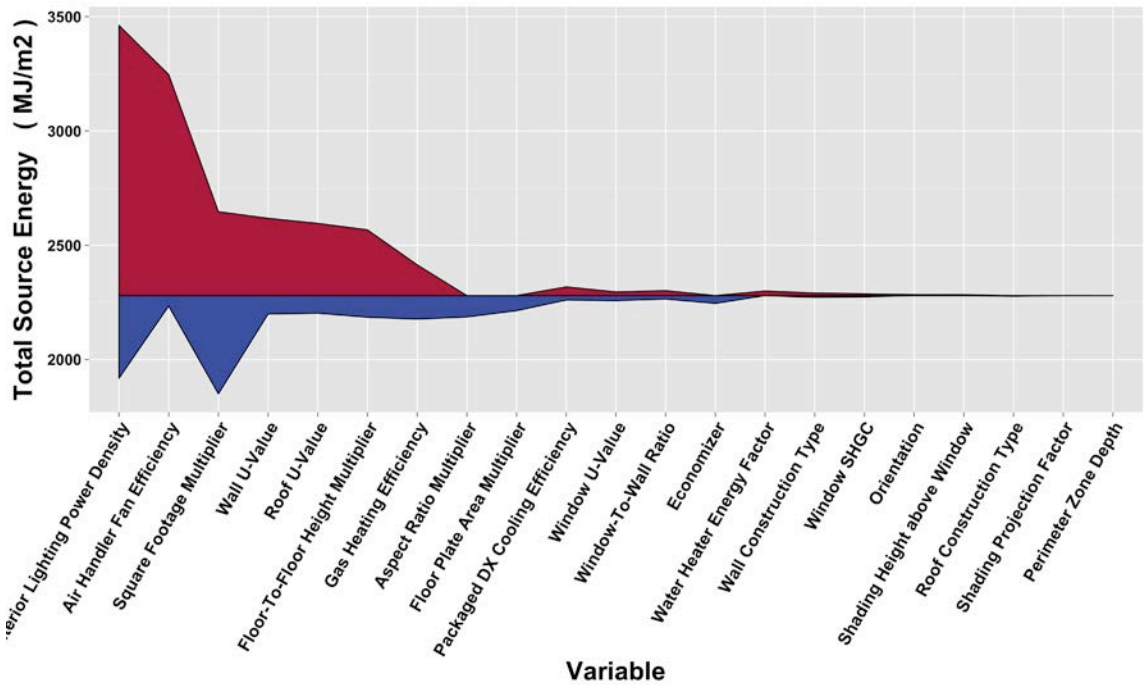


Location: Climate Zone 4C

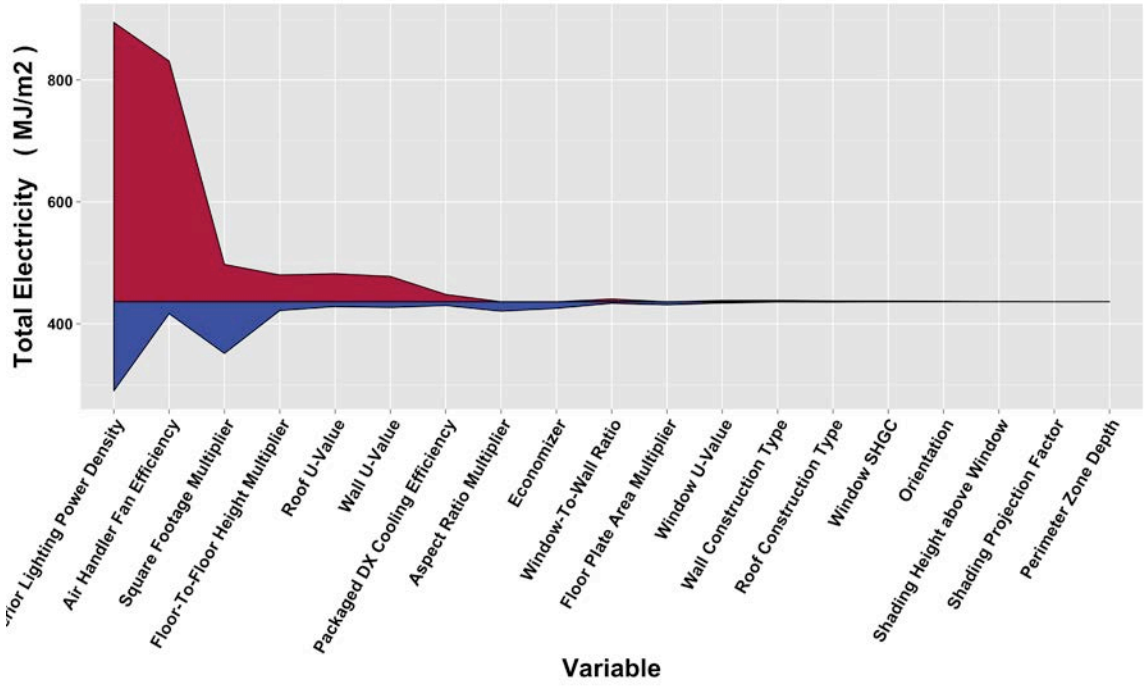
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	2186.13	2279.61
Floor Plate Area Multiplier	11250	22500	2213.64	2279.61
Square Footage Multiplier	6750	67500	1849.58	2646.74
Floor-To-Floor Height Multiplier	13.6	27.2	2184.89	2567.36
Perimeter Zone Depth	0	0	2279.61	2279.61
Floor R-Value for 24 in	0	0.01	2279.61	2279.61
Window-To-Wall Ratio	0	0.24	2264.62	2301.29
Window Sill Height	1	6	2279.61	2279.61
Window U-Value	0.12	1.22	2257.60	2295.67
Window SHGC	0.08	0.7	2274.14	2287.29
Window VLT	0.06	0.89	2279.61	2279.61
Wall Construction Type	masonry-on-masonry	wood-siding	2271.81	2290.79
Wall U-Value	0.03	0.58	2198.96	2617.79
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2276.49	2279.61
Roof U-Value	0.01	0.2	2202.79	2595.62
Daylighting Control Setpoint	0	0	2279.61	2279.61
Interior Lighting Power Density	0.42	4.2	1918.00	3461.92
Shading Projection Factor	0	1	2279.52	2279.61

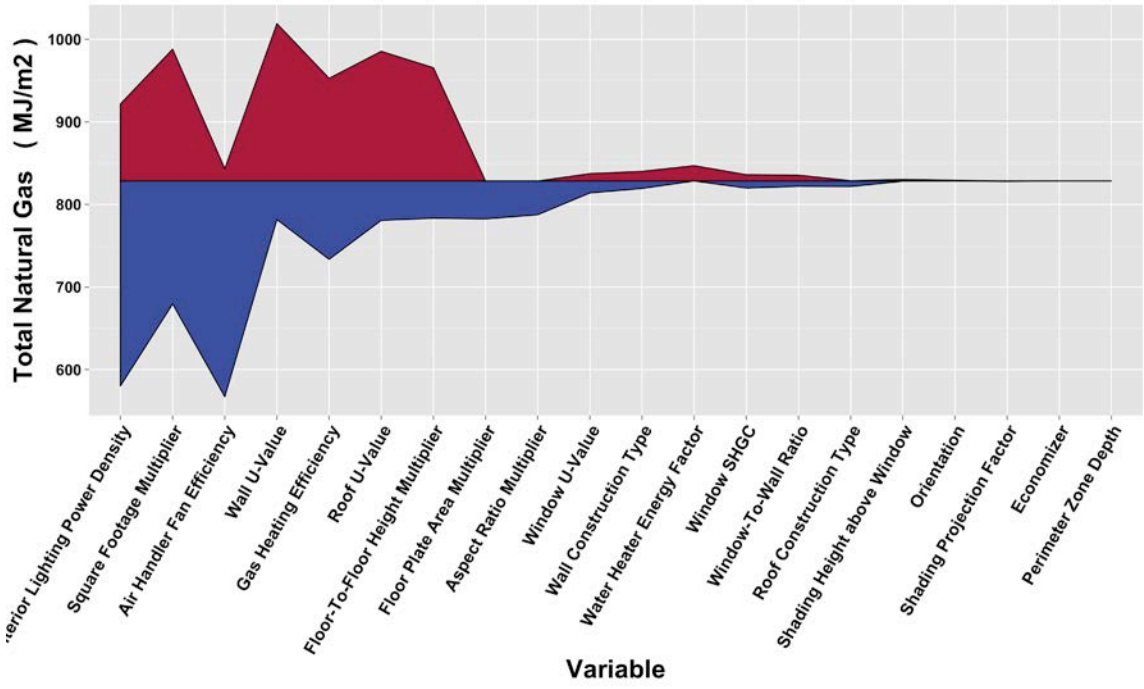
Shading Height above Window	0	2	2279.56	2283.39
District Chiller Cooling Efficiency	0.52	1.48	2279.61	2279.61
Air Handler Fan Efficiency	22.66	81.56	2233.86	3246.82
Packaged DX Cooling Efficiency	2.37	4.63	2260.16	2317.70
Gas Heating Efficiency	0.87	1.13	2176.76	2414.42
Terminal DX Cooling Efficiency	0.68	1.32	2279.61	2279.61
Terminal Furnace Heating Efficiency	0.87	1.13	2279.61	2279.61
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2279.61	2279.61
Water Heater Energy Factor	1	99	2279.61	2299.72
Economizer	false	true	2245.35	2279.61
Fan Control	cav	false	2279.61	2279.61
Orientation	0	359	2279.61	2283.51



Total Electricity



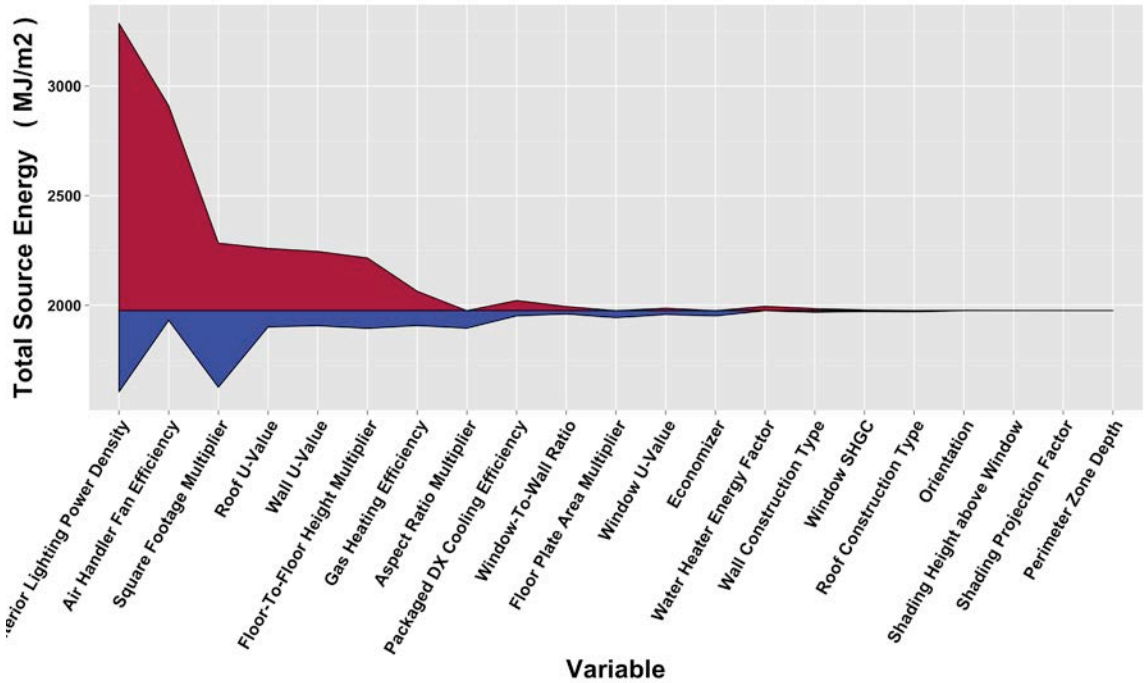
Total Natural Gas



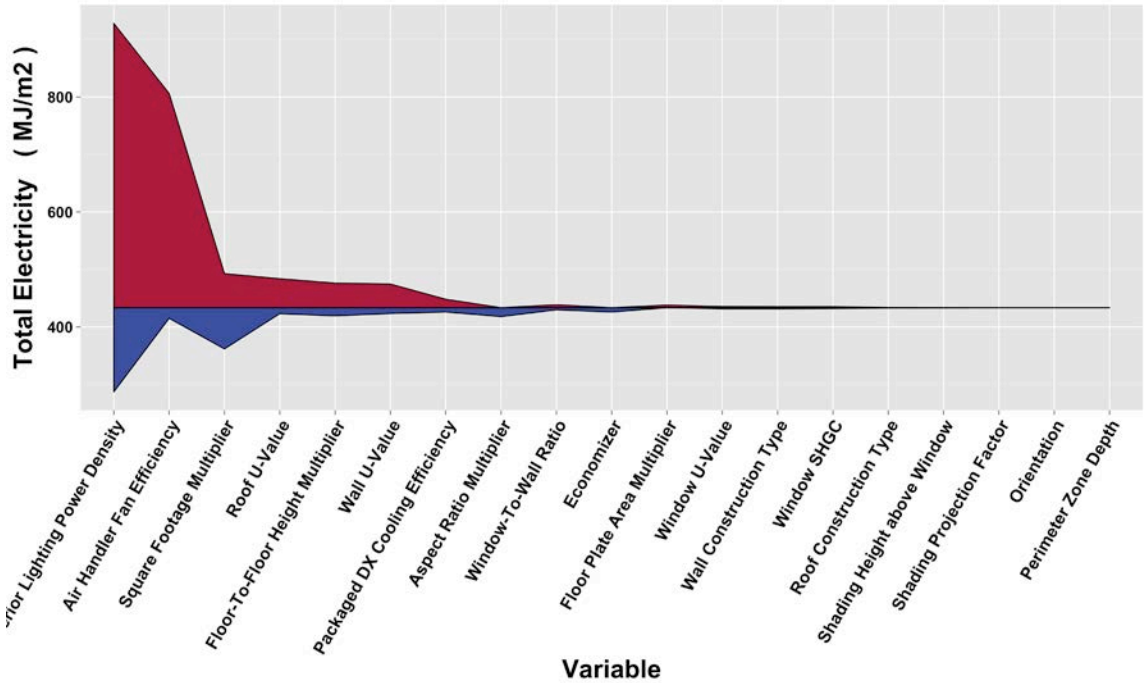
Location: Climate Zone 5A

Total Source Energy

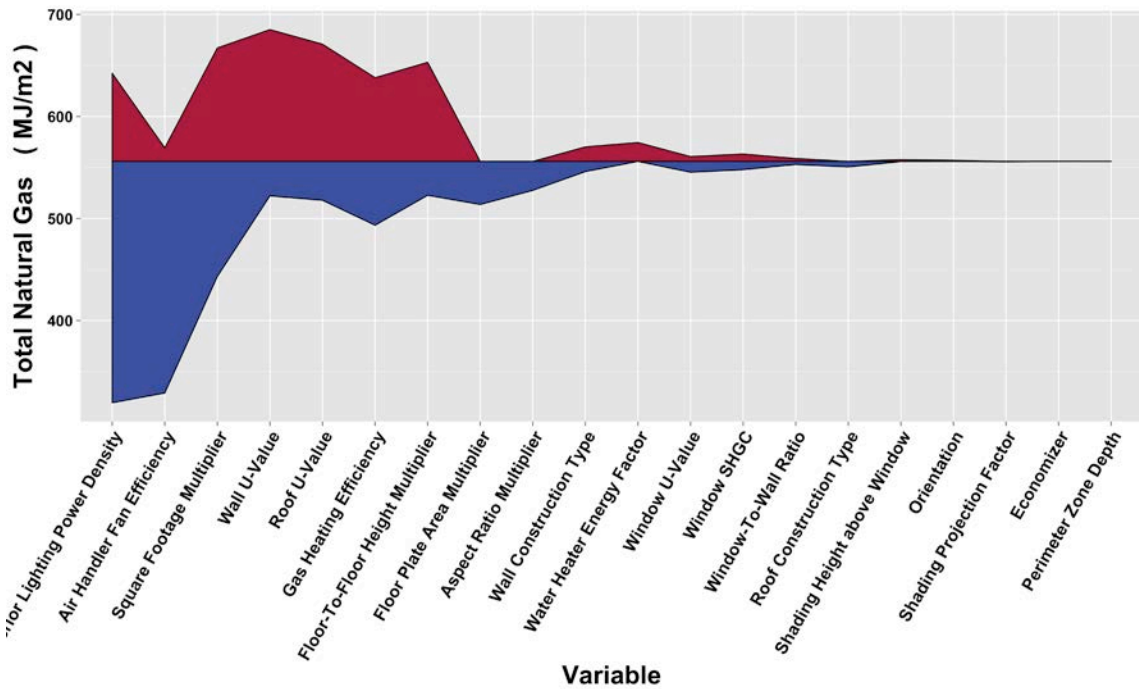
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1895.34	1975.29
Floor Plate Area Multiplier	11250	22500	1943.40	1975.29
Square Footage Multiplier	6750	67500	1625.74	2283.58
Floor-To-Floor Height Multiplier	13.6	27.2	1894.46	2215.92
Perimeter Zone Depth	0	0	1975.29	1975.29
Floor R-Value for 24 in	0	0.01	1975.29	1975.29
Window-To-Wall Ratio	0	0.24	1960.27	1994.33
Window Sill Height	1	6	1975.29	1975.29
Window U-Value	0.12	1.22	1957.75	1986.73
Window SHGC	0.08	0.7	1971.83	1978.54
Window VLT	0.06	0.89	1975.29	1975.29
Wall Construction Type	masonry-on-masonry	wood-siding	1967.83	1984.80
Wall U-Value	0.03	0.58	1906.63	2245.59
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1970.62	1975.29
Roof U-Value	0.01	0.2	1901.13	2259.43
Daylighting Control Setpoint	0	0	1975.29	1975.29
Interior Lighting Power Density	0.42	4.2	1604.96	3286.04
Shading Projection Factor	0	1	1975.29	1975.44
Shading Height above Window	0	2	1975.29	1975.62
District Chiller Cooling Efficiency	0.52	1.48	1975.29	1975.29
Air Handler Fan Efficiency	22.66	81.56	1931.20	2910.10
Packaged DX Cooling Efficiency	2.37	4.63	1951.51	2021.88
Gas Heating Efficiency	0.87	1.13	1907.45	2064.23
Terminal DX Cooling Efficiency	0.68	1.32	1975.29	1975.29
Terminal Furnace Heating Efficiency	0.87	1.13	1975.29	1975.29
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1975.29	1975.29
Water Heater Energy Factor	1	99	1975.29	1995.36
Economizer	false	true	1951.39	1975.29
Fan Control	cav	false	1975.29	1975.29
Orientation	0	359	1975.29	1976.56



Total Electricity



Total Natural Gas

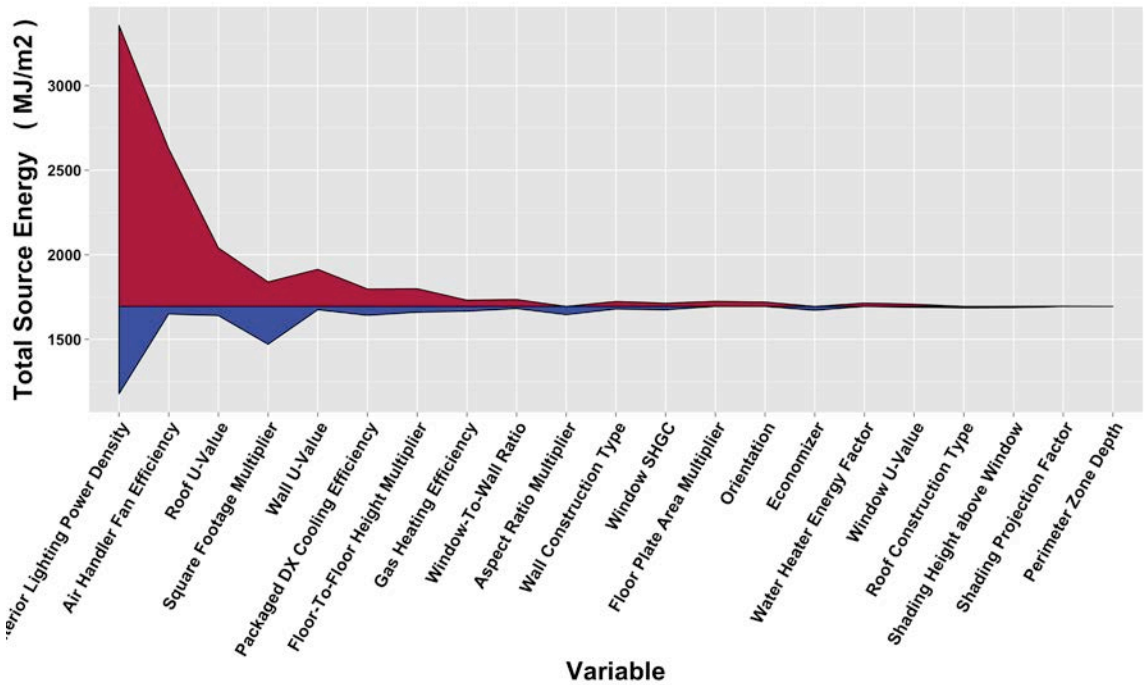


Location: Climate Zone 5B

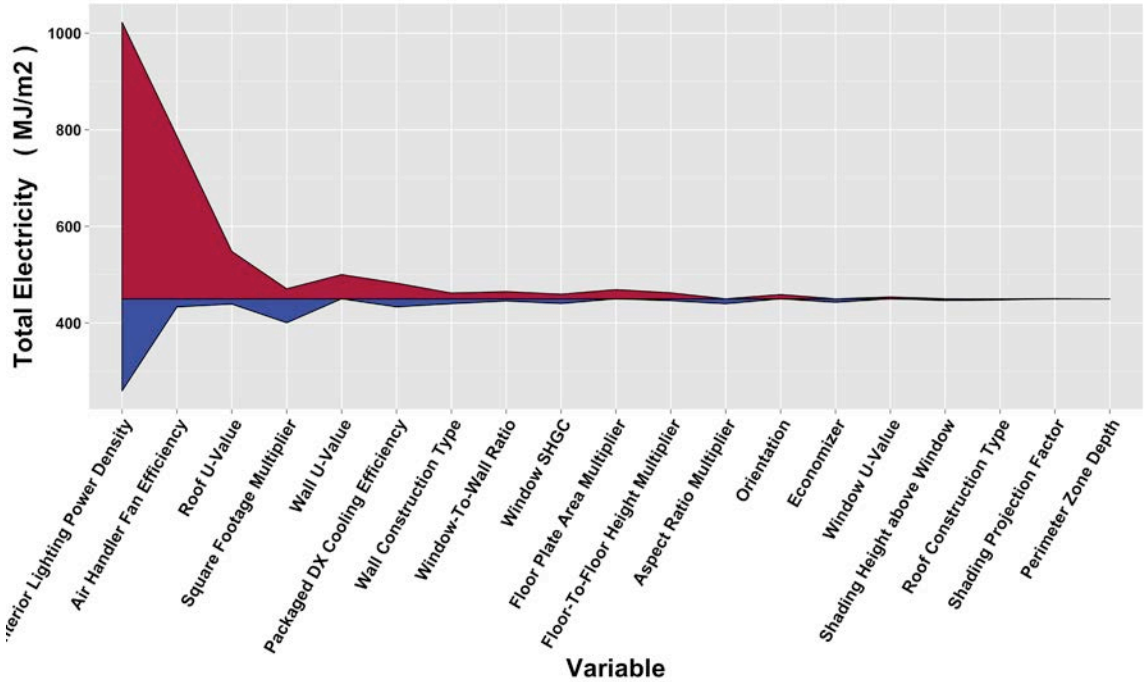
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1645.83	1694.55
Floor Plate Area Multiplier	11250	22500	1694.55	1725.01
Square Footage Multiplier	6750	67500	1470.60	1839.48
Floor-To-Floor Height Multiplier	13.6	27.2	1660.37	1799.49
Perimeter Zone Depth	0	0	1694.55	1694.55
Floor R-Value for 24 in	0	0.01	1694.55	1694.55
Window-To-Wall Ratio	0	0.24	1682.03	1735.34
Window Sill Height	1	6	1694.55	1694.55
Window U-Value	0.12	1.22	1689.67	1707.78
Window SHGC	0.08	0.7	1674.70	1713.82
Window VLT	0.06	0.89	1694.55	1694.55
Wall Construction Type	masonry-on-masonry	wood-siding	1679.34	1724.20
Wall U-Value	0.03	0.58	1674.98	1914.30
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1685.76	1694.55
Roof U-Value	0.01	0.2	1640.30	2041.12
Daylighting Control Setpoint	0	0	1694.55	1694.55
Interior Lighting Power Density	0.42	4.2	1177.33	3357.24
Shading Projection Factor	0	1	1694.55	1695.66

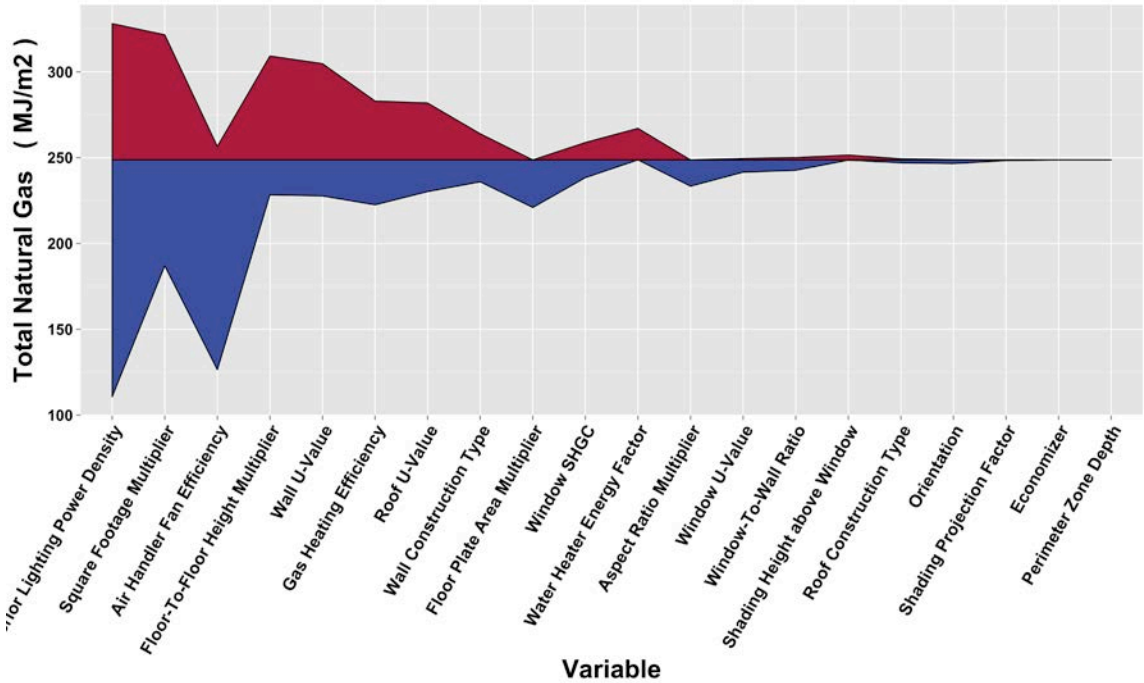
Shading Height above Window	0	2	1686.94	1695.18
District Chiller Cooling Efficiency	0.52	1.48	1694.55	1694.55
Air Handler Fan Efficiency	22.66	81.56	1649.99	2627.27
Packaged DX Cooling Efficiency	2.37	4.63	1641.83	1797.79
Gas Heating Efficiency	0.87	1.13	1666.18	1731.73
Terminal DX Cooling Efficiency	0.68	1.32	1694.55	1694.55
Terminal Furnace Heating Efficiency	0.87	1.13	1694.55	1694.55
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1694.55	1694.55
Water Heater Energy Factor	1	99	1694.55	1714.50
Economizer	false	true	1671.64	1694.55
Fan Control	cav	false	1694.55	1694.55
Orientation	0	359	1694.55	1720.57



Total Electricity



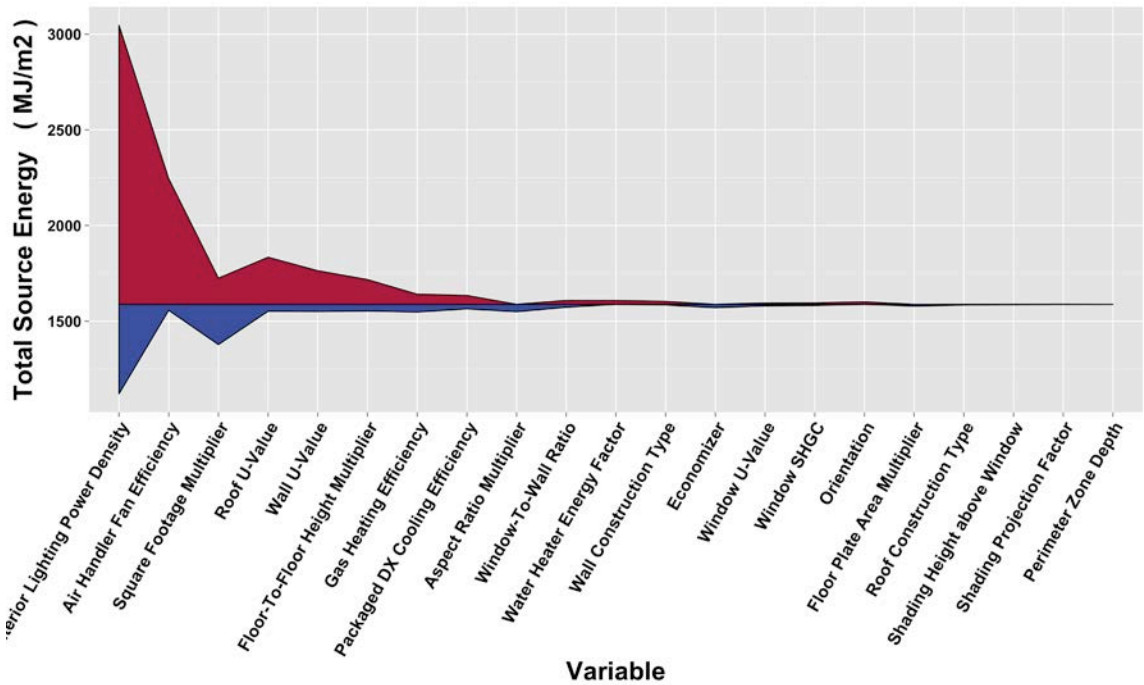
Total Natural Gas



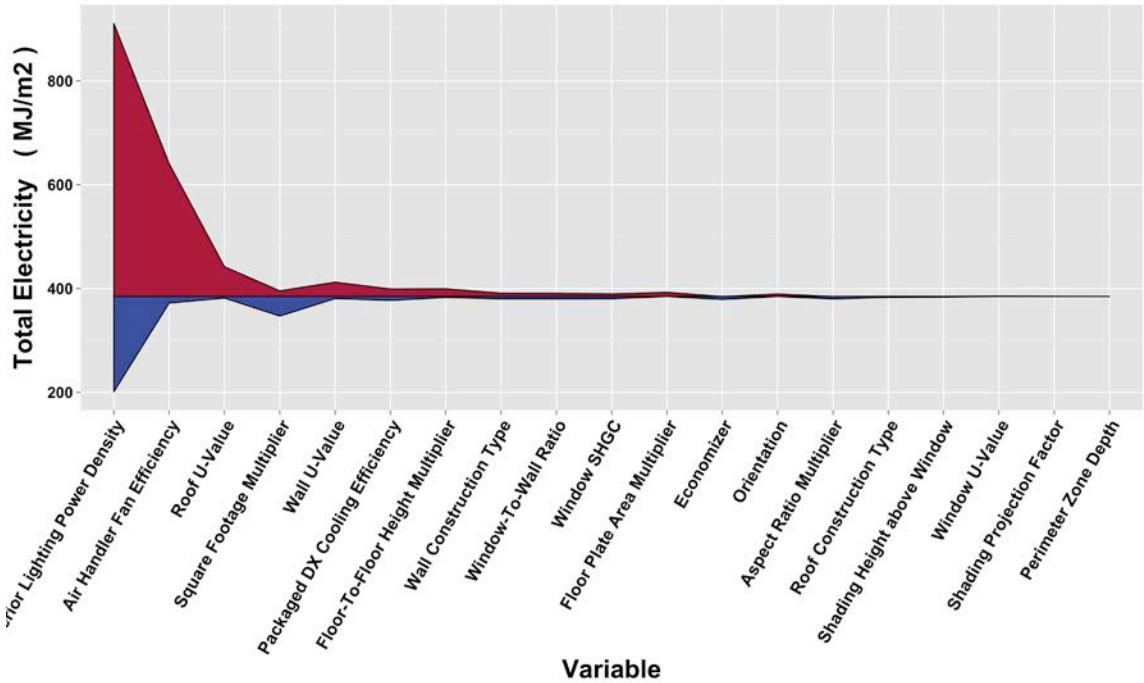
Location: Climate Zone 5C

Total Source Energy

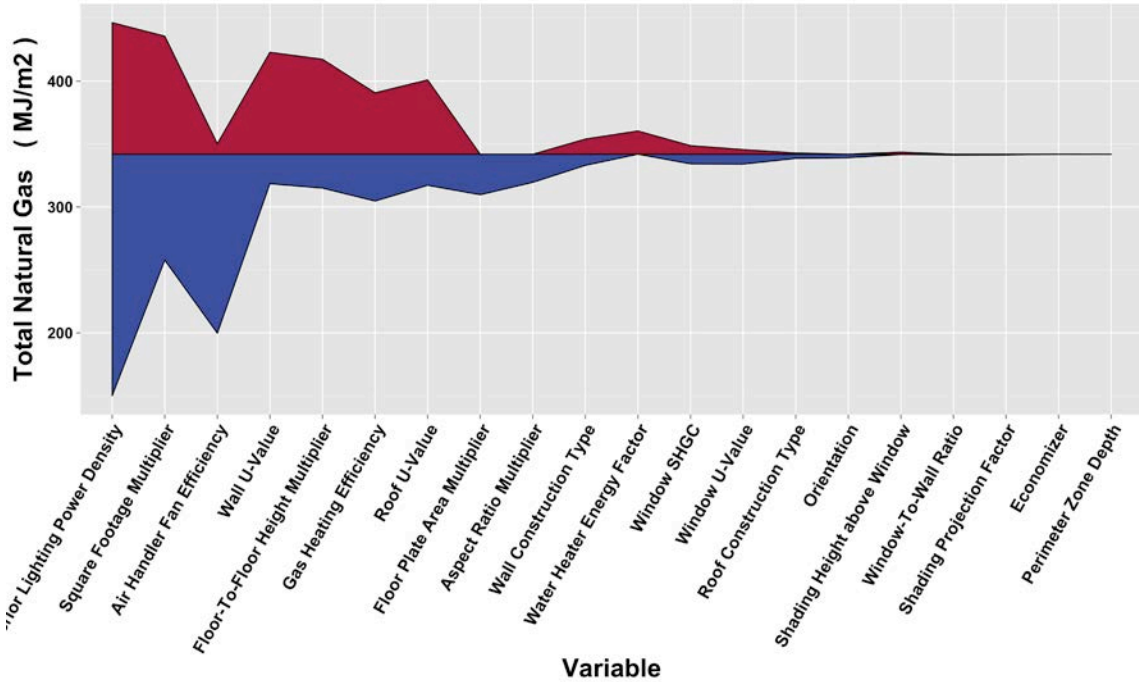
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1549.42	1588.12
Floor Plate Area Multiplier	11250	22500	1578.98	1588.12
Square Footage Multiplier	6750	67500	1377.55	1724.72
Floor-To-Floor Height Multiplier	13.6	27.2	1553.41	1717.28
Perimeter Zone Depth	0	0	1588.12	1588.12
Floor R-Value for 24 in	0	0.01	1588.12	1588.12
Window-To-Wall Ratio	0	0.24	1572.83	1608.34
Window Sill Height	1	6	1588.12	1588.12
Window U-Value	0.12	1.22	1580.21	1595.12
Window SHGC	0.08	0.7	1581.94	1595.52
Window VLT	0.06	0.89	1588.12	1588.12
Wall Construction Type	masonry-on-masonry	wood-siding	1584.79	1603.10
Wall U-Value	0.03	0.58	1550.30	1763.64
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1584.37	1588.12
Roof U-Value	0.01	0.2	1551.88	1834.13
Daylighting Control Setpoint	0	0	1588.12	1588.12
Interior Lighting Power Density	0.42	4.2	1120.01	3046.22
Shading Projection Factor	0	1	1588.12	1588.92
Shading Height above Window	0	2	1586.43	1588.35
District Chiller Cooling Efficiency	0.52	1.48	1588.12	1588.12
Air Handler Fan Efficiency	22.66	81.56	1556.92	2244.77
Packaged DX Cooling Efficiency	2.37	4.63	1564.50	1634.37
Gas Heating Efficiency	0.87	1.13	1547.78	1640.99
Terminal DX Cooling Efficiency	0.68	1.32	1588.12	1588.12
Terminal Furnace Heating Efficiency	0.87	1.13	1588.12	1588.12
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1588.12	1588.12
Water Heater Energy Factor	1	99	1588.12	1608.13
Economizer	false	true	1570.27	1588.12
Fan Control	cav	false	1588.12	1588.12
Orientation	0	359	1588.07	1600.74



Total Electricity



Total Natural Gas

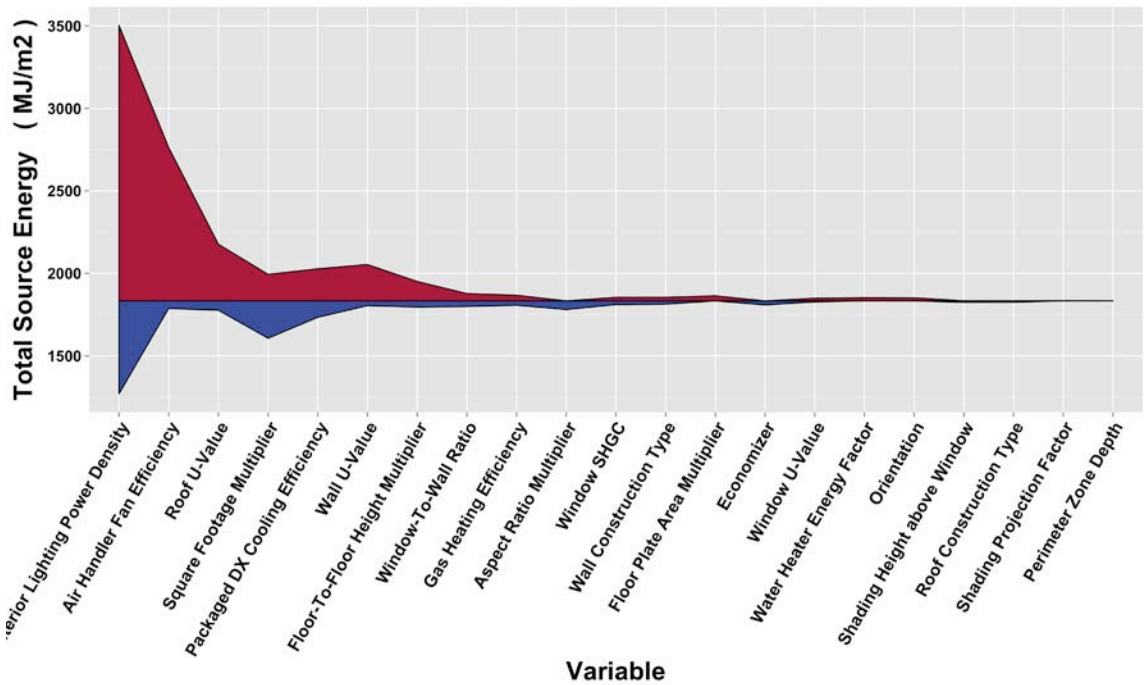


Location: Climate Zone 6A

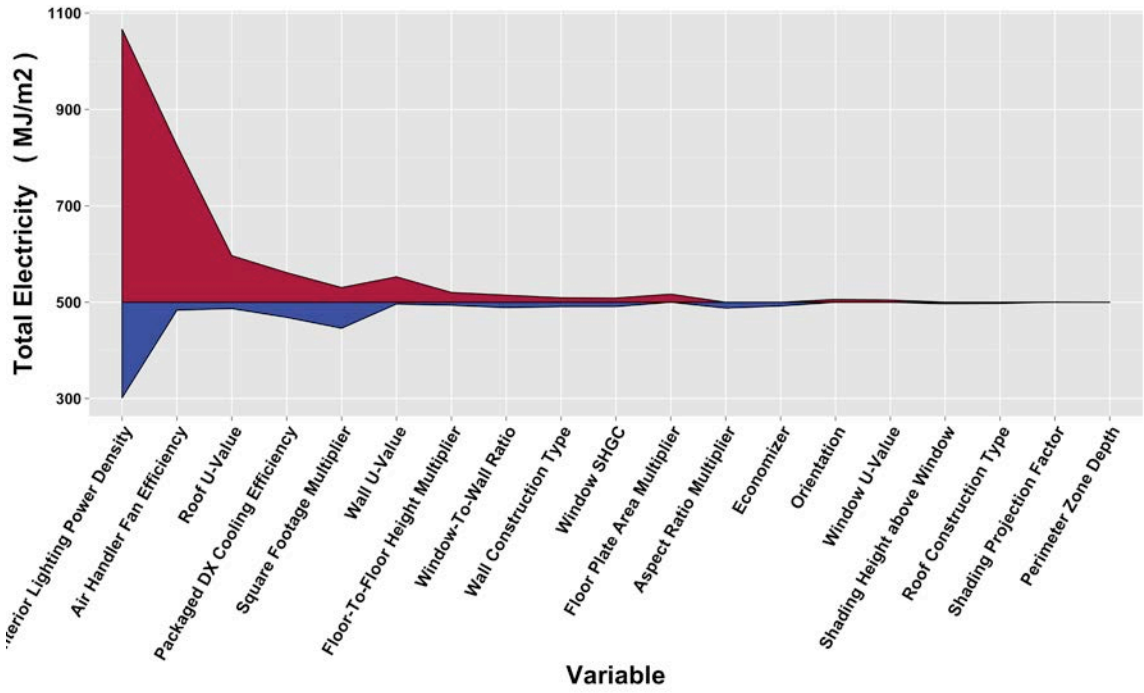
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1780.90	1833.23
Floor Plate Area Multiplier	11250	22500	1833.23	1864.09
Square Footage Multiplier	6750	67500	1606.99	1994.10
Floor-To-Floor Height Multiplier	13.6	27.2	1795.80	1951.00
Perimeter Zone Depth	0	0	1833.23	1833.23
Floor R-Value for 24 in	0	0.01	1833.23	1833.23
Window-To-Wall Ratio	0	0.24	1799.29	1877.78
Window Sill Height	1	6	1833.23	1833.23
Window U-Value	0.12	1.22	1827.46	1849.28
Window SHGC	0.08	0.7	1810.91	1854.80
Window VLT	0.06	0.89	1833.23	1833.23
Wall Construction Type	masonry-on-masonry	wood-siding	1813.48	1854.90
Wall U-Value	0.03	0.58	1804.78	2053.69
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1825.63	1833.23
Roof U-Value	0.01	0.2	1776.51	2176.94
Daylighting Control Setpoint	0	0	1833.23	1833.23
Interior Lighting Power Density	0.42	4.2	1270.02	3502.71
Shading Projection Factor	0	1	1833.23	1834.74

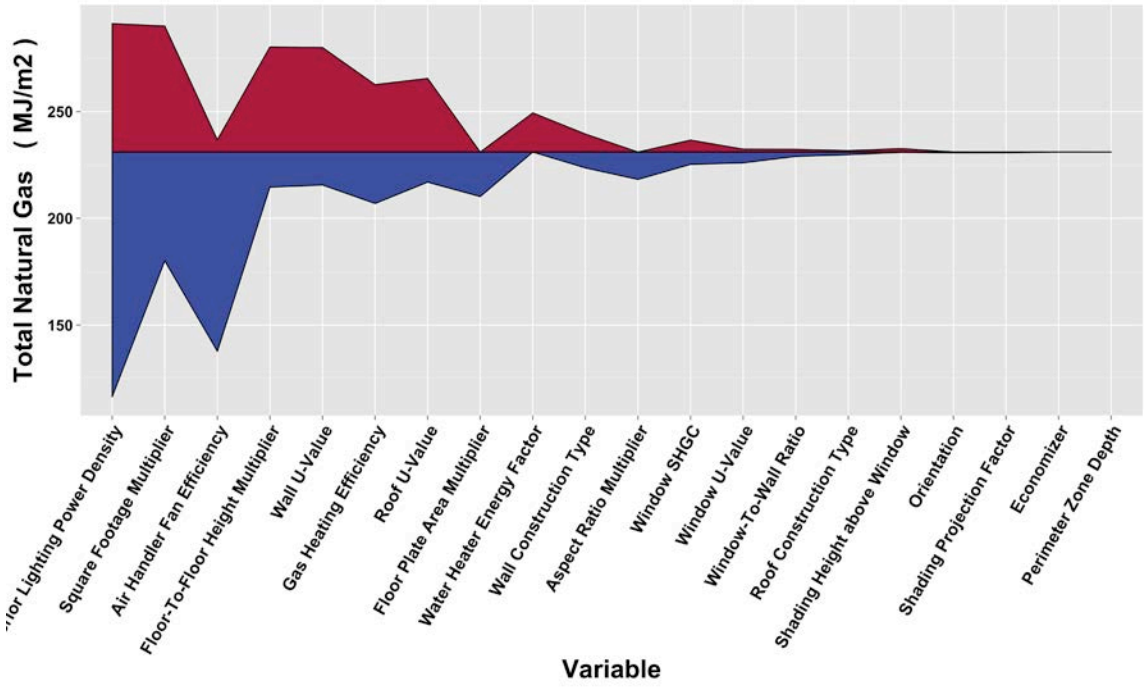
Shading Height above Window	0	2	1824.74	1833.99
District Chiller Cooling Efficiency	0.52	1.48	1833.23	1833.23
Air Handler Fan Efficiency	22.66	81.56	1787.72	2762.42
Packaged DX Cooling Efficiency	2.37	4.63	1733.85	2027.86
Gas Heating Efficiency	0.87	1.13	1807.12	1867.47
Terminal DX Cooling Efficiency	0.68	1.32	1833.23	1833.23
Terminal Furnace Heating Efficiency	0.87	1.13	1833.23	1833.23
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1833.23	1833.23
Water Heater Energy Factor	1	99	1833.23	1853.13
Economizer	false	true	1808.95	1833.23
Fan Control	cav	false	1833.23	1833.23
Orientation	0	359	1833.23	1851.81



Total Electricity



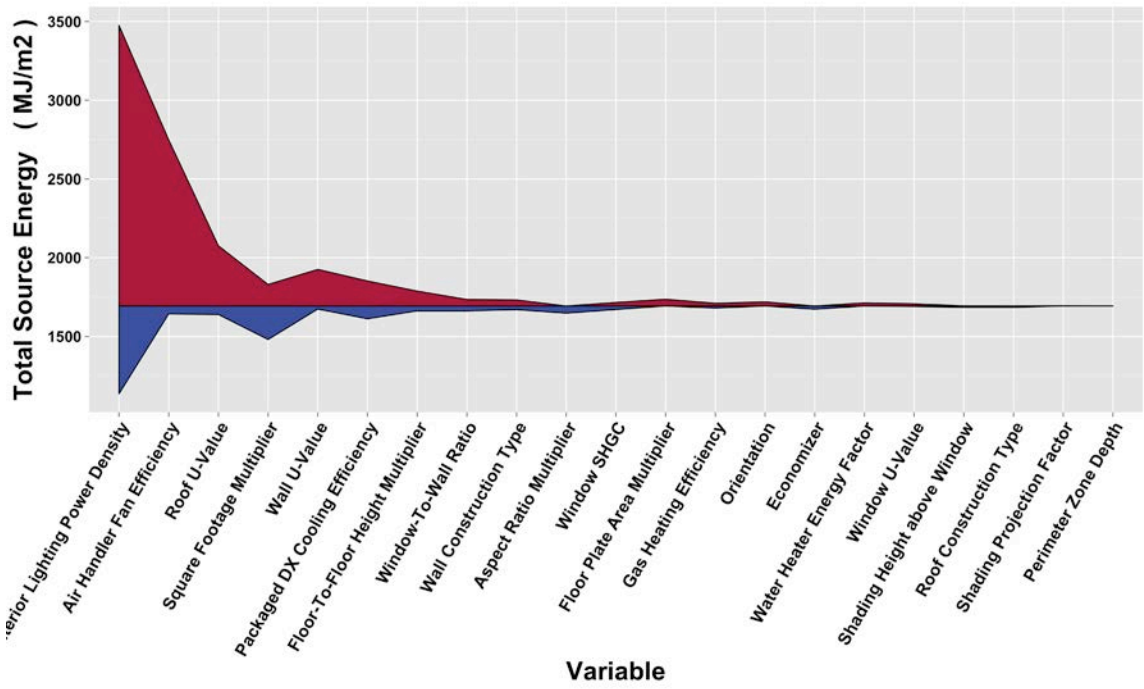
Total Natural Gas



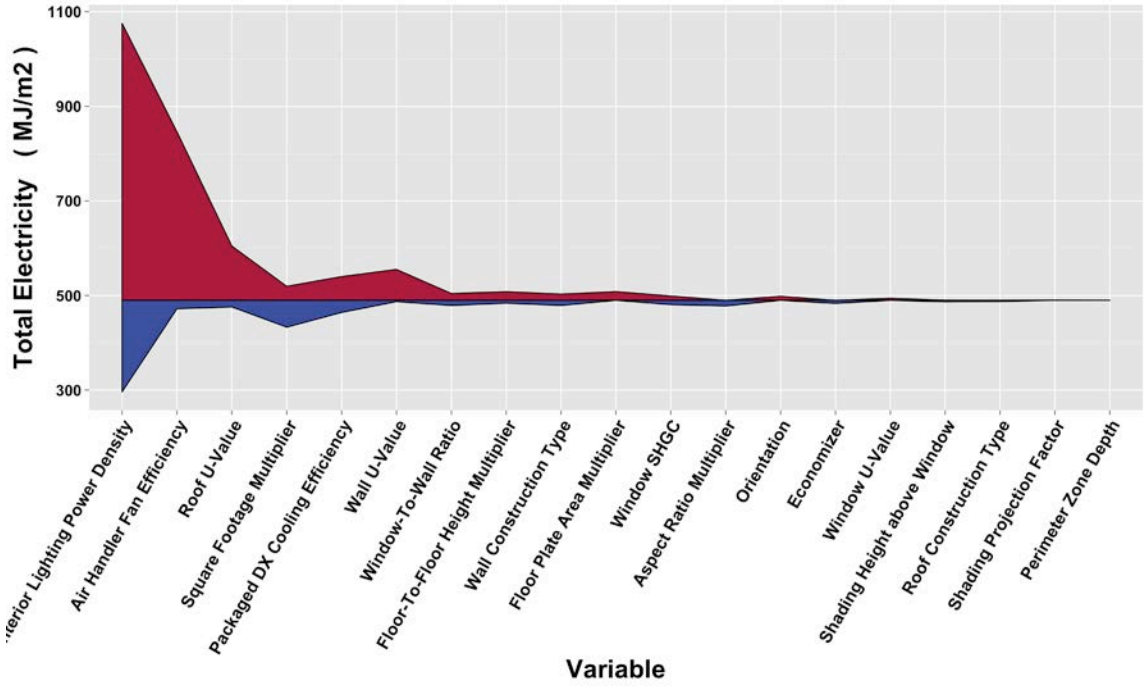
Location: Climate Zone 6B

Total Source Energy

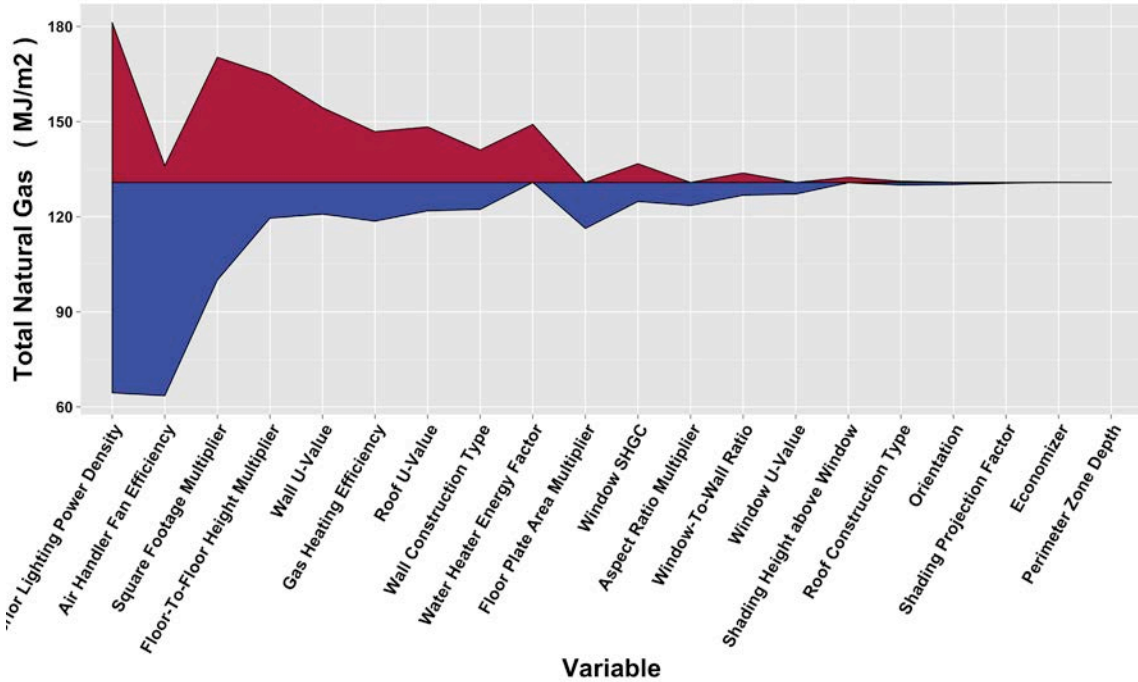
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1647.41	1693.07
Floor Plate Area Multiplier	11250	22500	1693.07	1735.83
Square Footage Multiplier	6750	67500	1480.11	1829.83
Floor-To-Floor Height Multiplier	13.6	27.2	1662.04	1787.81
Perimeter Zone Depth	0	0	1693.07	1693.07
Floor R-Value for 24 in	0	0.01	1693.07	1693.07
Window-To-Wall Ratio	0	0.24	1661.90	1734.78
Window Sill Height	1	6	1693.07	1693.07
Window U-Value	0.12	1.22	1689.85	1706.87
Window SHGC	0.08	0.7	1670.79	1715.51
Window VLT	0.06	0.89	1693.07	1693.07
Wall Construction Type	masonry-on-masonry	wood-siding	1669.96	1731.44
Wall U-Value	0.03	0.58	1673.46	1925.72
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1684.72	1693.07
Roof U-Value	0.01	0.2	1639.09	2075.83
Daylighting Control Setpoint	0	0	1693.07	1693.07
Interior Lighting Power Density	0.42	4.2	1135.05	3475.26
Shading Projection Factor	0	1	1693.07	1694.67
Shading Height above Window	0	2	1685.03	1693.89
District Chiller Cooling Efficiency	0.52	1.48	1693.07	1693.07
Air Handler Fan Efficiency	22.66	81.56	1642.60	2748.53
Packaged DX Cooling Efficiency	2.37	4.63	1611.86	1852.10
Gas Heating Efficiency	0.87	1.13	1679.83	1710.42
Terminal DX Cooling Efficiency	0.68	1.32	1693.07	1693.07
Terminal Furnace Heating Efficiency	0.87	1.13	1693.07	1693.07
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1693.07	1693.07
Water Heater Energy Factor	1	99	1693.07	1712.94
Economizer	false	true	1672.48	1693.07
Fan Control	cav	false	1693.07	1693.07
Orientation	0	359	1693.07	1719.23



Total Electricity



Total Natural Gas

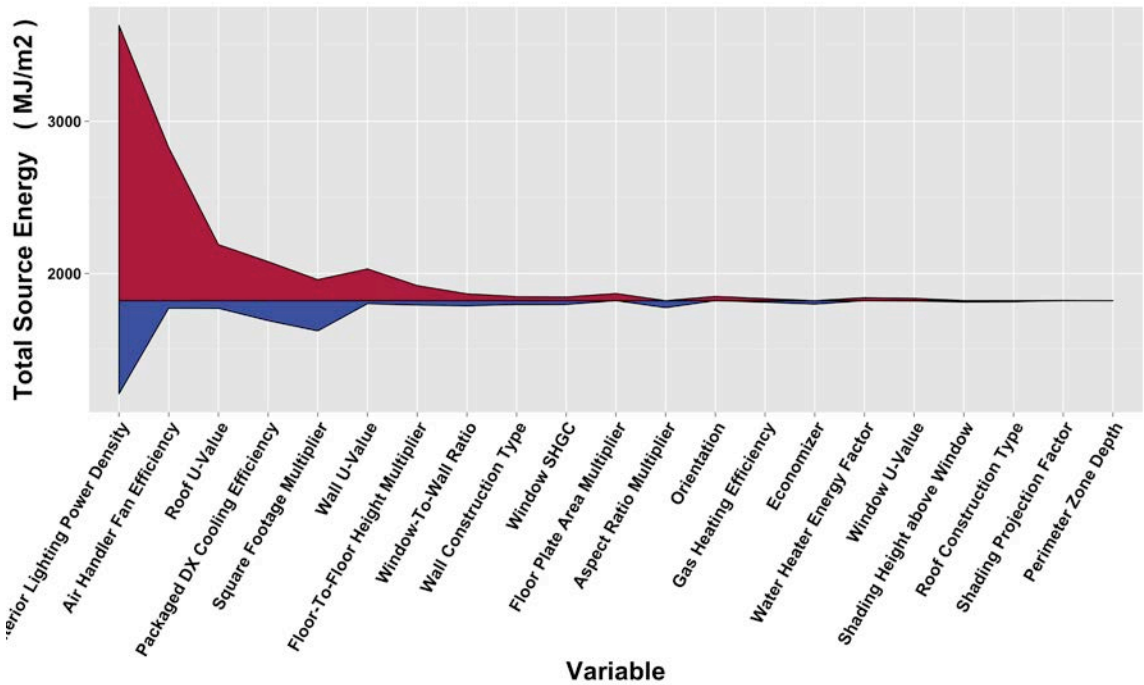


Location: Climate Zone 7

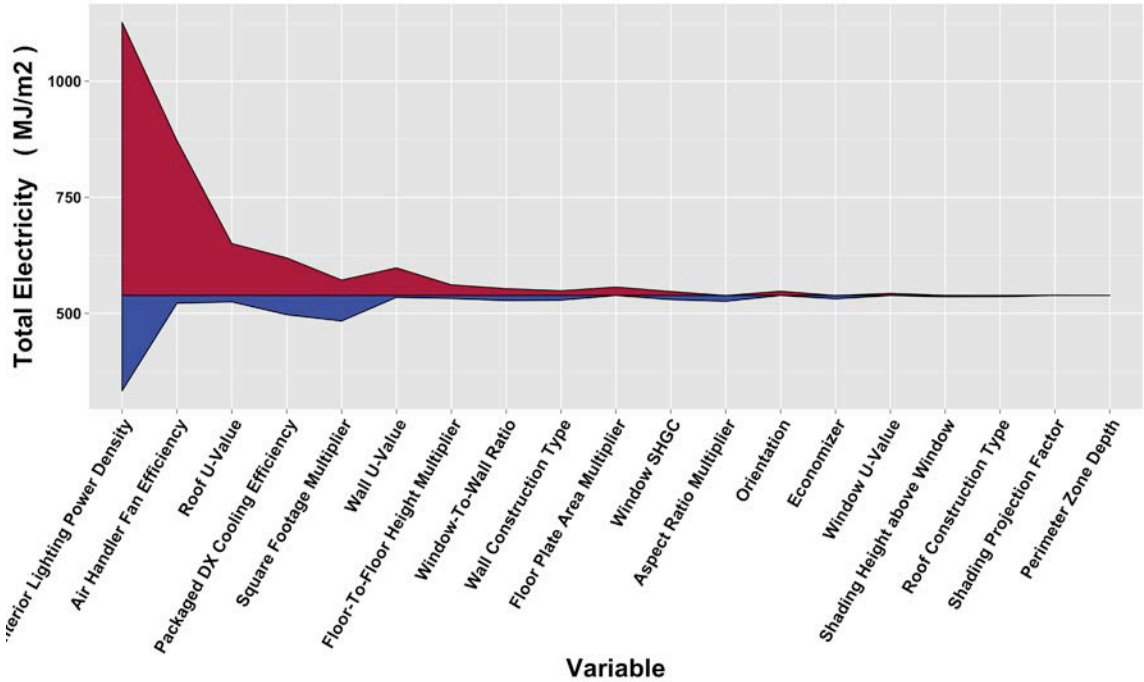
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1775.68	1821.57
Floor Plate Area Multiplier	11250	22500	1821.57	1868.70
Square Footage Multiplier	6750	67500	1622.68	1959.59
Floor-To-Floor Height Multiplier	13.6	27.2	1792.57	1920.88
Perimeter Zone Depth	0	0	1821.57	1821.57
Floor R-Value for 24 in	0	0.01	1821.57	1821.57
Window-To-Wall Ratio	0	0.24	1787.88	1866.58
Window Sill Height	1	6	1821.57	1821.57
Window U-Value	0.12	1.22	1818.75	1836.78
Window SHGC	0.08	0.7	1796.74	1845.68
Window VLT	0.06	0.89	1821.57	1821.57
Wall Construction Type	masonry-on-masonry	wood-siding	1796.05	1848.19
Wall U-Value	0.03	0.58	1801.65	2030.33
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1814.50	1821.57
Roof U-Value	0.01	0.2	1771.43	2190.19
Daylighting Control Setpoint	0	0	1821.57	1821.57
Interior Lighting Power Density	0.42	4.2	1209.20	3630.23
Shading Projection Factor	0	1	1821.57	1823.39

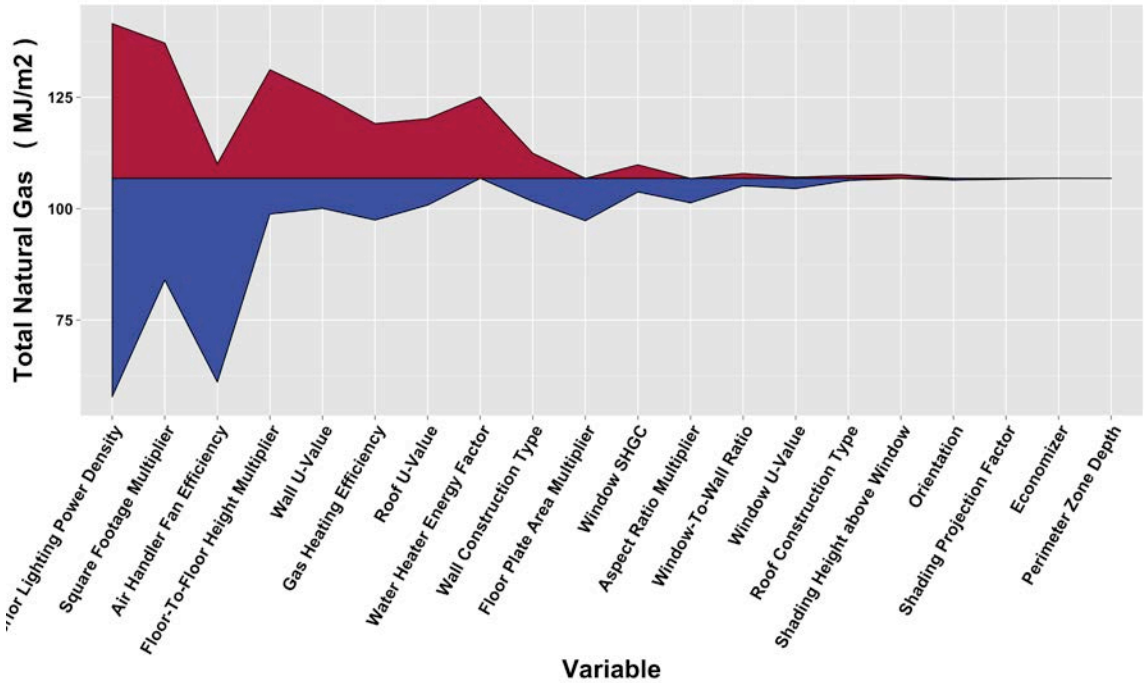
Shading Height above Window	0	2	1813.21	1822.47
District Chiller Cooling Efficiency	0.52	1.48	1821.57	1821.57
Air Handler Fan Efficiency	22.66	81.56	1772.17	2827.58
Packaged DX Cooling Efficiency	2.37	4.63	1690.49	2078.27
Gas Heating Efficiency	0.87	1.13	1811.42	1834.89
Terminal DX Cooling Efficiency	0.68	1.32	1821.57	1821.57
Terminal Furnace Heating Efficiency	0.87	1.13	1821.57	1821.57
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1821.57	1821.57
Water Heater Energy Factor	1	99	1821.57	1841.40
Economizer	false	true	1798.77	1821.57
Fan Control	cav	false	1821.57	1821.57
Orientation	0	359	1821.57	1850.03



Total Electricity



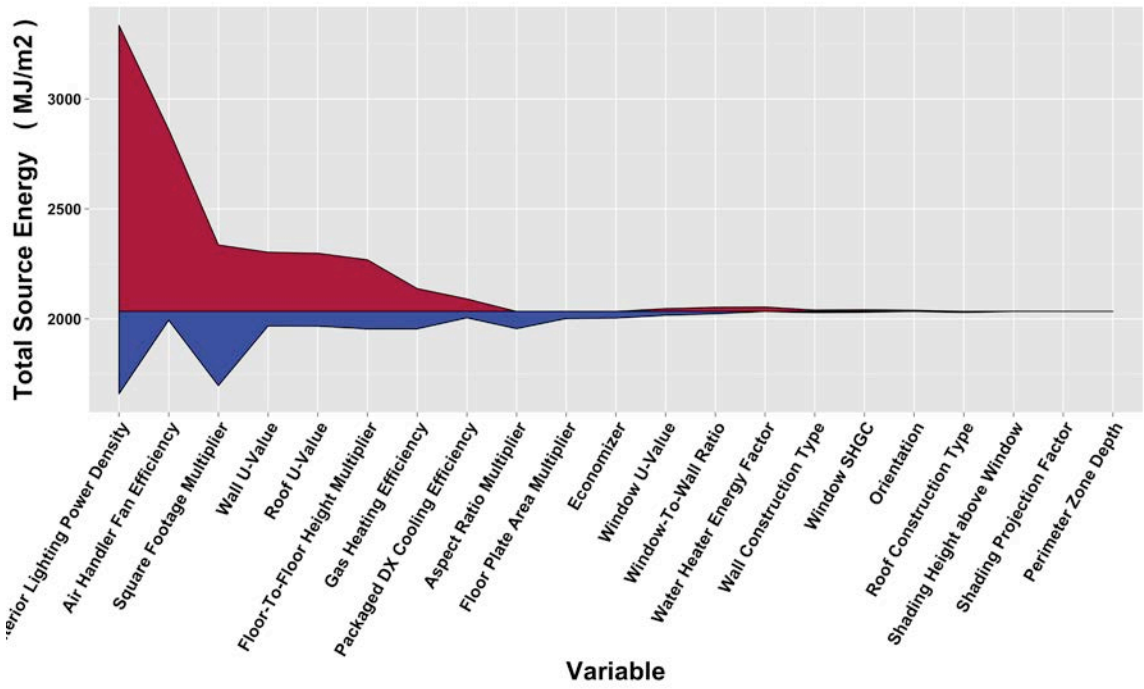
Total Natural Gas



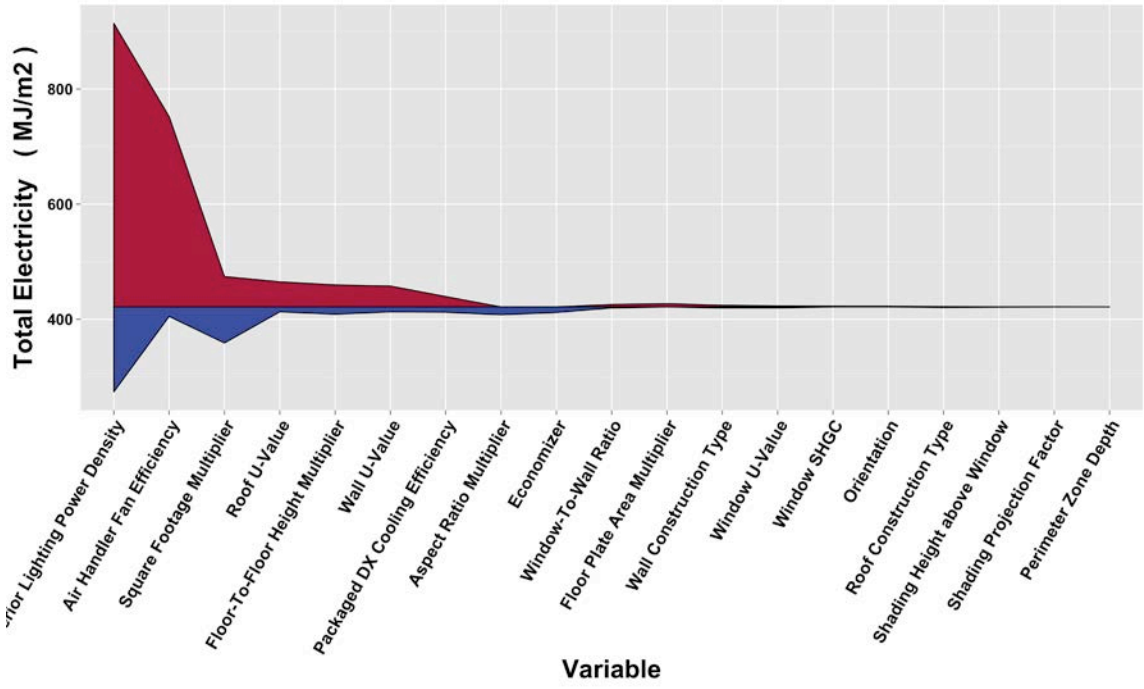
Location: Climate Zone 8

Total Source Energy

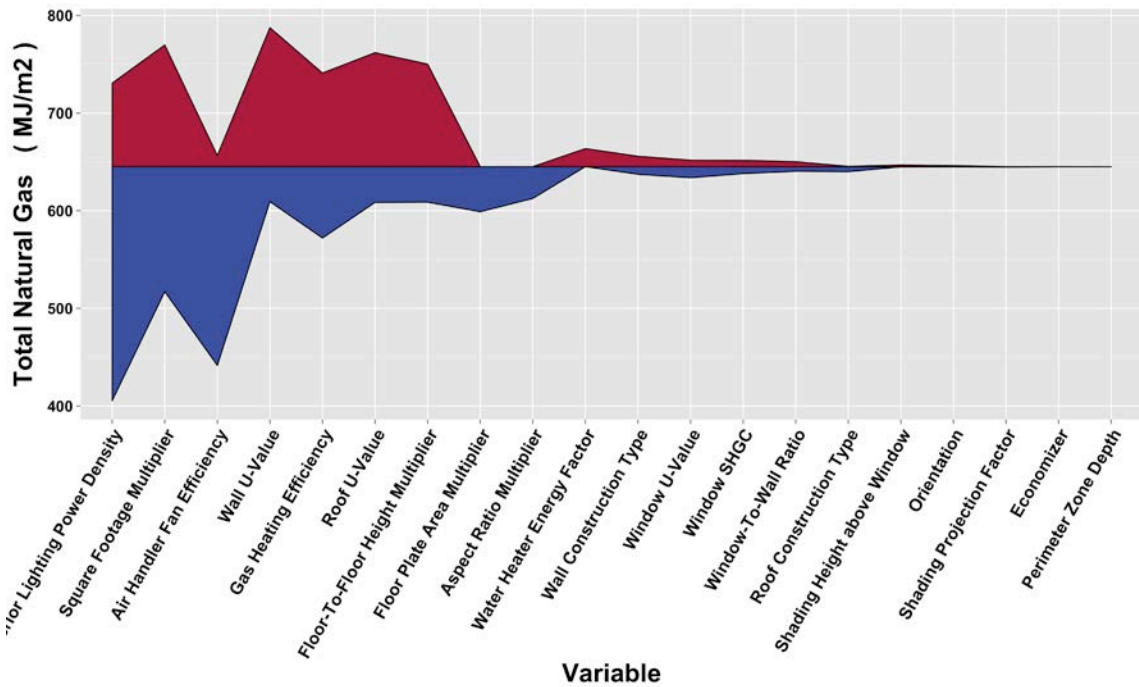
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.25	1.25	1955.68	2034.02
Floor Plate Area Multiplier	11250	22500	2001.77	2034.02
Square Footage Multiplier	6750	67500	1696.56	2336.32
Floor-To-Floor Height Multiplier	13.6	27.2	1954.58	2268.86
Perimeter Zone Depth	0	0	2034.02	2034.02
Floor R-Value for 24 in	0	0.01	2034.02	2034.02
Window-To-Wall Ratio	0	0.24	2023.41	2052.75
Window Sill Height	1	6	2034.02	2034.02
Window U-Value	0.12	1.22	2016.72	2046.62
Window SHGC	0.08	0.7	2030.81	2041.49
Window VLT	0.06	0.89	2034.02	2034.02
Wall Construction Type	masonry-on-masonry	wood-siding	2028.33	2040.14
Wall U-Value	0.03	0.58	1967.99	2303.11
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2029.74	2034.02
Roof U-Value	0.01	0.2	1967.38	2298.53
Daylighting Control Setpoint	0	0	2034.02	2034.02
Interior Lighting Power Density	0.42	4.2	1659.28	3334.65
Shading Projection Factor	0	1	2034.02	2034.14
Shading Height above Window	0	2	2034.02	2034.56
District Chiller Cooling Efficiency	0.52	1.48	2034.02	2034.02
Air Handler Fan Efficiency	22.66	81.56	1994.18	2860.75
Packaged DX Cooling Efficiency	2.37	4.63	2004.91	2091.03
Gas Heating Efficiency	0.87	1.13	1954.71	2137.98
Terminal DX Cooling Efficiency	0.68	1.32	2034.02	2034.02
Terminal Furnace Heating Efficiency	0.87	1.13	2034.02	2034.02
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2034.02	2034.02
Water Heater Energy Factor	1	99	2034.02	2054.08
Economizer	false	true	2003.61	2034.02
Fan Control	cav	false	2034.02	2034.02
Orientation	0	359	2034.02	2039.38



Total Electricity



Total Natural Gas



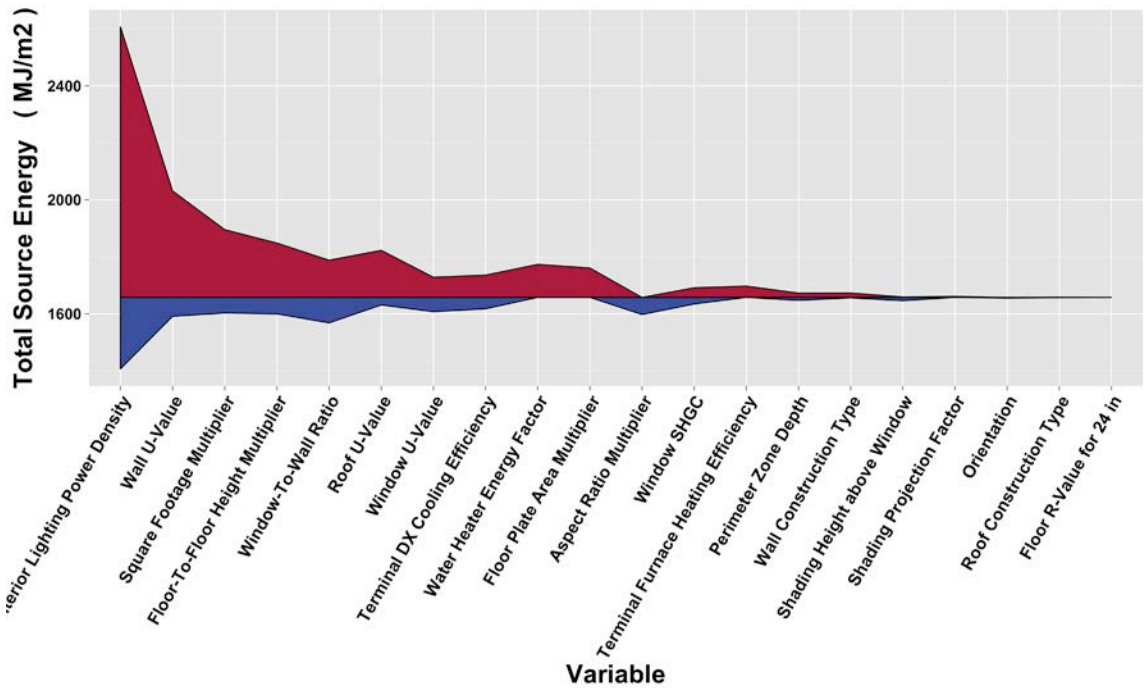
Small Hotel

Location: Climate Zone 1A

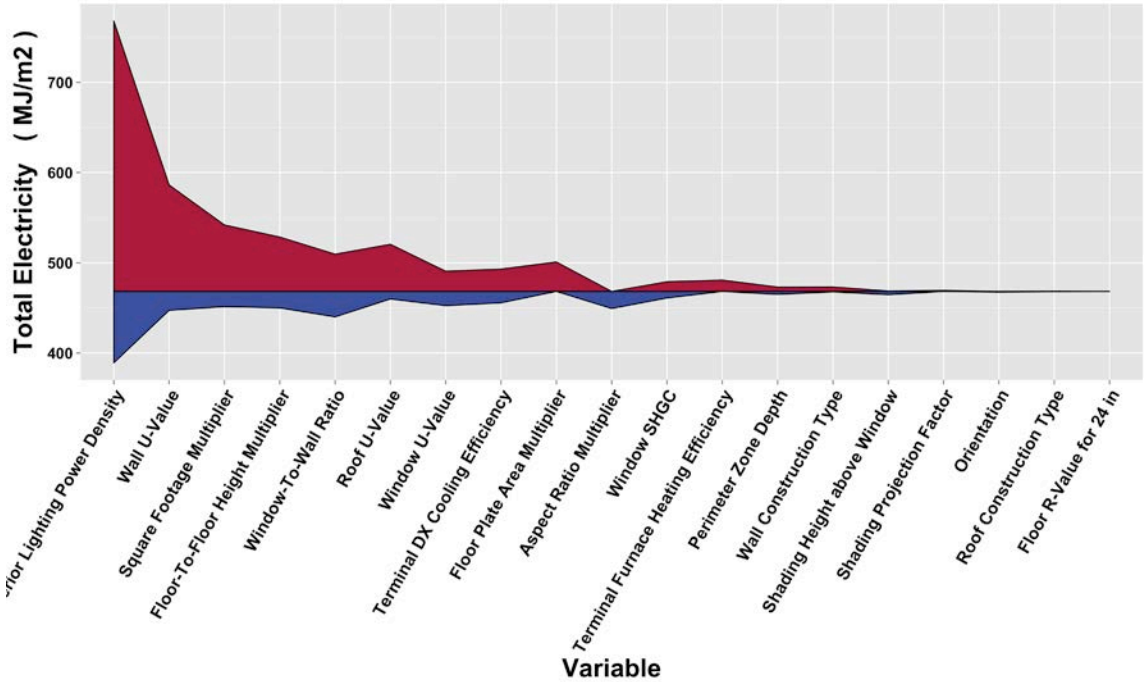
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1597.16	1657.23
Floor Plate Area Multiplier	5400	43200	1657.23	1760.58
Square Footage Multiplier	12960	129600	1602.45	1895.01
Floor-To-Floor Height Multiplier	7.2	14.4	1599.34	1848.03
Perimeter Zone Depth	10	20	1646.76	1672.44
Floor R-Value for 24 in	0	0	1657.23	1657.23
Window-To-Wall Ratio	0	0.2	1567.84	1787.92
Window Sill Height	1	6	1657.23	1657.23
Window U-Value	0.12	1.22	1607.23	1727.96
Window SHGC	0.08	0.7	1634.08	1691.21
Window VLT	0.06	0.89	1657.23	1657.23
Wall Construction Type	masonry-on-masonry	wood-siding	1655.61	1672.78
Wall U-Value	0.03	0.58	1590.85	2030.80
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1656.20	1658.13
Roof U-Value	0.01	0.2	1630.62	1822.54
Daylighting Control Setpoint	0	0	1657.23	1657.23

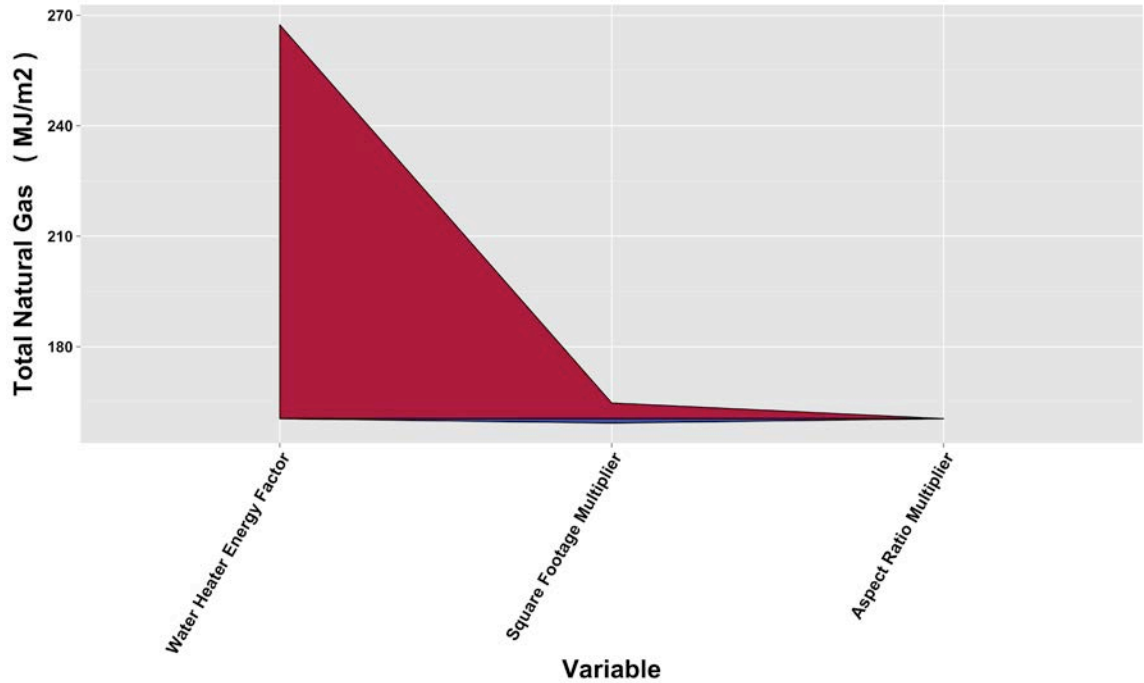
Interior Lighting Power Density	0.26	2.6	1406.62	2605.84
Shading Projection Factor	0	1	1657.23	1660.74
Shading Height above Window	0	2	1645.66	1658.70
District Chiller Cooling Efficiency	0.52	1.48	1657.23	1657.23
Gas Heating Efficiency	0.87	1.13	1657.23	1657.23
Terminal DX Cooling Efficiency	0.68	1.32	1617.23	1735.56
Terminal Furnace Heating Efficiency	0.87	1.13	1657.23	1696.95
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1657.23	1657.23
Water Heater Energy Factor	1	99	1657.23	1773.10
Orientation	0	359	1654.66	1657.24



Total Electricity



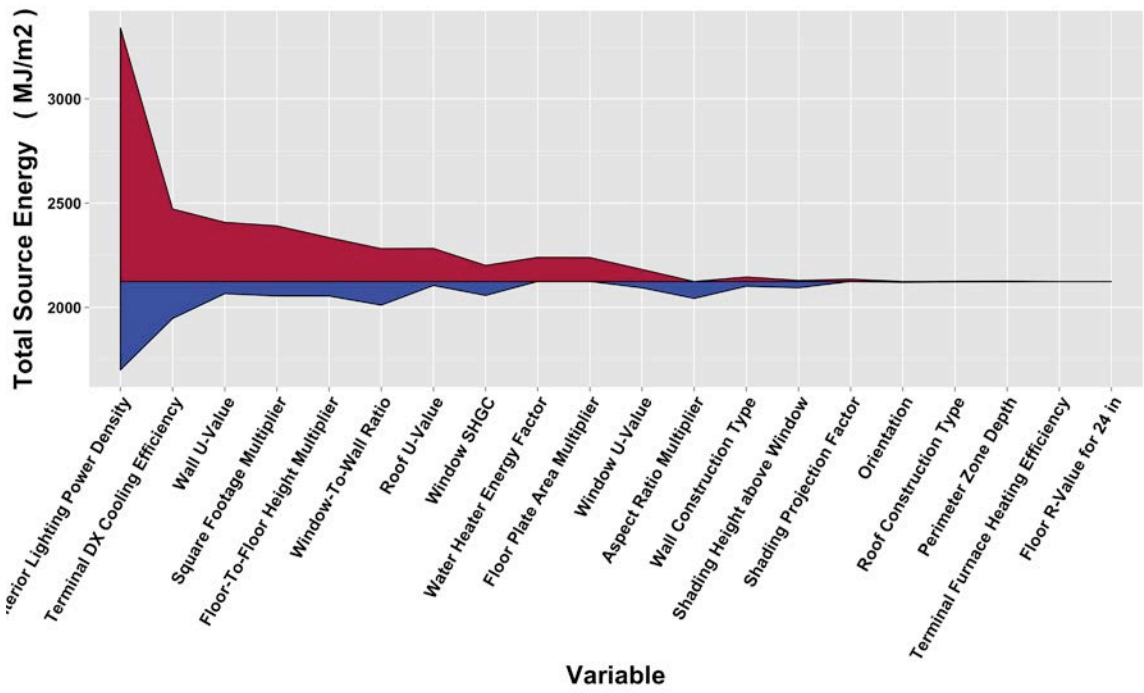
Total Natural Gas



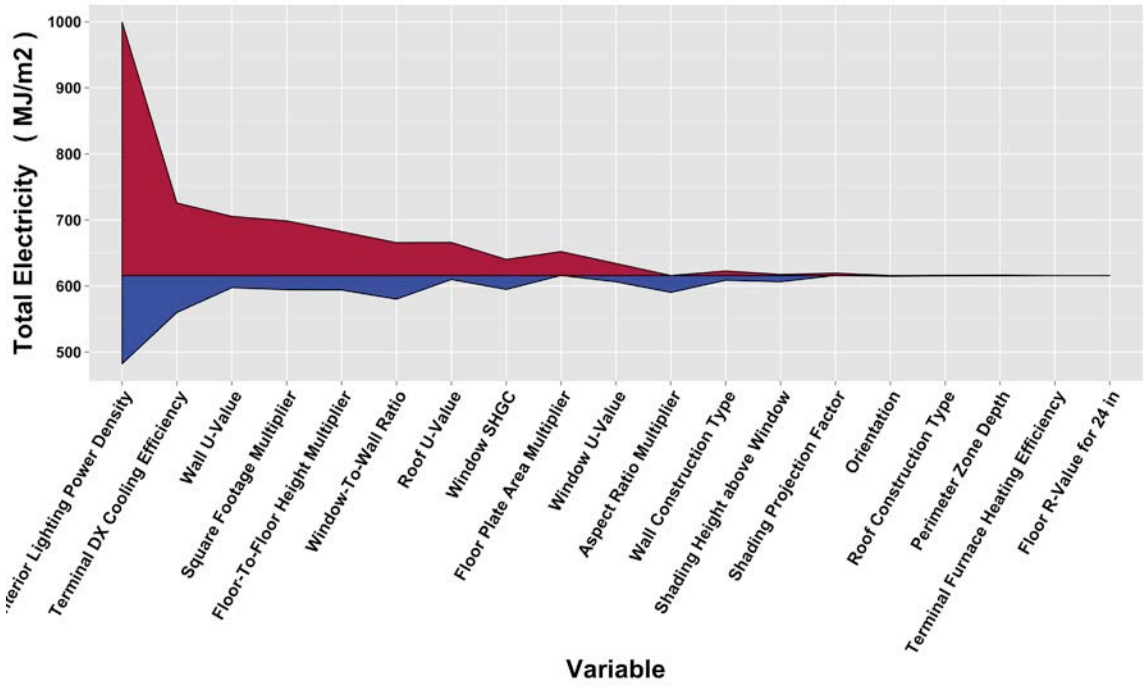
Location: Climate Zone 1B

Total Source Energy

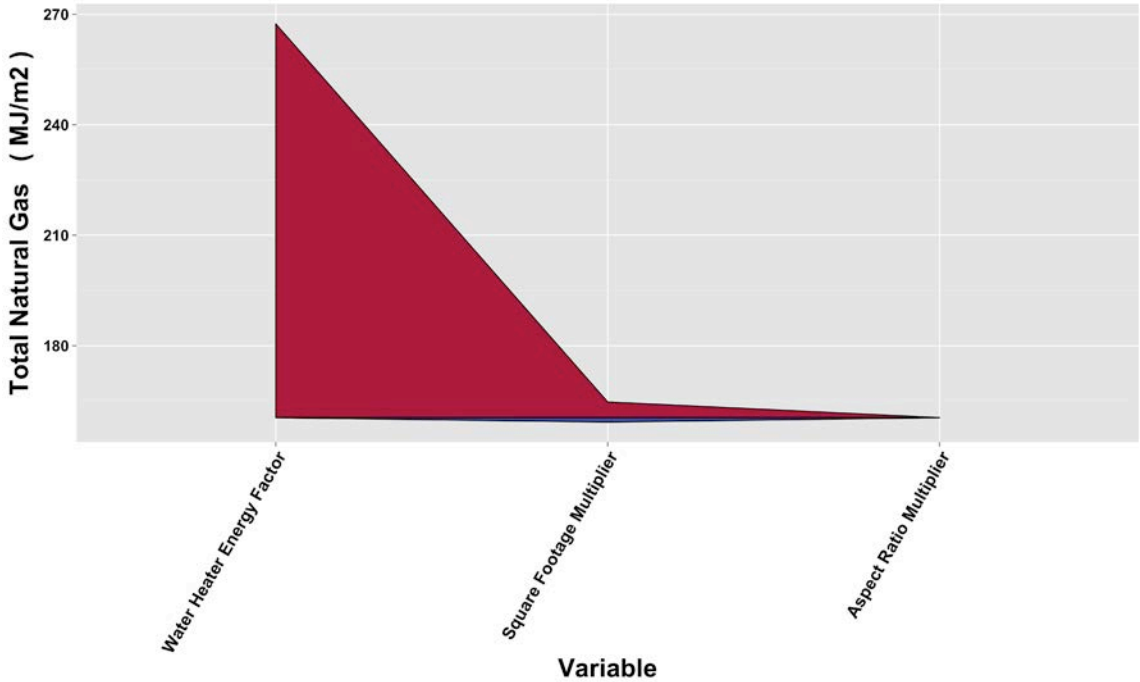
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	2043.23	2124.50
Floor Plate Area Multiplier	5400	43200	2124.50	2239.37
Square Footage Multiplier	12960	129600	2054.96	2391.19
Floor-To-Floor Height Multiplier	7.2	14.4	2054.68	2334.97
Perimeter Zone Depth	10	20	2123.29	2126.38
Floor R-Value for 24 in	0	0	2124.50	2124.50
Window-To-Wall Ratio	0	0.2	2010.96	2281.86
Window Sill Height	1	6	2124.50	2124.50
Window U-Value	0.12	1.22	2093.80	2182.27
Window SHGC	0.08	0.7	2057.33	2201.61
Window VLT	0.06	0.89	2124.50	2124.50
Wall Construction Type	masonry-on-masonry	wood-siding	2101.70	2146.19
Wall U-Value	0.03	0.58	2065.96	2408.17
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2122.34	2125.54
Roof U-Value	0.01	0.2	2105.07	2283.16
Daylighting Control Setpoint	0	0	2124.50	2124.50
Interior Lighting Power Density	0.26	2.6	1700.93	3339.49
Shading Projection Factor	0	1	2124.50	2135.57
Shading Height above Window	0	2	2094.14	2129.66
District Chiller Cooling Efficiency	0.52	1.48	2124.50	2124.50
Gas Heating Efficiency	0.87	1.13	2124.50	2124.50
Terminal DX Cooling Efficiency	0.68	1.32	1946.97	2472.16
Terminal Furnace Heating Efficiency	0.87	1.13	2124.50	2124.73
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2124.50	2124.50
Water Heater Energy Factor	1	99	2124.50	2240.37
Orientation	0	359	2119.99	2124.50



Total Electricity



Total Natural Gas

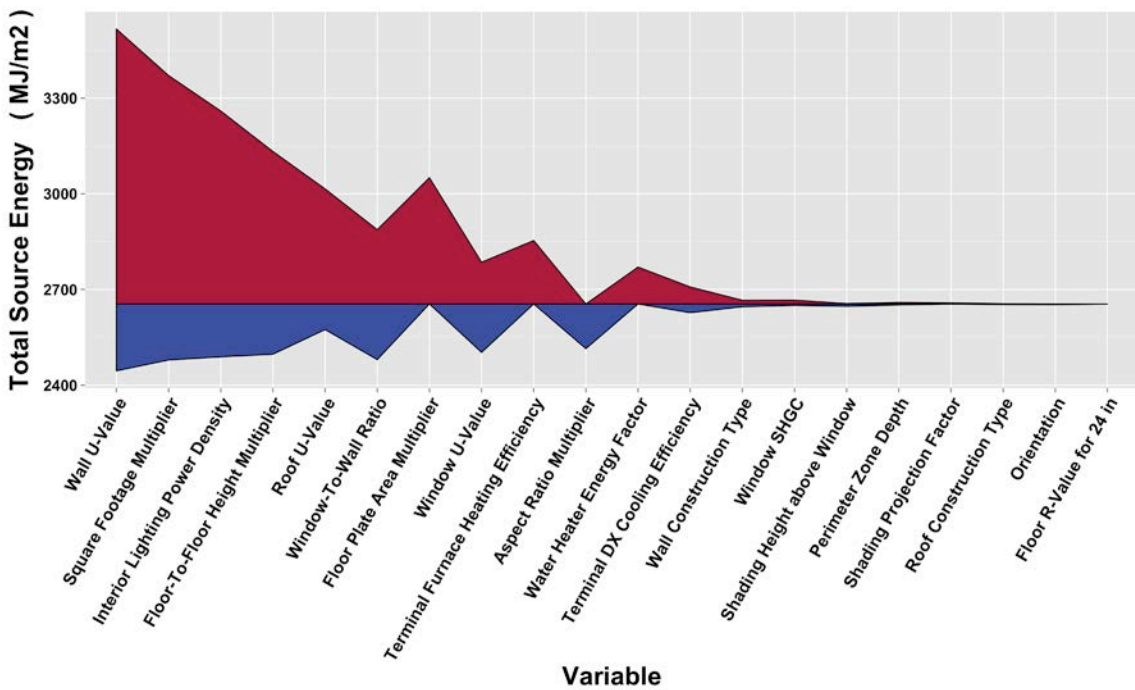


Location: Climate Zone 2A

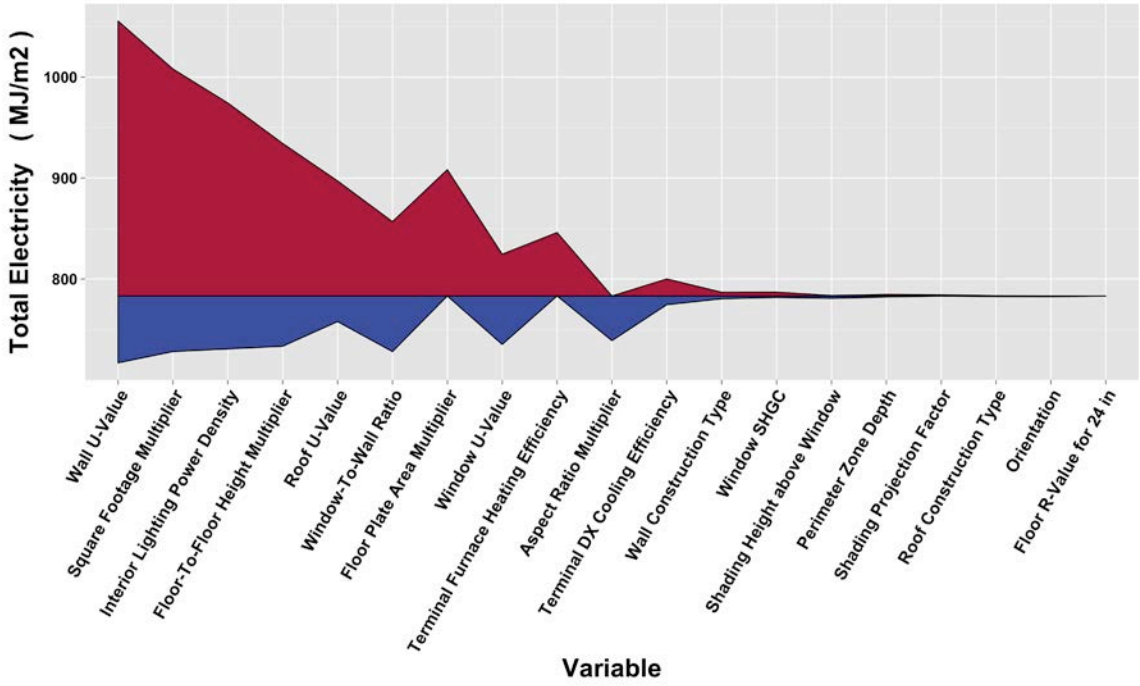
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	2514.50	2654.53
Floor Plate Area Multiplier	5400	43200	2654.53	3050.59
Square Footage Multiplier	12960	129600	2479.02	3370.65
Floor-To-Floor Height Multiplier	7.2	14.4	2497.08	3132.68
Perimeter Zone Depth	10	20	2651.47	2659.31
Floor R-Value for 24 in	0	0	2654.53	2654.53
Window-To-Wall Ratio	0	0.2	2480.08	2887.60
Window Sill Height	1	6	2654.53	2654.53
Window U-Value	0.12	1.22	2502.64	2785.49
Window SHGC	0.08	0.7	2650.20	2666.56
Window VLT	0.06	0.89	2654.53	2654.53
Wall Construction Type	masonry-on-masonry	wood-siding	2645.82	2666.19
Wall U-Value	0.03	0.58	2444.96	3516.44
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2652.94	2655.14
Roof U-Value	0.01	0.2	2574.31	3015.31
Daylighting Control Setpoint	0	0	2654.53	2654.53
Interior Lighting Power Density	0.26	2.6	2488.85	3259.53
Shading Projection Factor	0	1	2654.53	2658.06

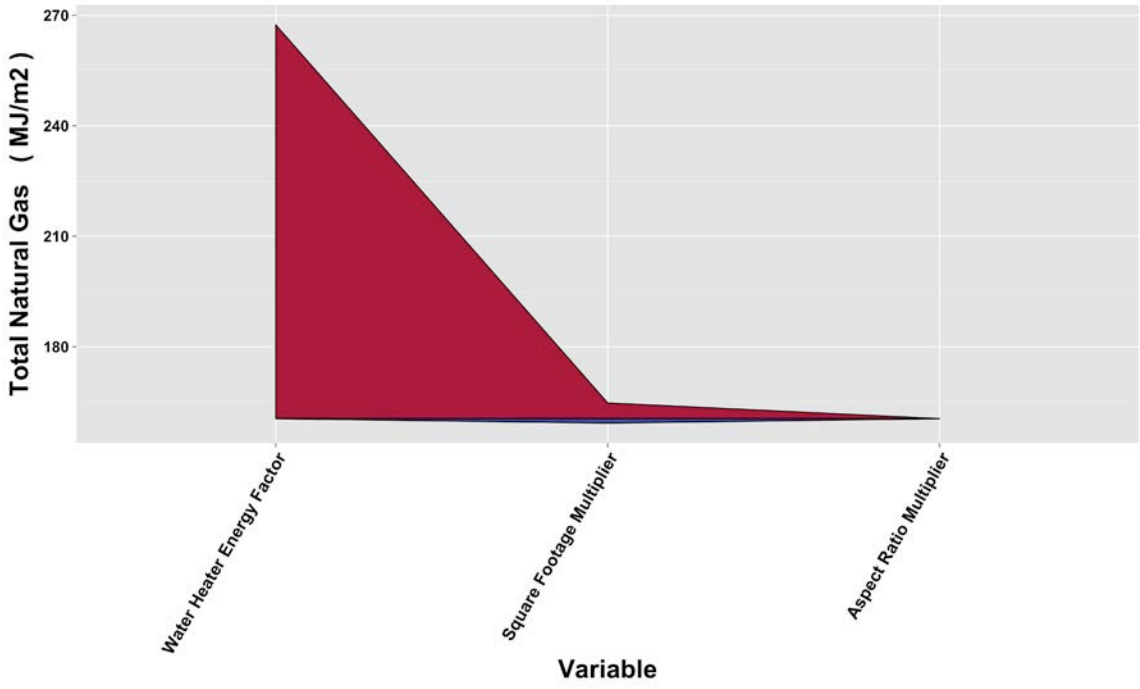
Shading Height above Window	0	2	2647.18	2655.74
District Chiller Cooling Efficiency	0.52	1.48	2654.53	2654.53
Gas Heating Efficiency	0.87	1.13	2654.53	2654.53
Terminal DX Cooling Efficiency	0.68	1.32	2627.23	2707.98
Terminal Furnace Heating Efficiency	0.87	1.13	2654.53	2853.45
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2654.53	2654.53
Water Heater Energy Factor	1	99	2654.53	2770.40
Orientation	0	359	2652.41	2654.55



Total Electricity



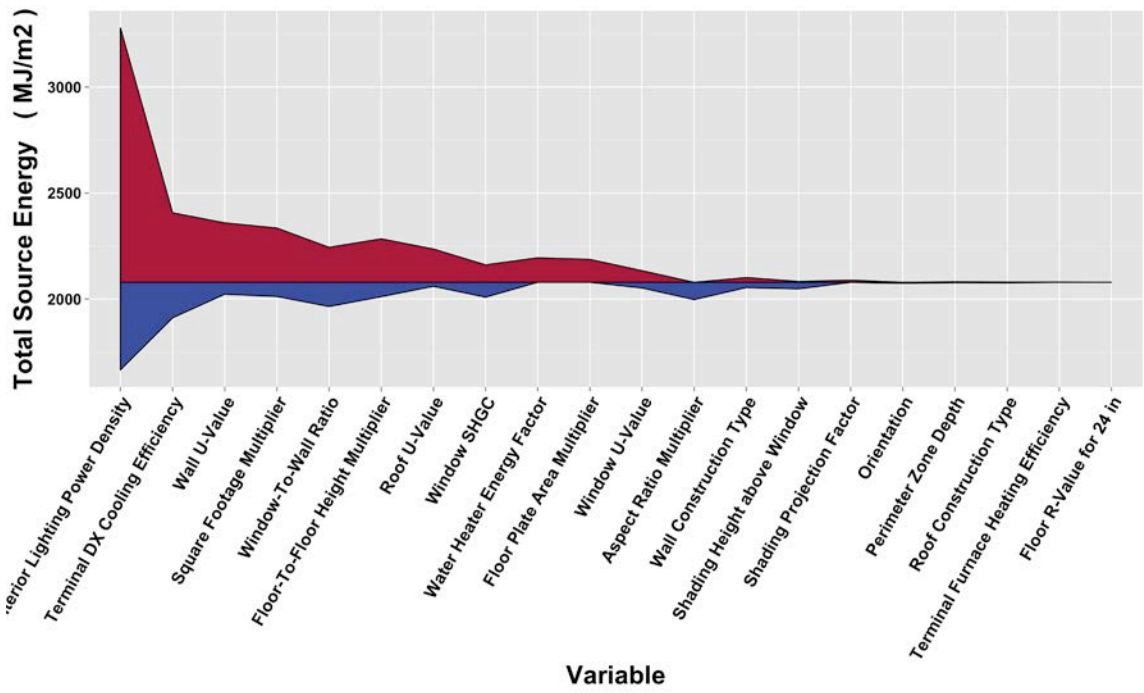
Total Natural Gas



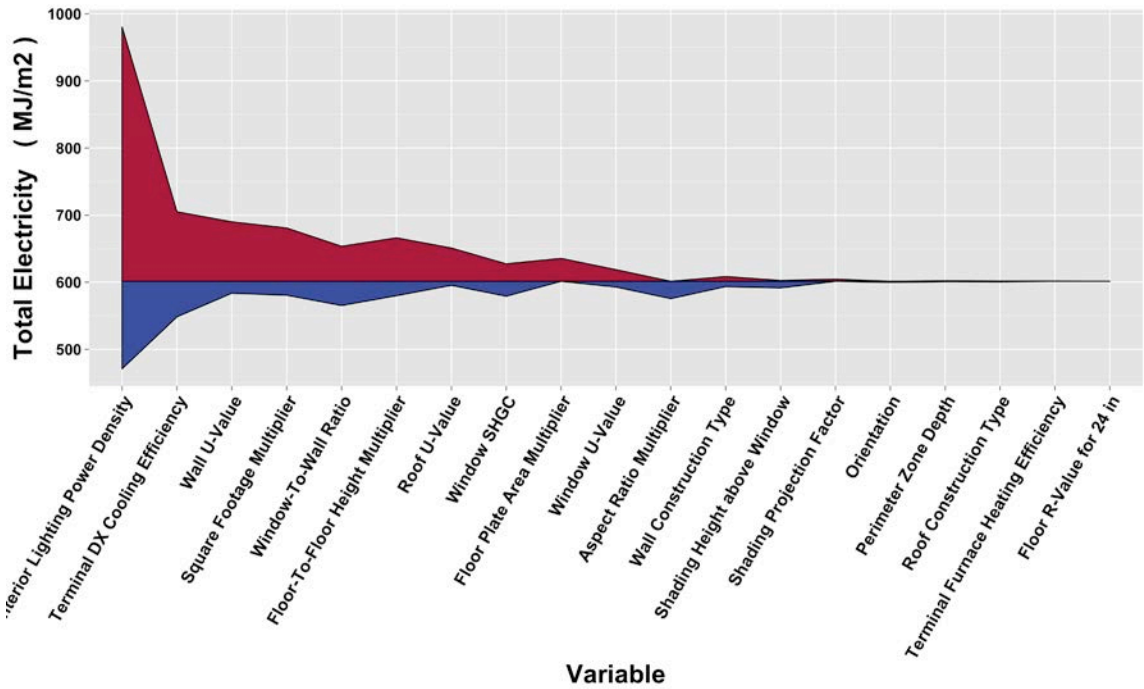
Location: Climate Zone 2B

Total Source Energy

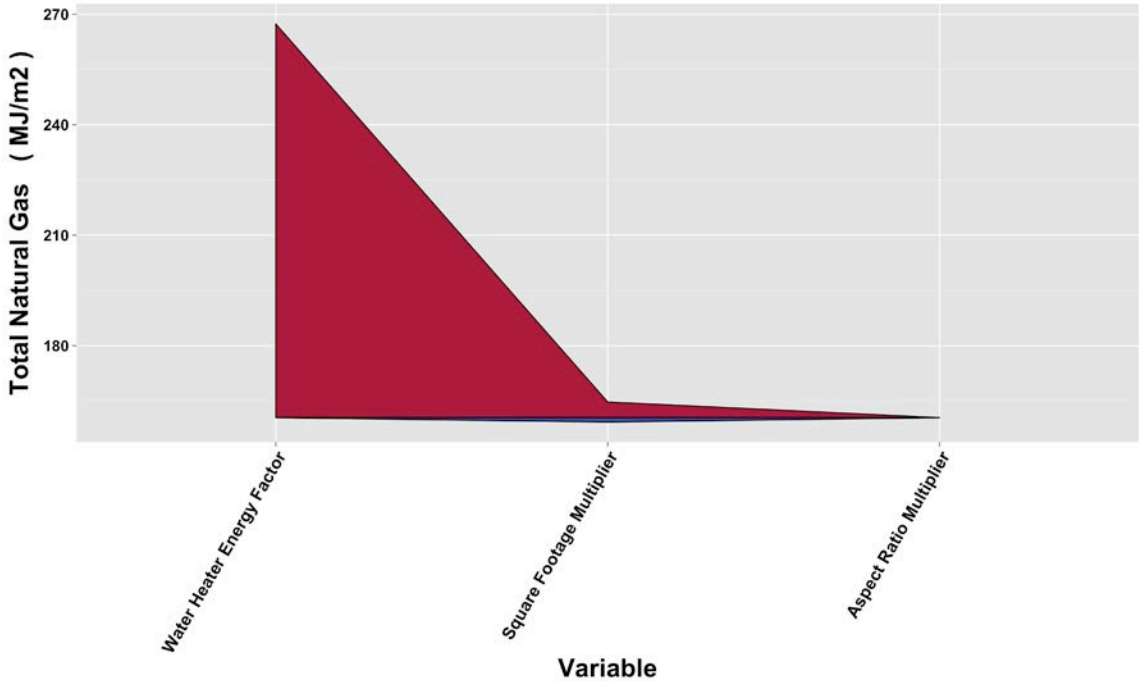
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1996.91	2078.61
Floor Plate Area Multiplier	5400	43200	2078.61	2186.90
Square Footage Multiplier	12960	129600	2011.58	2334.77
Floor-To-Floor Height Multiplier	7.2	14.4	2010.71	2283.97
Perimeter Zone Depth	10	20	2077.16	2080.86
Floor R-Value for 24 in	0	0	2078.61	2078.61
Window-To-Wall Ratio	0	0.2	1964.45	2243.84
Window Sill Height	1	6	2078.61	2078.61
Window U-Value	0.12	1.22	2051.70	2133.65
Window SHGC	0.08	0.7	2008.26	2161.13
Window VLT	0.06	0.89	2078.61	2078.61
Wall Construction Type	masonry-on-masonry	wood-siding	2053.84	2101.17
Wall U-Value	0.03	0.58	2022.64	2359.28
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2076.46	2079.66
Roof U-Value	0.01	0.2	2059.75	2235.88
Daylighting Control Setpoint	0	0	2078.61	2078.61
Interior Lighting Power Density	0.26	2.6	1665.66	3278.45
Shading Projection Factor	0	1	2078.61	2088.73
Shading Height above Window	0	2	2047.52	2082.70
District Chiller Cooling Efficiency	0.52	1.48	2078.61	2078.61
Gas Heating Efficiency	0.87	1.13	2078.61	2078.61
Terminal DX Cooling Efficiency	0.68	1.32	1910.99	2406.85
Terminal Furnace Heating Efficiency	0.87	1.13	2078.61	2079.68
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2078.61	2078.61
Water Heater Energy Factor	1	99	2078.61	2194.48
Orientation	0	359	2073.48	2078.63



Total Electricity



Total Natural Gas

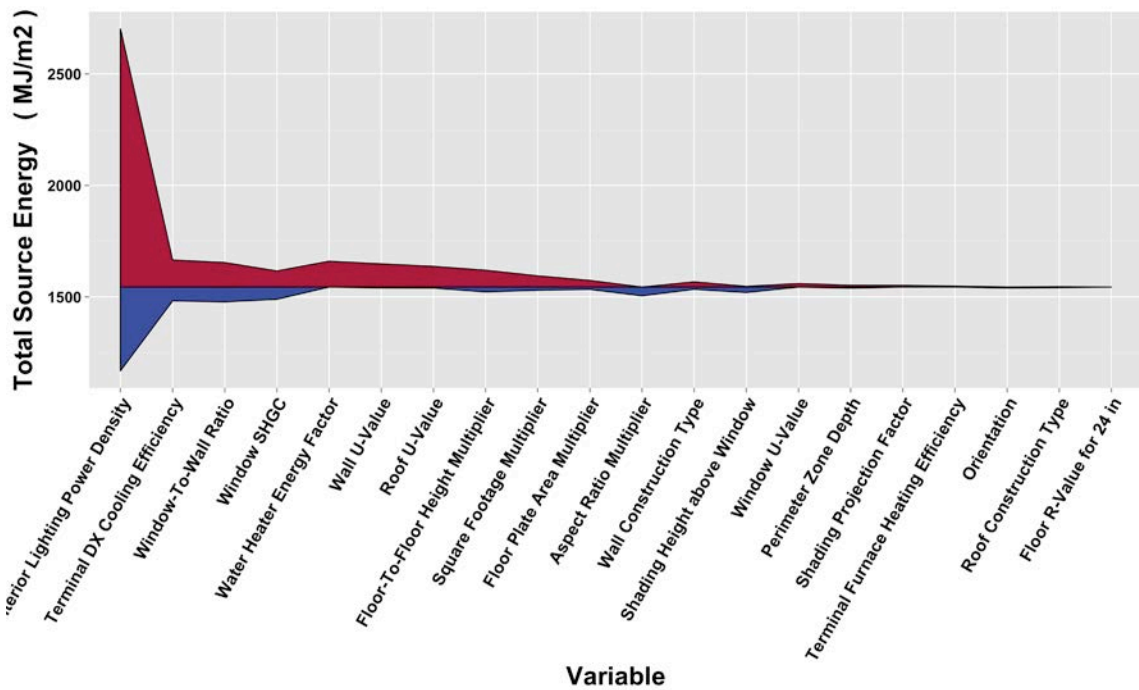


Location: Climate Zone 3A

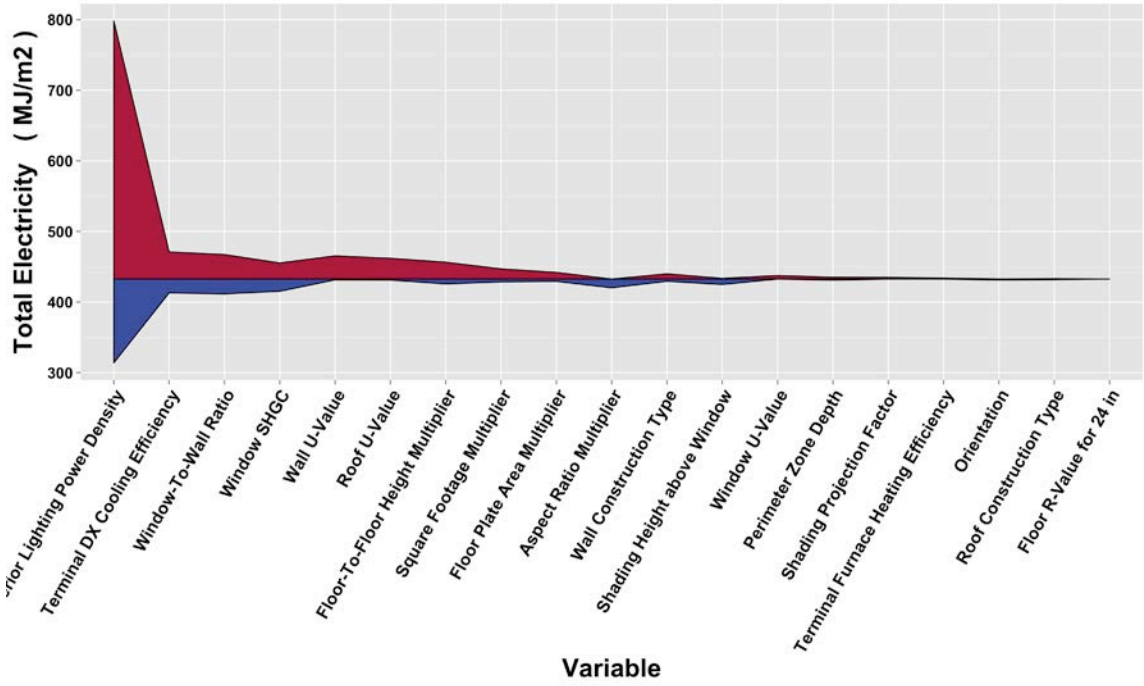
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1504.95	1544.13
Floor Plate Area Multiplier	5400	43200	1533.56	1573.82
Square Footage Multiplier	12960	129600	1530.16	1594.36
Floor-To-Floor Height Multiplier	7.2	14.4	1522.38	1619.63
Perimeter Zone Depth	10	20	1539.37	1552.11
Floor R-Value for 24 in	0	0	1544.13	1544.13
Window-To-Wall Ratio	0	0.2	1477.83	1654.01
Window Sill Height	1	6	1544.13	1544.13
Window U-Value	0.12	1.22	1544.13	1559.87
Window SHGC	0.08	0.7	1489.29	1616.36
Window VLT	0.06	0.89	1544.13	1544.13
Wall Construction Type	masonry-on-masonry	wood-siding	1534.10	1567.57
Wall U-Value	0.03	0.58	1540.46	1648.12
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1541.90	1545.38
Roof U-Value	0.01	0.2	1539.57	1637.00
Daylighting Control Setpoint	0	0	1544.13	1544.13
Interior Lighting Power Density	0.26	2.6	1168.32	2701.46
Shading Projection Factor	0	1	1544.13	1551.39

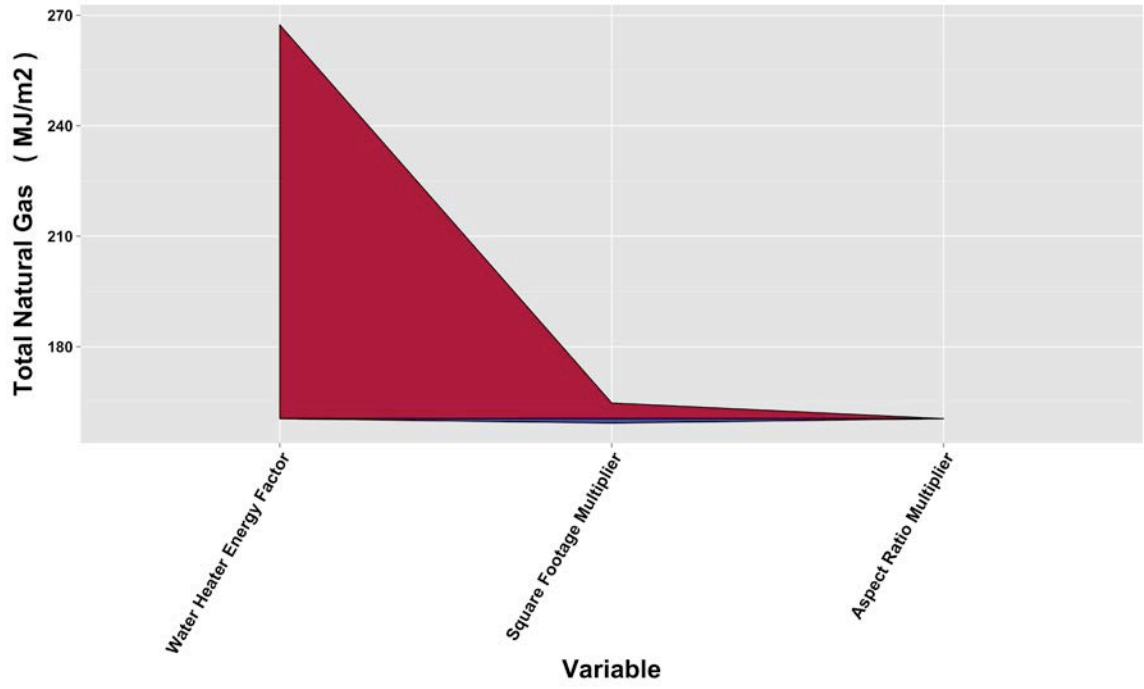
Shading Height above Window	0	2	1519.64	1547.25
District Chiller Cooling Efficiency	0.52	1.48	1544.13	1544.13
Gas Heating Efficiency	0.87	1.13	1544.13	1544.13
Terminal DX Cooling Efficiency	0.68	1.32	1482.07	1665.68
Terminal Furnace Heating Efficiency	0.87	1.13	1544.13	1548.50
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1544.13	1544.13
Water Heater Energy Factor	1	99	1544.13	1660.01
Orientation	0	359	1540.22	1544.22



Total Electricity



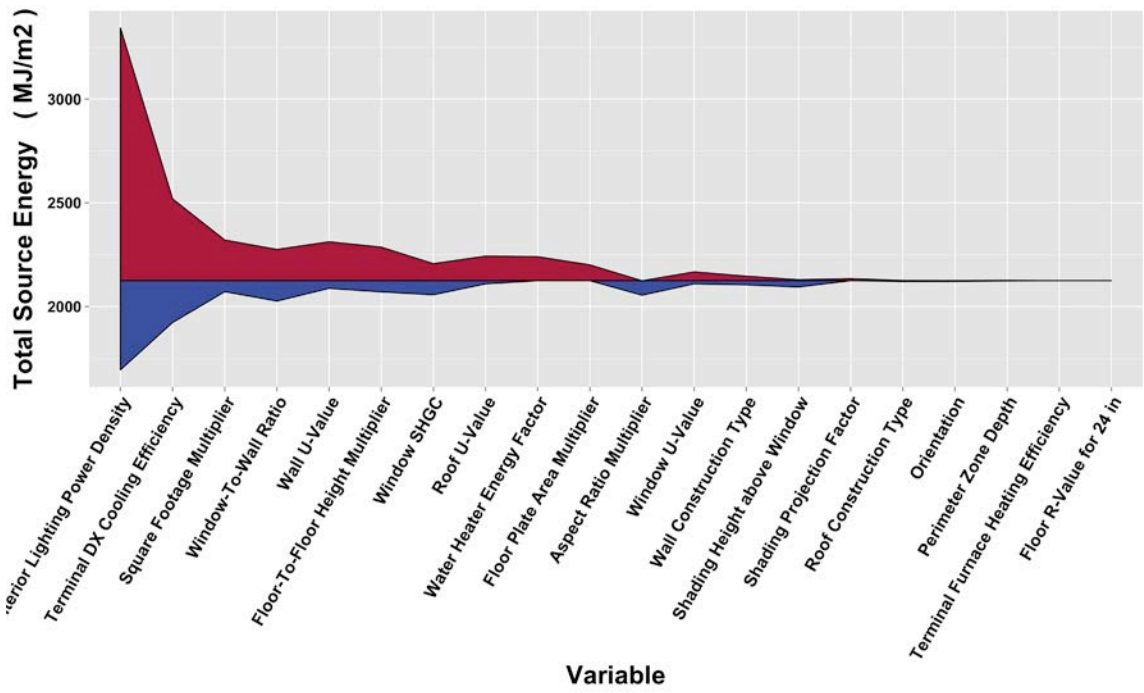
Total Natural Gas



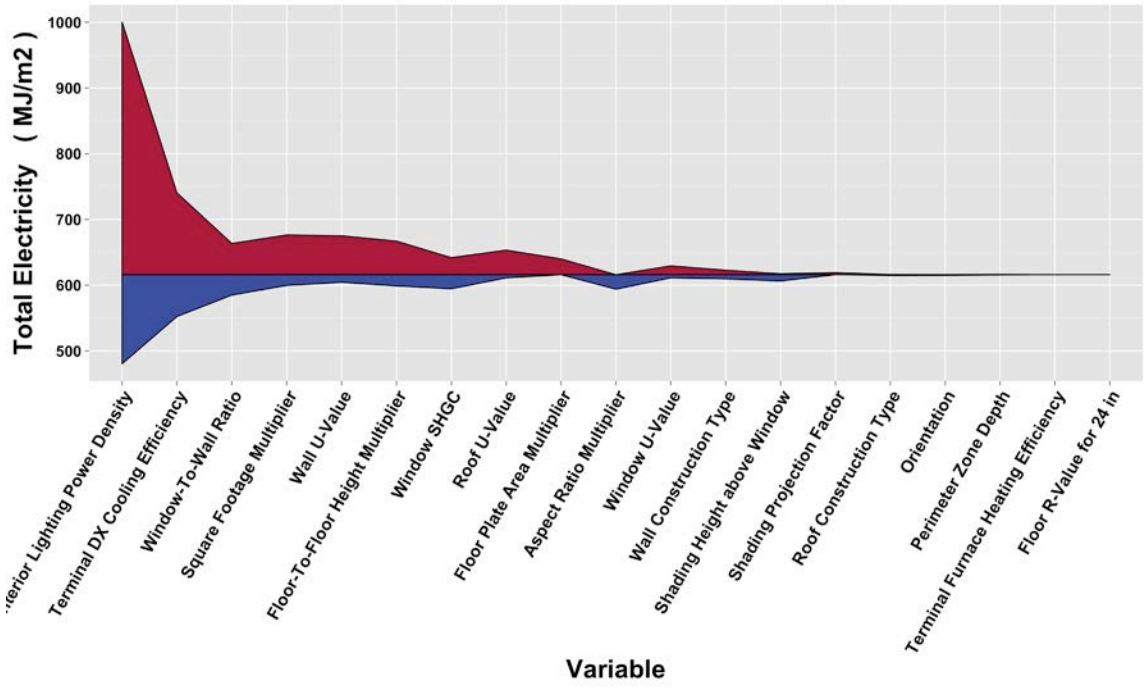
Location: Climate Zone 3B

Total Source Energy

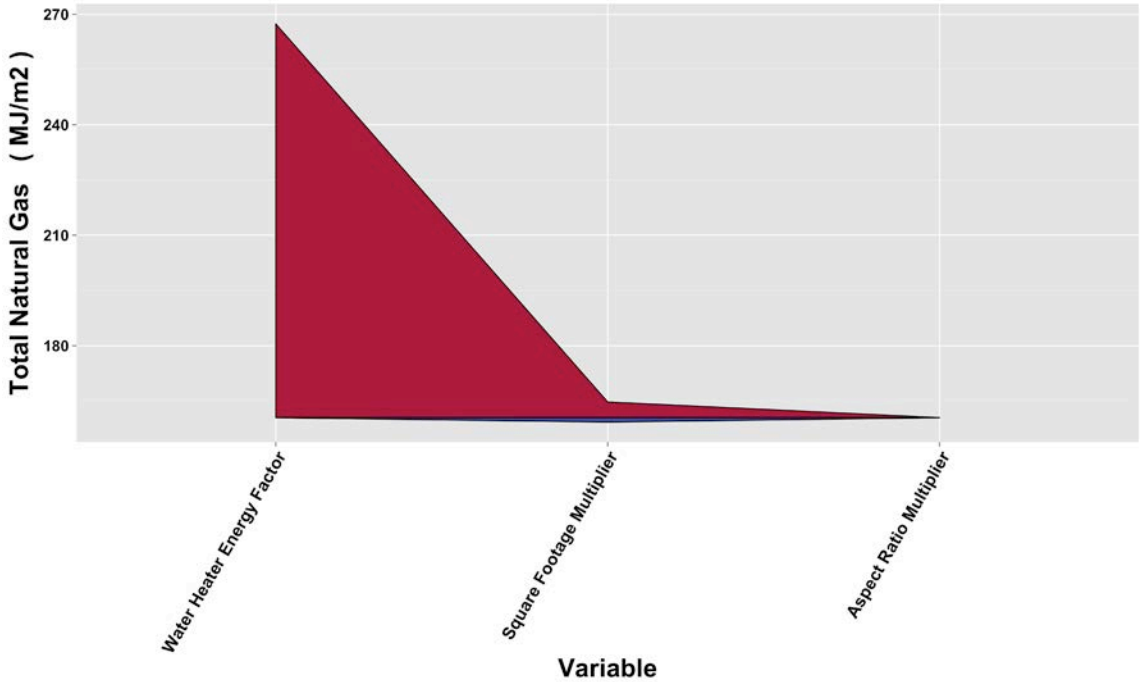
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	2054.65	2124.66
Floor Plate Area Multiplier	5400	43200	2124.66	2201.12
Square Footage Multiplier	12960	129600	2071.69	2320.97
Floor-To-Floor Height Multiplier	7.2	14.4	2070.80	2286.59
Perimeter Zone Depth	10	20	2123.51	2126.34
Floor R-Value for 24 in	0	0	2124.66	2124.66
Window-To-Wall Ratio	0	0.2	2026.37	2275.53
Window Sill Height	1	6	2124.66	2124.66
Window U-Value	0.12	1.22	2109.55	2167.44
Window SHGC	0.08	0.7	2056.73	2207.00
Window VLT	0.06	0.89	2124.66	2124.66
Wall Construction Type	masonry-on-masonry	wood-siding	2104.63	2146.53
Wall U-Value	0.03	0.58	2087.79	2312.34
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2121.22	2125.48
Roof U-Value	0.01	0.2	2109.36	2243.24
Daylighting Control Setpoint	0	0	2124.66	2124.66
Interior Lighting Power Density	0.26	2.6	1695.25	3342.07
Shading Projection Factor	0	1	2124.66	2134.95
Shading Height above Window	0	2	2094.29	2129.45
District Chiller Cooling Efficiency	0.52	1.48	2124.66	2124.66
Gas Heating Efficiency	0.87	1.13	2124.66	2124.66
Terminal DX Cooling Efficiency	0.68	1.32	1923.19	2519.20
Terminal Furnace Heating Efficiency	0.87	1.13	2124.66	2124.72
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2124.66	2124.66
Water Heater Energy Factor	1	99	2124.66	2240.53
Orientation	0	359	2121.64	2124.66



Total Electricity



Total Natural Gas

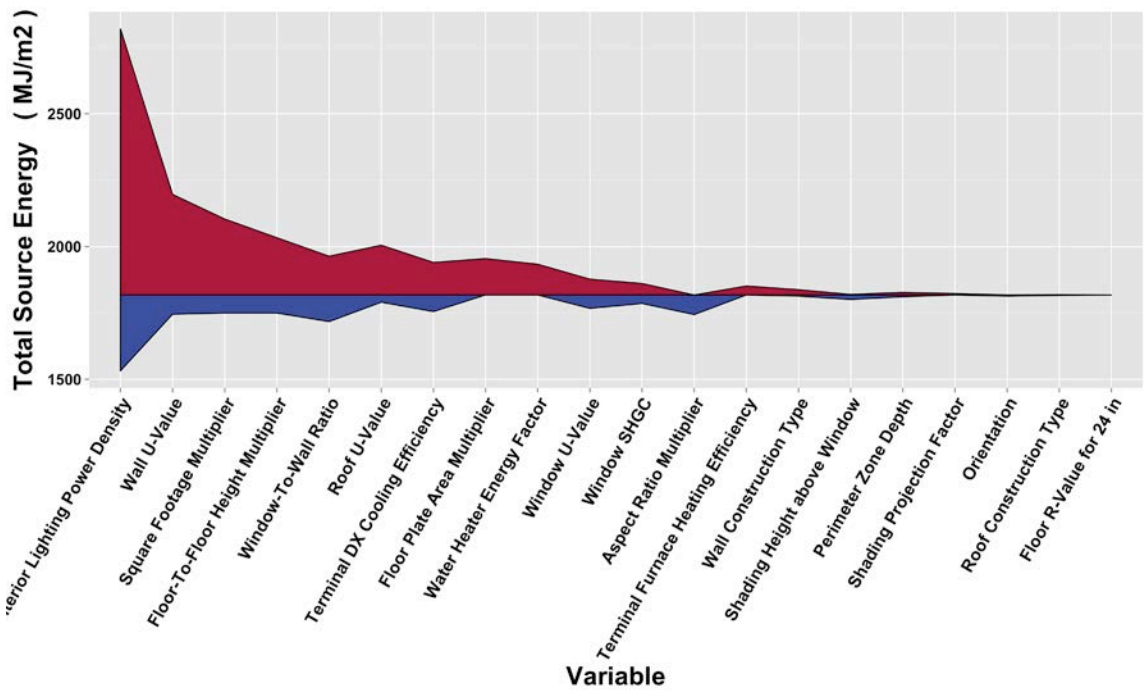


Location: Climate Zone 3C

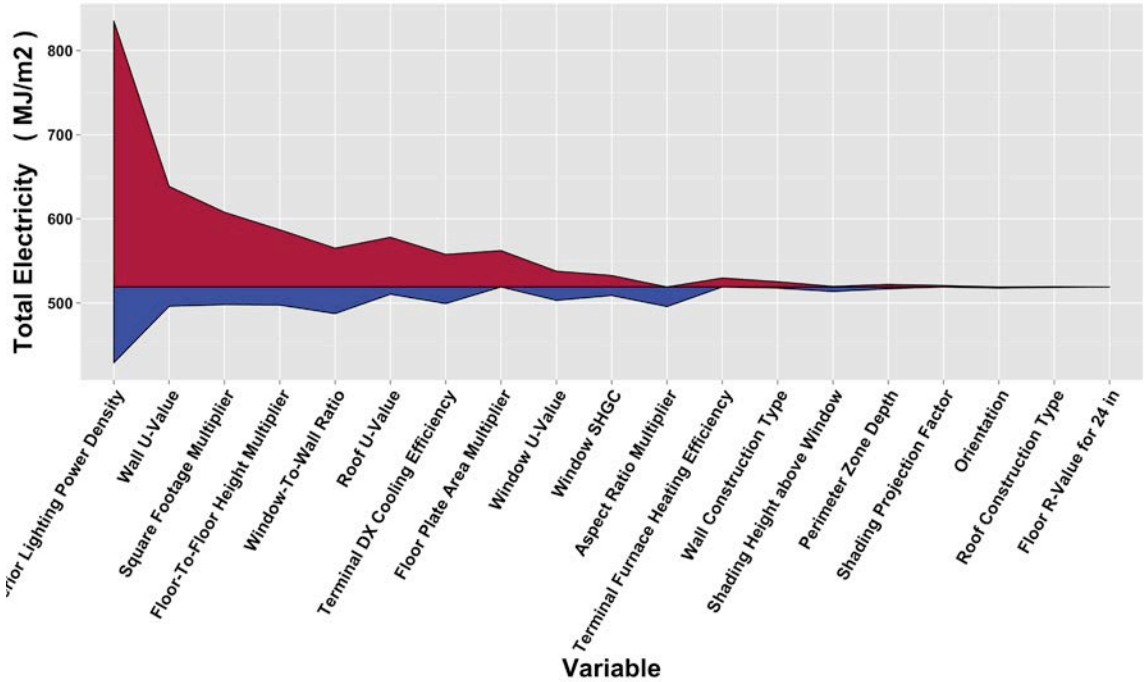
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1743.80	1817.73
Floor Plate Area Multiplier	5400	43200	1817.73	1954.75
Square Footage Multiplier	12960	129600	1749.77	2103.74
Floor-To-Floor Height Multiplier	7.2	14.4	1749.62	2033.33
Perimeter Zone Depth	10	20	1810.91	1827.65
Floor R-Value for 24 in	0	0	1817.73	1817.73
Window-To-Wall Ratio	0	0.2	1717.35	1963.71
Window Sill Height	1	6	1817.73	1817.73
Window U-Value	0.12	1.22	1767.20	1877.35
Window SHGC	0.08	0.7	1785.71	1861.02
Window VLT	0.06	0.89	1817.73	1817.73
Wall Construction Type	masonry-on-masonry	wood-siding	1813.39	1837.65
Wall U-Value	0.03	0.58	1745.19	2196.45
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1816.41	1818.80
Roof U-Value	0.01	0.2	1790.38	2005.14
Daylighting Control Setpoint	0	0	1817.73	1817.73
Interior Lighting Power Density	0.26	2.6	1532.11	2818.95
Shading Projection Factor	0	1	1817.73	1823.13

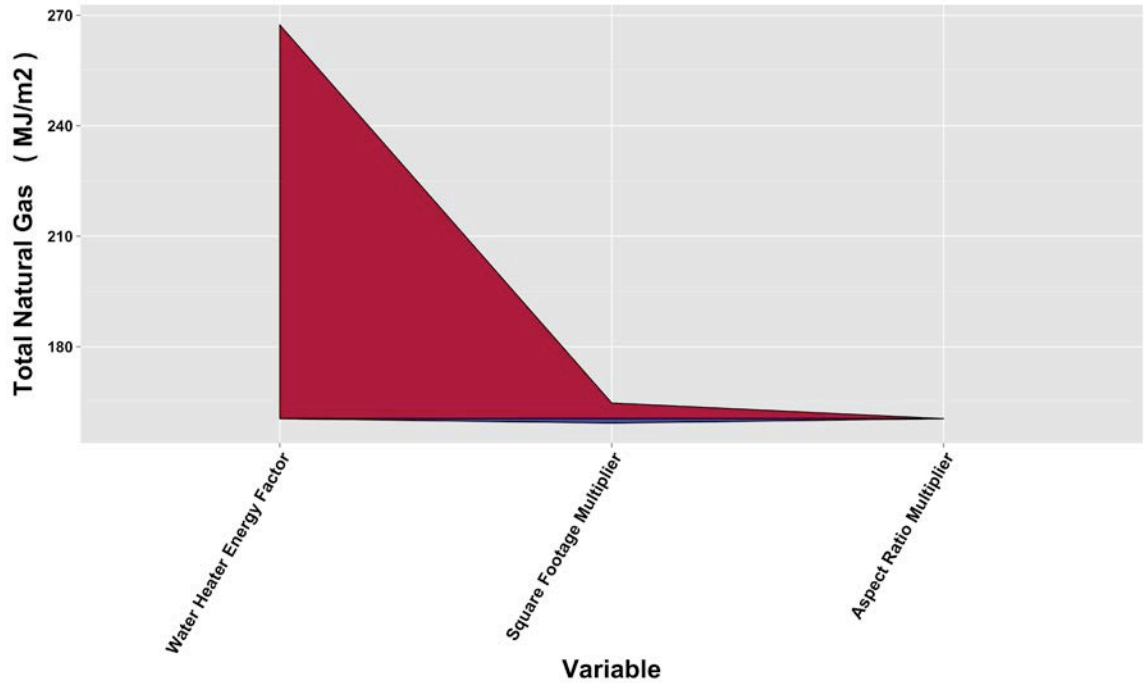
Shading Height above Window	0	2	1800.72	1819.87
District Chiller Cooling Efficiency	0.52	1.48	1817.73	1817.73
Gas Heating Efficiency	0.87	1.13	1817.73	1817.73
Terminal DX Cooling Efficiency	0.68	1.32	1755.17	1940.26
Terminal Furnace Heating Efficiency	0.87	1.13	1817.73	1851.62
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1817.73	1817.73
Water Heater Energy Factor	1	99	1817.73	1933.61
Orientation	0	359	1813.21	1817.75



Total Electricity



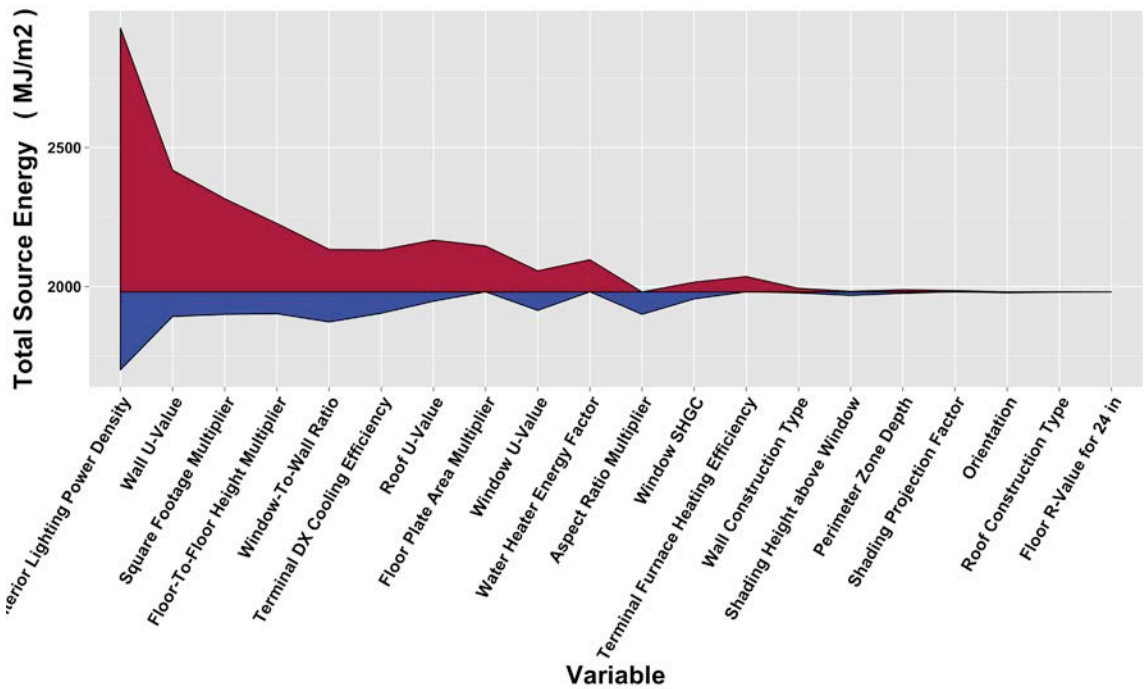
Total Natural Gas



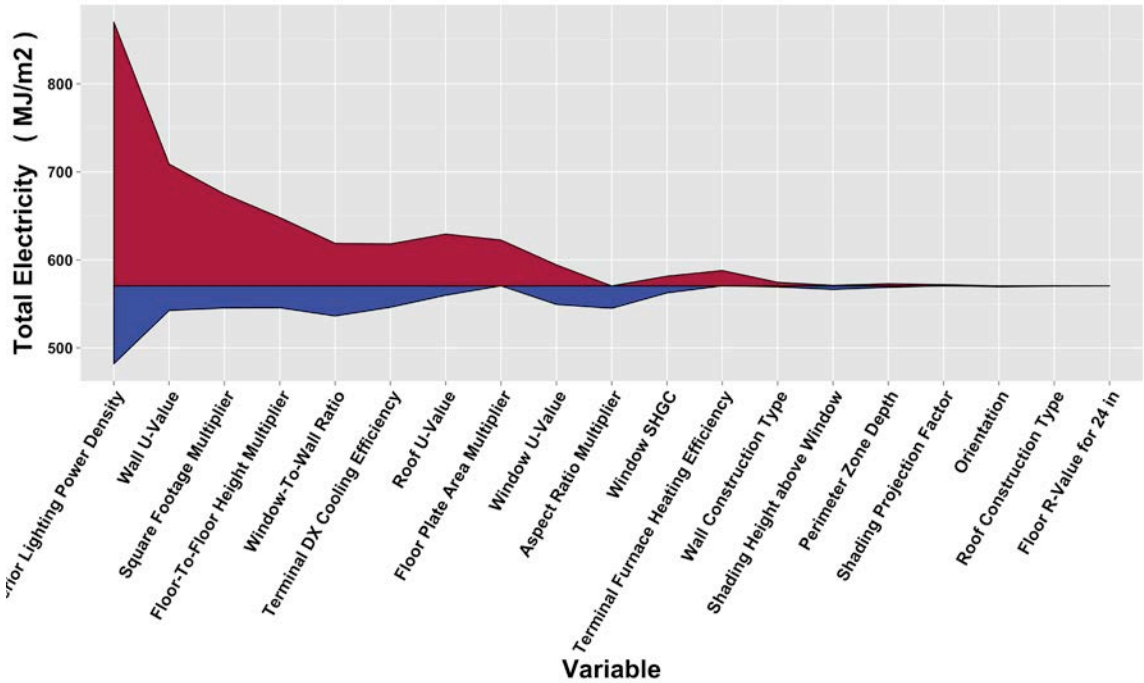
Location: Climate Zone 4A

Total Source Energy

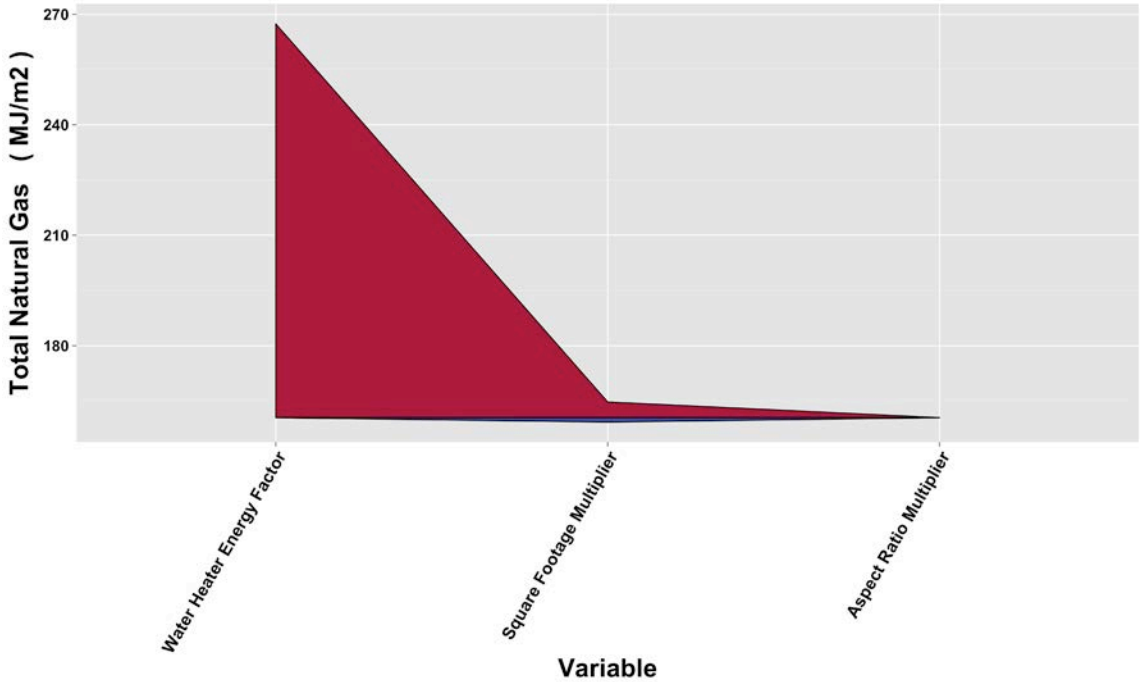
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1899.80	1980.73
Floor Plate Area Multiplier	5400	43200	1980.73	2145.70
Square Footage Multiplier	12960	129600	1899.64	2316.01
Floor-To-Floor Height Multiplier	7.2	14.4	1901.84	2226.82
Perimeter Zone Depth	10	20	1975.45	1988.54
Floor R-Value for 24 in	0	0	1980.73	1980.73
Window-To-Wall Ratio	0	0.2	1872.15	2133.93
Window Sill Height	1	6	1980.73	1980.73
Window U-Value	0.12	1.22	1913.94	2056.49
Window SHGC	0.08	0.7	1955.27	2015.74
Window VLT	0.06	0.89	1980.73	1980.73
Wall Construction Type	masonry-on-masonry	wood-siding	1976.94	1993.53
Wall U-Value	0.03	0.58	1892.00	2418.94
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1979.23	1981.55
Roof U-Value	0.01	0.2	1946.93	2167.27
Daylighting Control Setpoint	0	0	1980.73	1980.73
Interior Lighting Power Density	0.26	2.6	1700.17	2930.22
Shading Projection Factor	0	1	1980.73	1985.45
Shading Height above Window	0	2	1967.72	1982.66
District Chiller Cooling Efficiency	0.52	1.48	1980.73	1980.73
Gas Heating Efficiency	0.87	1.13	1980.73	1980.73
Terminal DX Cooling Efficiency	0.68	1.32	1903.63	2131.71
Terminal Furnace Heating Efficiency	0.87	1.13	1980.73	2036.06
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1980.73	1980.73
Water Heater Energy Factor	1	99	1980.73	2096.60
Orientation	0	359	1977.35	1980.73



Total Electricity



Total Natural Gas

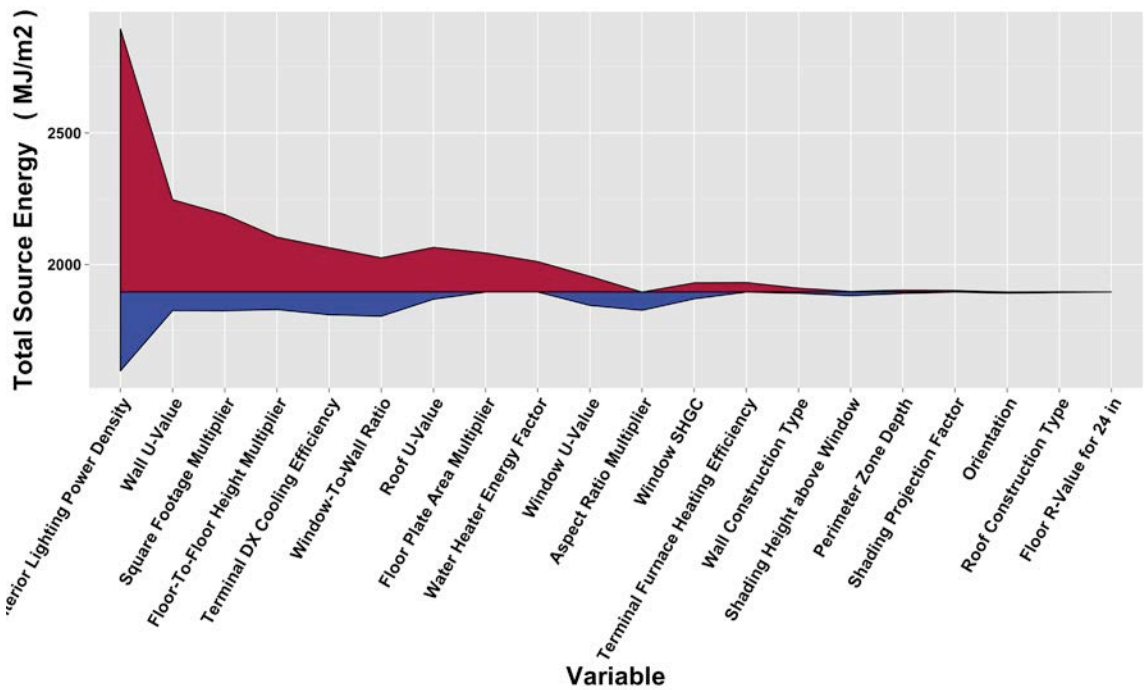


Location: Climate Zone 4B

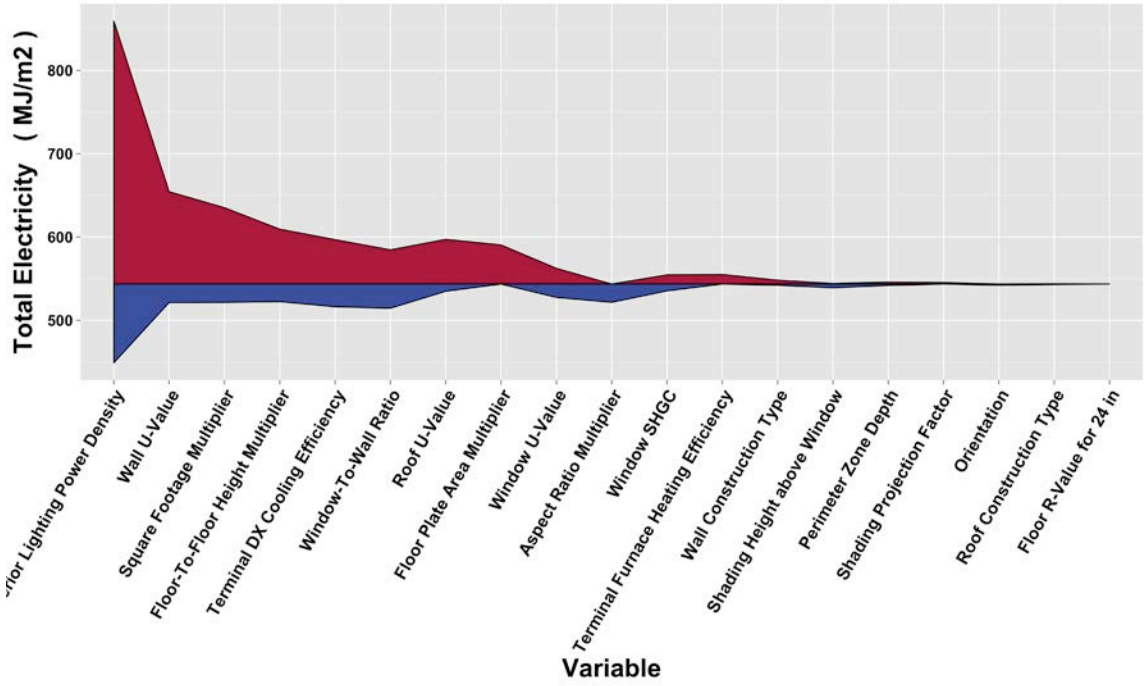
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1825.63	1895.07
Floor Plate Area Multiplier	5400	43200	1895.07	2043.92
Square Footage Multiplier	12960	129600	1824.00	2190.22
Floor-To-Floor Height Multiplier	7.2	14.4	1828.39	2103.98
Perimeter Zone Depth	10	20	1889.87	1902.75
Floor R-Value for 24 in	0	0	1895.07	1895.07
Window-To-Wall Ratio	0	0.2	1803.18	2025.28
Window Sill Height	1	6	1895.07	1895.07
Window U-Value	0.12	1.22	1844.34	1955.08
Window SHGC	0.08	0.7	1869.13	1930.15
Window VLT	0.06	0.89	1895.07	1895.07
Wall Construction Type	masonry-on-masonry	wood-siding	1890.46	1909.89
Wall U-Value	0.03	0.58	1824.80	2246.50
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1893.47	1896.00
Roof U-Value	0.01	0.2	1867.74	2065.13
Daylighting Control Setpoint	0	0	1895.07	1895.07
Interior Lighting Power Density	0.26	2.6	1595.55	2895.45
Shading Projection Factor	0	1	1895.07	1900.90

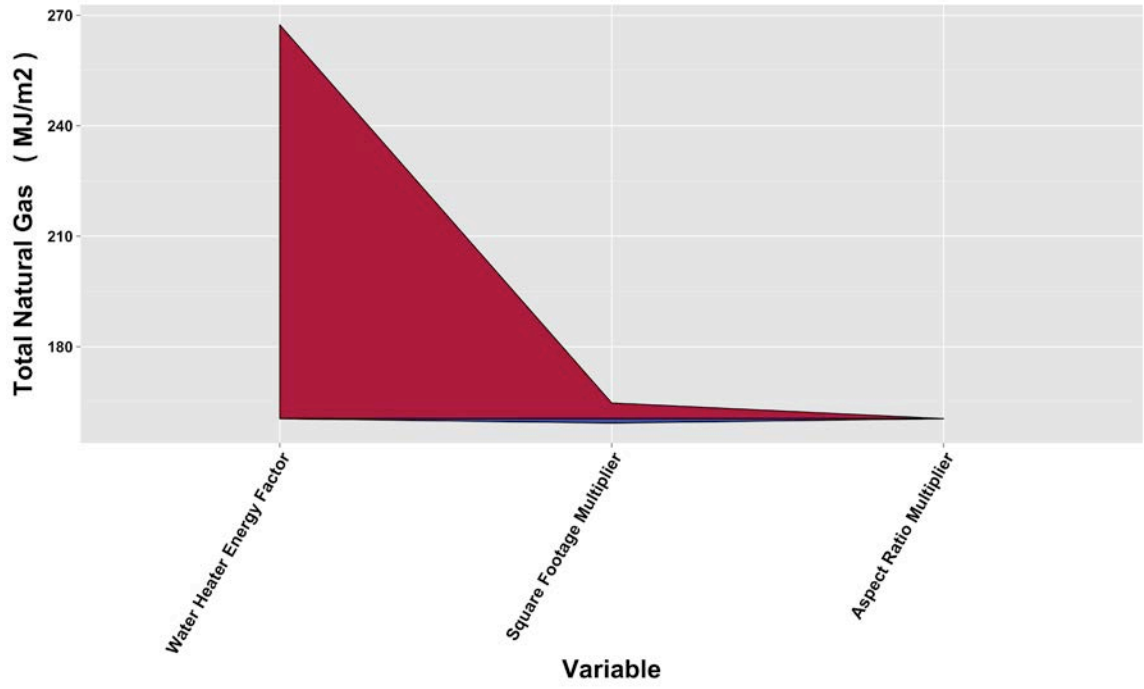
Shading Height above Window	0	2	1881.10	1897.43
District Chiller Cooling Efficiency	0.52	1.48	1895.07	1895.07
Gas Heating Efficiency	0.87	1.13	1895.07	1895.07
Terminal DX Cooling Efficiency	0.68	1.32	1808.73	2064.15
Terminal Furnace Heating Efficiency	0.87	1.13	1895.07	1931.50
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1895.07	1895.07
Water Heater Energy Factor	1	99	1895.07	2010.94
Orientation	0	359	1890.91	1895.10



Total Electricity



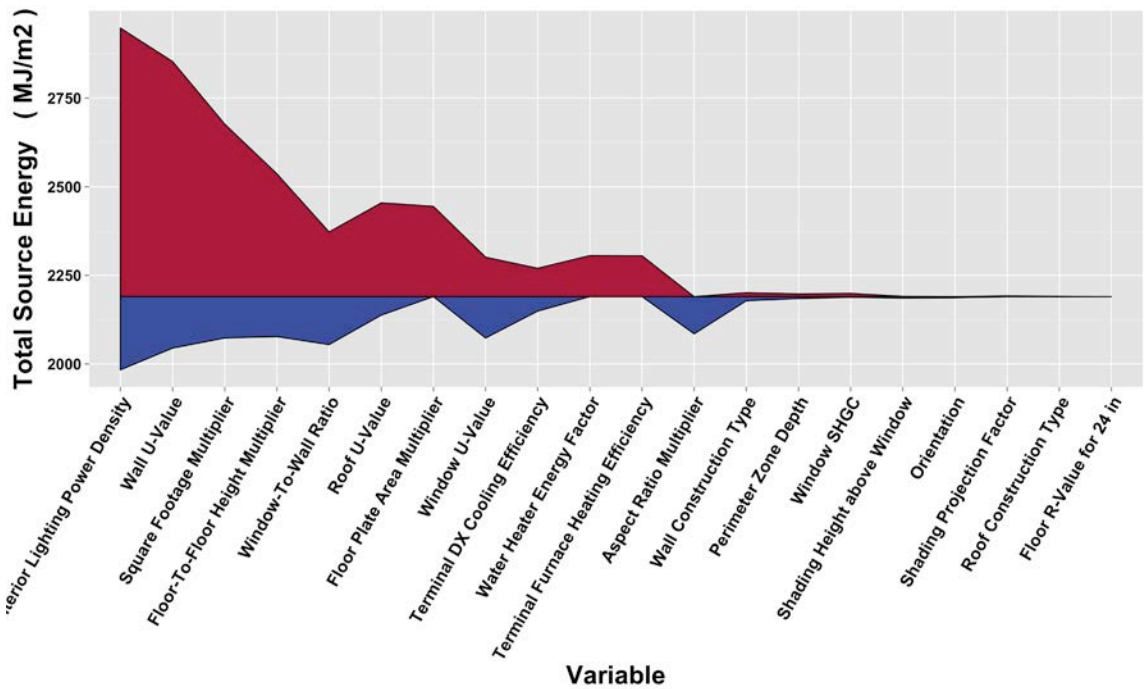
Total Natural Gas



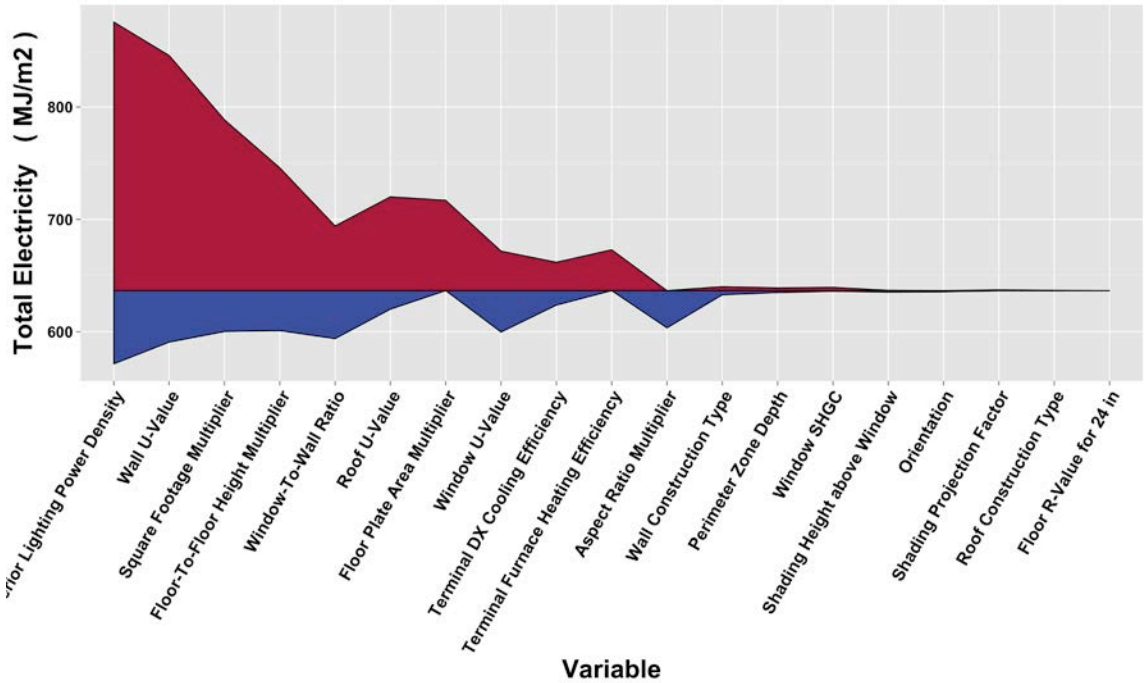
Location: Climate Zone 4C

Total Source Energy

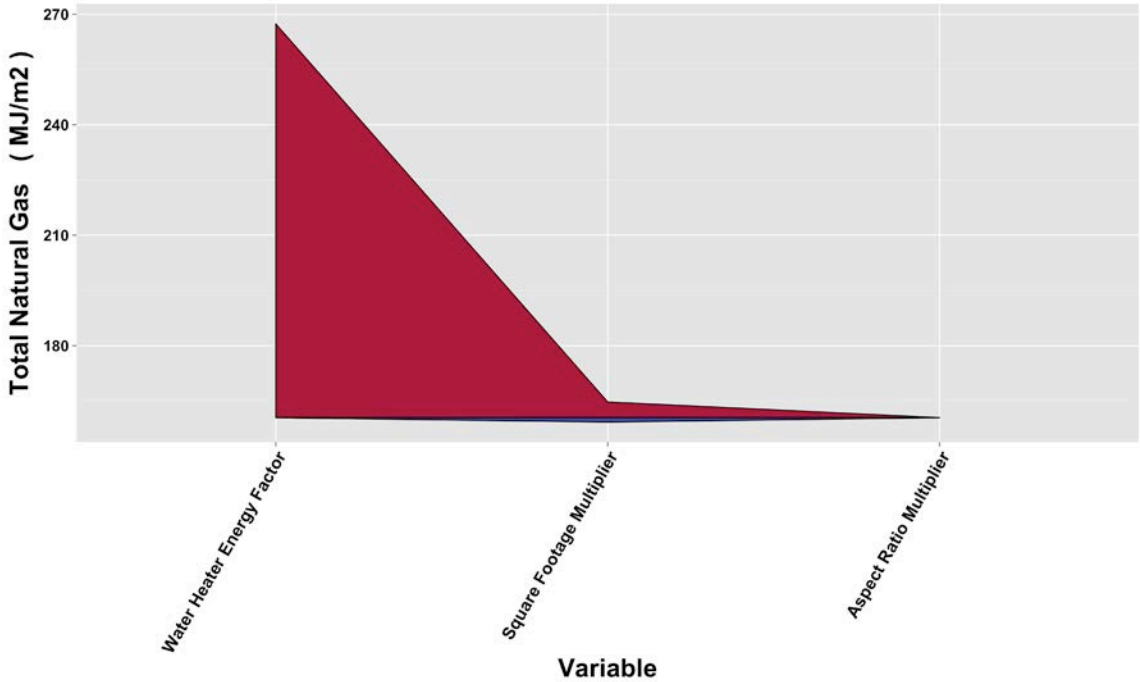
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	2084.93	2189.95
Floor Plate Area Multiplier	5400	43200	2189.95	2444.58
Square Footage Multiplier	12960	129600	2073.33	2676.39
Floor-To-Floor Height Multiplier	7.2	14.4	2077.26	2536.33
Perimeter Zone Depth	10	20	2184.60	2197.57
Floor R-Value for 24 in	0	0	2189.95	2189.95
Window-To-Wall Ratio	0	0.2	2054.61	2372.40
Window Sill Height	1	6	2189.95	2189.95
Window U-Value	0.12	1.22	2073.14	2301.34
Window SHGC	0.08	0.7	2187.99	2199.04
Window VLT	0.06	0.89	2189.95	2189.95
Wall Construction Type	masonry-on-masonry	wood-siding	2178.26	2201.14
Wall U-Value	0.03	0.58	2044.72	2852.99
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2189.67	2190.69
Roof U-Value	0.01	0.2	2137.67	2454.55
Daylighting Control Setpoint	0	0	2189.95	2189.95
Interior Lighting Power Density	0.26	2.6	1983.50	2947.36
Shading Projection Factor	0	1	2189.95	2191.82
Shading Height above Window	0	2	2185.82	2190.69
District Chiller Cooling Efficiency	0.52	1.48	2189.95	2189.95
Gas Heating Efficiency	0.87	1.13	2189.95	2189.95
Terminal DX Cooling Efficiency	0.68	1.32	2149.11	2269.93
Terminal Furnace Heating Efficiency	0.87	1.13	2189.95	2305.24
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2189.95	2189.95
Water Heater Energy Factor	1	99	2189.95	2305.82
Orientation	0	359	2186.58	2189.95



Total Electricity



Total Natural Gas

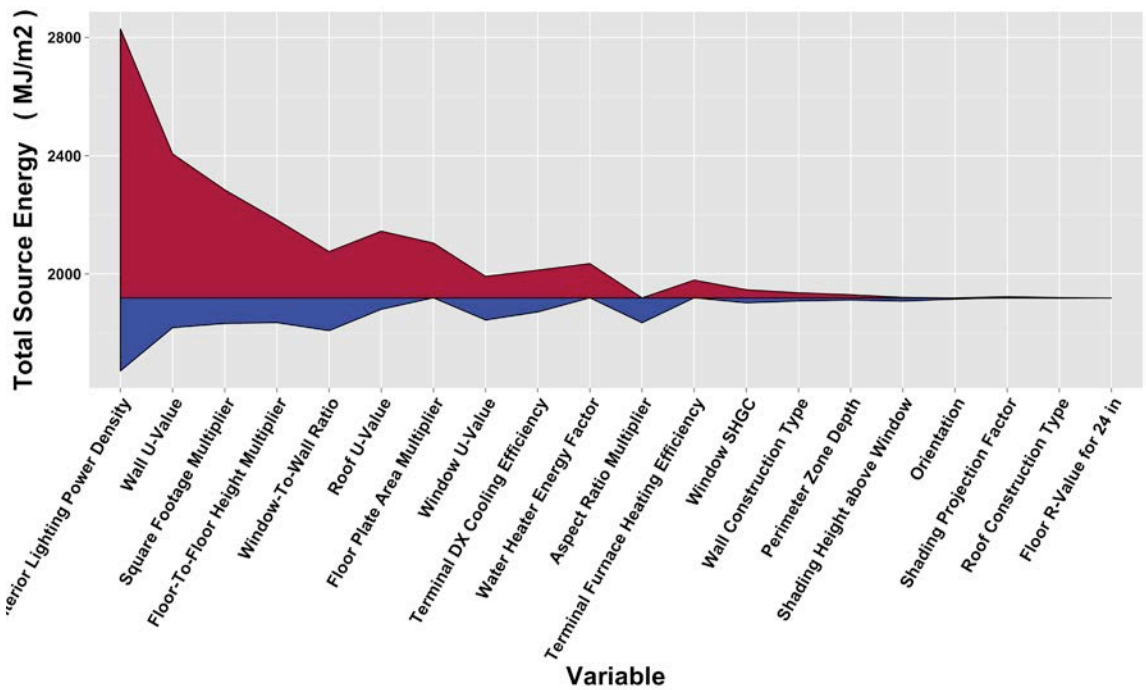


Location: Climate Zone 5A

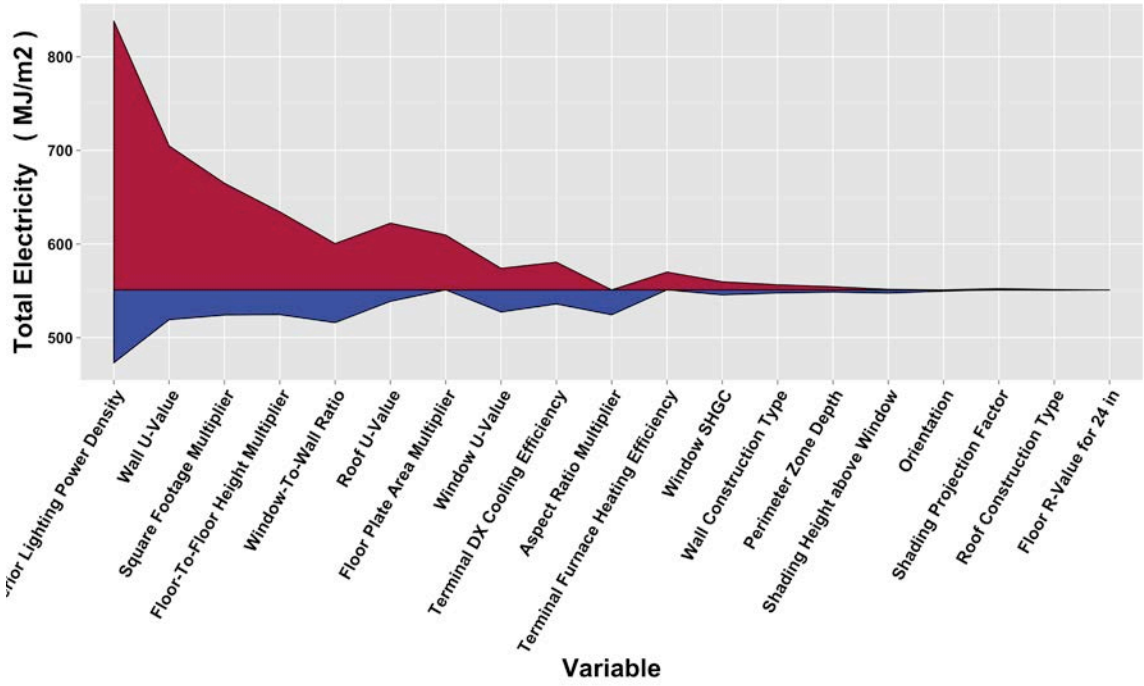
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1835.09	1919.41
Floor Plate Area Multiplier	5400	43200	1919.41	2104.72
Square Footage Multiplier	12960	129600	1832.84	2284.51
Floor-To-Floor Height Multiplier	7.2	14.4	1835.55	2183.18
Perimeter Zone Depth	10	20	1912.05	1930.00
Floor R-Value for 24 in	0	0	1919.41	1919.41
Window-To-Wall Ratio	0	0.2	1808.45	2075.83
Window Sill Height	1	6	1919.41	1919.41
Window U-Value	0.12	1.22	1844.40	1992.08
Window SHGC	0.08	0.7	1902.50	1946.77
Window VLT	0.06	0.89	1919.41	1919.41
Wall Construction Type	masonry-on-masonry	wood-siding	1908.87	1936.61
Wall U-Value	0.03	0.58	1818.46	2406.17
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1918.21	1920.42
Roof U-Value	0.01	0.2	1880.55	2144.98
Daylighting Control Setpoint	0	0	1919.41	1919.41
Interior Lighting Power Density	0.26	2.6	1672.63	2828.34
Shading Projection Factor	0	1	1919.41	1923.35

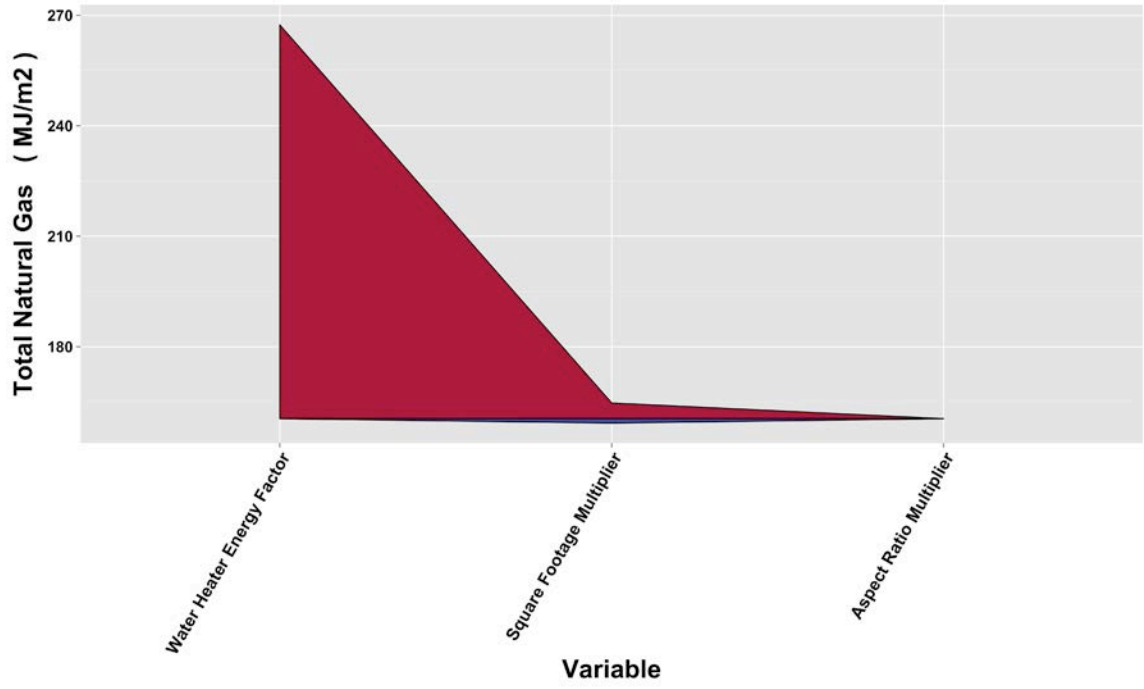
Shading Height above Window	0	2	1908.21	1921.04
District Chiller Cooling Efficiency	0.52	1.48	1919.41	1919.41
Gas Heating Efficiency	0.87	1.13	1919.41	1919.41
Terminal DX Cooling Efficiency	0.68	1.32	1871.56	2013.11
Terminal Furnace Heating Efficiency	0.87	1.13	1919.41	1979.53
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1919.41	1919.41
Water Heater Energy Factor	1	99	1919.41	2035.28
Orientation	0	359	1915.23	1919.41



Total Electricity



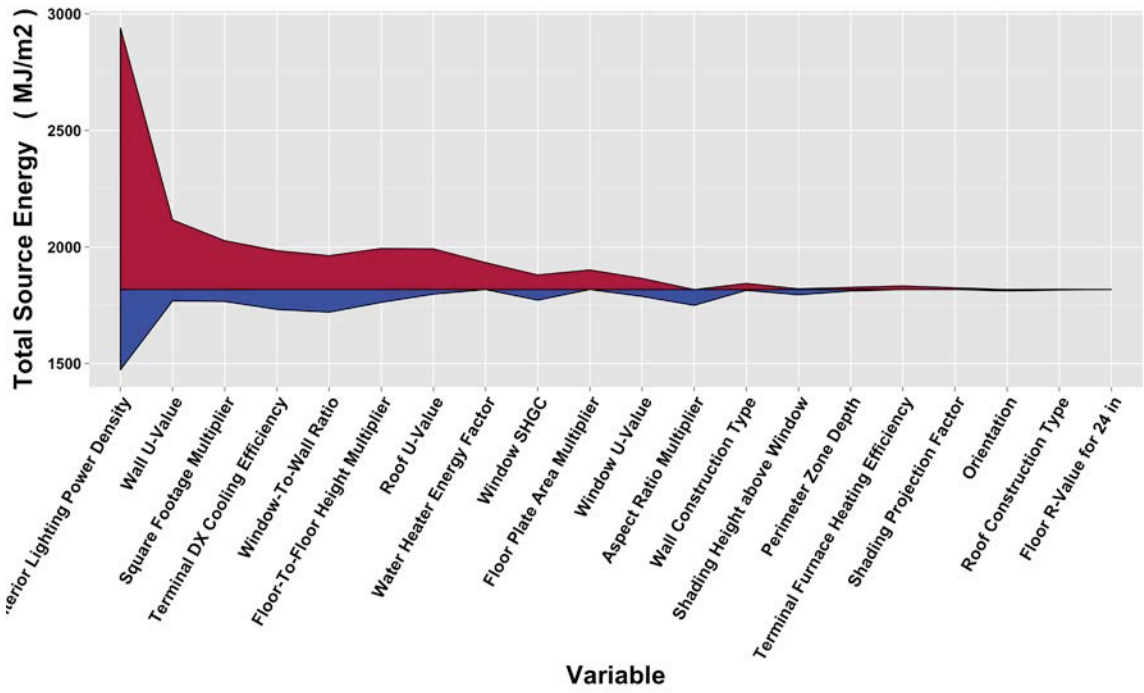
Total Natural Gas



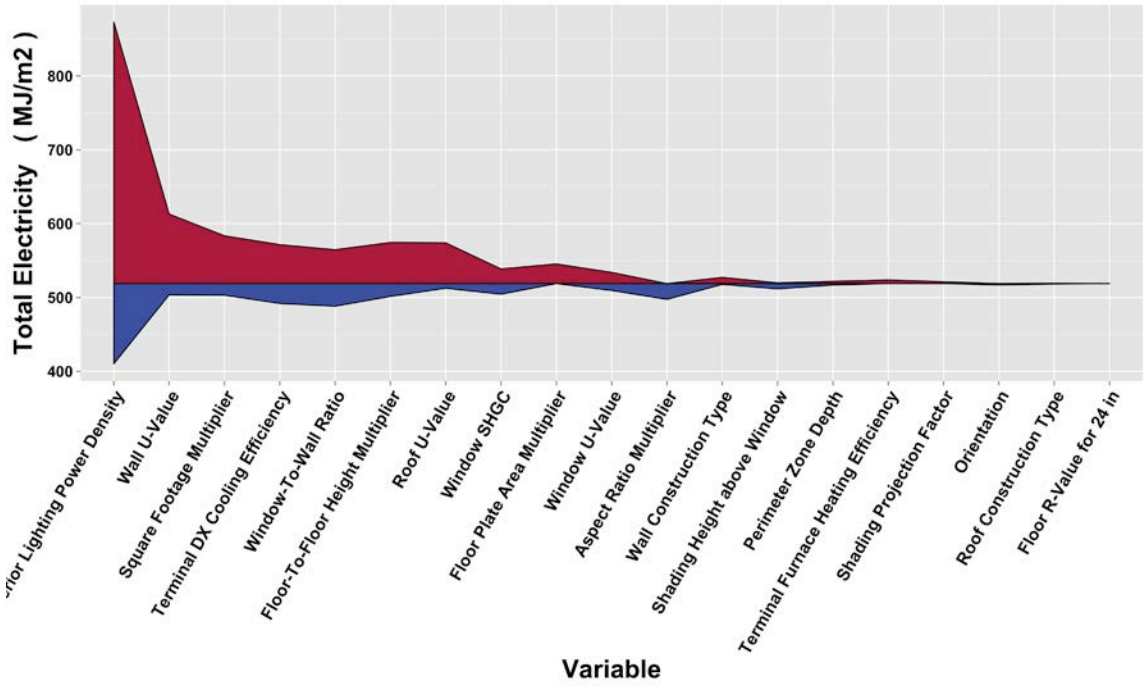
Location: Climate Zone 5B

Total Source Energy

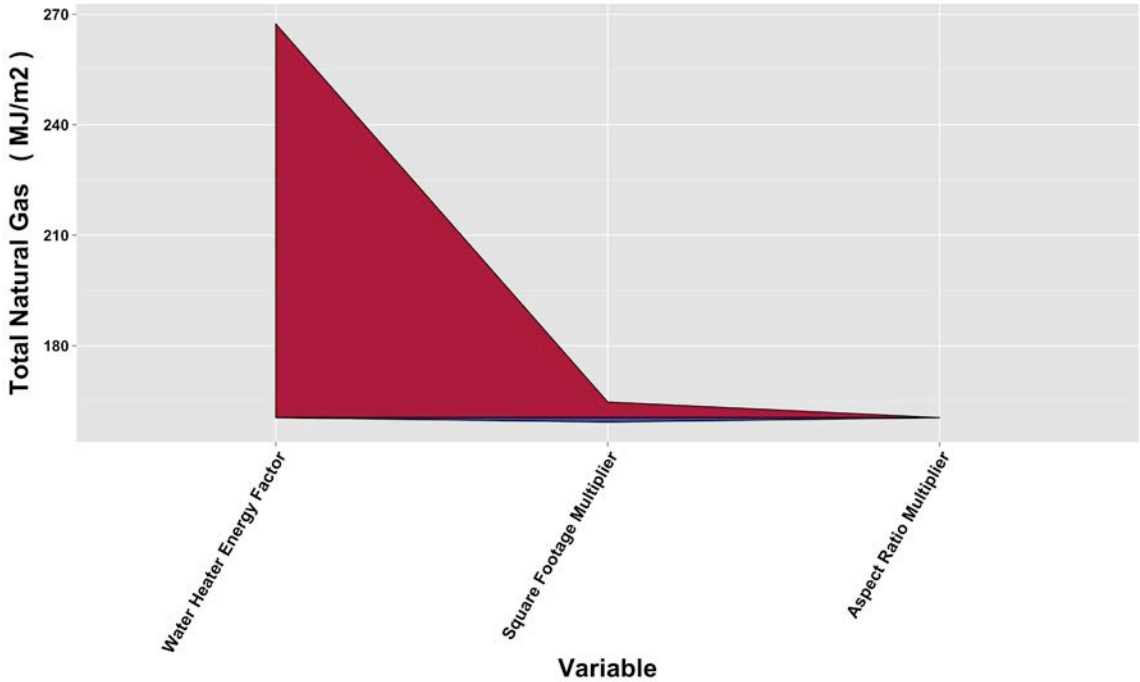
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1749.20	1817.04
Floor Plate Area Multiplier	5400	43200	1817.04	1901.30
Square Footage Multiplier	12960	129600	1765.77	2026.71
Floor-To-Floor Height Multiplier	7.2	14.4	1762.00	1993.38
Perimeter Zone Depth	10	20	1810.78	1826.73
Floor R-Value for 24 in	0	0	1817.04	1817.04
Window-To-Wall Ratio	0	0.2	1719.90	1962.39
Window Sill Height	1	6	1817.04	1817.04
Window U-Value	0.12	1.22	1787.44	1865.12
Window SHGC	0.08	0.7	1771.33	1879.90
Window VLT	0.06	0.89	1817.04	1817.04
Wall Construction Type	masonry-on-masonry	wood-siding	1813.61	1843.62
Wall U-Value	0.03	0.58	1768.50	2115.58
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1815.12	1818.50
Roof U-Value	0.01	0.2	1797.08	1991.92
Daylighting Control Setpoint	0	0	1817.04	1817.04
Interior Lighting Power Density	0.26	2.6	1472.81	2938.90
Shading Projection Factor	0	1	1817.04	1824.98
Shading Height above Window	0	2	1794.35	1820.30
District Chiller Cooling Efficiency	0.52	1.48	1817.04	1817.04
Gas Heating Efficiency	0.87	1.13	1817.04	1817.04
Terminal DX Cooling Efficiency	0.68	1.32	1731.77	1984.03
Terminal Furnace Heating Efficiency	0.87	1.13	1817.04	1832.80
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1817.04	1817.04
Water Heater Energy Factor	1	99	1817.04	1932.91
Orientation	0	359	1811.51	1817.06



Total Electricity



Total Natural Gas

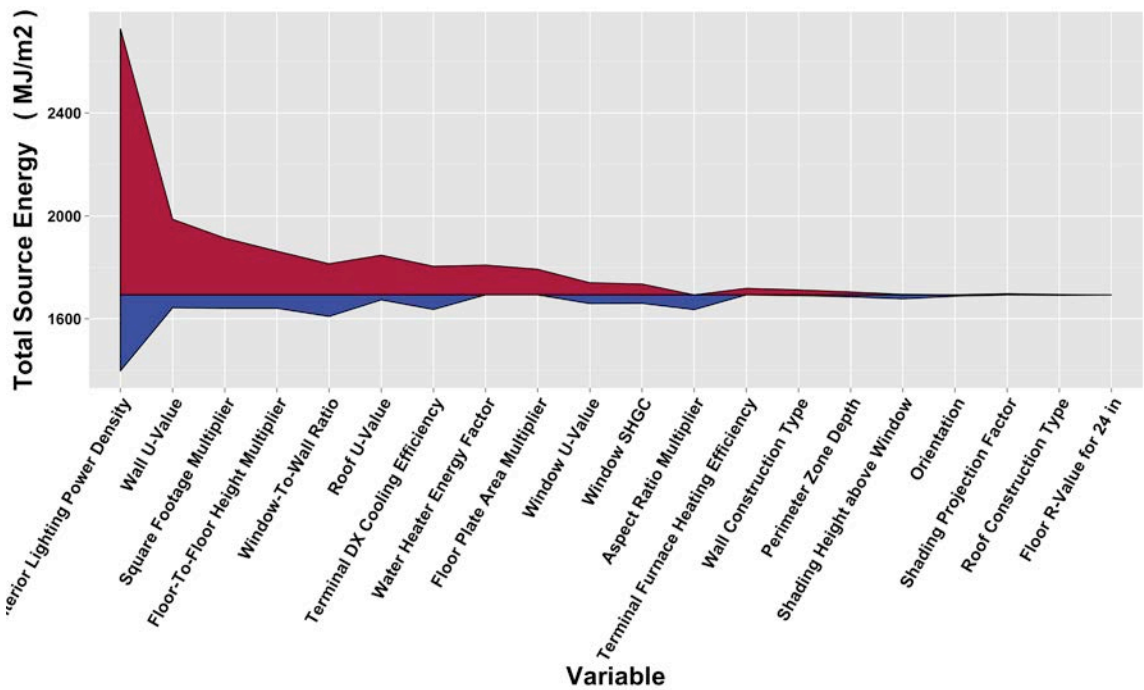


Location: Climate Zone 5C

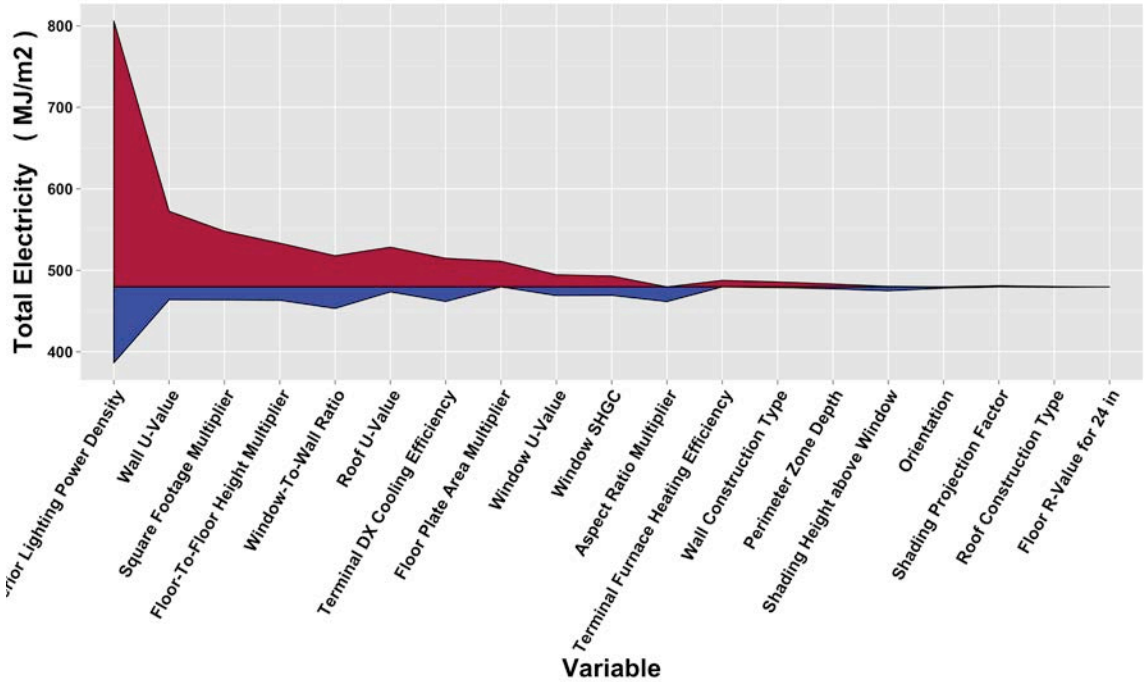
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1635.80	1693.05
Floor Plate Area Multiplier	5400	43200	1693.05	1792.67
Square Footage Multiplier	12960	129600	1641.25	1913.84
Floor-To-Floor Height Multiplier	7.2	14.4	1641.13	1863.14
Perimeter Zone Depth	10	20	1685.67	1704.31
Floor R-Value for 24 in	0	0	1693.05	1693.05
Window-To-Wall Ratio	0	0.2	1609.30	1814.00
Window Sill Height	1	6	1693.05	1693.05
Window U-Value	0.12	1.22	1659.14	1740.15
Window SHGC	0.08	0.7	1660.16	1735.23
Window VLT	0.06	0.89	1693.05	1693.05
Wall Construction Type	masonry-on-masonry	wood-siding	1690.27	1712.34
Wall U-Value	0.03	0.58	1643.18	1986.95
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1691.87	1694.24
Roof U-Value	0.01	0.2	1673.65	1847.46
Daylighting Control Setpoint	0	0	1693.05	1693.05
Interior Lighting Power Density	0.26	2.6	1397.97	2726.10
Shading Projection Factor	0	1	1693.05	1697.79

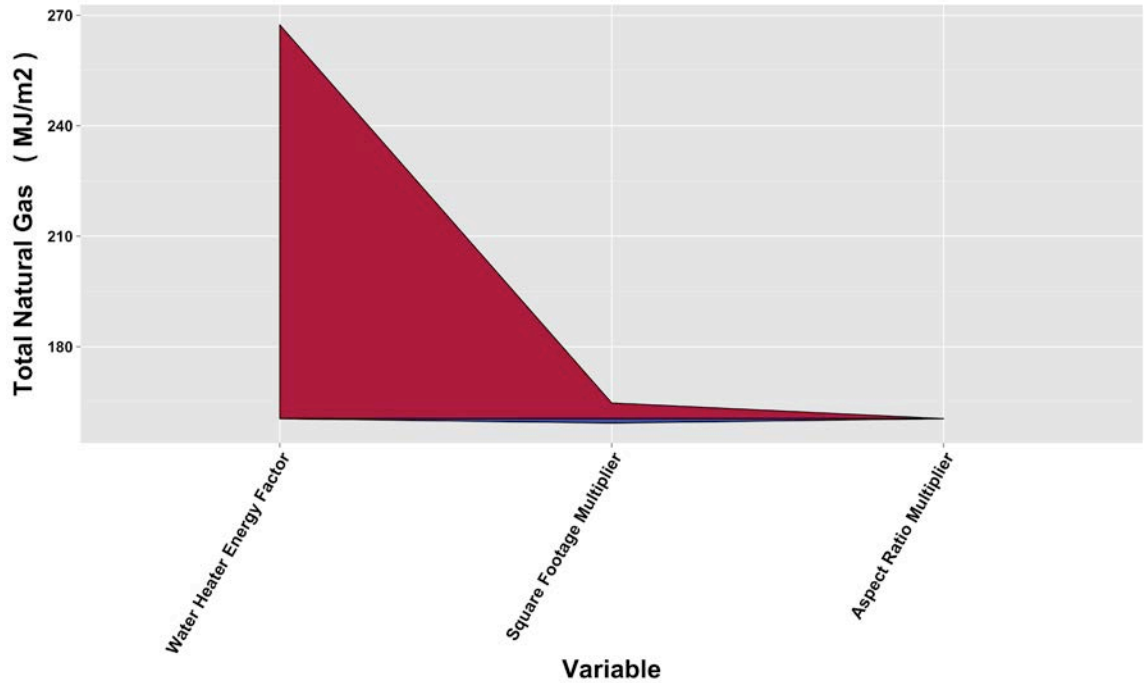
Shading Height above Window	0	2	1677.74	1695.01
District Chiller Cooling Efficiency	0.52	1.48	1693.05	1693.05
Gas Heating Efficiency	0.87	1.13	1693.05	1693.05
Terminal DX Cooling Efficiency	0.68	1.32	1636.32	1804.13
Terminal Furnace Heating Efficiency	0.87	1.13	1693.05	1718.53
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1693.05	1693.05
Water Heater Energy Factor	1	99	1693.05	1808.92
Orientation	0	359	1687.98	1693.14



Total Electricity



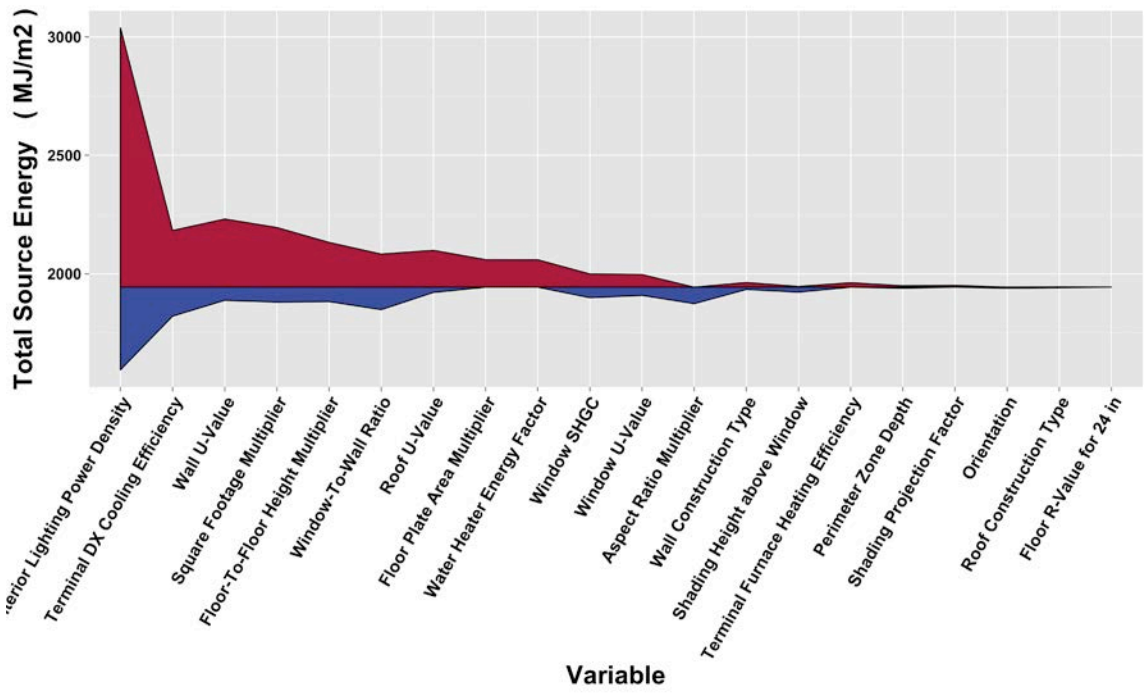
Total Natural Gas



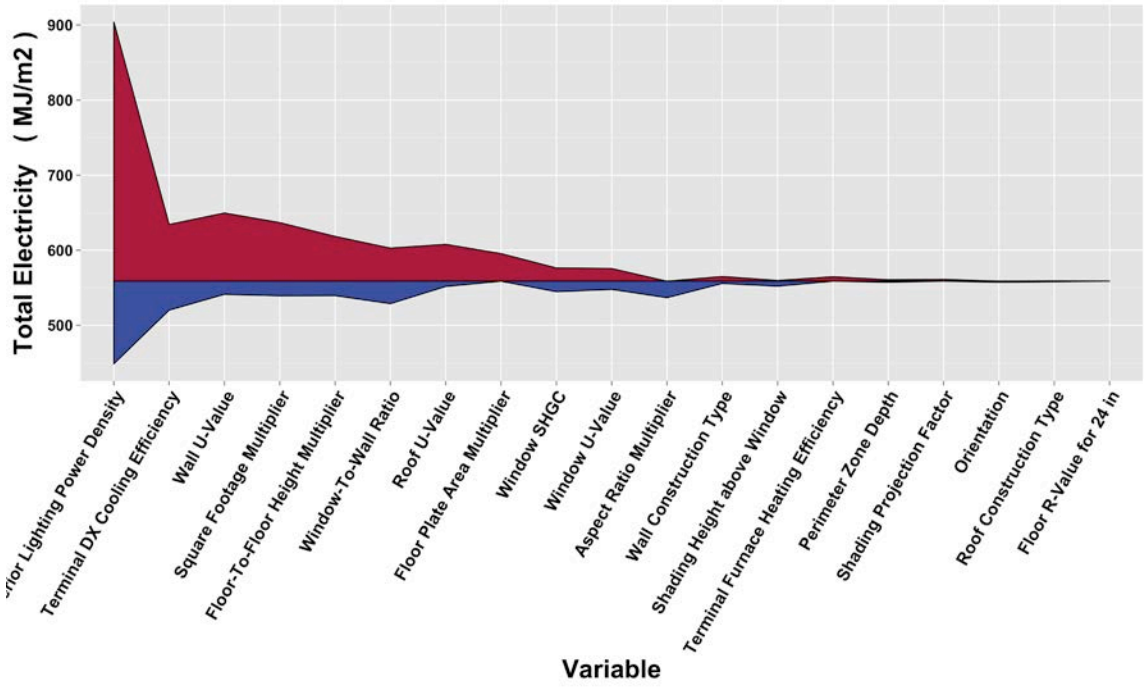
Location: Climate Zone 6A

Total Source Energy

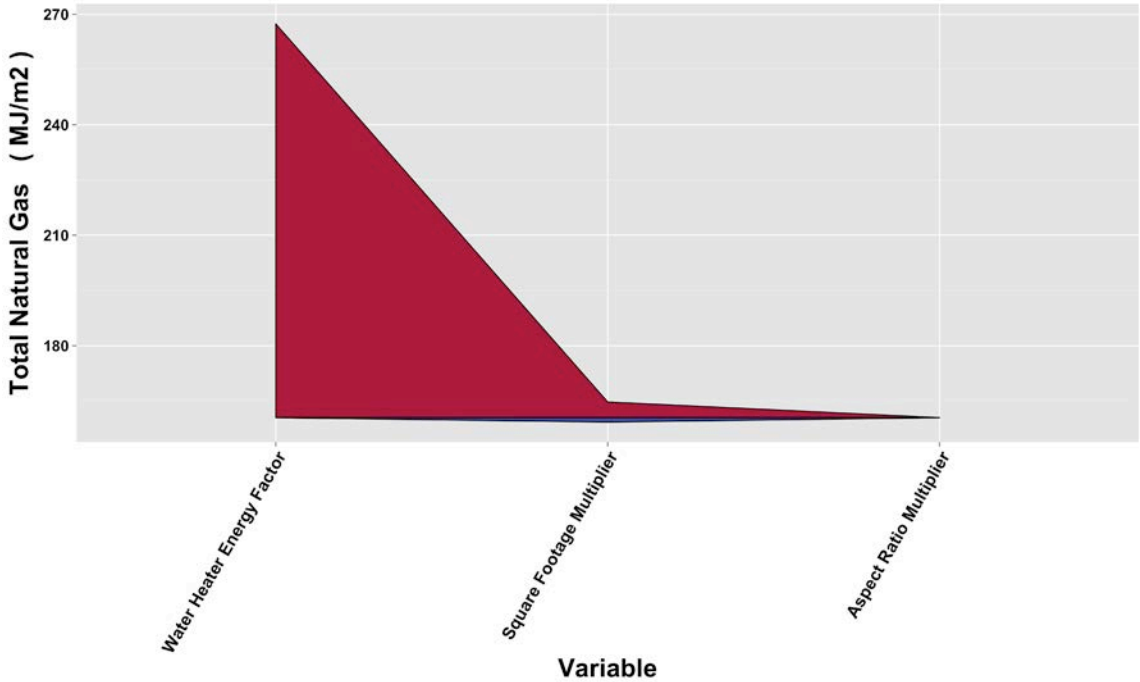
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1873.68	1943.29
Floor Plate Area Multiplier	5400	43200	1943.29	2059.59
Square Footage Multiplier	12960	129600	1880.39	2195.14
Floor-To-Floor Height Multiplier	7.2	14.4	1882.51	2132.31
Perimeter Zone Depth	10	20	1939.29	1949.30
Floor R-Value for 24 in	0	0	1943.29	1943.29
Window-To-Wall Ratio	0	0.2	1848.42	2082.96
Window Sill Height	1	6	1943.29	1943.29
Window U-Value	0.12	1.22	1908.86	1996.57
Window SHGC	0.08	0.7	1898.92	1999.20
Window VLT	0.06	0.89	1943.29	1943.29
Wall Construction Type	masonry-on-masonry	wood-siding	1933.76	1963.13
Wall U-Value	0.03	0.58	1888.01	2231.10
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1941.18	1944.34
Roof U-Value	0.01	0.2	1921.06	2098.91
Daylighting Control Setpoint	0	0	1943.29	1943.29
Interior Lighting Power Density	0.26	2.6	1594.52	3036.97
Shading Projection Factor	0	1	1943.29	1950.98
Shading Height above Window	0	2	1922.40	1946.29
District Chiller Cooling Efficiency	0.52	1.48	1943.29	1943.29
Gas Heating Efficiency	0.87	1.13	1943.29	1943.29
Terminal DX Cooling Efficiency	0.68	1.32	1821.05	2182.68
Terminal Furnace Heating Efficiency	0.87	1.13	1943.29	1962.11
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1943.29	1943.29
Water Heater Energy Factor	1	99	1943.29	2059.16
Orientation	0	359	1939.22	1943.29



Total Electricity



Total Natural Gas

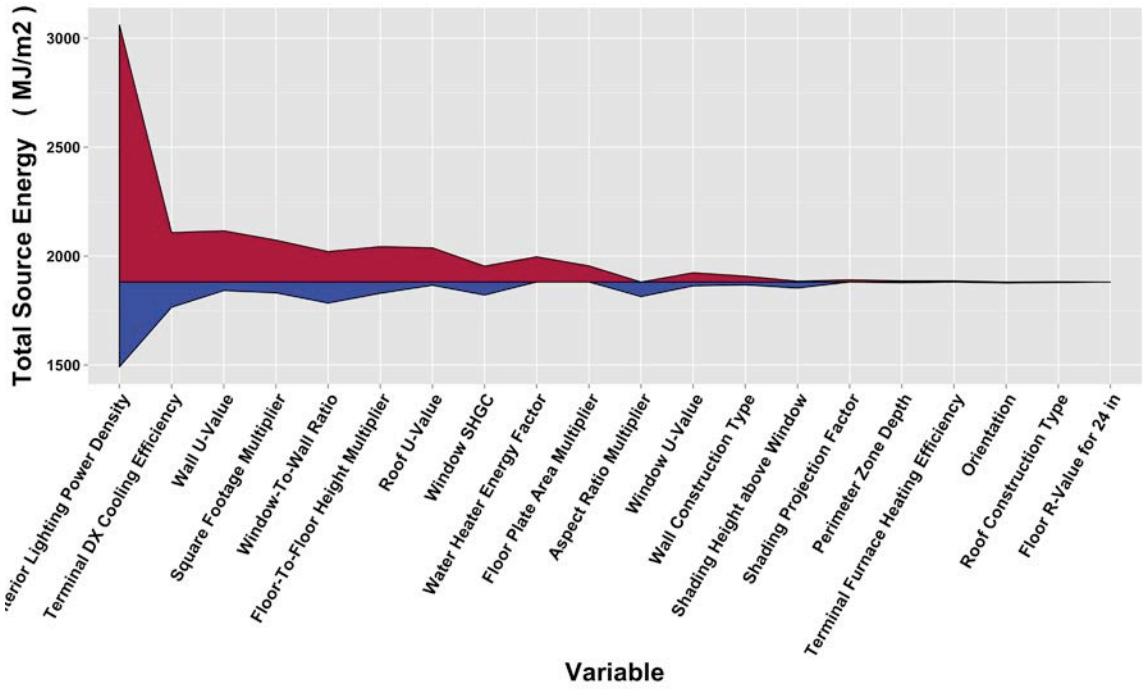


Location: Climate Zone 6B

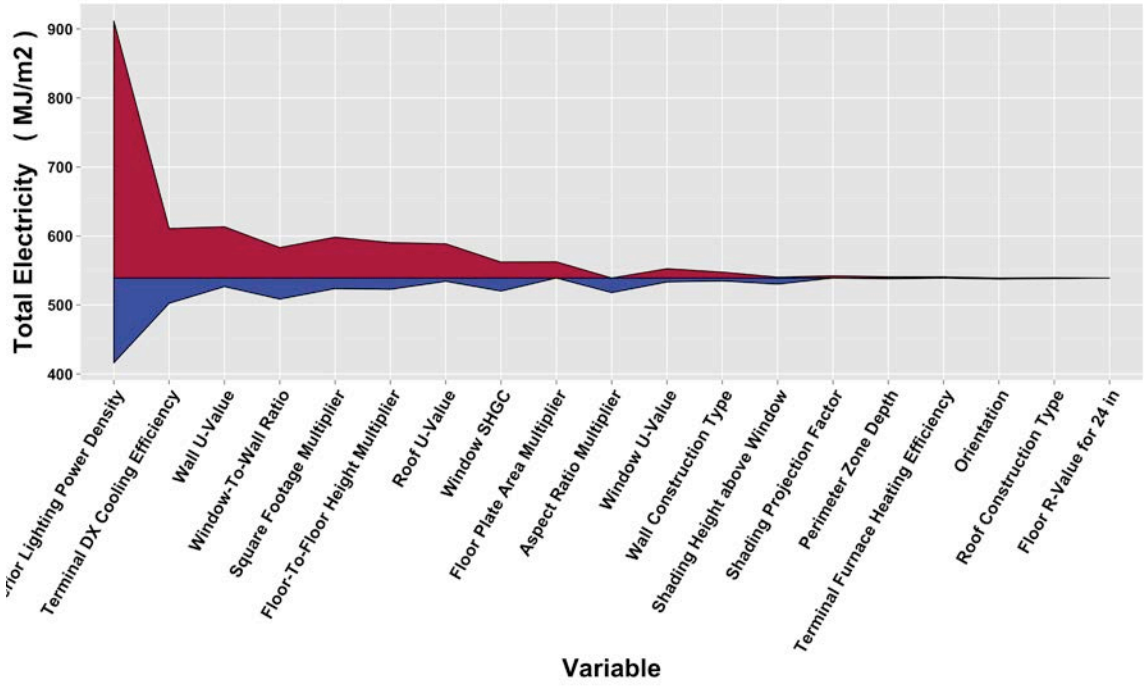
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1814.15	1881.29
Floor Plate Area Multiplier	5400	43200	1881.29	1955.62
Square Footage Multiplier	12960	129600	1831.47	2073.46
Floor-To-Floor Height Multiplier	7.2	14.4	1829.20	2043.74
Perimeter Zone Depth	10	20	1877.84	1886.81
Floor R-Value for 24 in	0	0	1881.29	1881.29
Window-To-Wall Ratio	0	0.2	1784.39	2021.14
Window Sill Height	1	6	1881.29	1881.29
Window U-Value	0.12	1.22	1863.17	1924.08
Window SHGC	0.08	0.7	1821.23	1954.32
Window VLT	0.06	0.89	1881.29	1881.29
Wall Construction Type	masonry-on-masonry	wood-siding	1868.00	1908.29
Wall U-Value	0.03	0.58	1841.82	2116.62
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1879.09	1882.68
Roof U-Value	0.01	0.2	1866.15	2038.47
Daylighting Control Setpoint	0	0	1881.29	1881.29
Interior Lighting Power Density	0.26	2.6	1491.96	3060.75
Shading Projection Factor	0	1	1881.29	1891.07

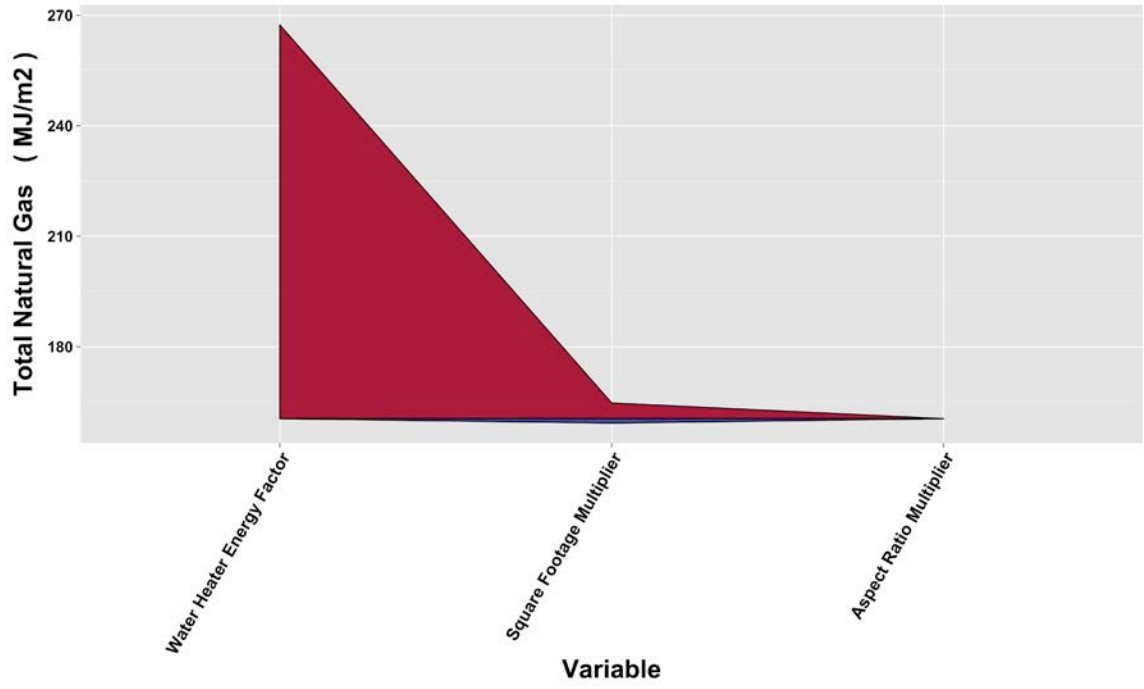
Shading Height above Window	0	2	1853.19	1885.31
District Chiller Cooling Efficiency	0.52	1.48	1881.29	1881.29
Gas Heating Efficiency	0.87	1.13	1881.29	1881.29
Terminal DX Cooling Efficiency	0.68	1.32	1765.31	2108.40
Terminal Furnace Heating Efficiency	0.87	1.13	1881.29	1886.69
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1881.29	1881.29
Water Heater Energy Factor	1	99	1881.29	1997.16
Orientation	0	359	1876.20	1881.31



Total Electricity



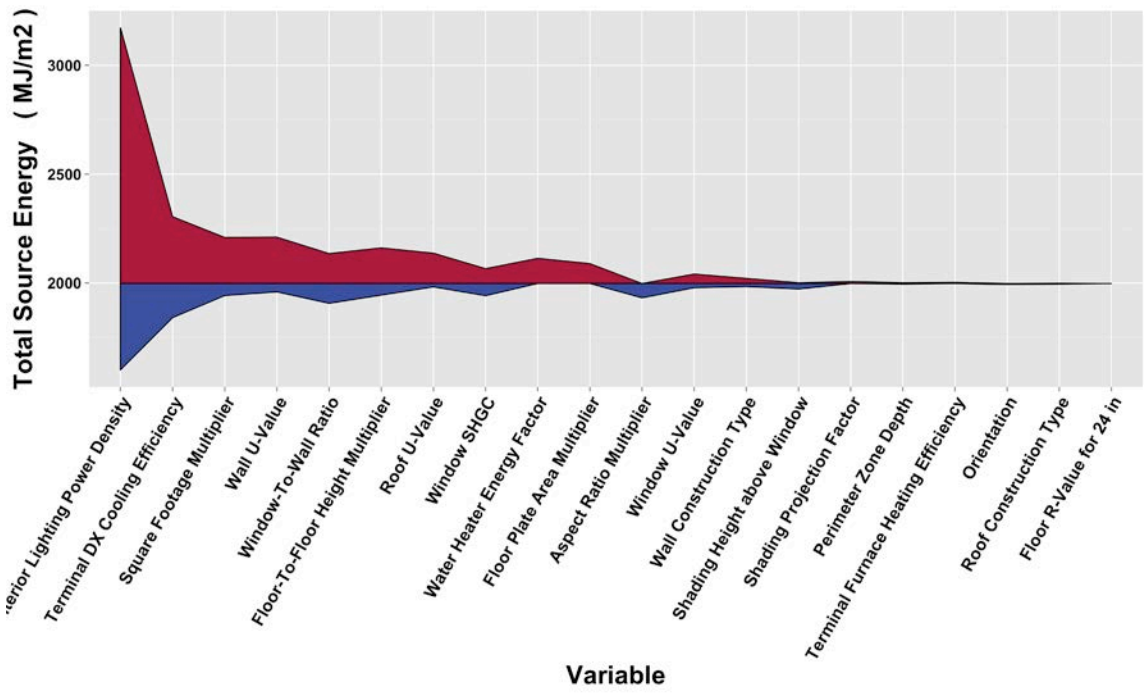
Total Natural Gas



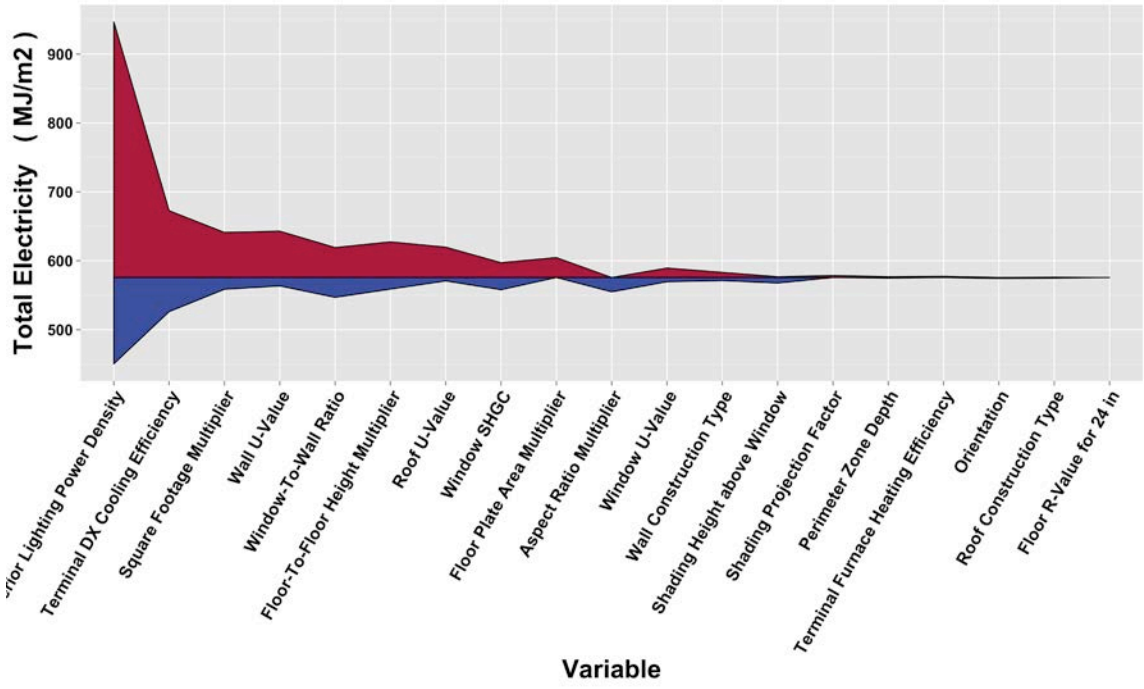
Location: Climate Zone 7

Total Source Energy

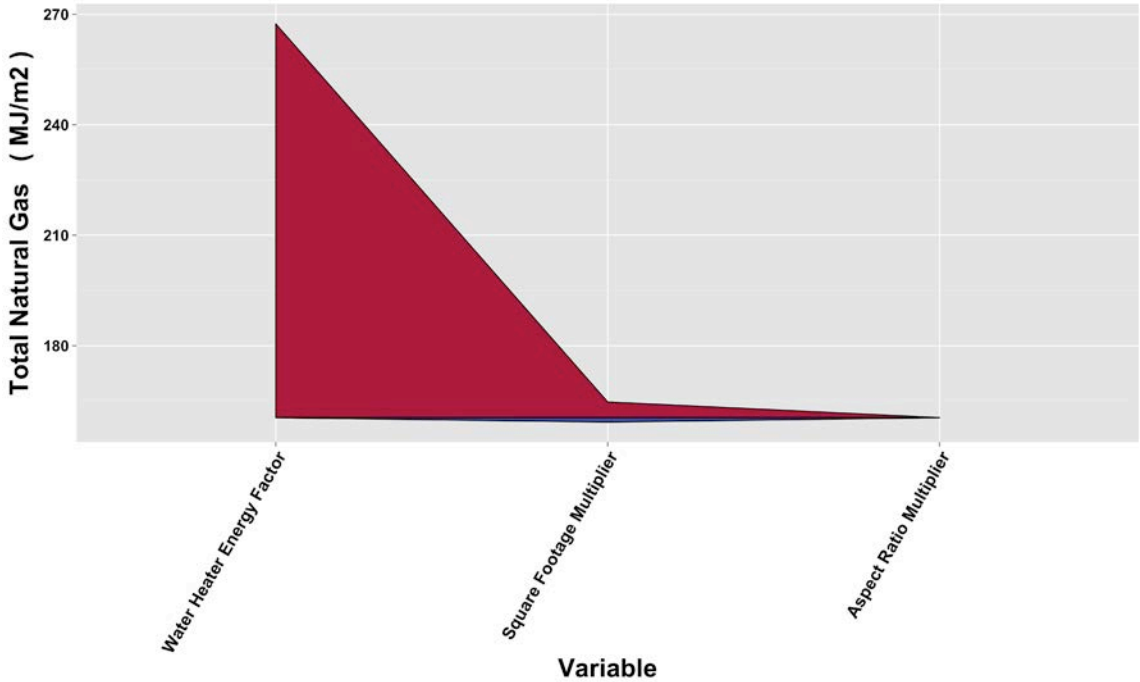
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1931.52	1997.38
Floor Plate Area Multiplier	5400	43200	1997.38	2089.01
Square Footage Multiplier	12960	129600	1942.09	2209.06
Floor-To-Floor Height Multiplier	7.2	14.4	1944.08	2161.16
Perimeter Zone Depth	10	20	1994.93	2001.25
Floor R-Value for 24 in	0	0	1997.38	1997.38
Window-To-Wall Ratio	0	0.2	1906.17	2135.03
Window Sill Height	1	6	1997.38	1997.38
Window U-Value	0.12	1.22	1977.92	2040.75
Window SHGC	0.08	0.7	1941.30	2065.72
Window VLT	0.06	0.89	1997.38	1997.38
Wall Construction Type	masonry-on-masonry	wood-siding	1983.56	2020.88
Wall U-Value	0.03	0.58	1958.87	2210.42
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1994.95	1998.53
Roof U-Value	0.01	0.2	1981.70	2136.92
Daylighting Control Setpoint	0	0	1997.38	1997.38
Interior Lighting Power Density	0.26	2.6	1600.72	3171.38
Shading Projection Factor	0	1	1997.38	2006.47
Shading Height above Window	0	2	1971.90	2001.00
District Chiller Cooling Efficiency	0.52	1.48	1997.38	1997.38
Gas Heating Efficiency	0.87	1.13	1997.38	1997.38
Terminal DX Cooling Efficiency	0.68	1.32	1840.59	2304.45
Terminal Furnace Heating Efficiency	0.87	1.13	1997.38	2002.82
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1997.38	1997.38
Water Heater Energy Factor	1	99	1997.38	2113.26
Orientation	0	359	1993.09	1997.38



Total Electricity



Total Natural Gas

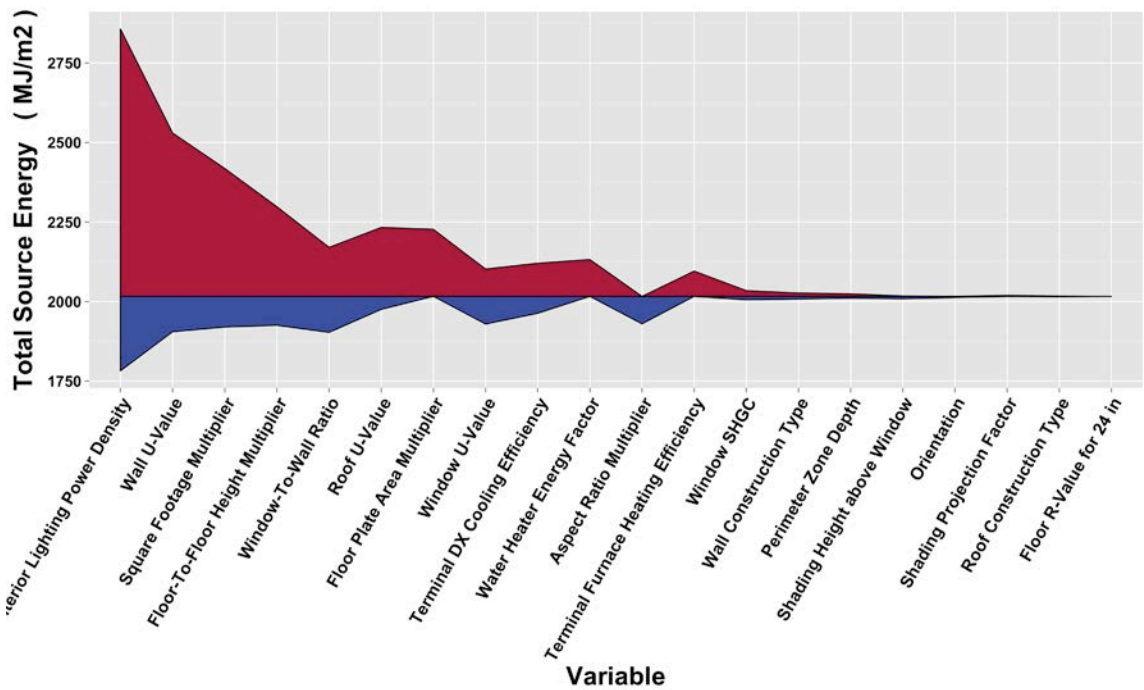


Location: Climate Zone 8

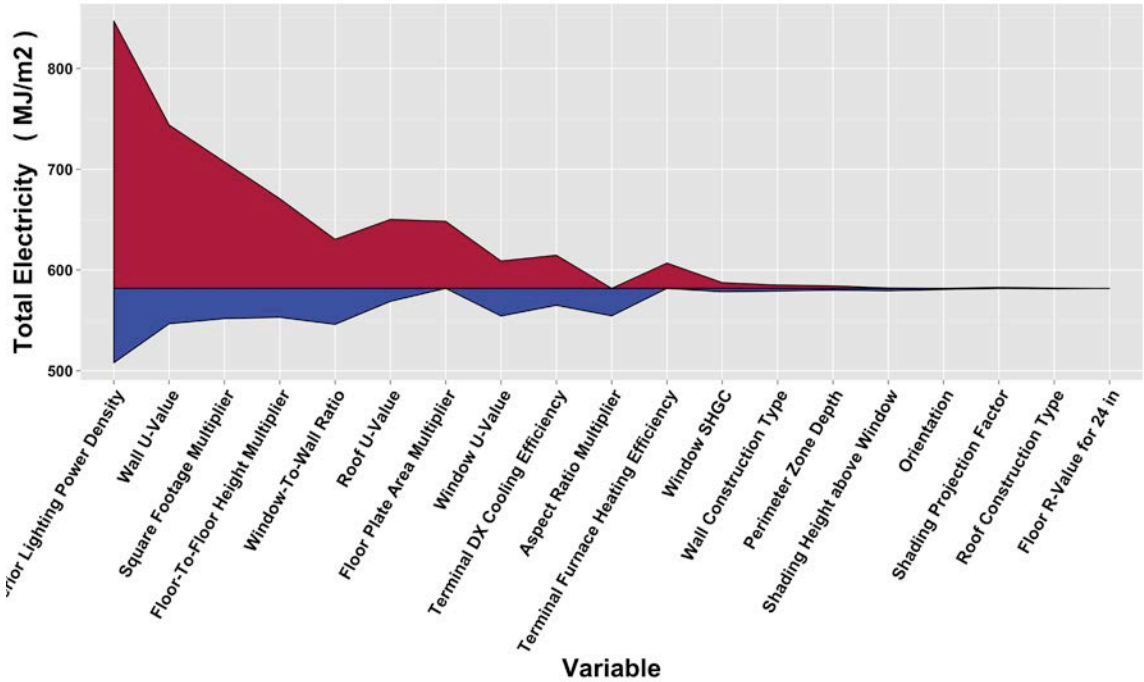
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.33	1.67	1929.76	2016.26
Floor Plate Area Multiplier	5400	43200	2016.26	2227.07
Square Footage Multiplier	12960	129600	1919.83	2418.51
Floor-To-Floor Height Multiplier	7.2	14.4	1925.24	2298.20
Perimeter Zone Depth	10	20	2010.75	2024.18
Floor R-Value for 24 in	0	0	2016.26	2016.26
Window-To-Wall Ratio	0	0.2	1902.95	2170.36
Window Sill Height	1	6	2016.26	2016.26
Window U-Value	0.12	1.22	1929.18	2102.21
Window SHGC	0.08	0.7	2005.43	2034.18
Window VLT	0.06	0.89	2016.26	2016.26
Wall Construction Type	masonry-on-masonry	wood-siding	2007.92	2026.65
Wall U-Value	0.03	0.58	1905.03	2530.02
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2015.43	2017.04
Roof U-Value	0.01	0.2	1975.29	2233.13
Daylighting Control Setpoint	0	0	2016.26	2016.26
Interior Lighting Power Density	0.26	2.6	1782.07	2856.85
Shading Projection Factor	0	1	2016.26	2019.17

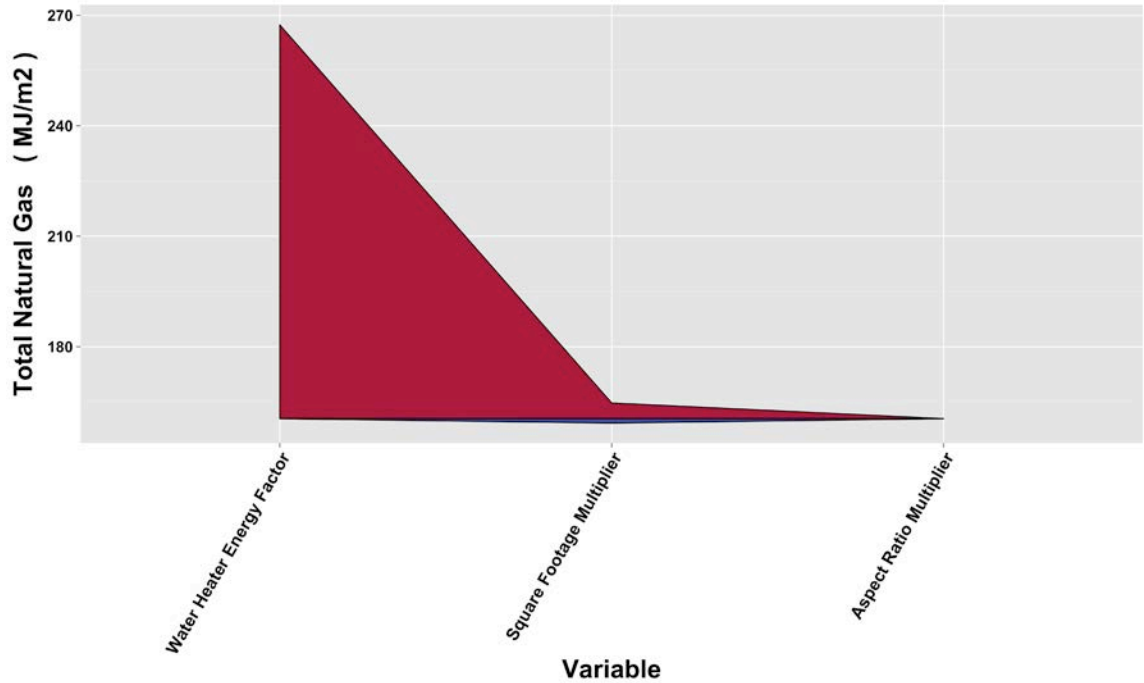
Shading Height above Window	0	2	2008.62	2017.33
District Chiller Cooling Efficiency	0.52	1.48	2016.26	2016.26
Gas Heating Efficiency	0.87	1.13	2016.26	2016.26
Terminal DX Cooling Efficiency	0.68	1.32	1963.06	2120.43
Terminal Furnace Heating Efficiency	0.87	1.13	2016.26	2095.78
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2016.26	2016.26
Water Heater Energy Factor	1	99	2016.26	2132.13
Orientation	0	359	2012.72	2016.26



Total Electricity



Total Natural Gas

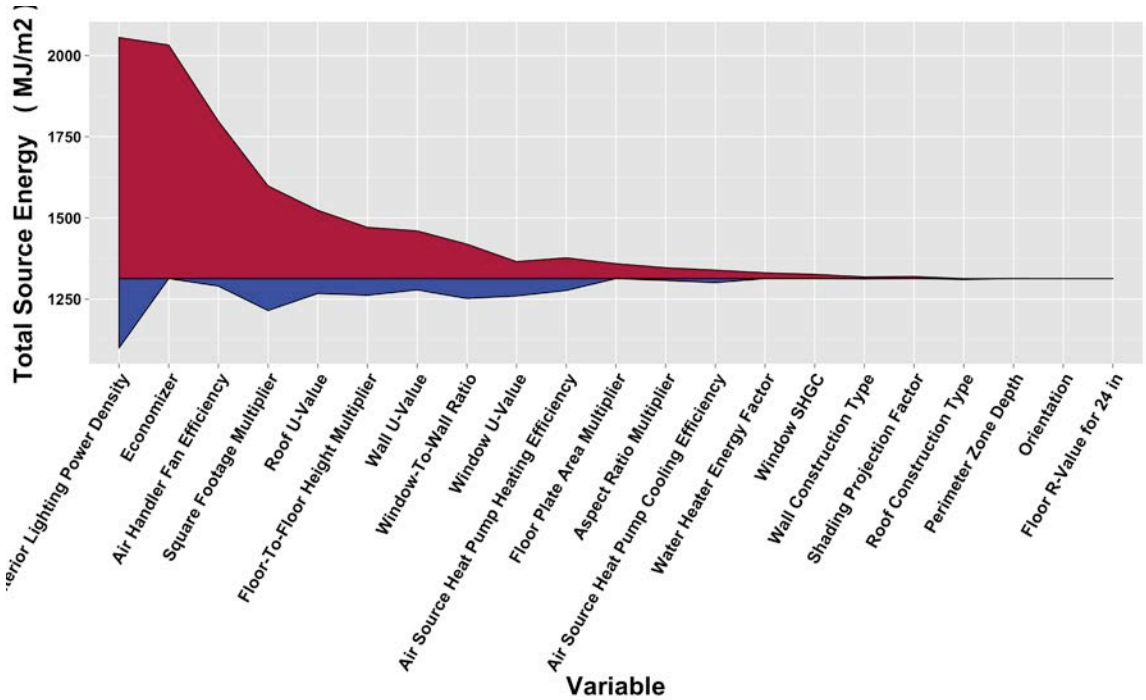


Small Office

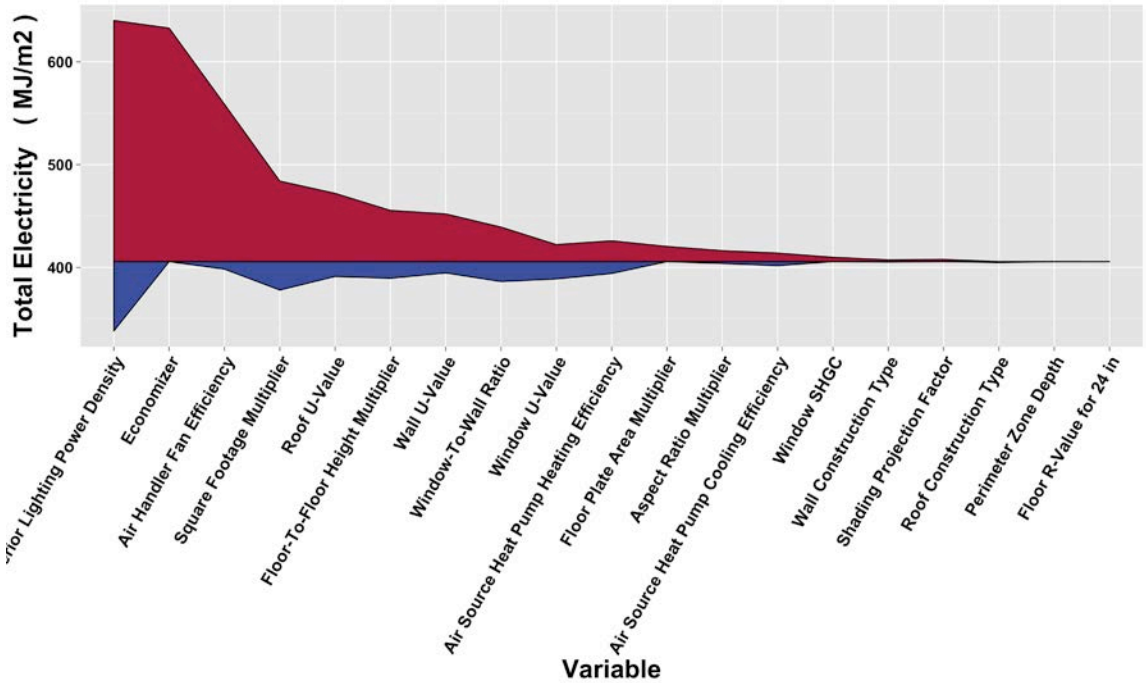
Location: Climate Zone 1A

Total Source Energy

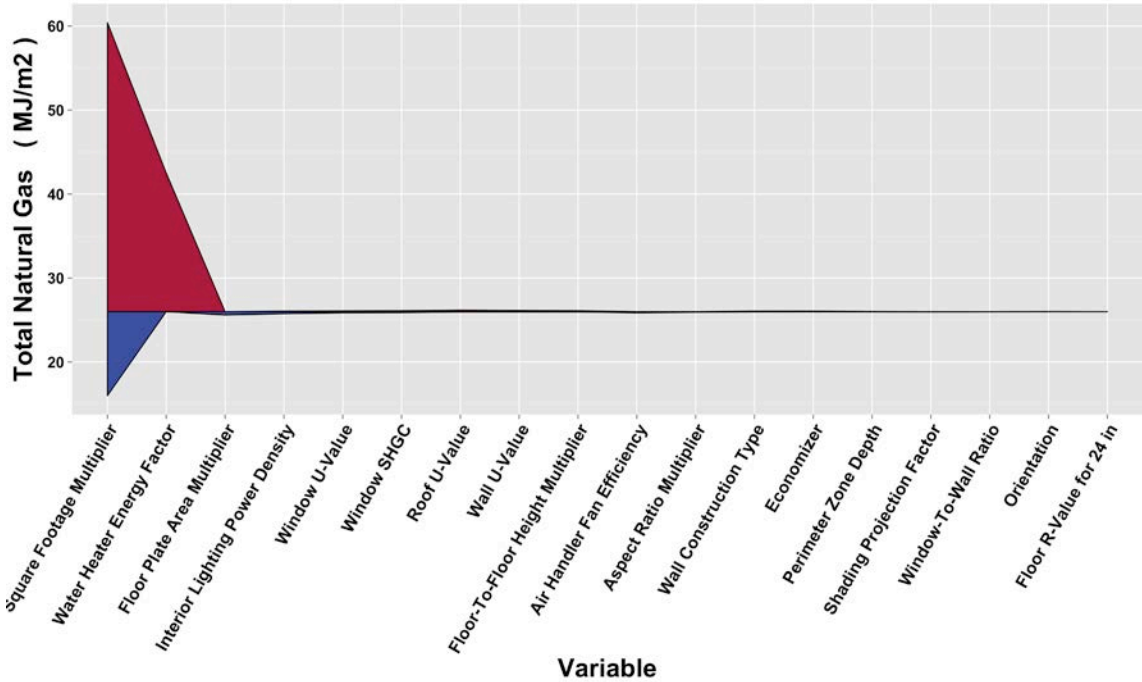
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1307.49	1346.80
Floor Plate Area Multiplier	2746.7	5493.4	1313.19	1359.32
Square Footage Multiplier	1648.02	16480.2	1214.72	1598.64
Floor-To-Floor Height Multiplier	8	16	1261.87	1470.95
Perimeter Zone Depth	10	20	1312.90	1313.63
Floor R-Value for 24 in	0	0.01	1313.19	1313.19
Window-To-Wall Ratio	0	0.5	1251.77	1419.44
Window Sill Height	1	6	1313.19	1313.19
Window U-Value	0.12	1.22	1259.75	1365.65
Window SHGC	0.08	0.7	1313.19	1326.37
Window VLT	0.06	0.89	1313.19	1313.19
Wall Construction Type	masonry-on-masonry	wood-siding	1311.67	1318.54
Wall U-Value	0.03	0.58	1278.33	1460.22
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1310.39	1313.19
Roof U-Value	0.01	0.2	1267.39	1523.68
Daylighting Control Setpoint	0	0	1313.19	1313.19
Interior Lighting Power Density	0.29	2.86	1099.46	2055.53
Shading Projection Factor	0	1	1313.19	1319.83
District Chiller Cooling Efficiency	0.52	1.48	1313.19	1313.19
Air Handler Fan Efficiency	16.88	60.75	1290.08	1797.74
Air Source Heat Pump Cooling Efficiency	2	4.2	1300.72	1339.38
Air Source Heat Pump Heating Efficiency	2.25	3.95	1276.57	1377.27
Gas Heating Efficiency	0.87	1.13	1313.19	1313.19
Terminal DX Cooling Efficiency	0.68	1.32	1313.19	1313.19
Terminal Furnace Heating Efficiency	0.87	1.13	1313.19	1313.19
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1313.19	1313.19
Water Heater Energy Factor	1	99	1313.19	1331.09
Economizer	false	true	1313.19	2032.45
Fan Control	cav	false	1313.19	1313.19
Orientation	0	359	1313.19	1313.24



Total Electricity



Total Natural Gas

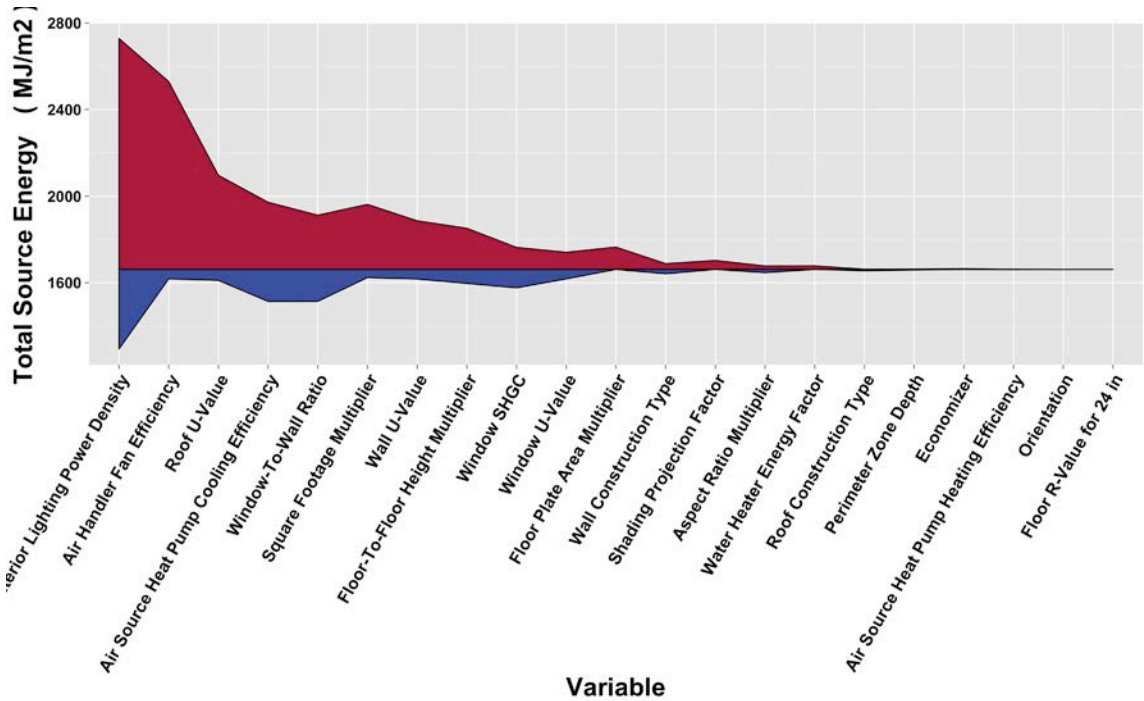


Location: Climate Zone 1B

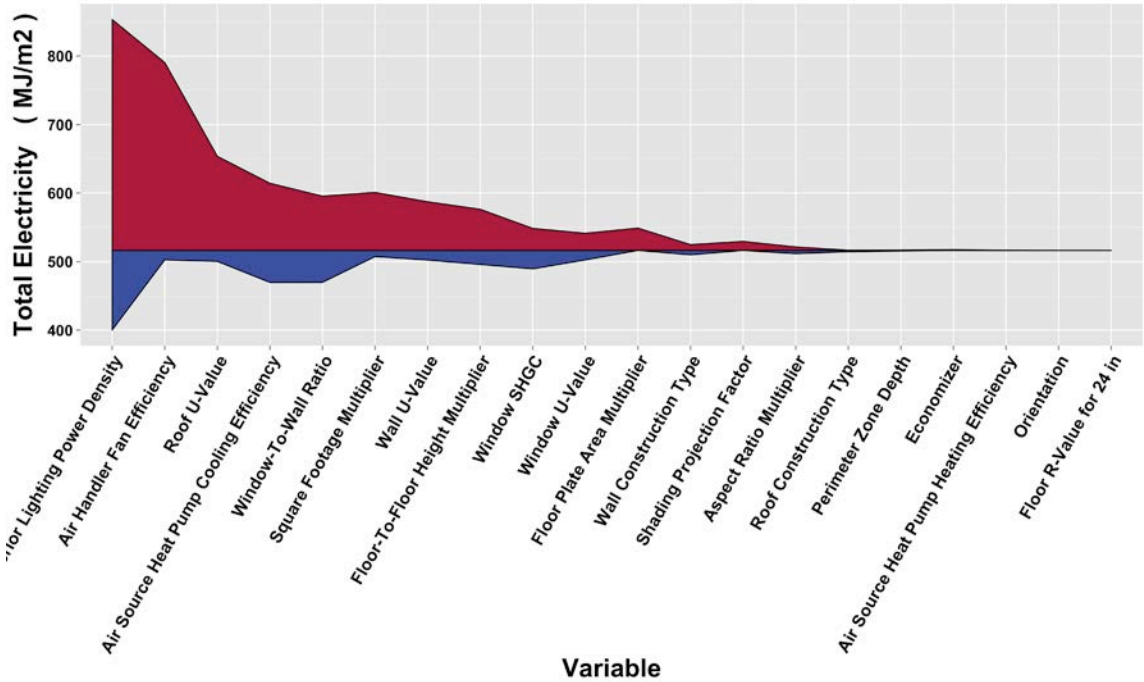
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1646.26	1677.37
Floor Plate Area Multiplier	2746.7	5493.4	1661.31	1764.72
Square Footage Multiplier	1648.02	16480.2	1623.63	1961.95
Floor-To-Floor Height Multiplier	8	16	1596.60	1851.68
Perimeter Zone Depth	10	20	1658.73	1663.27
Floor R-Value for 24 in	0	0.01	1661.31	1661.31
Window-To-Wall Ratio	0	0.5	1513.88	1912.10
Window Sill Height	1	6	1661.31	1661.31
Window U-Value	0.12	1.22	1617.54	1740.67
Window SHGC	0.08	0.7	1576.23	1763.21
Window VLT	0.06	0.89	1661.31	1661.31
Wall Construction Type	masonry-on-masonry	wood-siding	1641.07	1688.22
Wall U-Value	0.03	0.58	1617.01	1886.20
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1655.49	1662.52
Roof U-Value	0.01	0.2	1610.68	2096.51
Daylighting Control Setpoint	0	0	1661.31	1661.31
Interior Lighting Power Density	0.29	2.86	1293.60	2728.43
Shading Projection Factor	0	1	1661.31	1702.97

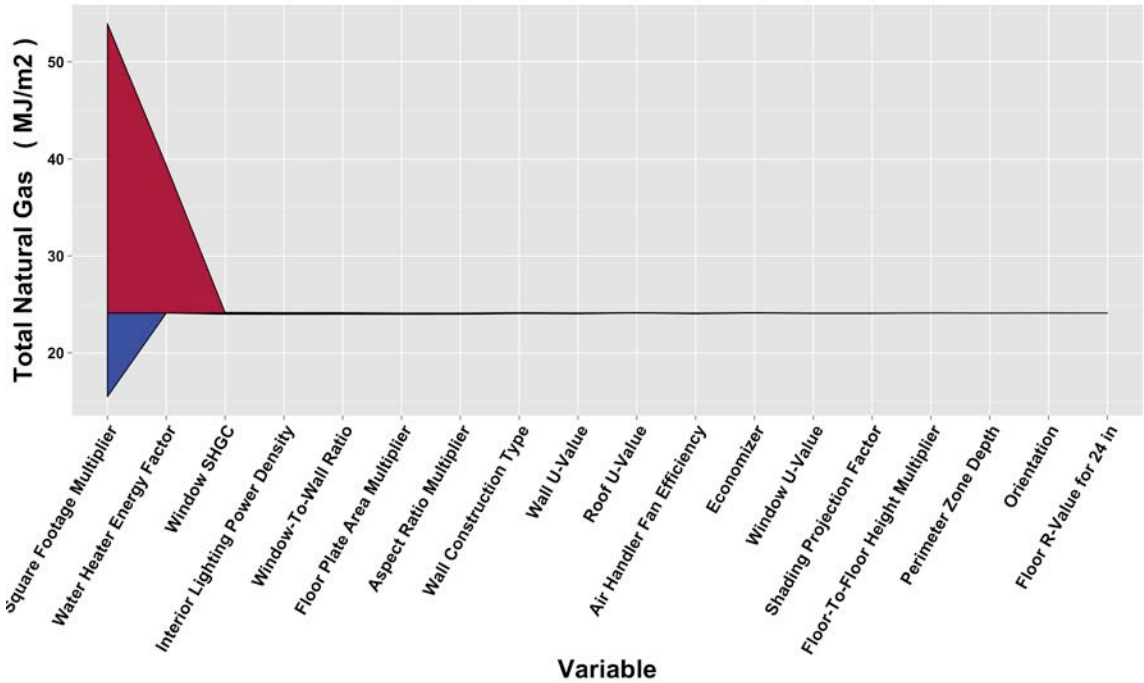
District Chiller Cooling Efficiency	0.52	1.48	1661.31	1661.31
Air Handler Fan Efficiency	16.88	60.75	1617.84	2529.73
Air Source Heat Pump Cooling Efficiency	2	4.2	1513.43	1971.87
Air Source Heat Pump Heating Efficiency	2.25	3.95	1660.64	1662.48
Gas Heating Efficiency	0.87	1.13	1661.31	1661.31
Terminal DX Cooling Efficiency	0.68	1.32	1661.31	1661.31
Terminal Furnace Heating Efficiency	0.87	1.13	1661.31	1661.31
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1661.31	1661.31
Water Heater Energy Factor	1	99	1661.31	1677.84
Economizer	false	true	1661.31	1664.93
Fan Control	cav	false	1661.31	1661.31
Orientation	0	359	1661.19	1661.31



Total Electricity



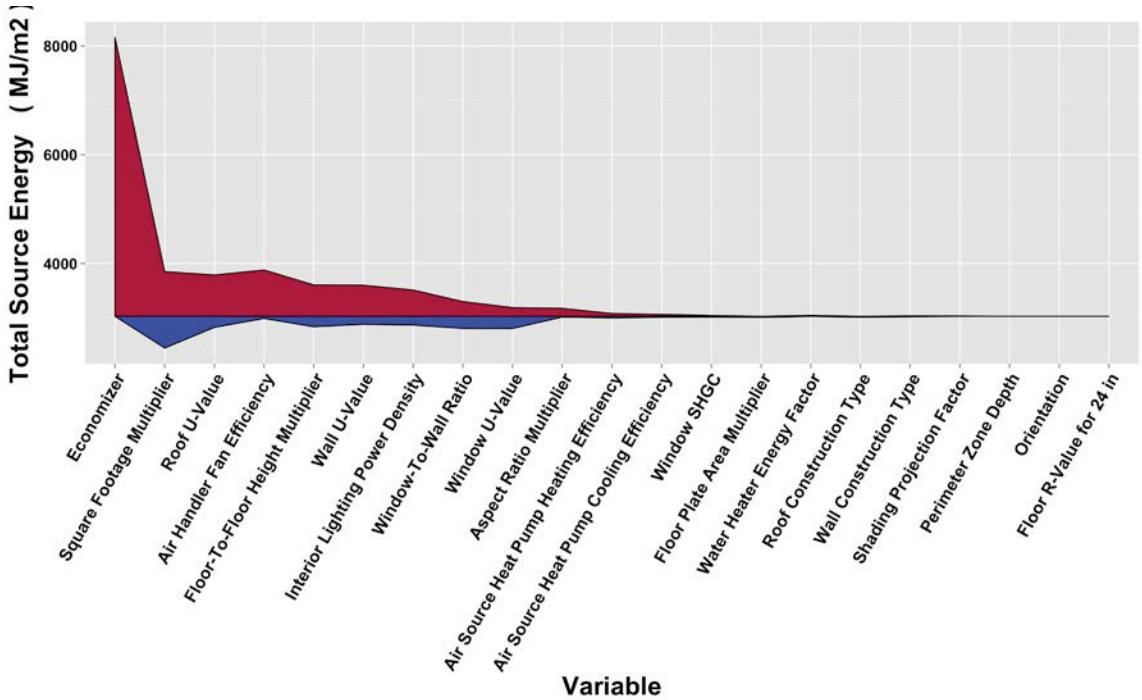
Total Natural Gas



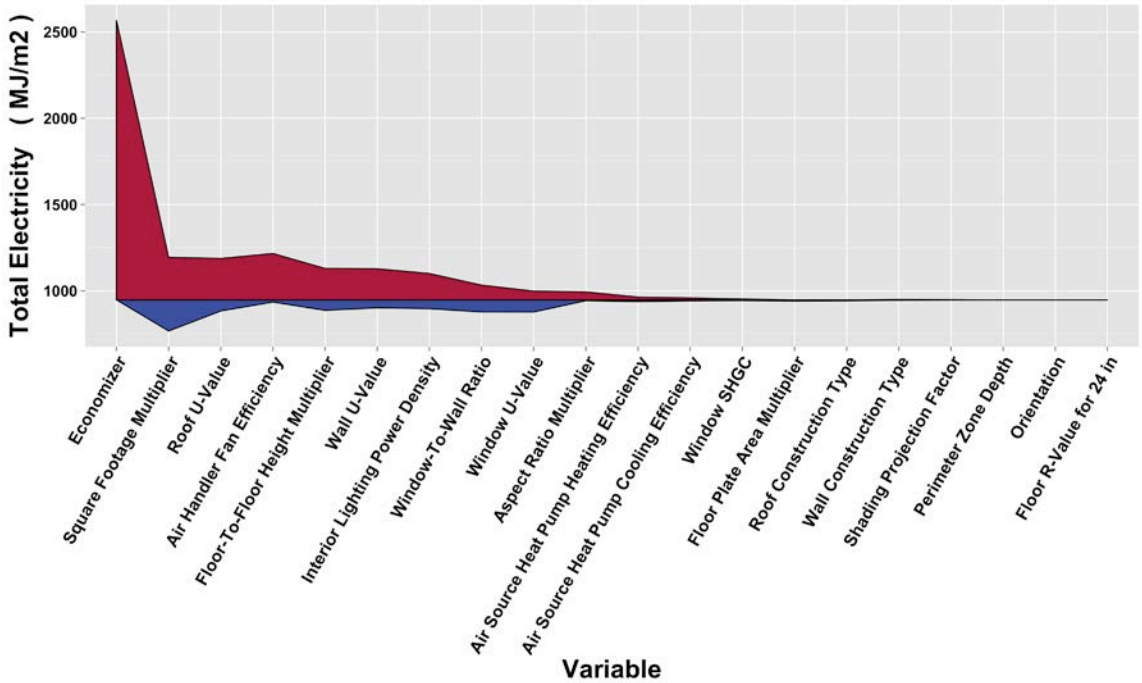
Location: Climate Zone 2A

Total Source Energy

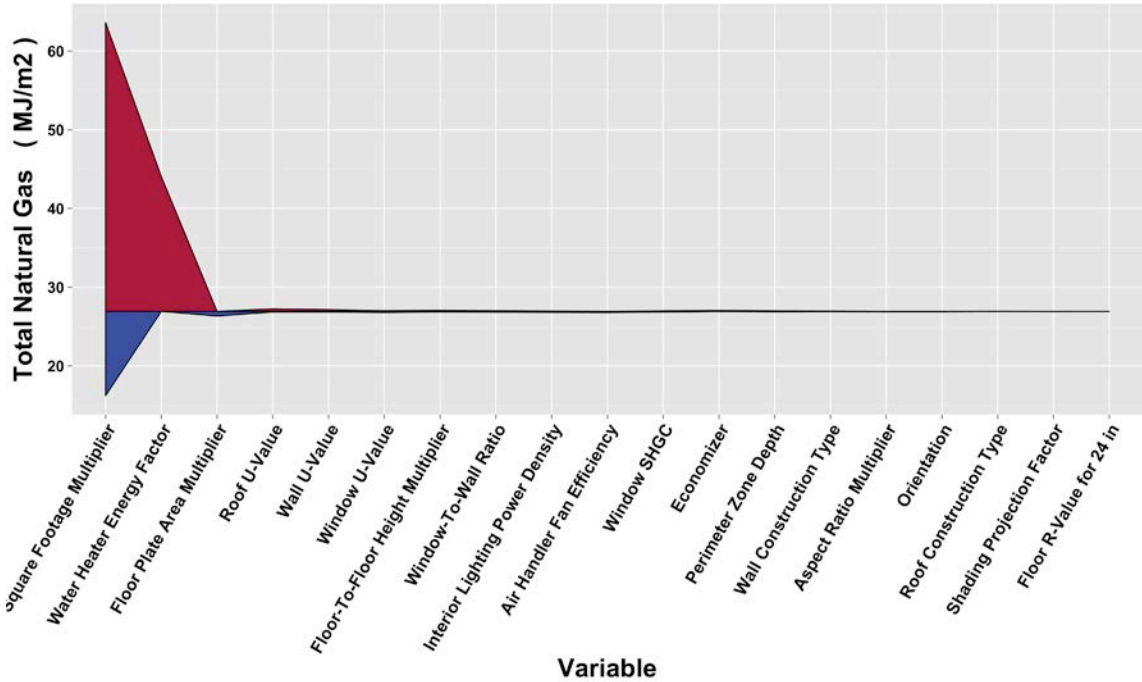
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	3014.74	3176.66
Floor Plate Area Multiplier	2746.7	5493.4	3009.23	3029.48
Square Footage Multiplier	1648.02	16480.2	2447.14	3852.20
Floor-To-Floor Height Multiplier	8	16	2837.67	3607.62
Perimeter Zone Depth	10	20	3029.01	3029.49
Floor R-Value for 24 in	0	0.01	3029.48	3029.48
Window-To-Wall Ratio	0	0.5	2807.96	3301.67
Window Sill Height	1	6	3029.48	3029.48
Window U-Value	0.12	1.22	2807.05	3191.04
Window SHGC	0.08	0.7	3016.22	3046.17
Window VLT	0.06	0.89	3029.48	3029.48
Wall Construction Type	masonry-on-masonry	wood-siding	3022.84	3038.18
Wall U-Value	0.03	0.58	2884.23	3601.80
Roof Construction Type	built-up concrete-deck	built-up wood-deck	3013.26	3029.48
Roof U-Value	0.01	0.2	2826.03	3790.07
Daylighting Control Setpoint	0	0	3029.48	3029.48
Interior Lighting Power Density	0.29	2.86	2868.77	3514.13
Shading Projection Factor	0	1	3029.48	3035.37
District Chiller Cooling Efficiency	0.52	1.48	3029.48	3029.48
Air Handler Fan Efficiency	16.88	60.75	2990.12	3882.15
Air Source Heat Pump Cooling Efficiency	2	4.2	3012.13	3065.92
Air Source Heat Pump Heating Efficiency	2.25	3.95	2999.48	3081.99
Gas Heating Efficiency	0.87	1.13	3029.48	3029.48
Terminal DX Cooling Efficiency	0.68	1.32	3029.48	3029.48
Terminal Furnace Heating Efficiency	0.87	1.13	3029.48	3029.48
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	3029.48	3029.48
Water Heater Energy Factor	1	99	3029.48	3048.04
Economizer	false	true	3029.48	8156.15
Fan Control	cav	false	3029.48	3029.48
Orientation	0	359	3029.48	3029.79



Total Electricity



Total Natural Gas

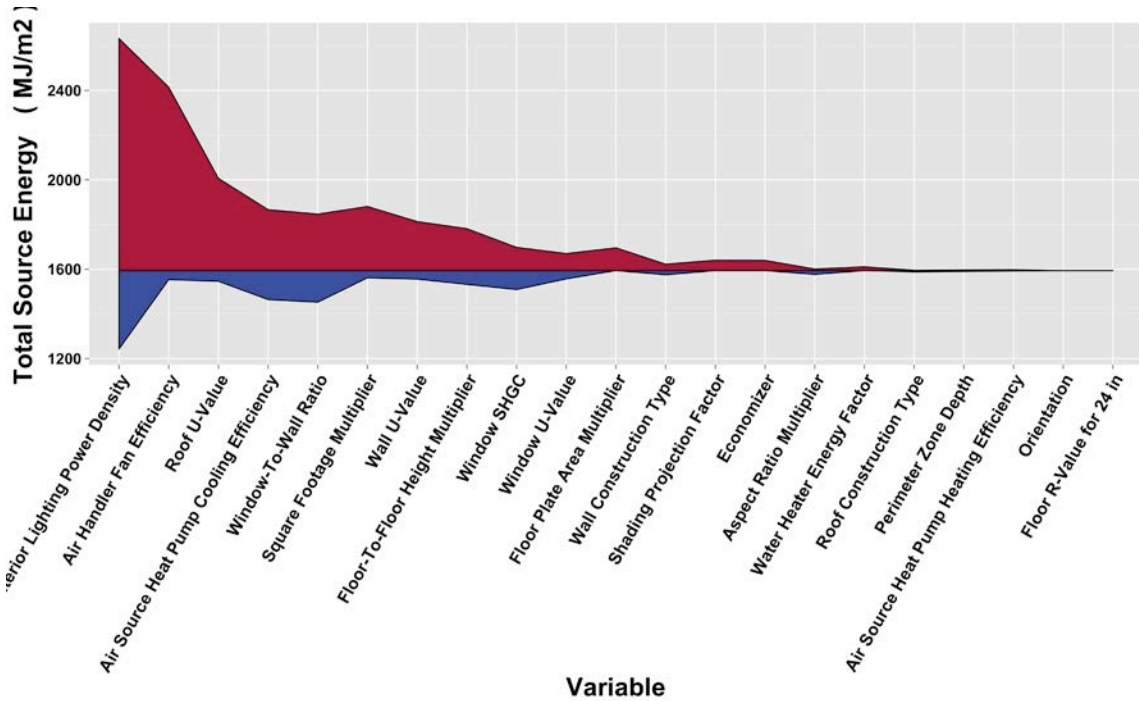


Location: Climate Zone 2B

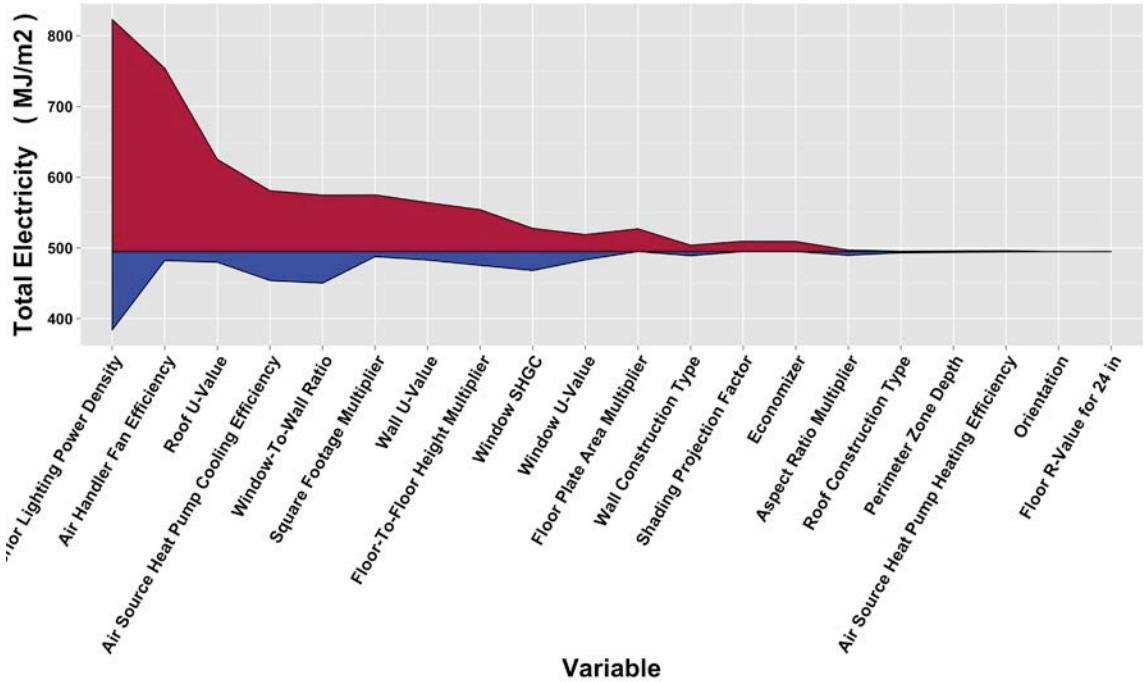
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1576.51	1600.45
Floor Plate Area Multiplier	2746.7	5493.4	1593.69	1695.48
Square Footage Multiplier	1648.02	16480.2	1561.41	1880.52
Floor-To-Floor Height Multiplier	8	16	1531.88	1781.24
Perimeter Zone Depth	10	20	1589.96	1596.45
Floor R-Value for 24 in	0	0.01	1593.69	1593.69
Window-To-Wall Ratio	0	0.5	1452.05	1846.46
Window Sill Height	1	6	1593.69	1593.69
Window U-Value	0.12	1.22	1556.43	1669.75
Window SHGC	0.08	0.7	1508.70	1697.56
Window VLT	0.06	0.89	1593.69	1593.69
Wall Construction Type	masonry-on-masonry	wood-siding	1574.79	1622.27
Wall U-Value	0.03	0.58	1555.40	1813.05
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1588.20	1595.03
Roof U-Value	0.01	0.2	1545.83	2006.75
Daylighting Control Setpoint	0	0	1593.69	1593.69
Interior Lighting Power Density	0.29	2.86	1242.37	2632.73
Shading Projection Factor	0	1	1593.69	1639.93

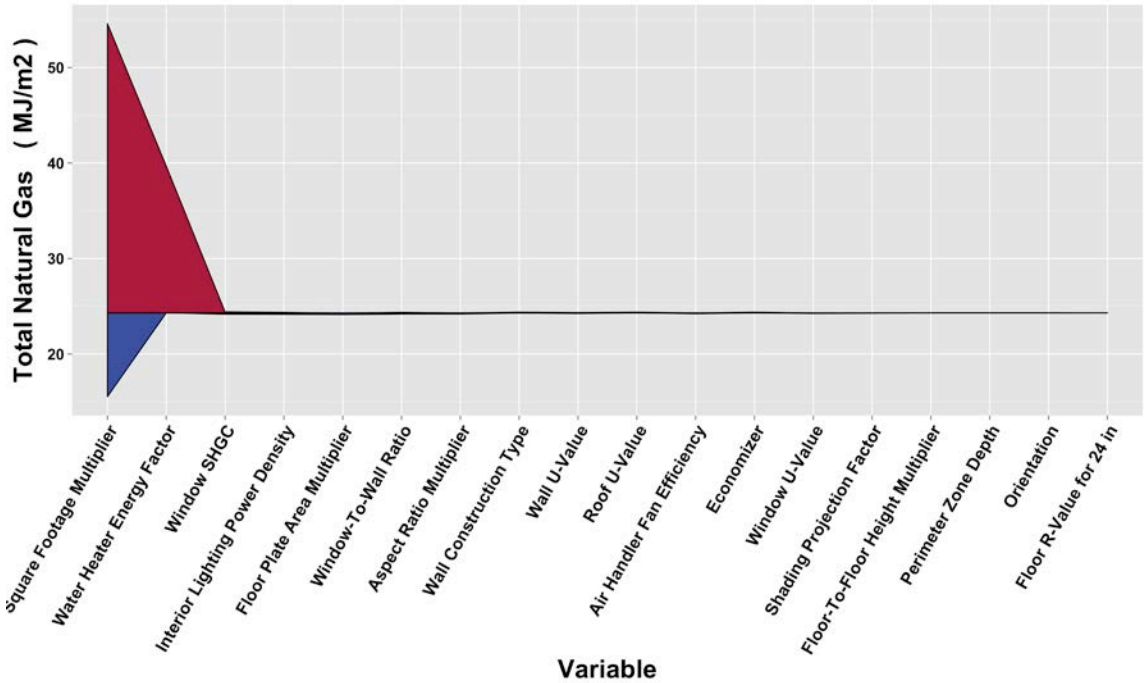
District Chiller Cooling Efficiency	0.52	1.48	1593.69	1593.69
Air Handler Fan Efficiency	16.88	60.75	1553.18	2414.59
Air Source Heat Pump Cooling Efficiency	2	4.2	1463.93	1866.18
Air Source Heat Pump Heating Efficiency	2.25	3.95	1591.55	1597.44
Gas Heating Efficiency	0.87	1.13	1593.69	1593.69
Terminal DX Cooling Efficiency	0.68	1.32	1593.69	1593.69
Terminal Furnace Heating Efficiency	0.87	1.13	1593.69	1593.69
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1593.69	1593.69
Water Heater Energy Factor	1	99	1593.69	1610.36
Economizer	false	true	1593.69	1639.12
Fan Control	cav	false	1593.69	1593.69
Orientation	0	359	1593.60	1593.69



Total Electricity



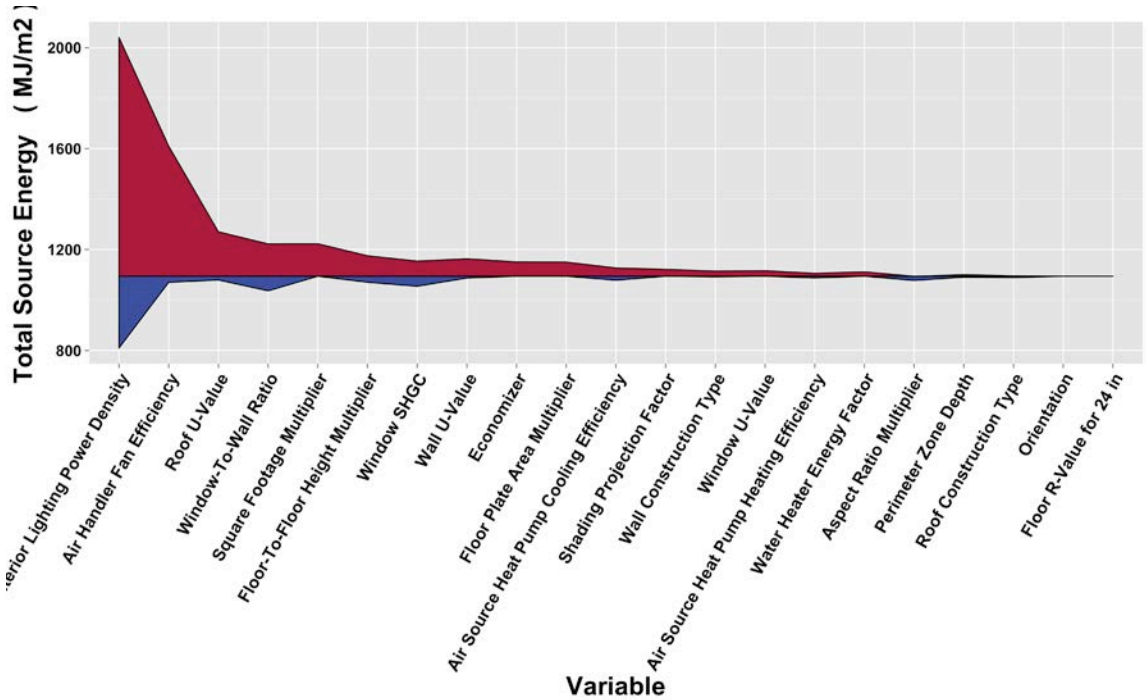
Total Natural Gas



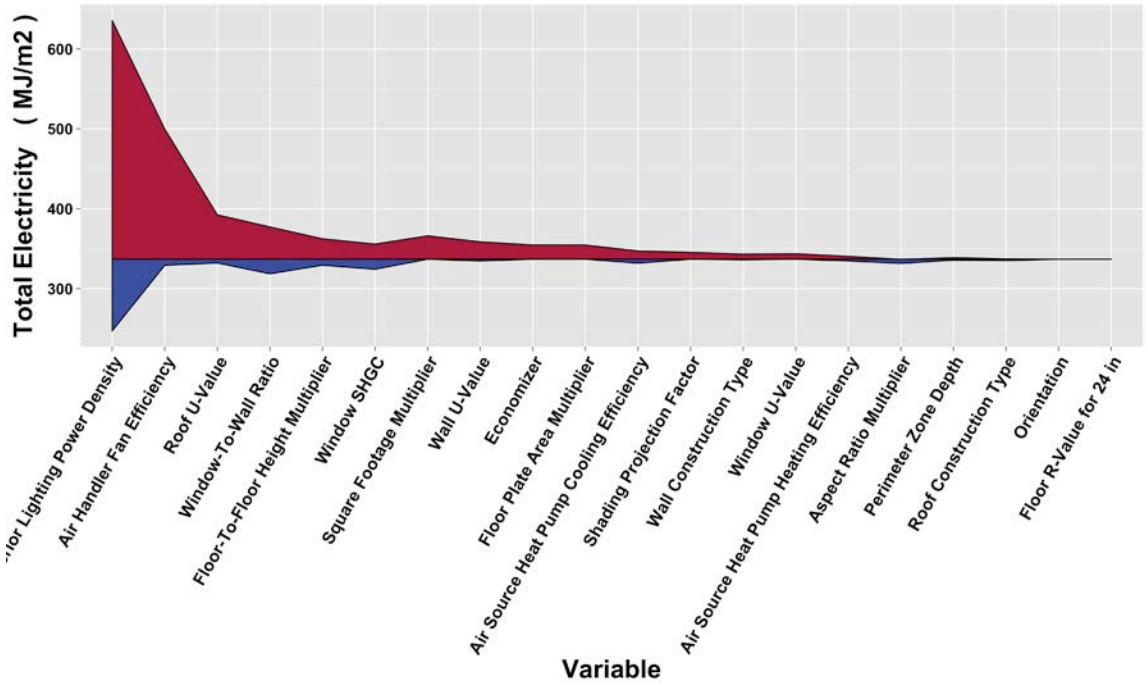
Location: Climate Zone 3A

Total Source Energy

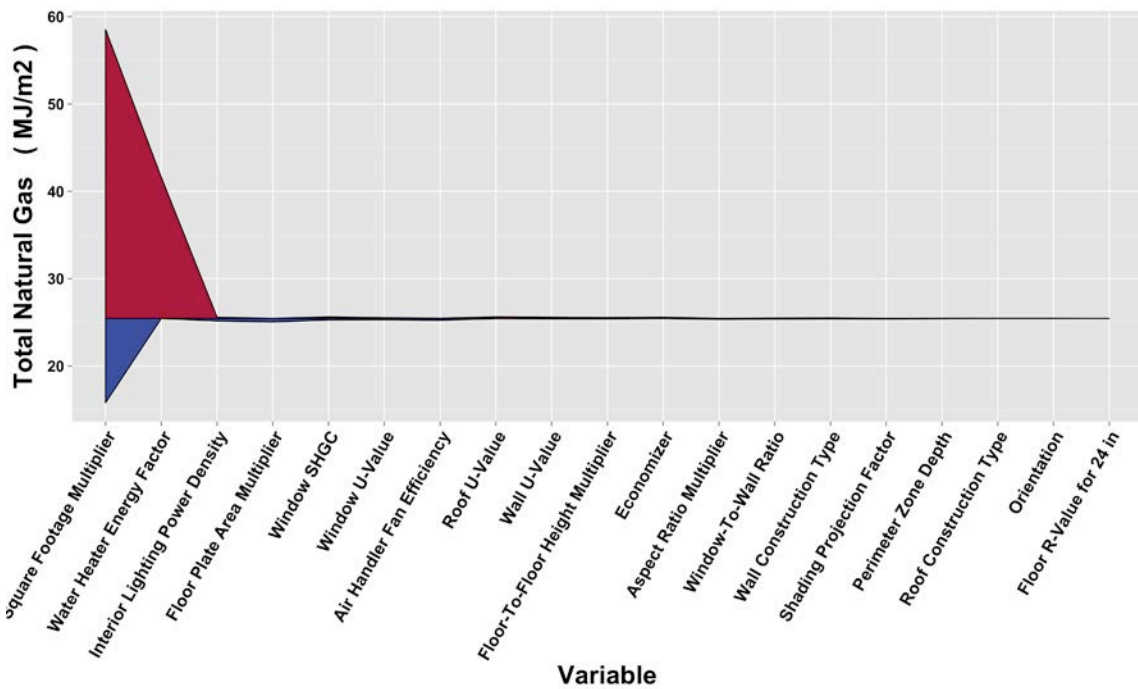
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1077.51	1094.12
Floor Plate Area Multiplier	2746.7	5493.4	1094.12	1150.16
Square Footage Multiplier	1648.02	16480.2	1094.12	1223.12
Floor-To-Floor Height Multiplier	8	16	1070.40	1175.46
Perimeter Zone Depth	10	20	1090.64	1100.42
Floor R-Value for 24 in	0	0.01	1094.12	1094.12
Window-To-Wall Ratio	0	0.5	1036.36	1222.40
Window Sill Height	1	6	1094.12	1094.12
Window U-Value	0.12	1.22	1094.12	1116.10
Window SHGC	0.08	0.7	1054.48	1154.18
Window VLT	0.06	0.89	1094.12	1094.12
Wall Construction Type	masonry-on-masonry	wood-siding	1091.72	1114.36
Wall U-Value	0.03	0.58	1087.05	1163.49
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1089.00	1095.93
Roof U-Value	0.01	0.2	1079.27	1270.56
Daylighting Control Setpoint	0	0	1094.12	1094.12
Interior Lighting Power Density	0.29	2.86	809.77	2040.37
Shading Projection Factor	0	1	1094.12	1121.65
District Chiller Cooling Efficiency	0.52	1.48	1094.12	1094.12
Air Handler Fan Efficiency	16.88	60.75	1070.03	1610.12
Air Source Heat Pump Cooling Efficiency	2	4.2	1078.43	1127.07
Air Source Heat Pump Heating Efficiency	2.25	3.95	1087.40	1105.88
Gas Heating Efficiency	0.87	1.13	1094.12	1094.12
Terminal DX Cooling Efficiency	0.68	1.32	1094.12	1094.12
Terminal Furnace Heating Efficiency	0.87	1.13	1094.12	1094.12
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1094.12	1094.12
Water Heater Energy Factor	1	99	1094.12	1111.62
Economizer	false	true	1094.12	1151.01
Fan Control	cav	false	1094.12	1094.12
Orientation	0	359	1093.99	1094.21



Total Electricity



Total Natural Gas

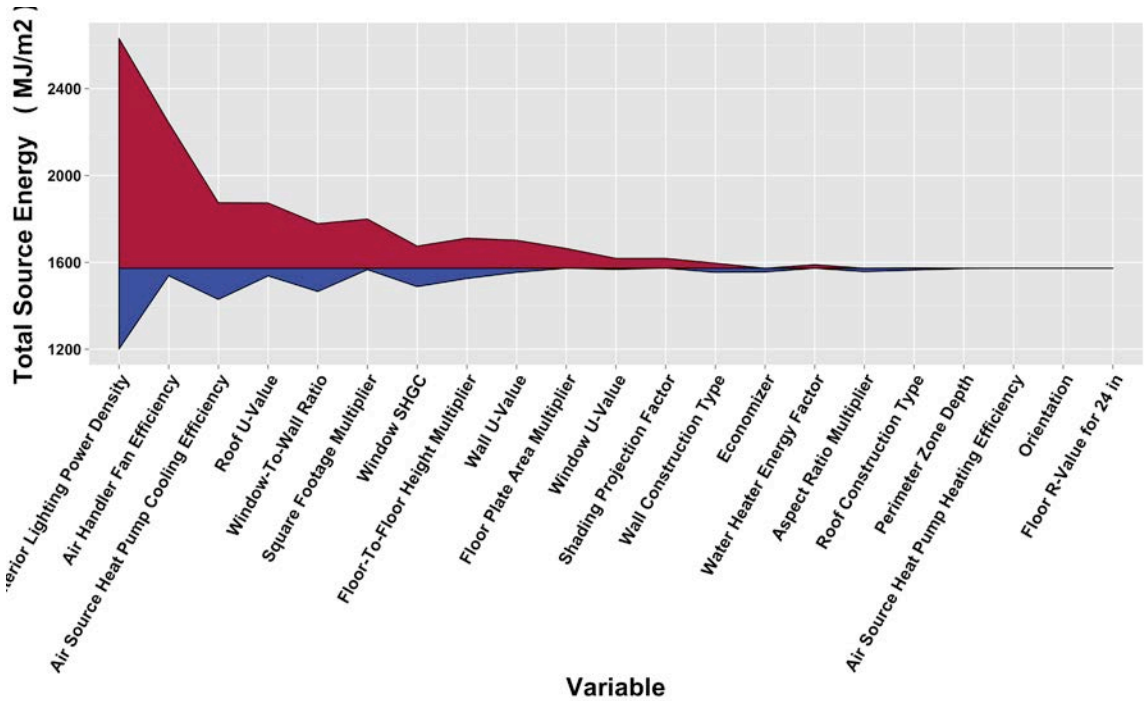


Location: Climate Zone 3B

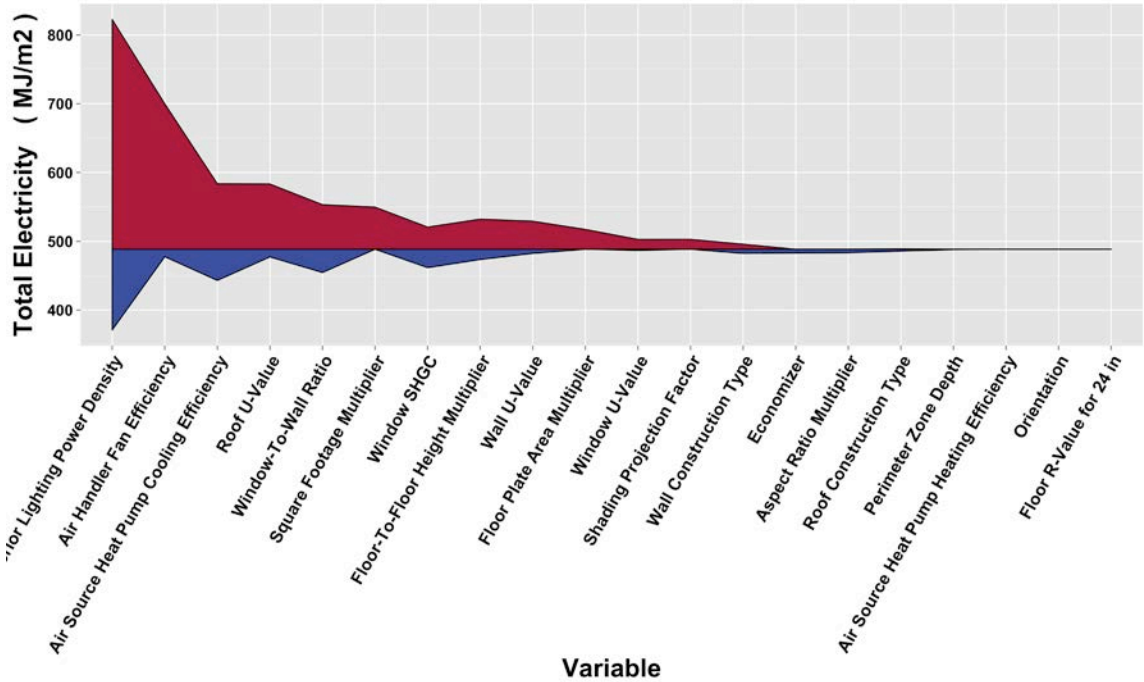
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1557.25	1572.98
Floor Plate Area Multiplier	2746.7	5493.4	1572.98	1664.25
Square Footage Multiplier	1648.02	16480.2	1566.42	1799.60
Floor-To-Floor Height Multiplier	8	16	1525.78	1711.76
Perimeter Zone Depth	10	20	1571.50	1573.03
Floor R-Value for 24 in	0	0.01	1572.98	1572.98
Window-To-Wall Ratio	0	0.5	1465.85	1778.26
Window Sill Height	1	6	1572.98	1572.98
Window U-Value	0.12	1.22	1567.91	1618.33
Window SHGC	0.08	0.7	1488.33	1674.94
Window VLT	0.06	0.89	1572.98	1572.98
Wall Construction Type	masonry-on-masonry	wood-siding	1554.02	1596.22
Wall U-Value	0.03	0.58	1554.05	1701.98
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1564.62	1575.29
Roof U-Value	0.01	0.2	1537.56	1873.42
Daylighting Control Setpoint	0	0	1572.98	1572.98
Interior Lighting Power Density	0.29	2.86	1201.12	2630.88
Shading Projection Factor	0	1	1572.98	1618.45

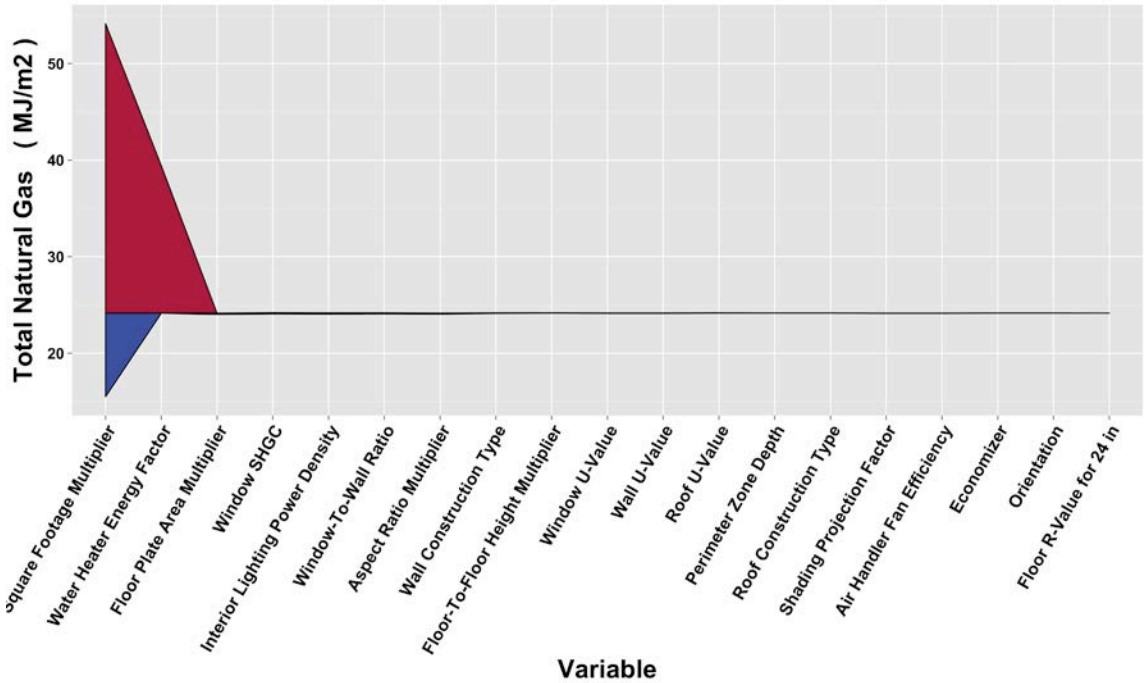
District Chiller Cooling Efficiency	0.52	1.48	1572.98	1572.98
Air Handler Fan Efficiency	16.88	60.75	1538.60	2242.72
Air Source Heat Pump Cooling Efficiency	2	4.2	1429.35	1874.58
Air Source Heat Pump Heating Efficiency	2.25	3.95	1572.90	1573.12
Gas Heating Efficiency	0.87	1.13	1572.98	1572.98
Terminal DX Cooling Efficiency	0.68	1.32	1572.98	1572.98
Terminal Furnace Heating Efficiency	0.87	1.13	1572.98	1572.98
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1572.98	1572.98
Water Heater Energy Factor	1	99	1572.98	1589.53
Economizer	false	true	1556.00	1572.98
Fan Control	cav	false	1572.98	1572.98
Orientation	0	359	1572.82	1572.98



Total Electricity



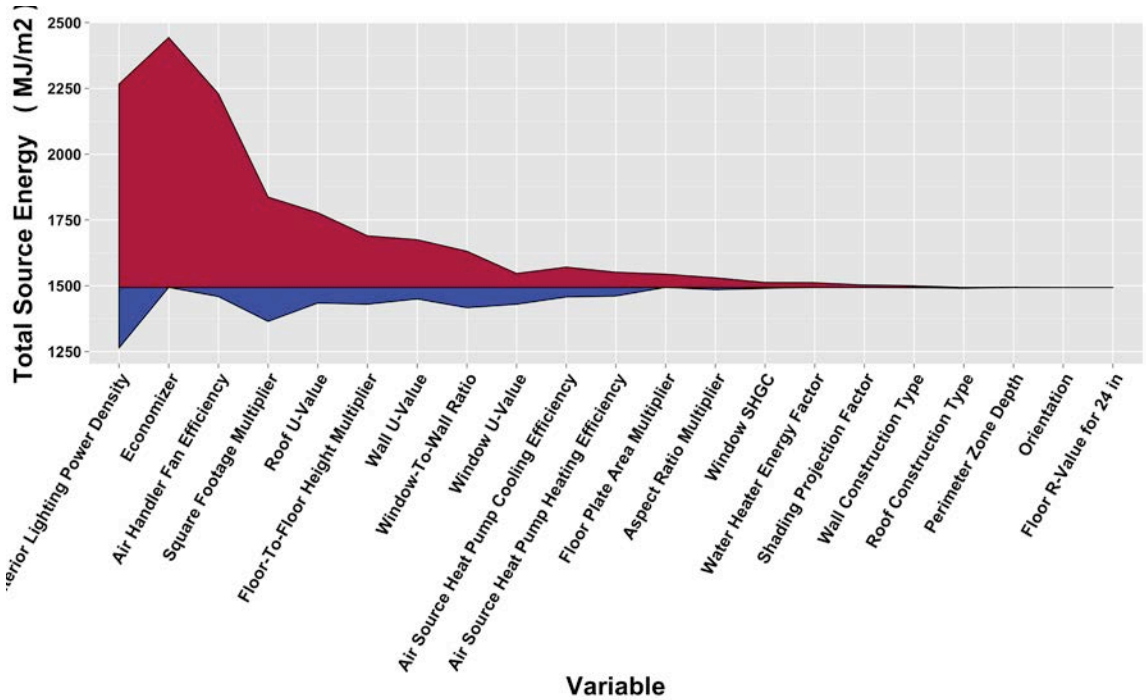
Total Natural Gas



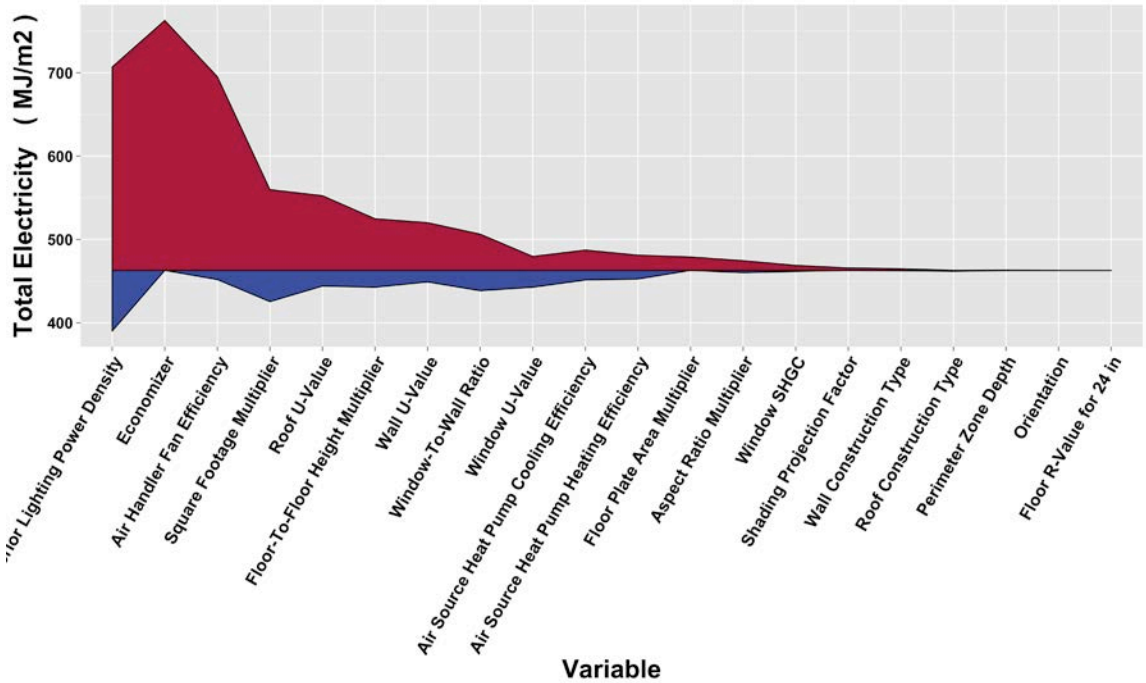
Location: Climate Zone 3C

Total Source Energy

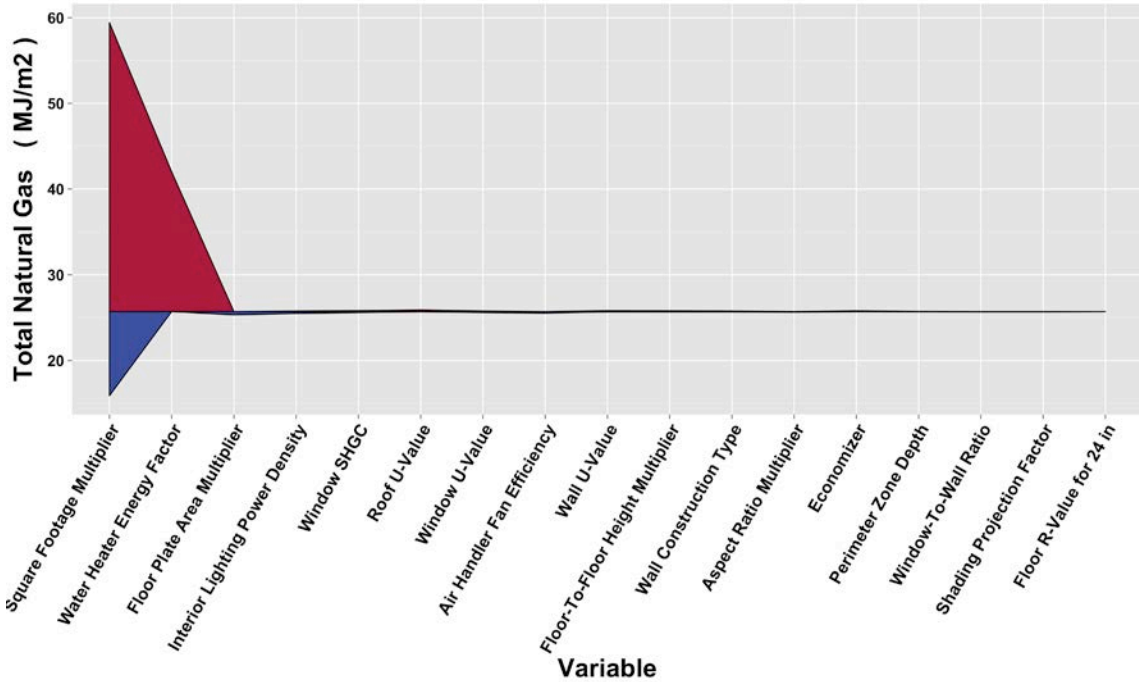
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1485.12	1530.26
Floor Plate Area Multiplier	2746.7	5493.4	1493.84	1544.07
Square Footage Multiplier	1648.02	16480.2	1364.35	1837.10
Floor-To-Floor Height Multiplier	8	16	1429.80	1689.78
Perimeter Zone Depth	10	20	1493.44	1494.84
Floor R-Value for 24 in	0	0.01	1493.84	1493.84
Window-To-Wall Ratio	0	0.5	1416.52	1631.19
Window Sill Height	1	6	1493.84	1493.84
Window U-Value	0.12	1.22	1429.68	1546.65
Window SHGC	0.08	0.7	1490.01	1512.47
Window VLT	0.06	0.89	1493.84	1493.84
Wall Construction Type	masonry-on-masonry	wood-siding	1492.44	1499.83
Wall U-Value	0.03	0.58	1449.90	1674.98
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1490.32	1493.84
Roof U-Value	0.01	0.2	1434.25	1777.65
Daylighting Control Setpoint	0	0	1493.84	1493.84
Interior Lighting Power Density	0.29	2.86	1263.28	2266.56
Shading Projection Factor	0	1	1493.84	1502.80
District Chiller Cooling Efficiency	0.52	1.48	1493.84	1493.84
Air Handler Fan Efficiency	16.88	60.75	1458.89	2229.59
Air Source Heat Pump Cooling Efficiency	2	4.2	1457.24	1570.71
Air Source Heat Pump Heating Efficiency	2.25	3.95	1460.99	1551.33
Gas Heating Efficiency	0.87	1.13	1493.84	1493.84
Terminal DX Cooling Efficiency	0.68	1.32	1493.84	1493.84
Terminal Furnace Heating Efficiency	0.87	1.13	1493.84	1493.84
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1493.84	1493.84
Water Heater Energy Factor	1	99	1493.84	1511.52
Economizer	false	true	1493.84	2443.57
Fan Control	cav	false	1493.84	1493.84
Orientation	0	359	1493.84	1494.06



Total Electricity



Total Natural Gas

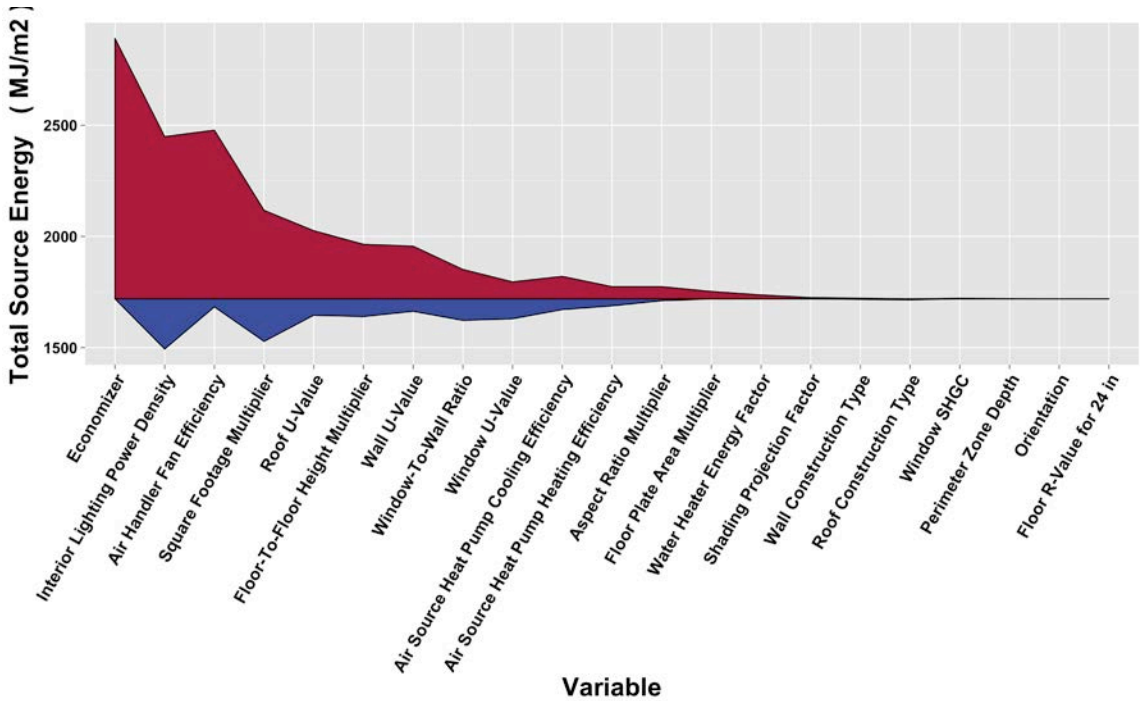


Location: Climate Zone 4A

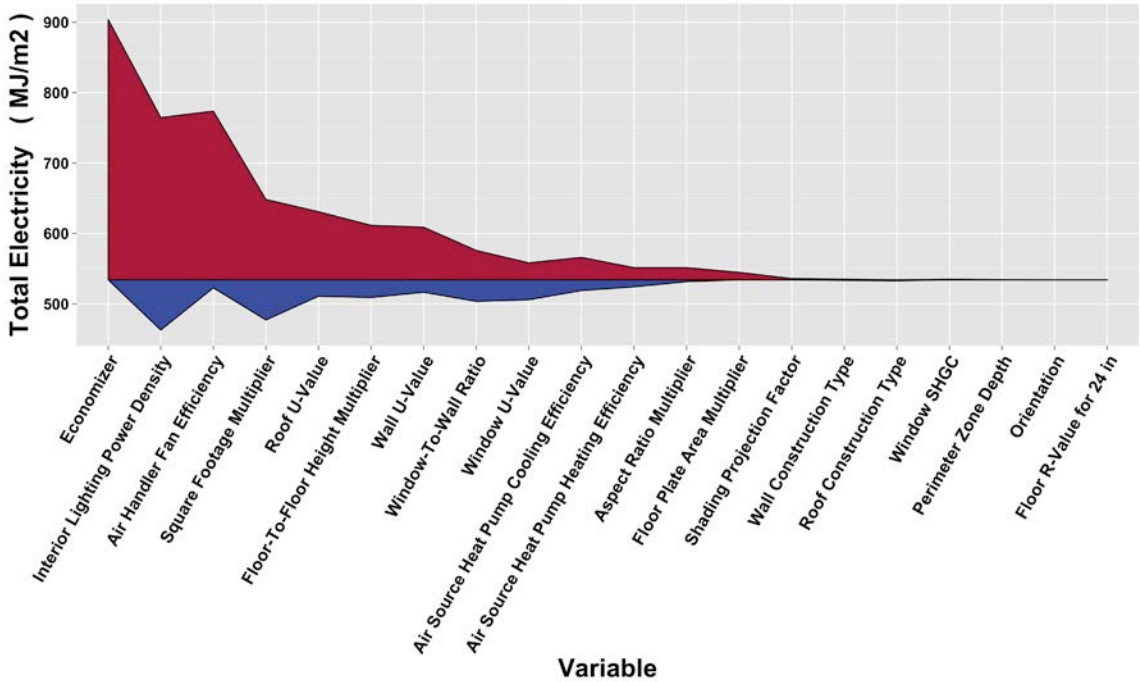
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1711.04	1774.07
Floor Plate Area Multiplier	2746.7	5493.4	1719.26	1752.52
Square Footage Multiplier	1648.02	16480.2	1528.03	2117.57
Floor-To-Floor Height Multiplier	8	16	1639.74	1964.59
Perimeter Zone Depth	10	20	1719.09	1720.62
Floor R-Value for 24 in	0	0.01	1719.26	1719.26
Window-To-Wall Ratio	0	0.5	1622.46	1851.64
Window Sill Height	1	6	1719.26	1719.26
Window U-Value	0.12	1.22	1629.85	1795.74
Window SHGC	0.08	0.7	1719.26	1721.96
Window VLT	0.06	0.89	1719.26	1719.26
Wall Construction Type	masonry-on-masonry	wood-siding	1716.79	1722.15
Wall U-Value	0.03	0.58	1663.50	1956.31
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1715.27	1719.26
Roof U-Value	0.01	0.2	1645.74	2025.79
Daylighting Control Setpoint	0	0	1719.26	1719.26
Interior Lighting Power Density	0.29	2.86	1493.66	2448.96
Shading Projection Factor	0	1	1719.26	1725.01

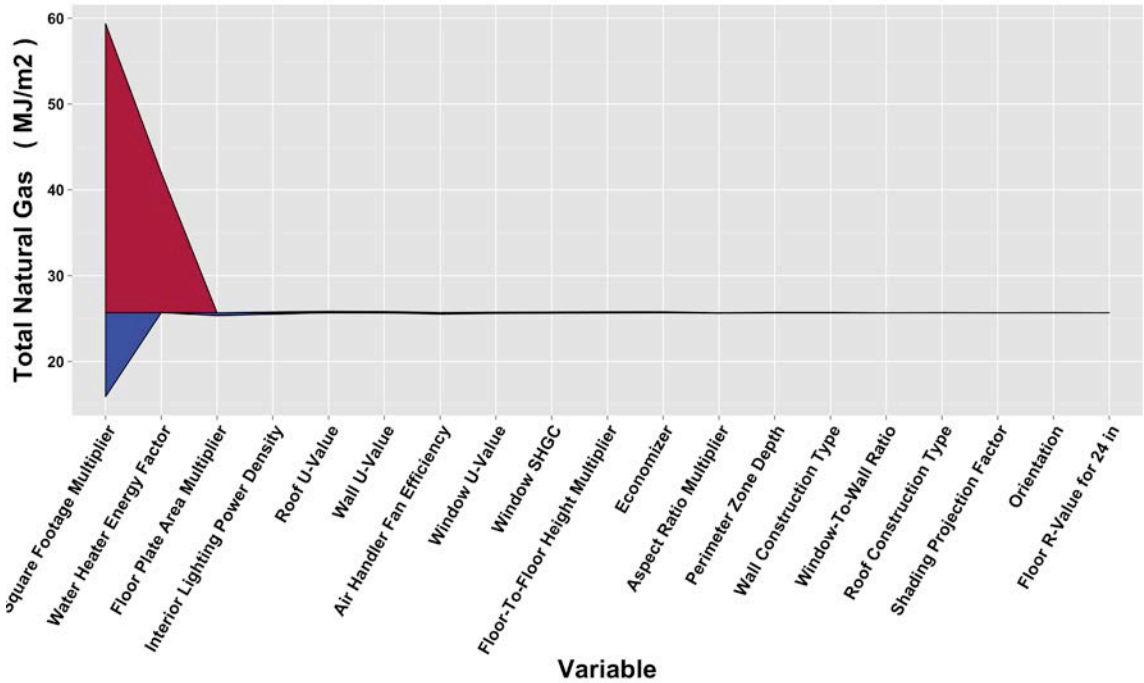
District Chiller Cooling Efficiency	0.52	1.48	1719.26	1719.26
Air Handler Fan Efficiency	16.88	60.75	1683.25	2477.99
Air Source Heat Pump Cooling Efficiency	2	4.2	1671.08	1820.44
Air Source Heat Pump Heating Efficiency	2.25	3.95	1687.91	1774.12
Gas Heating Efficiency	0.87	1.13	1719.26	1719.26
Terminal DX Cooling Efficiency	0.68	1.32	1719.26	1719.26
Terminal Furnace Heating Efficiency	0.87	1.13	1719.26	1719.26
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1719.26	1719.26
Water Heater Energy Factor	1	99	1719.26	1736.93
Economizer	false	true	1719.26	2890.39
Fan Control	cav	false	1719.26	1719.26
Orientation	0	359	1719.23	1719.26



Total Electricity



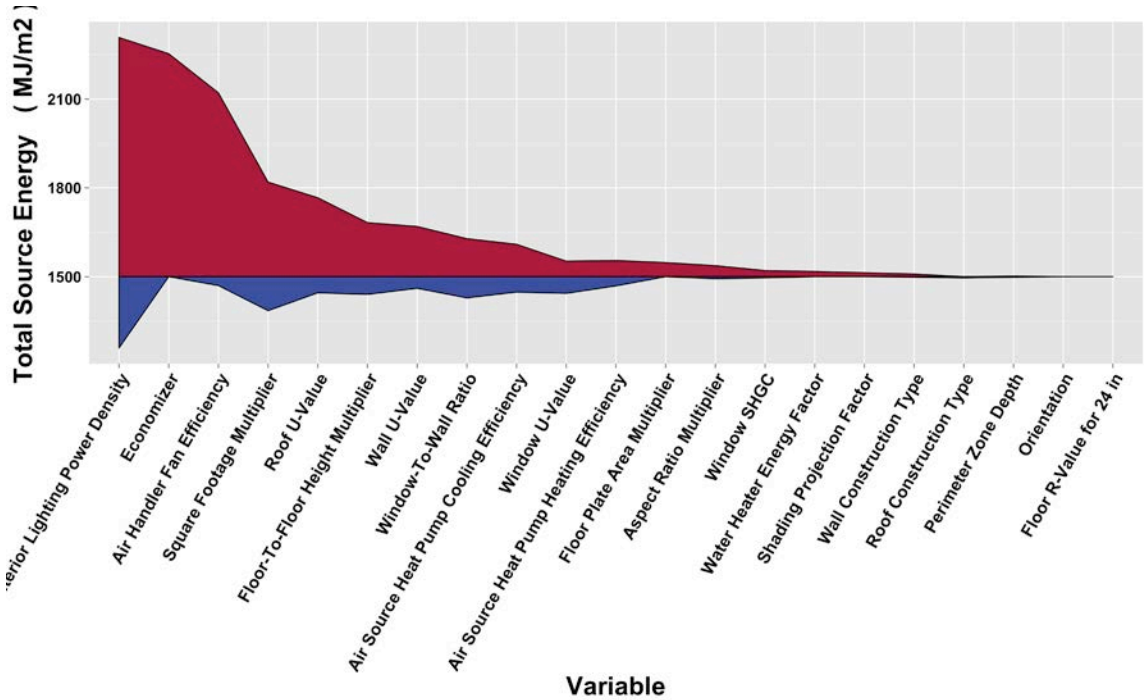
Total Natural Gas



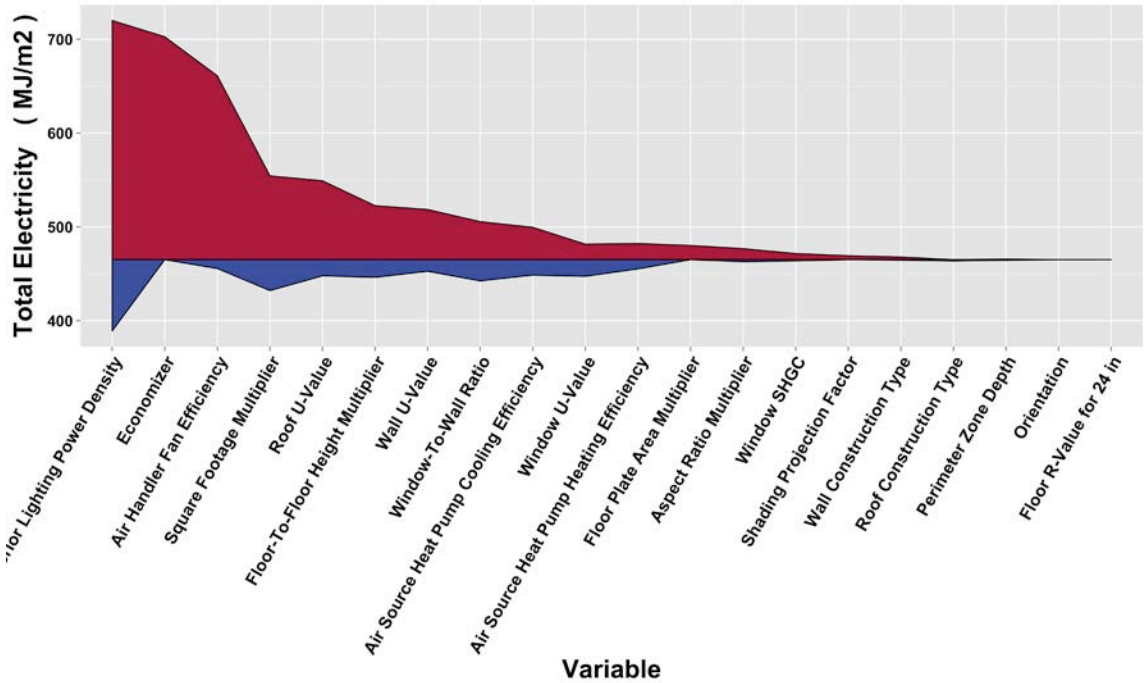
Location: Climate Zone 4B

Total Source Energy

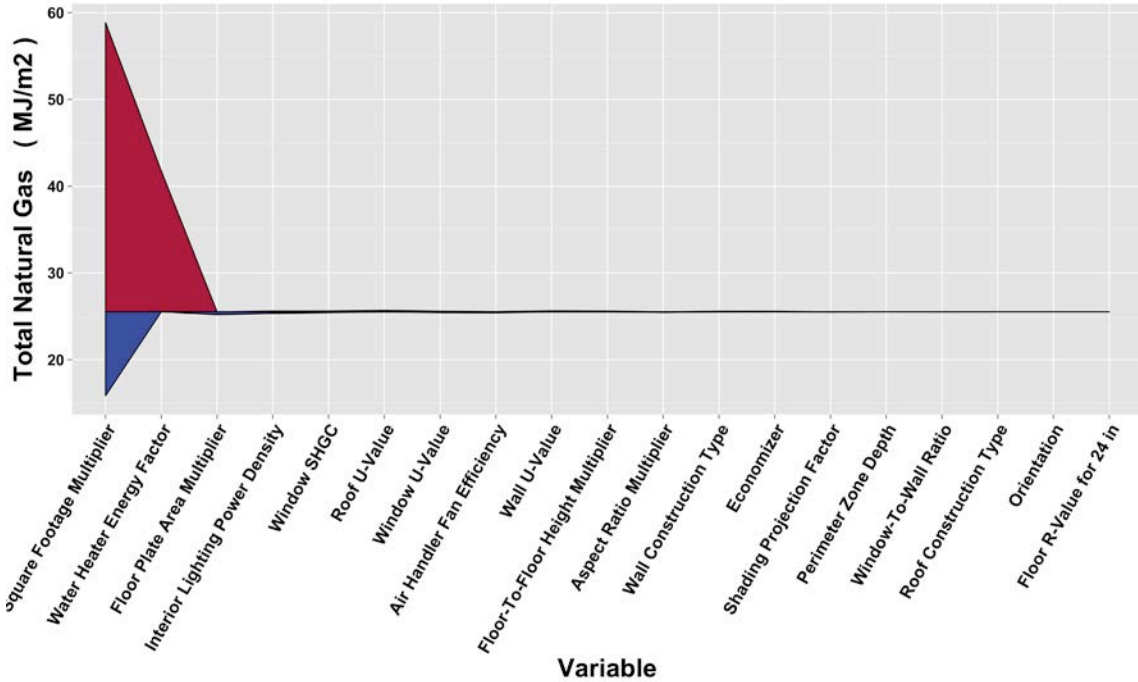
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1493.36	1537.53
Floor Plate Area Multiplier	2746.7	5493.4	1500.29	1547.79
Square Footage Multiplier	1648.02	16480.2	1385.37	1819.60
Floor-To-Floor Height Multiplier	8	16	1440.49	1682.72
Perimeter Zone Depth	10	20	1498.66	1502.04
Floor R-Value for 24 in	0	0.01	1500.29	1500.29
Window-To-Wall Ratio	0	0.5	1428.58	1628.65
Window Sill Height	1	6	1500.29	1500.29
Window U-Value	0.12	1.22	1443.93	1552.65
Window SHGC	0.08	0.7	1496.23	1520.93
Window VLT	0.06	0.89	1500.29	1500.29
Wall Construction Type	masonry-on-masonry	wood-siding	1498.88	1509.24
Wall U-Value	0.03	0.58	1461.01	1669.75
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1495.84	1500.29
Roof U-Value	0.01	0.2	1445.70	1766.85
Daylighting Control Setpoint	0	0	1500.29	1500.29
Interior Lighting Power Density	0.29	2.86	1259.41	2307.70
Shading Projection Factor	0	1	1500.29	1513.56
District Chiller Cooling Efficiency	0.52	1.48	1500.29	1500.29
Air Handler Fan Efficiency	16.88	60.75	1470.29	2121.05
Air Source Heat Pump Cooling Efficiency	2	4.2	1448.25	1609.59
Air Source Heat Pump Heating Efficiency	2.25	3.95	1469.11	1554.87
Gas Heating Efficiency	0.87	1.13	1500.29	1500.29
Terminal DX Cooling Efficiency	0.68	1.32	1500.29	1500.29
Terminal Furnace Heating Efficiency	0.87	1.13	1500.29	1500.29
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1500.29	1500.29
Water Heater Energy Factor	1	99	1500.29	1517.85
Economizer	false	true	1500.29	2253.06
Fan Control	cav	false	1500.29	1500.29
Orientation	0	359	1500.27	1500.29



Total Electricity



Total Natural Gas

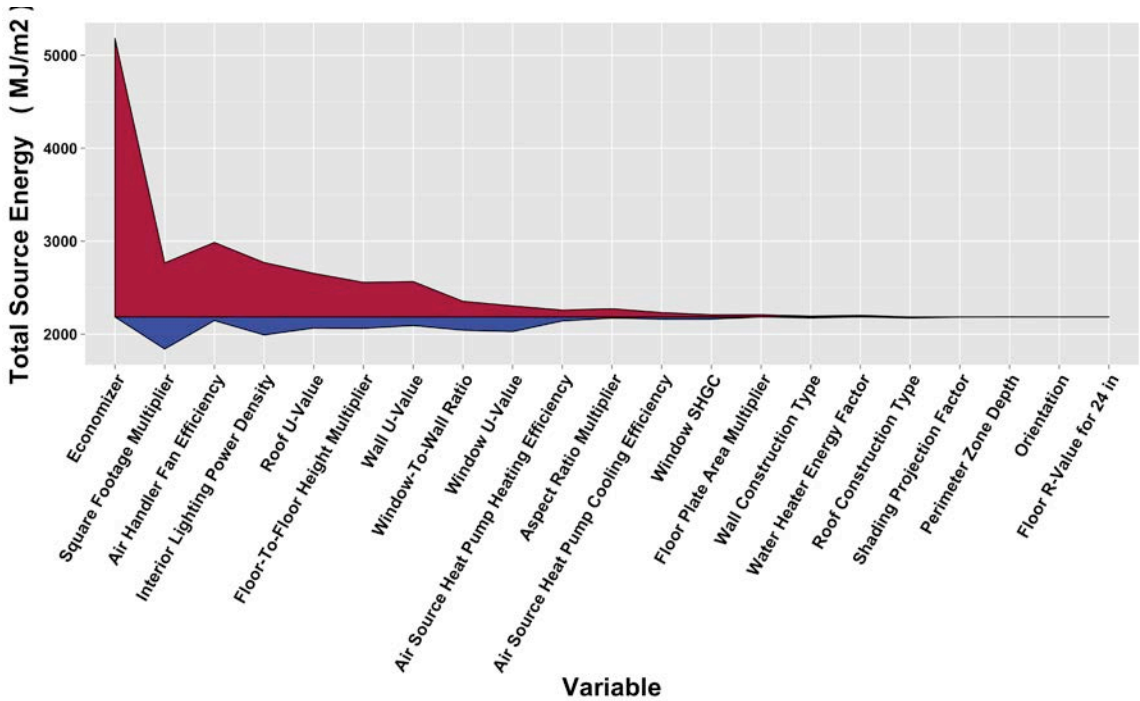


Location: Climate Zone 4C

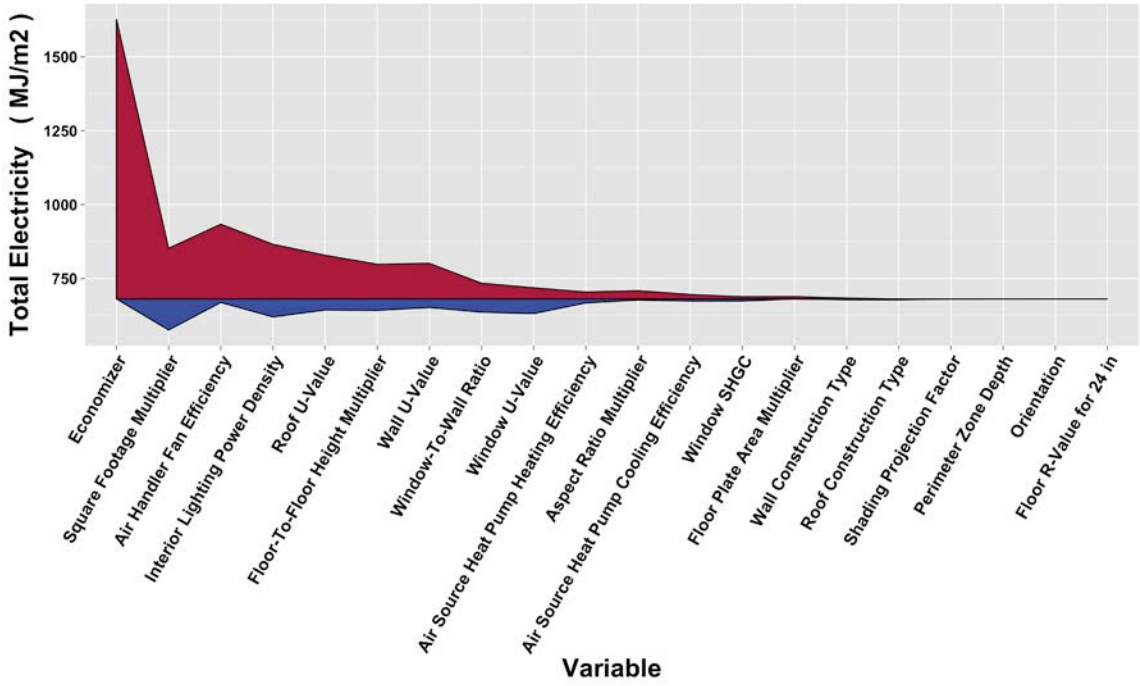
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	2173.51	2273.79
Floor Plate Area Multiplier	2746.7	5493.4	2184.71	2209.64
Square Footage Multiplier	1648.02	16480.2	1840.57	2766.44
Floor-To-Floor Height Multiplier	8	16	2062.45	2557.05
Perimeter Zone Depth	10	20	2184.71	2185.49
Floor R-Value for 24 in	0	0.01	2184.71	2184.71
Window-To-Wall Ratio	0	0.5	2043.06	2353.72
Window Sill Height	1	6	2184.71	2184.71
Window U-Value	0.12	1.22	2027.94	2304.73
Window SHGC	0.08	0.7	2162.11	2208.51
Window VLT	0.06	0.89	2184.71	2184.71
Wall Construction Type	masonry-on-masonry	wood-siding	2175.55	2194.09
Wall U-Value	0.03	0.58	2093.28	2566.45
Roof Construction Type	built-up concrete-deck	built-up wood-deck	2175.60	2184.71
Roof U-Value	0.01	0.2	2066.41	2654.12
Daylighting Control Setpoint	0	0	2184.71	2184.71
Interior Lighting Power Density	0.29	2.86	1991.94	2770.65
Shading Projection Factor	0	1	2182.78	2184.71

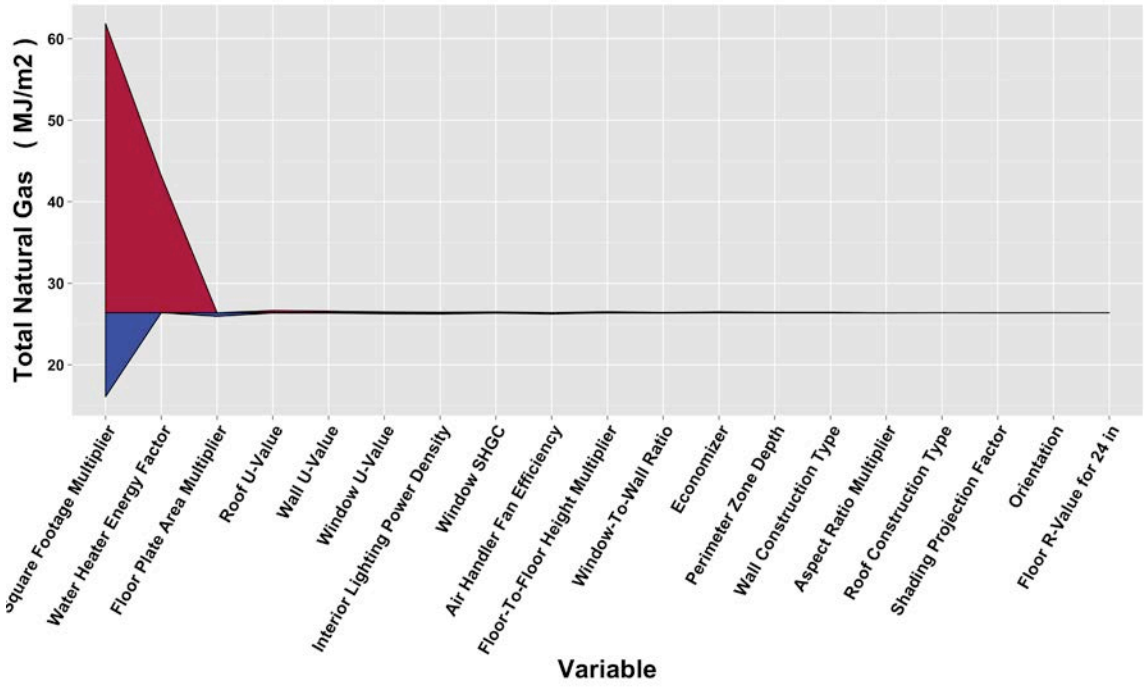
District Chiller Cooling Efficiency	0.52	1.48	2184.71	2184.71
Air Handler Fan Efficiency	16.88	60.75	2146.81	2986.57
Air Source Heat Pump Cooling Efficiency	2	4.2	2161.90	2232.60
Air Source Heat Pump Heating Efficiency	2.25	3.95	2142.27	2258.97
Gas Heating Efficiency	0.87	1.13	2184.71	2184.71
Terminal DX Cooling Efficiency	0.68	1.32	2184.71	2184.71
Terminal Furnace Heating Efficiency	0.87	1.13	2184.71	2184.71
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	2184.71	2184.71
Water Heater Energy Factor	1	99	2184.71	2202.89
Economizer	false	true	2184.71	5179.62
Fan Control	cav	false	2184.71	2184.71
Orientation	0	359	2184.67	2184.75



Total Electricity



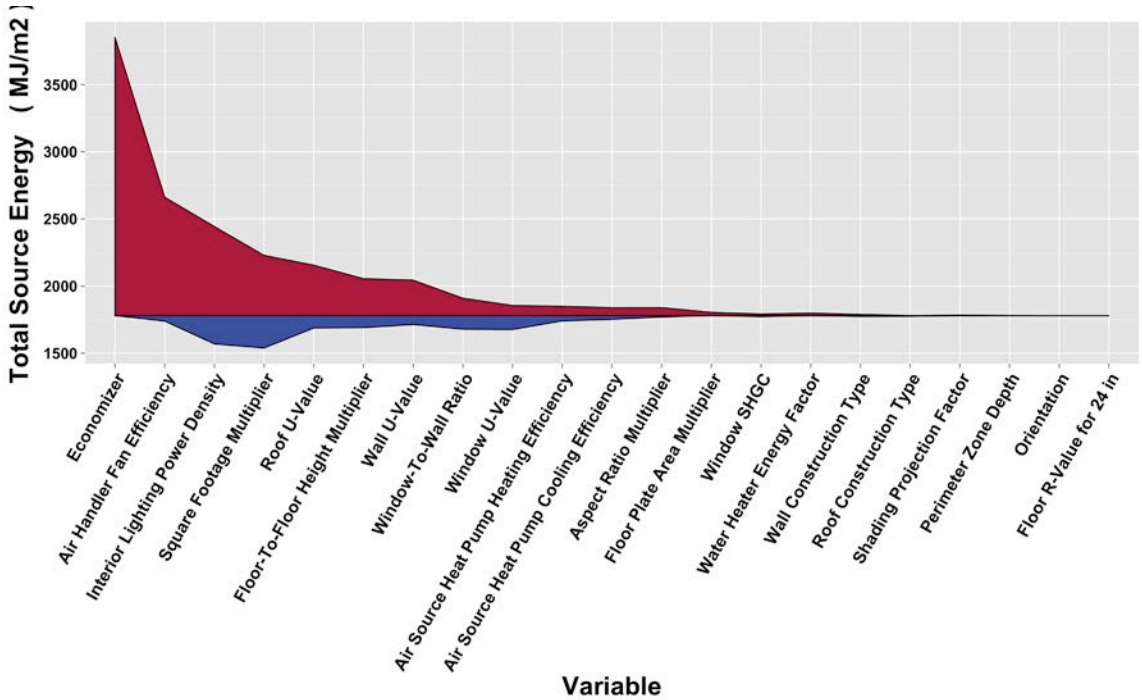
Total Natural Gas



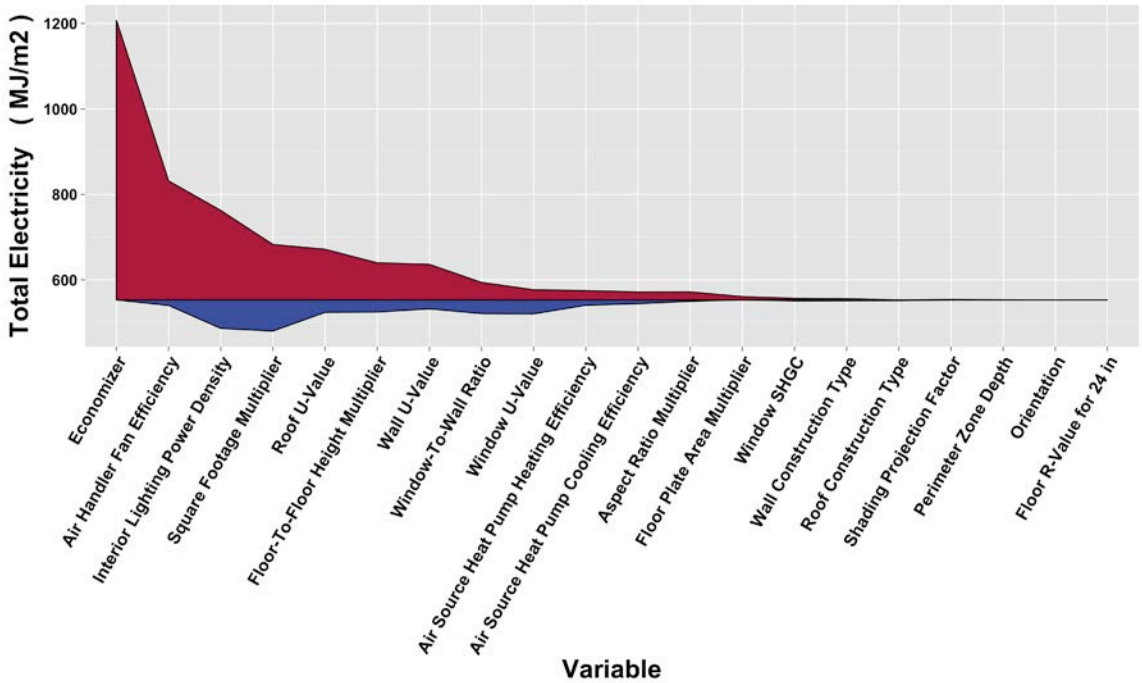
Location: Climate Zone 5A

Total Source Energy

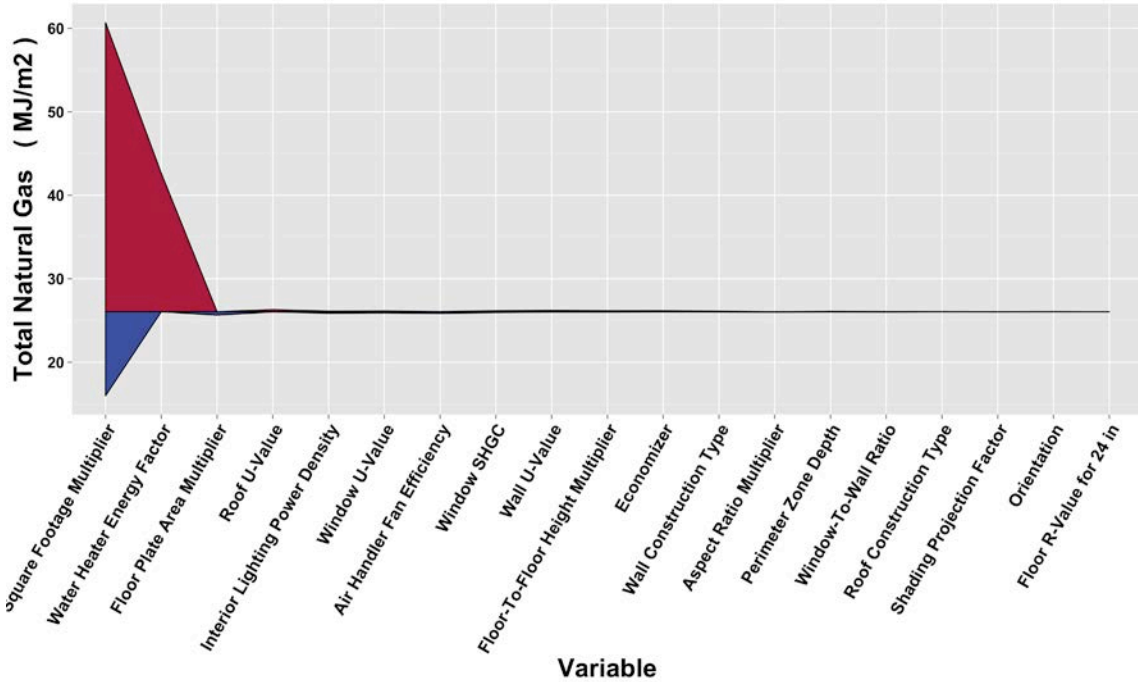
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1770.24	1839.63
Floor Plate Area Multiplier	2746.7	5493.4	1780.38	1804.35
Square Footage Multiplier	1648.02	16480.2	1538.81	2228.78
Floor-To-Floor Height Multiplier	8	16	1690.39	2055.25
Perimeter Zone Depth	10	20	1779.91	1781.81
Floor R-Value for 24 in	0	0.01	1780.38	1780.38
Window-To-Wall Ratio	0	0.5	1678.94	1910.11
Window Sill Height	1	6	1780.38	1780.38
Window U-Value	0.12	1.22	1676.84	1855.43
Window SHGC	0.08	0.7	1772.78	1792.02
Window VLT	0.06	0.89	1780.38	1780.38
Wall Construction Type	masonry-on-masonry	wood-siding	1773.84	1789.21
Wall U-Value	0.03	0.58	1714.33	2044.10
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1774.97	1780.38
Roof U-Value	0.01	0.2	1687.93	2155.74
Daylighting Control Setpoint	0	0	1780.38	1780.38
Interior Lighting Power Density	0.29	2.86	1569.41	2443.42
Shading Projection Factor	0	1	1780.38	1783.69
District Chiller Cooling Efficiency	0.52	1.48	1780.38	1780.38
Air Handler Fan Efficiency	16.88	60.75	1739.39	2662.37
Air Source Heat Pump Cooling Efficiency	2	4.2	1752.40	1839.15
Air Source Heat Pump Heating Efficiency	2.25	3.95	1740.93	1849.43
Gas Heating Efficiency	0.87	1.13	1780.38	1780.38
Terminal DX Cooling Efficiency	0.68	1.32	1780.38	1780.38
Terminal Furnace Heating Efficiency	0.87	1.13	1780.38	1780.38
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1780.38	1780.38
Water Heater Energy Factor	1	99	1780.38	1798.33
Economizer	false	true	1780.38	3851.08
Fan Control	cav	false	1780.38	1780.38
Orientation	0	359	1780.37	1780.54



Total Electricity



Total Natural Gas

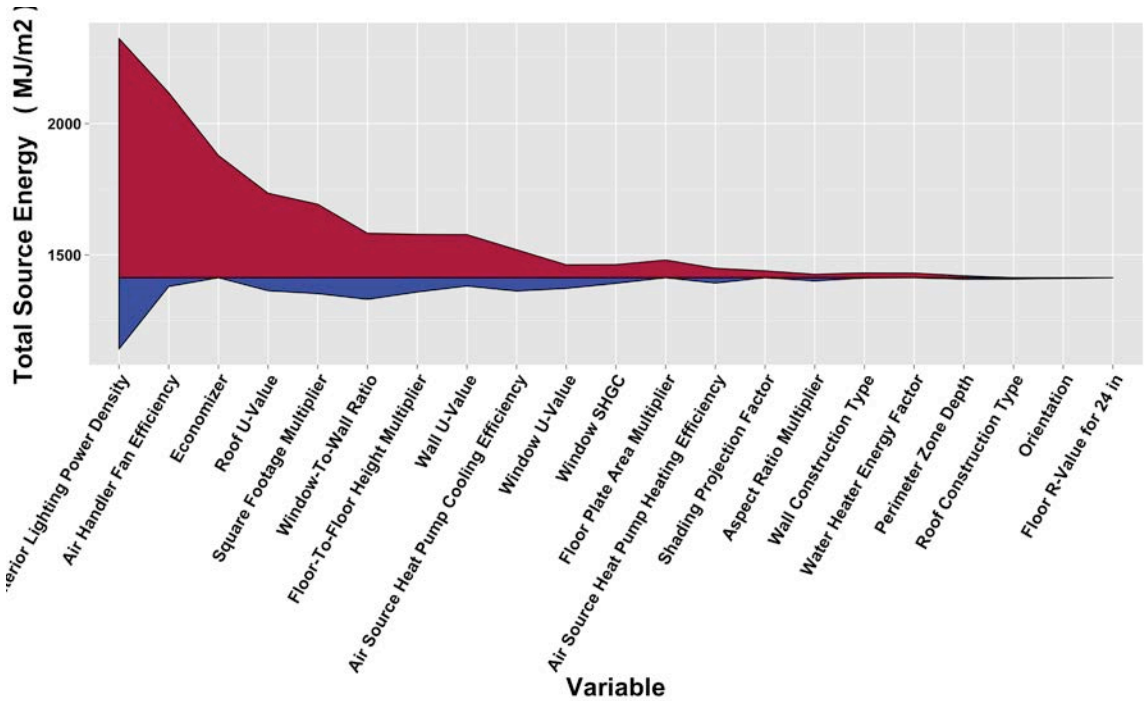


Location: Climate Zone 5B

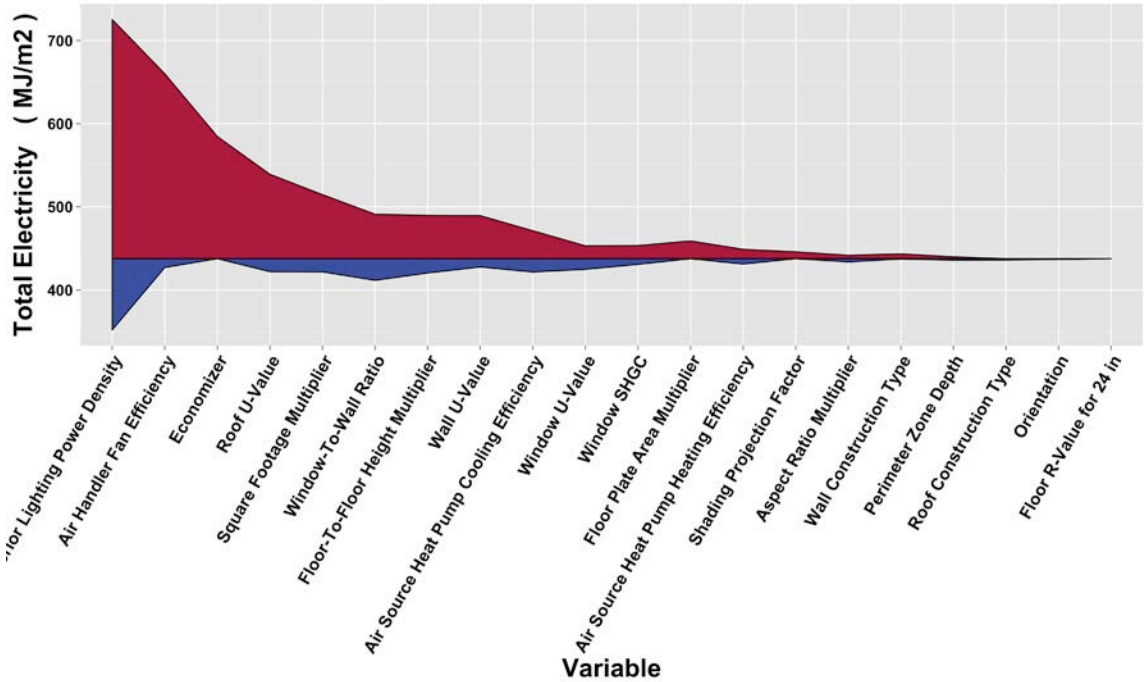
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1400.93	1426.23
Floor Plate Area Multiplier	2746.7	5493.4	1413.19	1480.59
Square Footage Multiplier	1648.02	16480.2	1352.56	1693.03
Floor-To-Floor Height Multiplier	8	16	1358.67	1578.45
Perimeter Zone Depth	10	20	1407.31	1420.43
Floor R-Value for 24 in	0	0.01	1413.19	1413.19
Window-To-Wall Ratio	0	0.5	1330.68	1582.60
Window Sill Height	1	6	1413.19	1413.19
Window U-Value	0.12	1.22	1372.49	1462.30
Window SHGC	0.08	0.7	1391.72	1463.01
Window VLT	0.06	0.89	1413.19	1413.19
Wall Construction Type	masonry-on-masonry	wood-siding	1411.94	1431.63
Wall U-Value	0.03	0.58	1381.49	1577.43
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1408.03	1413.19
Roof U-Value	0.01	0.2	1363.62	1735.10
Daylighting Control Setpoint	0	0	1413.19	1413.19
Interior Lighting Power Density	0.29	2.86	1141.48	2324.57
Shading Projection Factor	0	1	1413.19	1439.24

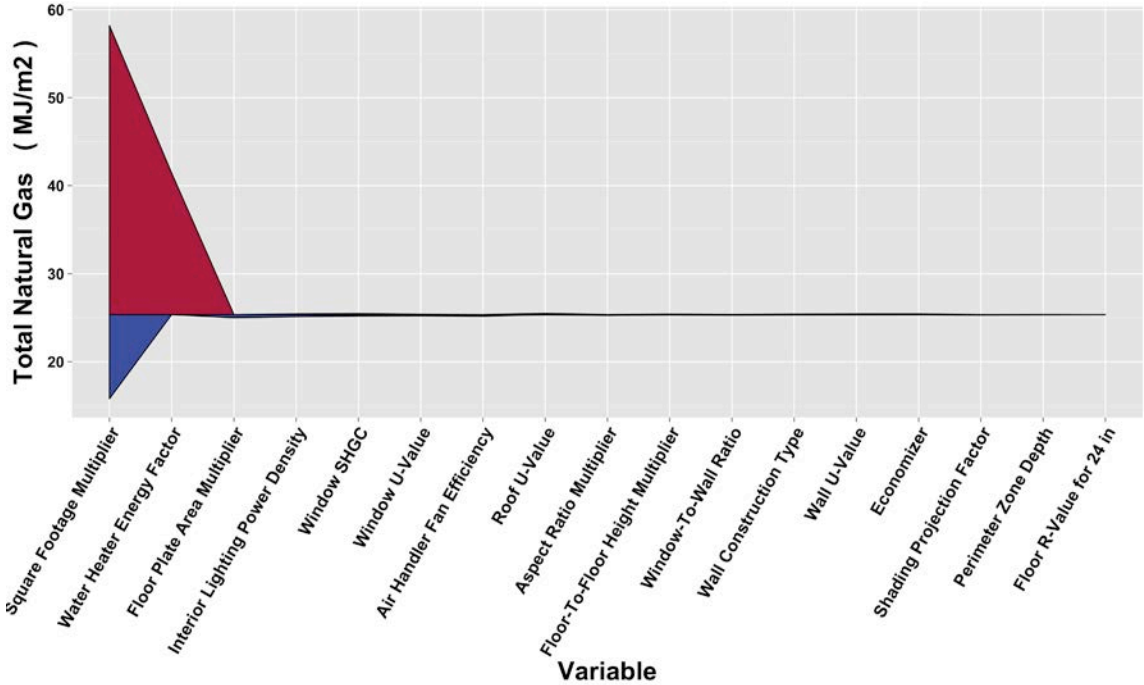
District Chiller Cooling Efficiency	0.52	1.48	1413.19	1413.19
Air Handler Fan Efficiency	16.88	60.75	1379.55	2118.07
Air Source Heat Pump Cooling Efficiency	2	4.2	1362.40	1519.84
Air Source Heat Pump Heating Efficiency	2.25	3.95	1392.69	1449.06
Gas Heating Efficiency	0.87	1.13	1413.19	1413.19
Terminal DX Cooling Efficiency	0.68	1.32	1413.19	1413.19
Terminal Furnace Heating Efficiency	0.87	1.13	1413.19	1413.19
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1413.19	1413.19
Water Heater Energy Factor	1	99	1413.19	1430.61
Economizer	false	true	1413.19	1879.08
Fan Control	cav	false	1413.19	1413.19
Orientation	0	359	1410.52	1413.19



Total Electricity



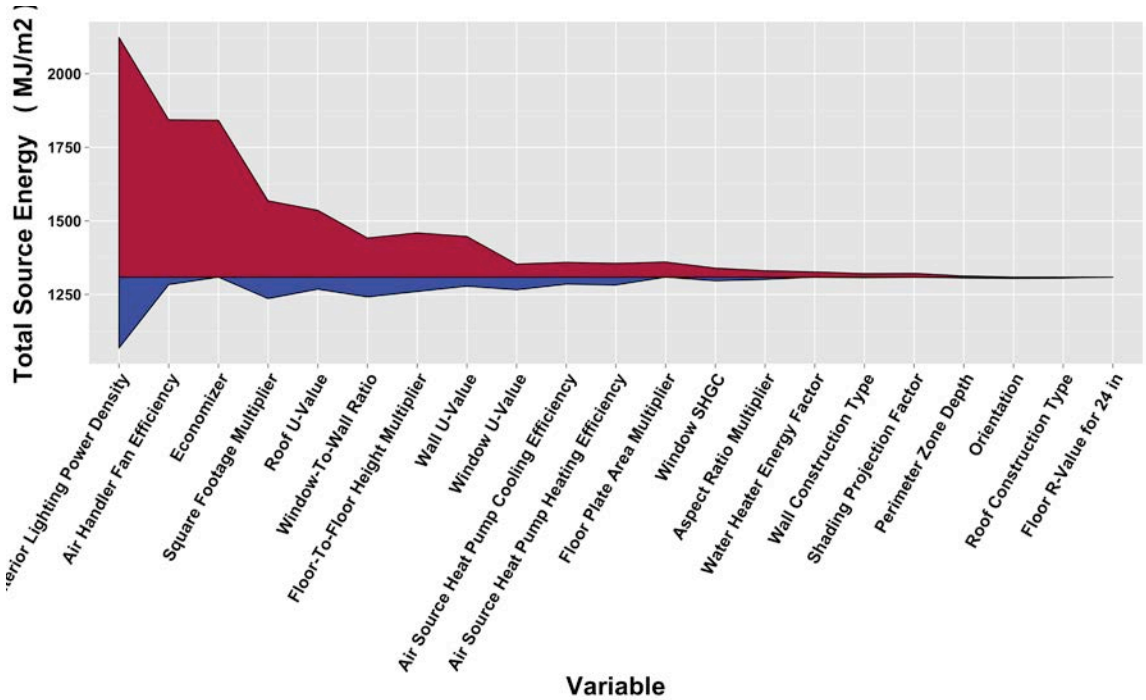
Total Natural Gas



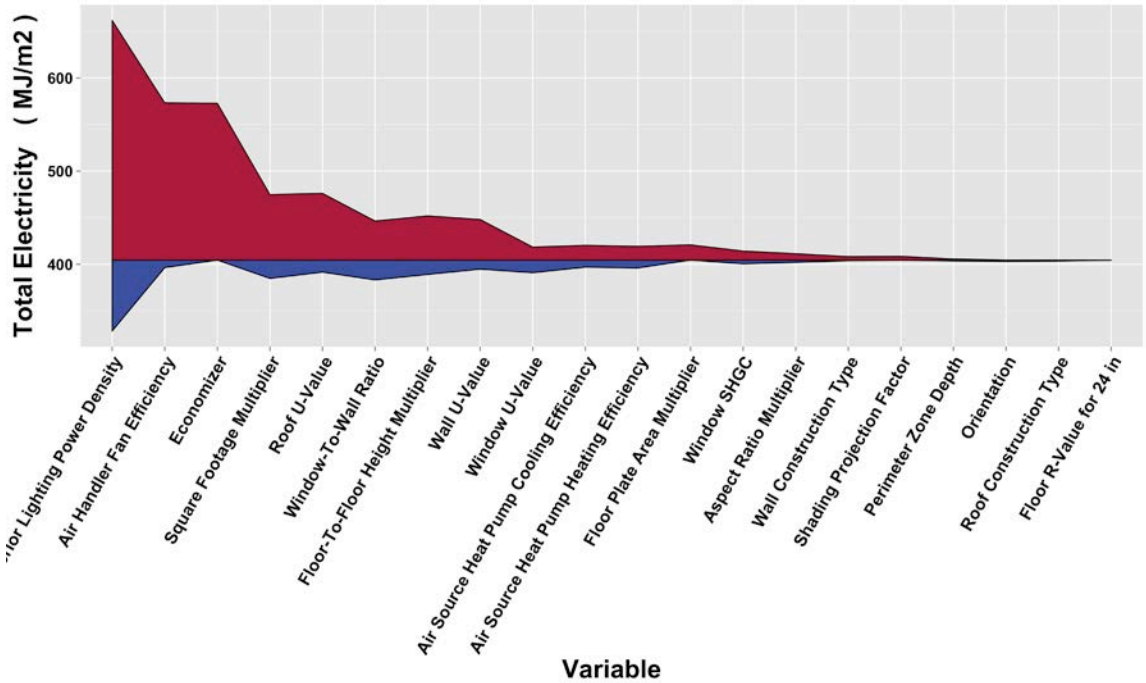
Location: Climate Zone 5C

Total Source Energy

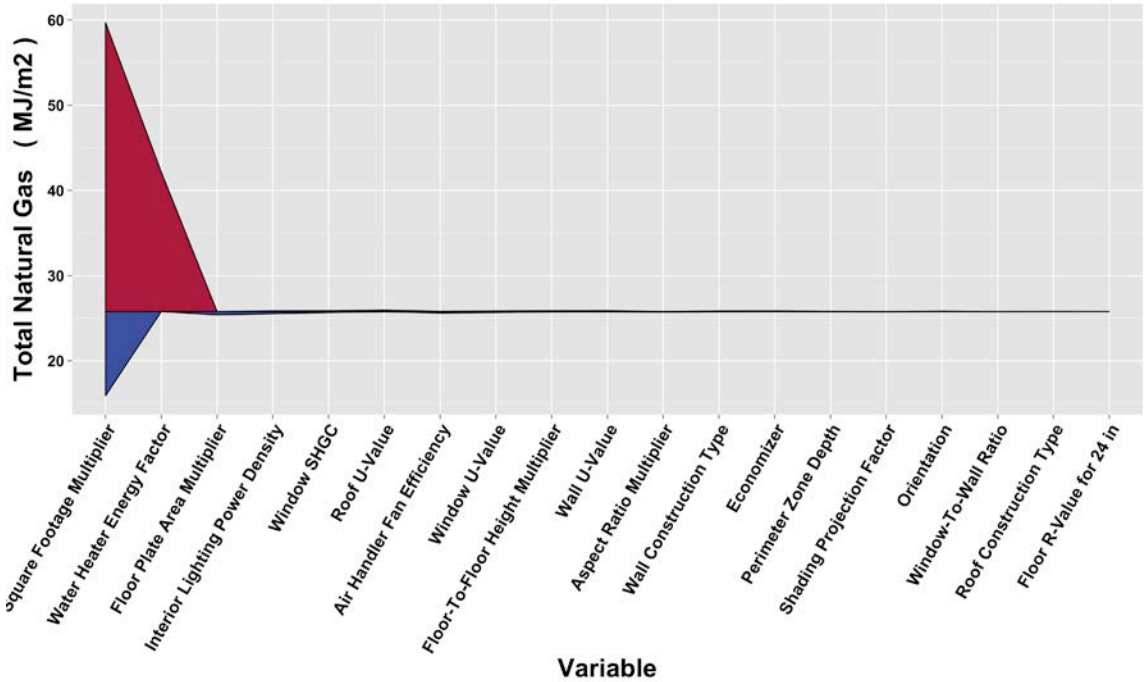
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1301.23	1330.61
Floor Plate Area Multiplier	2746.7	5493.4	1308.93	1360.20
Square Footage Multiplier	1648.02	16480.2	1235.92	1568.25
Floor-To-Floor Height Multiplier	8	16	1260.09	1459.30
Perimeter Zone Depth	10	20	1305.82	1312.71
Floor R-Value for 24 in	0	0.01	1308.93	1308.93
Window-To-Wall Ratio	0	0.5	1241.58	1441.68
Window Sill Height	1	6	1308.93	1308.93
Window U-Value	0.12	1.22	1265.90	1353.13
Window SHGC	0.08	0.7	1296.43	1339.47
Window VLT	0.06	0.89	1308.93	1308.93
Wall Construction Type	masonry-on-masonry	wood-siding	1306.68	1320.75
Wall U-Value	0.03	0.58	1278.20	1447.07
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1305.62	1308.93
Roof U-Value	0.01	0.2	1267.98	1536.10
Daylighting Control Setpoint	0	0	1308.93	1308.93
Interior Lighting Power Density	0.29	2.86	1067.98	2123.17
Shading Projection Factor	0	1	1308.93	1321.62
District Chiller Cooling Efficiency	0.52	1.48	1308.93	1308.93
Air Handler Fan Efficiency	16.88	60.75	1283.49	1843.19
Air Source Heat Pump Cooling Efficiency	2	4.2	1285.04	1359.10
Air Source Heat Pump Heating Efficiency	2.25	3.95	1282.27	1355.59
Gas Heating Efficiency	0.87	1.13	1308.93	1308.93
Terminal DX Cooling Efficiency	0.68	1.32	1308.93	1308.93
Terminal Furnace Heating Efficiency	0.87	1.13	1308.93	1308.93
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1308.93	1308.93
Water Heater Energy Factor	1	99	1308.93	1326.67
Economizer	false	true	1308.93	1841.97
Fan Control	cav	false	1308.93	1308.93
Orientation	0	359	1304.89	1309.03



Total Electricity



Total Natural Gas

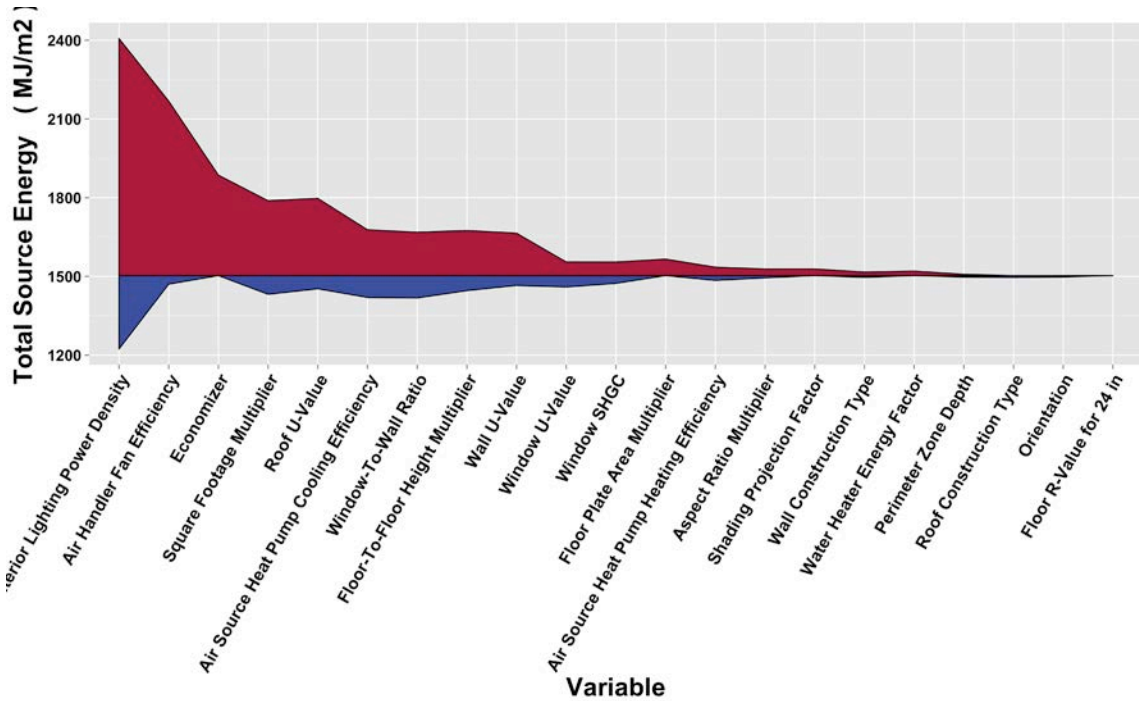


Location: Climate Zone 6A

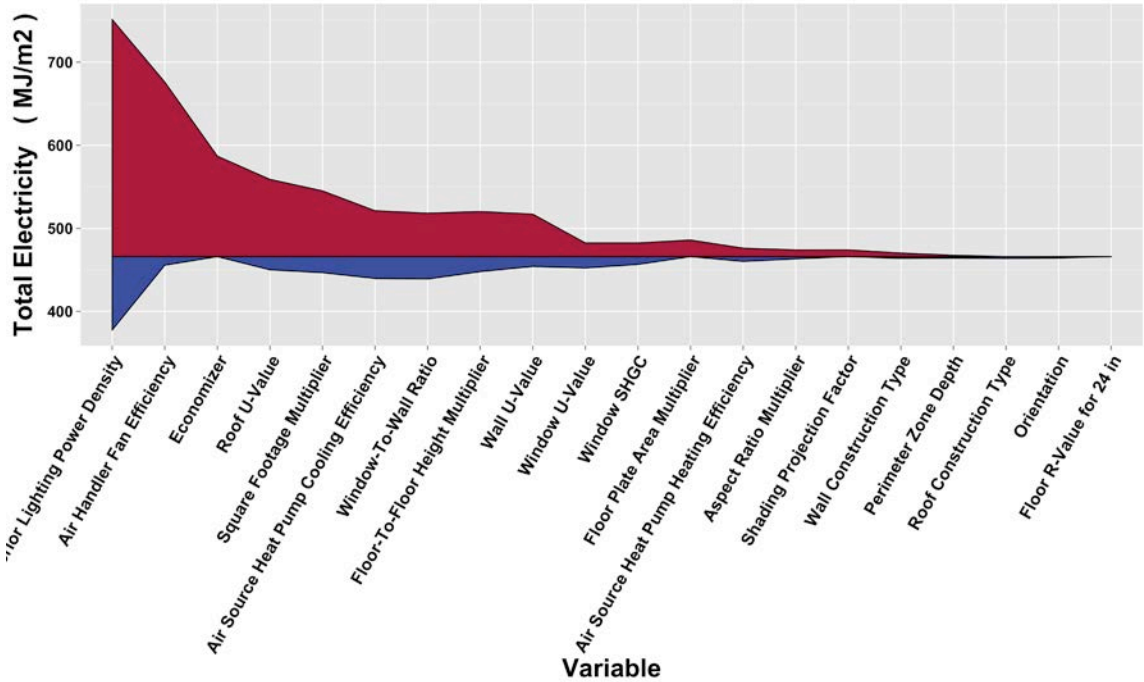
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1494.39	1528.07
Floor Plate Area Multiplier	2746.7	5493.4	1502.93	1565.75
Square Footage Multiplier	1648.02	16480.2	1431.63	1788.46
Floor-To-Floor Height Multiplier	8	16	1445.66	1674.82
Perimeter Zone Depth	10	20	1497.53	1507.94
Floor R-Value for 24 in	0	0.01	1502.93	1502.93
Window-To-Wall Ratio	0	0.5	1417.59	1668.24
Window Sill Height	1	6	1502.93	1502.93
Window U-Value	0.12	1.22	1459.57	1554.86
Window SHGC	0.08	0.7	1473.39	1554.72
Window VLT	0.06	0.89	1502.93	1502.93
Wall Construction Type	masonry-on-masonry	wood-siding	1496.36	1516.39
Wall U-Value	0.03	0.58	1465.58	1664.79
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1495.75	1502.93
Roof U-Value	0.01	0.2	1452.65	1797.53
Daylighting Control Setpoint	0	0	1502.93	1502.93
Interior Lighting Power Density	0.29	2.86	1223.04	2406.89
Shading Projection Factor	0	1	1502.93	1528.29

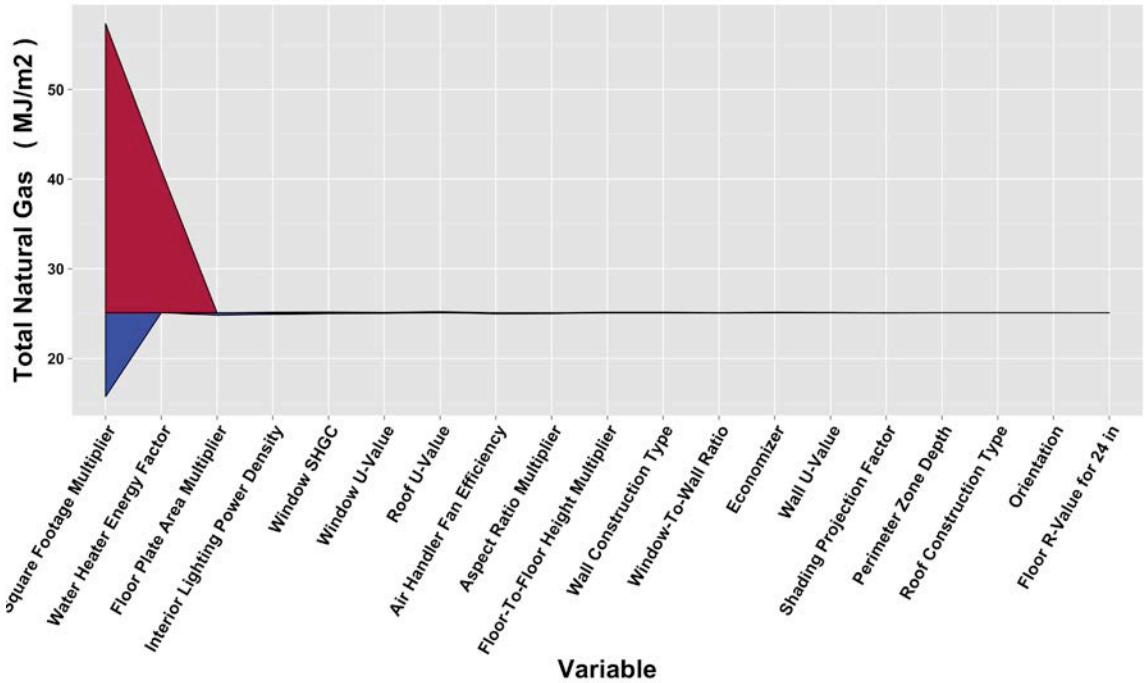
District Chiller Cooling Efficiency	0.52	1.48	1502.93	1502.93
Air Handler Fan Efficiency	16.88	60.75	1470.26	2168.35
Air Source Heat Pump Cooling Efficiency	2	4.2	1419.70	1677.73
Air Source Heat Pump Heating Efficiency	2.25	3.95	1484.58	1535.05
Gas Heating Efficiency	0.87	1.13	1502.93	1502.93
Terminal DX Cooling Efficiency	0.68	1.32	1502.93	1502.93
Terminal Furnace Heating Efficiency	0.87	1.13	1502.93	1502.93
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1502.93	1502.93
Water Heater Energy Factor	1	99	1502.93	1520.18
Economizer	false	true	1502.93	1886.12
Fan Control	cav	false	1502.93	1502.93
Orientation	0	359	1497.94	1502.93



Total Electricity



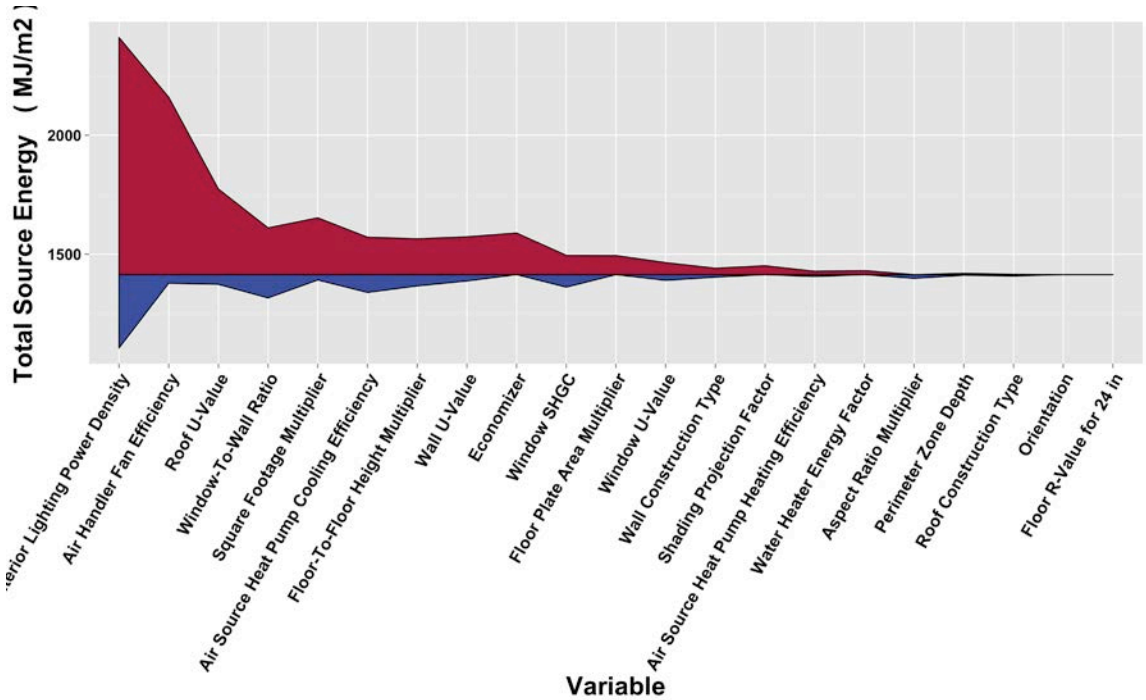
Total Natural Gas



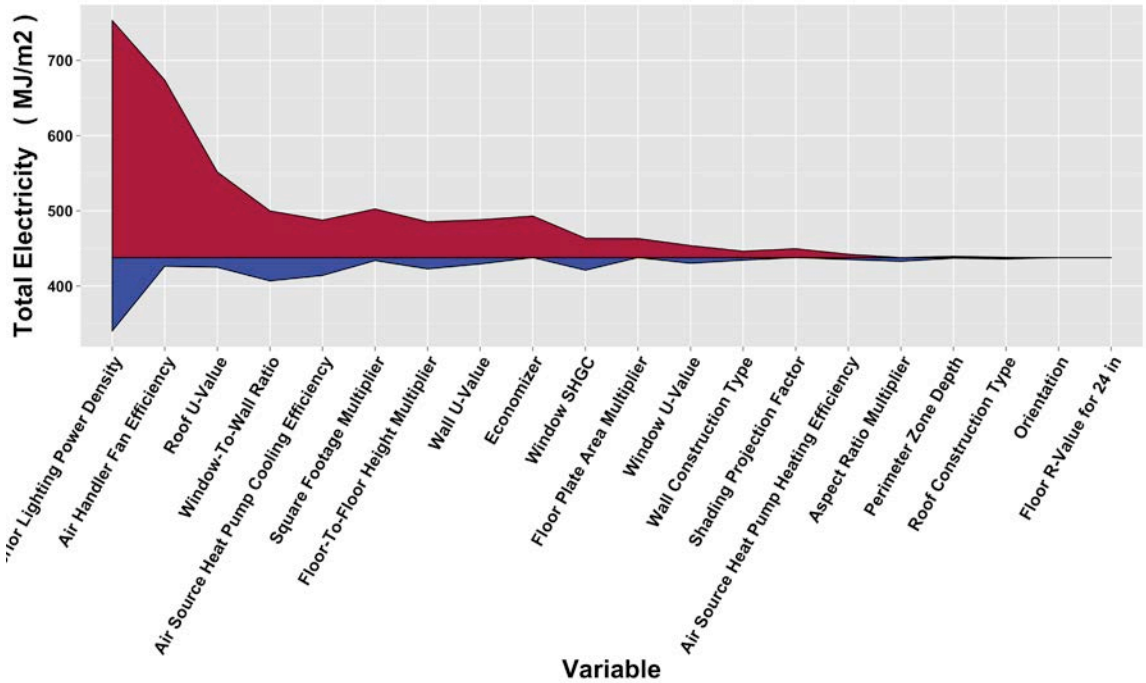
Location: Climate Zone 6B

Total Source Energy

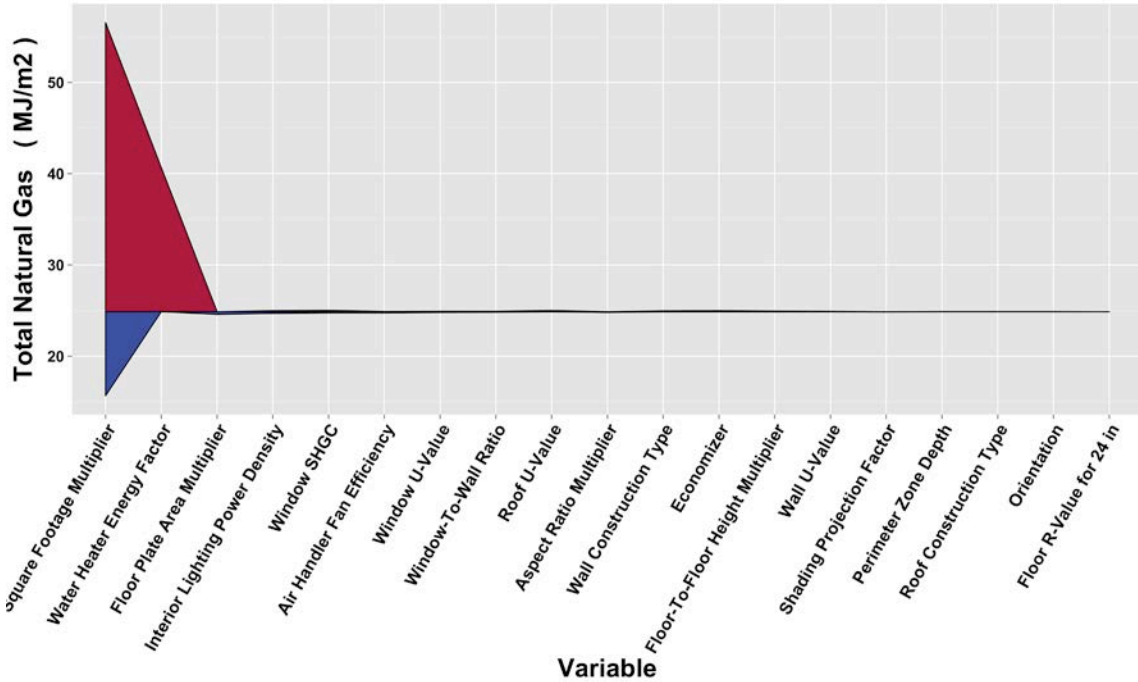
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1397.78	1413.57
Floor Plate Area Multiplier	2746.7	5493.4	1413.57	1493.81
Square Footage Multiplier	1648.02	16480.2	1390.99	1652.75
Floor-To-Floor Height Multiplier	8	16	1365.88	1564.47
Perimeter Zone Depth	10	20	1410.93	1418.94
Floor R-Value for 24 in	0	0.01	1413.57	1413.57
Window-To-Wall Ratio	0	0.5	1315.42	1610.41
Window Sill Height	1	6	1413.57	1413.57
Window U-Value	0.12	1.22	1389.50	1464.13
Window SHGC	0.08	0.7	1360.69	1494.87
Window VLT	0.06	0.89	1413.57	1413.57
Wall Construction Type	masonry-on-masonry	wood-siding	1402.90	1440.57
Wall U-Value	0.03	0.58	1386.82	1572.79
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1407.91	1414.83
Roof U-Value	0.01	0.2	1372.63	1774.20
Daylighting Control Setpoint	0	0	1413.57	1413.57
Interior Lighting Power Density	0.29	2.86	1104.56	2411.81
Shading Projection Factor	0	1	1413.57	1450.99
District Chiller Cooling Efficiency	0.52	1.48	1413.57	1413.57
Air Handler Fan Efficiency	16.88	60.75	1377.61	2160.78
Air Source Heat Pump Cooling Efficiency	2	4.2	1338.47	1571.29
Air Source Heat Pump Heating Efficiency	2.25	3.95	1405.52	1427.67
Gas Heating Efficiency	0.87	1.13	1413.57	1413.57
Terminal DX Cooling Efficiency	0.68	1.32	1413.57	1413.57
Terminal Furnace Heating Efficiency	0.87	1.13	1413.57	1413.57
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1413.57	1413.57
Water Heater Energy Factor	1	99	1413.57	1430.67
Economizer	false	true	1413.57	1588.78
Fan Control	cav	false	1413.57	1413.57
Orientation	0	359	1413.50	1413.57



Total Electricity



Total Natural Gas

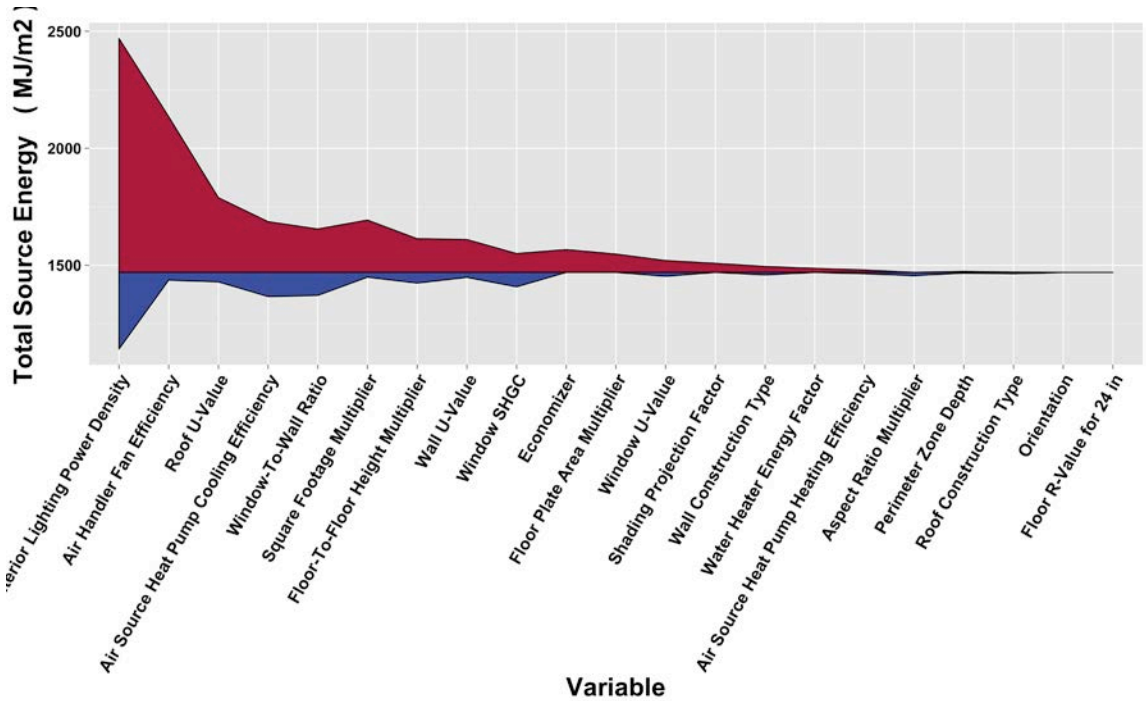


Location: Climate Zone 7

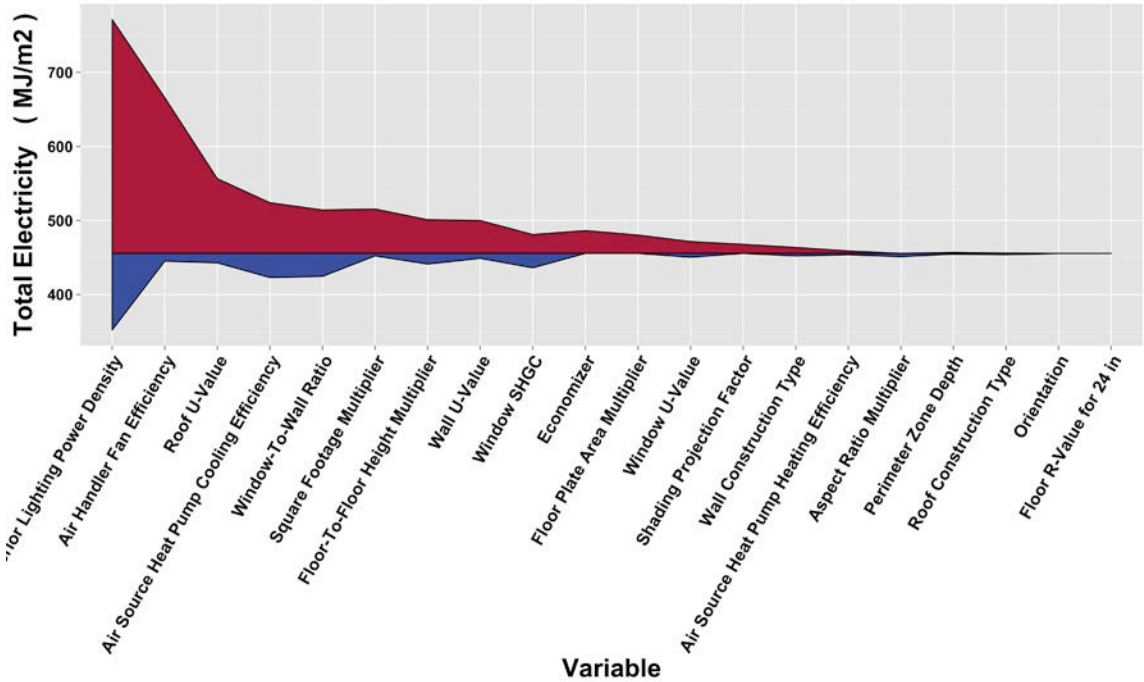
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1455.21	1469.31
Floor Plate Area Multiplier	2746.7	5493.4	1469.31	1547.58
Square Footage Multiplier	1648.02	16480.2	1448.75	1693.12
Floor-To-Floor Height Multiplier	8	16	1423.57	1613.32
Perimeter Zone Depth	10	20	1466.33	1473.59
Floor R-Value for 24 in	0	0.01	1469.31	1469.31
Window-To-Wall Ratio	0	0.5	1370.83	1654.78
Window Sill Height	1	6	1469.31	1469.31
Window U-Value	0.12	1.22	1452.58	1519.91
Window SHGC	0.08	0.7	1407.63	1549.87
Window VLT	0.06	0.89	1469.31	1469.31
Wall Construction Type	masonry-on-masonry	wood-siding	1458.37	1494.78
Wall U-Value	0.03	0.58	1447.94	1610.01
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1463.49	1470.48
Roof U-Value	0.01	0.2	1428.76	1788.91
Daylighting Control Setpoint	0	0	1469.31	1469.31
Interior Lighting Power Density	0.29	2.86	1141.61	2469.50
Shading Projection Factor	0	1	1469.31	1507.96

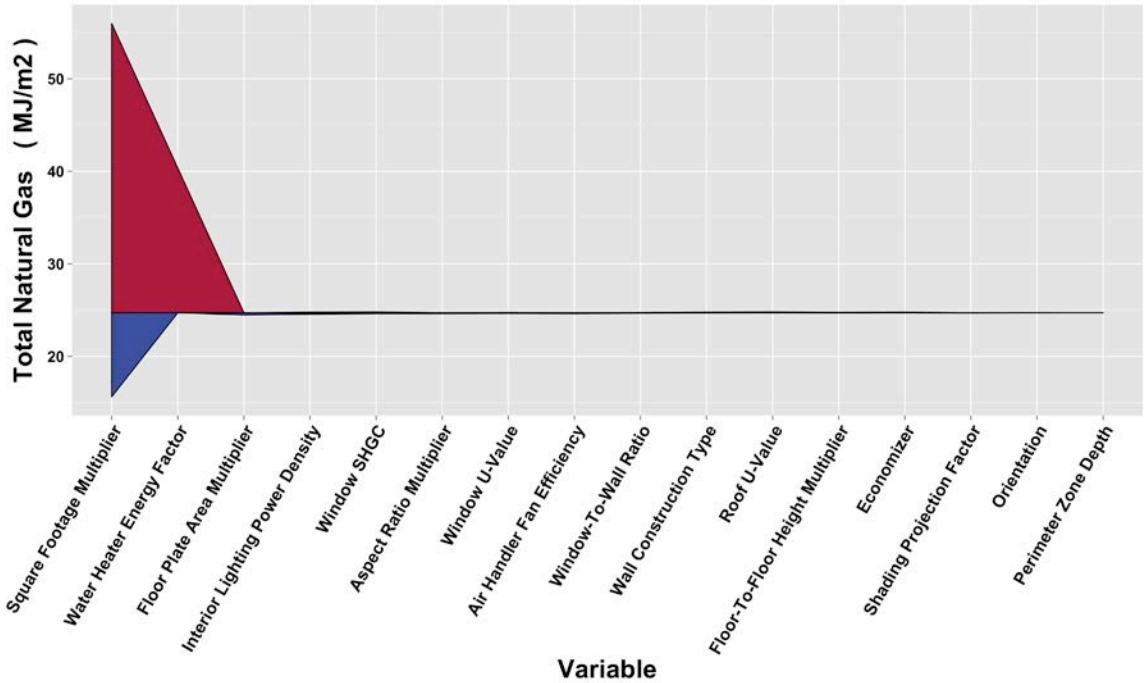
District Chiller Cooling Efficiency	0.52	1.48	1469.31	1469.31
Air Handler Fan Efficiency	16.88	60.75	1436.27	2135.32
Air Source Heat Pump Cooling Efficiency	2	4.2	1366.01	1686.23
Air Source Heat Pump Heating Efficiency	2.25	3.95	1463.37	1479.70
Gas Heating Efficiency	0.87	1.13	1469.31	1469.31
Terminal DX Cooling Efficiency	0.68	1.32	1469.31	1469.31
Terminal Furnace Heating Efficiency	0.87	1.13	1469.31	1469.31
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1469.31	1469.31
Water Heater Energy Factor	1	99	1469.31	1486.27
Economizer	false	true	1469.31	1566.90
Fan Control	cav	false	1469.31	1469.31
Orientation	0	359	1469.07	1469.31



Total Electricity



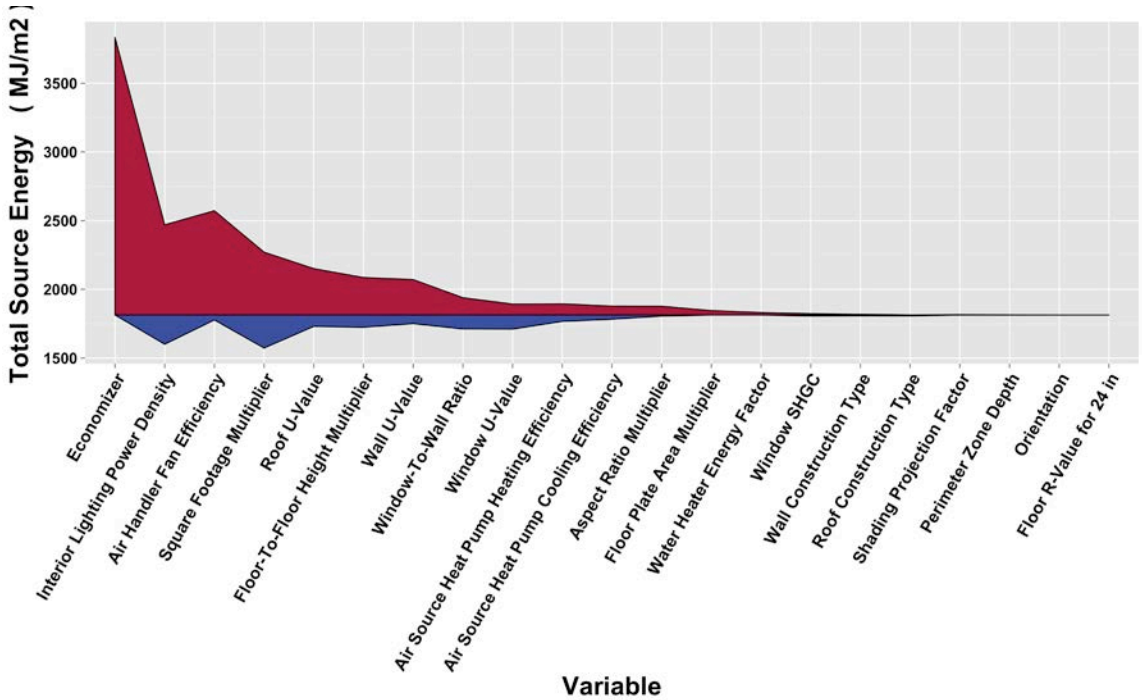
Total Natural Gas



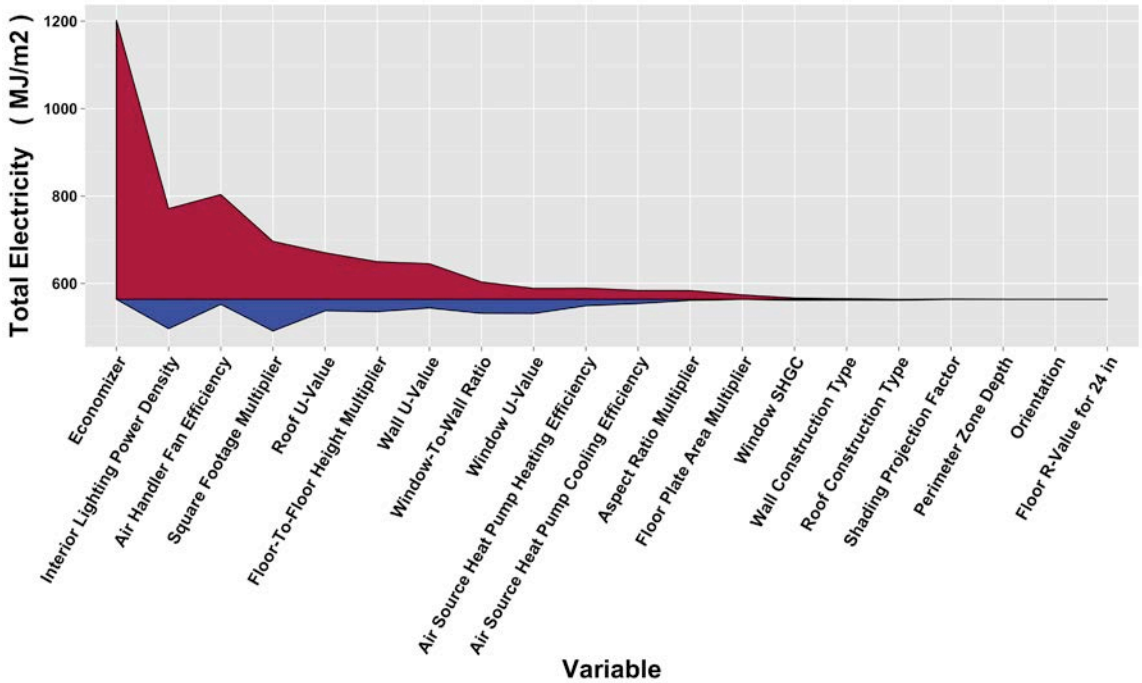
Location: Climate Zone 8

Total Source Energy

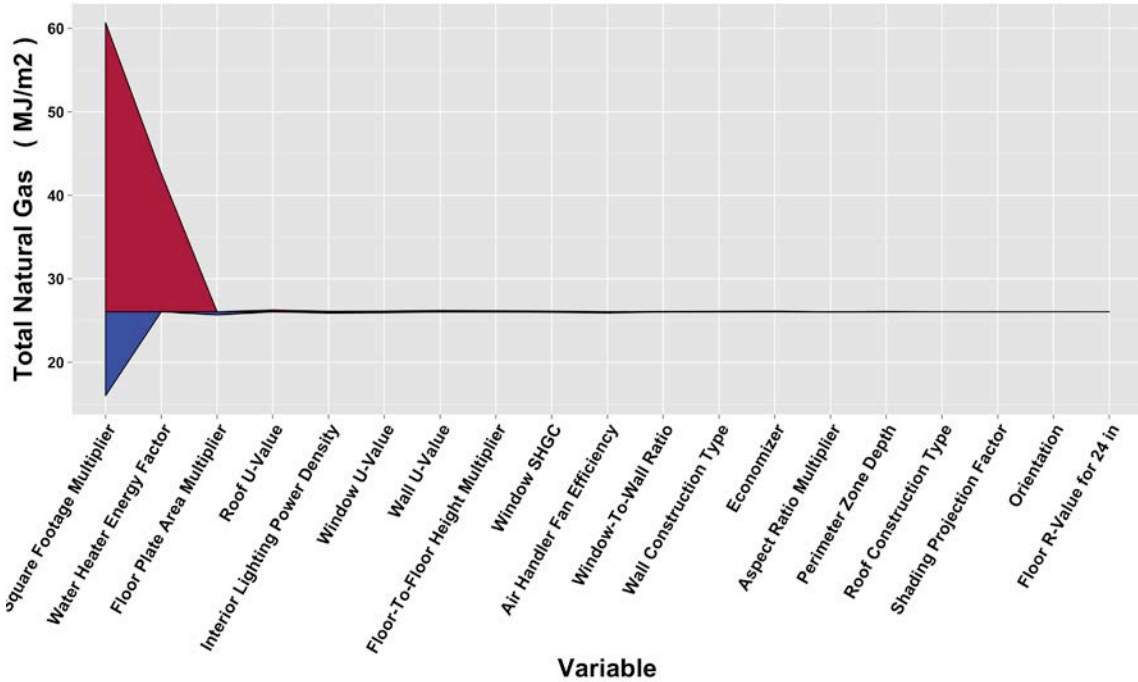
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	0.67	3.33	1805.17	1876.95
Floor Plate Area Multiplier	2746.7	5493.4	1813.17	1845.19
Square Footage Multiplier	1648.02	16480.2	1572.64	2270.95
Floor-To-Floor Height Multiplier	8	16	1724.00	2085.94
Perimeter Zone Depth	10	20	1812.77	1813.99
Floor R-Value for 24 in	0	0.01	1813.17	1813.17
Window-To-Wall Ratio	0	0.5	1711.53	1939.35
Window Sill Height	1	6	1813.17	1813.17
Window U-Value	0.12	1.22	1710.26	1892.76
Window SHGC	0.08	0.7	1806.28	1822.76
Window VLT	0.06	0.89	1813.17	1813.17
Wall Construction Type	masonry-on-masonry	wood-siding	1808.19	1818.39
Wall U-Value	0.03	0.58	1750.29	2071.35
Roof Construction Type	built-up concrete-deck	built-up wood-deck	1807.36	1813.17
Roof U-Value	0.01	0.2	1730.04	2150.98
Daylighting Control Setpoint	0	0	1813.17	1813.17
Interior Lighting Power Density	0.29	2.86	1600.13	2470.18
Shading Projection Factor	0	1	1813.17	1815.21
District Chiller Cooling Efficiency	0.52	1.48	1813.17	1813.17
Air Handler Fan Efficiency	16.88	60.75	1776.93	2572.56
Air Source Heat Pump Cooling Efficiency	2	4.2	1782.48	1877.61
Air Source Heat Pump Heating Efficiency	2.25	3.95	1766.70	1894.50
Gas Heating Efficiency	0.87	1.13	1813.17	1813.17
Terminal DX Cooling Efficiency	0.68	1.32	1813.17	1813.17
Terminal Furnace Heating Efficiency	0.87	1.13	1813.17	1813.17
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	1813.17	1813.17
Water Heater Energy Factor	1	99	1813.17	1831.11
Economizer	false	true	1813.17	3833.91
Fan Control	cav	false	1813.17	1813.17
Orientation	0	359	1813.15	1813.26



Total Electricity



Total Natural Gas



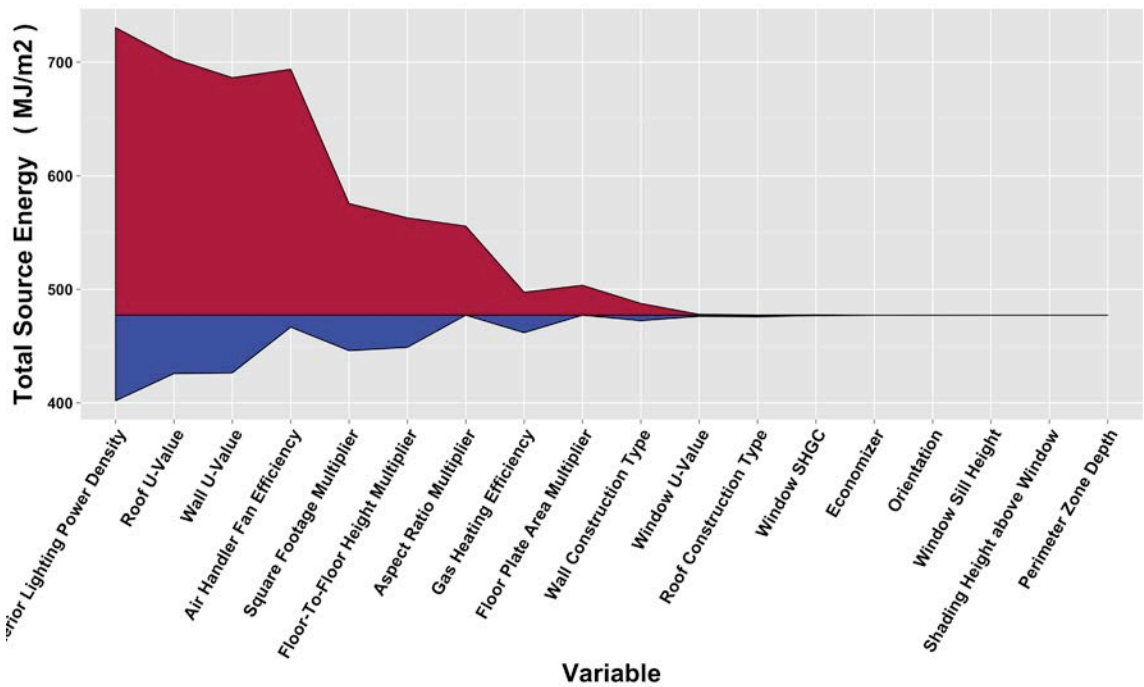
Warehouse

Location: Climate Zone 1A

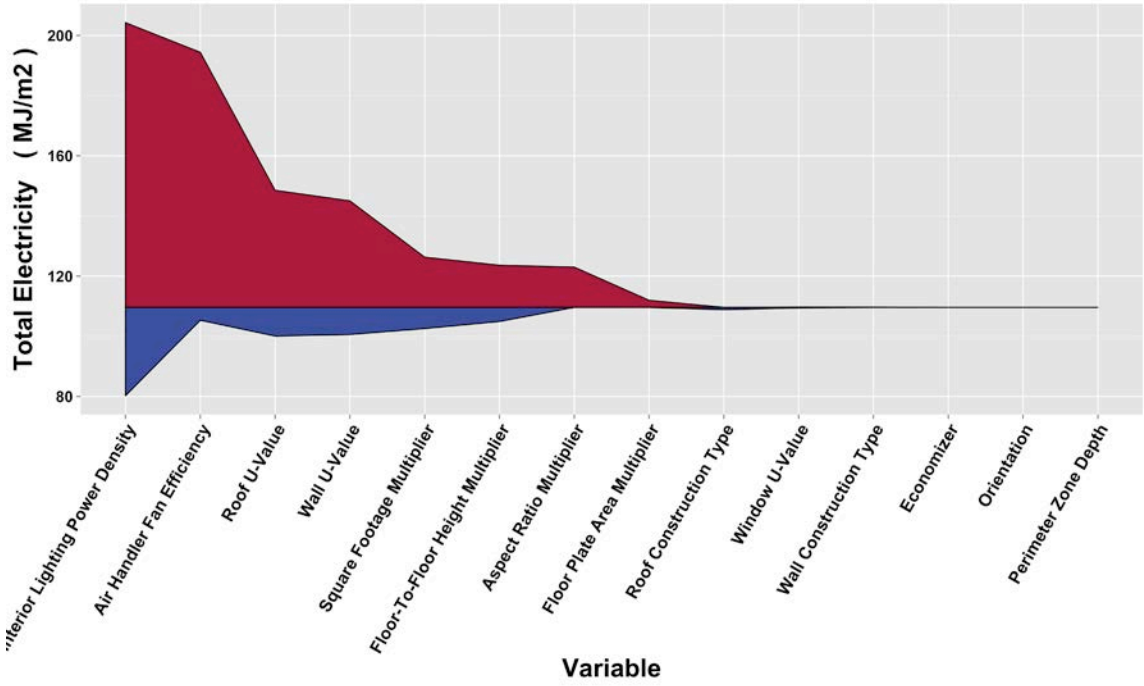
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	477.21	555.62
Floor Plate Area Multiplier	24750	49500	477.21	503.56
Square Footage Multiplier	14850	148500	445.96	575.53
Floor-To-Floor Height Multiplier	22.4	44.8	448.92	562.96
Perimeter Zone Depth	0	0	477.21	477.21
Floor R-Value for 24 in	0	0	477.21	477.21
Window-To-Wall Ratio	0	0.05	477.21	477.21
Window Sill Height	1	6	477.21	477.22
Window U-Value	0.12	1.22	476.21	477.93
Window SHGC	0.08	0.7	476.89	477.48
Window VLT	0.06	0.89	477.21	477.21
Wall Construction Type	masonry-on-masonry	wood-siding	472.36	487.57
Wall U-Value	0.03	0.58	426.42	686.30
Roof Construction Type	built-up concrete-deck	built-up wood-deck	475.83	477.37
Roof U-Value	0.01	0.2	425.82	703.04
Daylighting Control Setpoint	0	0	477.21	477.21

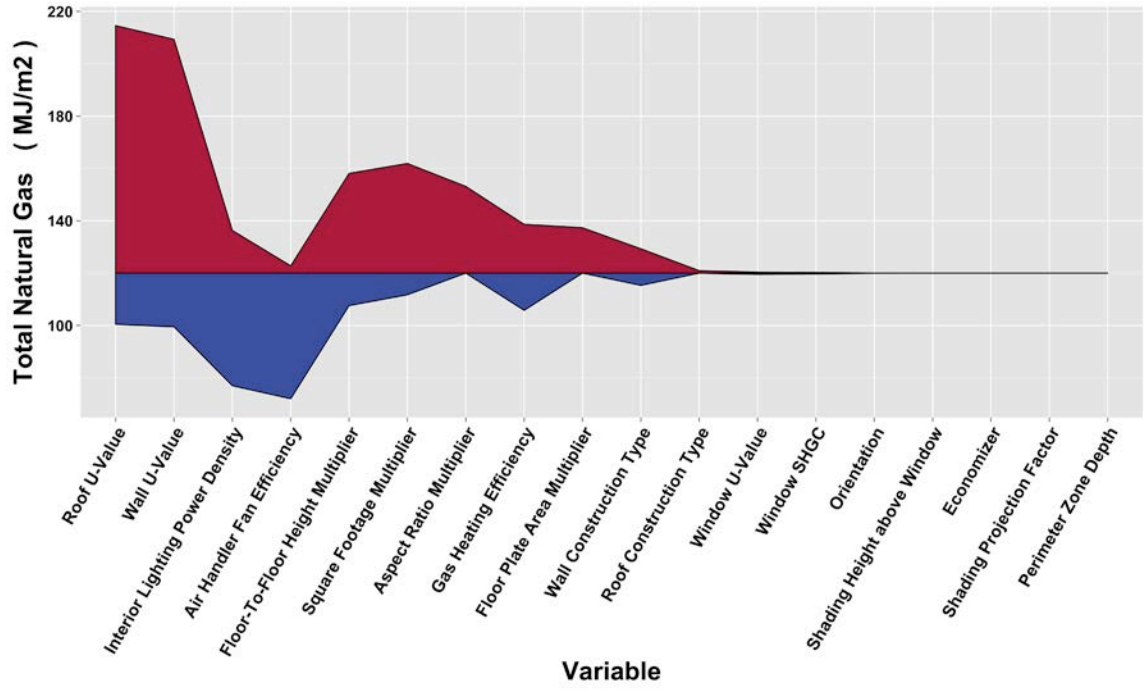
Interior Lighting Power Density	0.11	1.14	401.88	730.43
Shading Projection Factor	0	1	477.21	477.21
Shading Height above Window	0	2	477.21	477.22
District Chiller Cooling Efficiency	0.52	1.48	477.21	477.21
Air Handler Fan Efficiency	17.75	63.9	466.69	693.81
Packaged DX Cooling Efficiency	2.23	4.37	477.21	477.21
Gas Heating Efficiency	0.87	1.13	461.78	497.43
Terminal DX Cooling Efficiency	0.68	1.32	477.21	477.21
Terminal Furnace Heating Efficiency	0.87	1.13	477.21	477.21
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	477.21	477.21
Water Heater Energy Factor	1	99	477.21	477.21
Economizer	false	true	477.21	477.25
Fan Control	cav	false	477.21	477.21
Orientation	0	359	477.18	477.22



Total Electricity



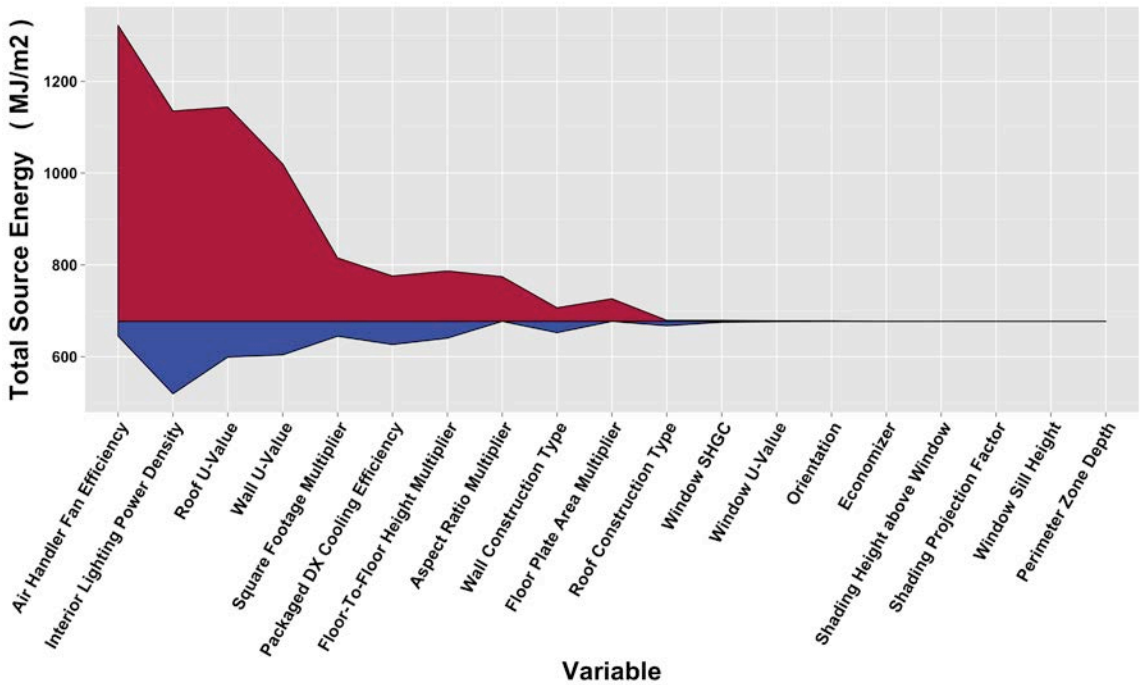
Total Natural Gas



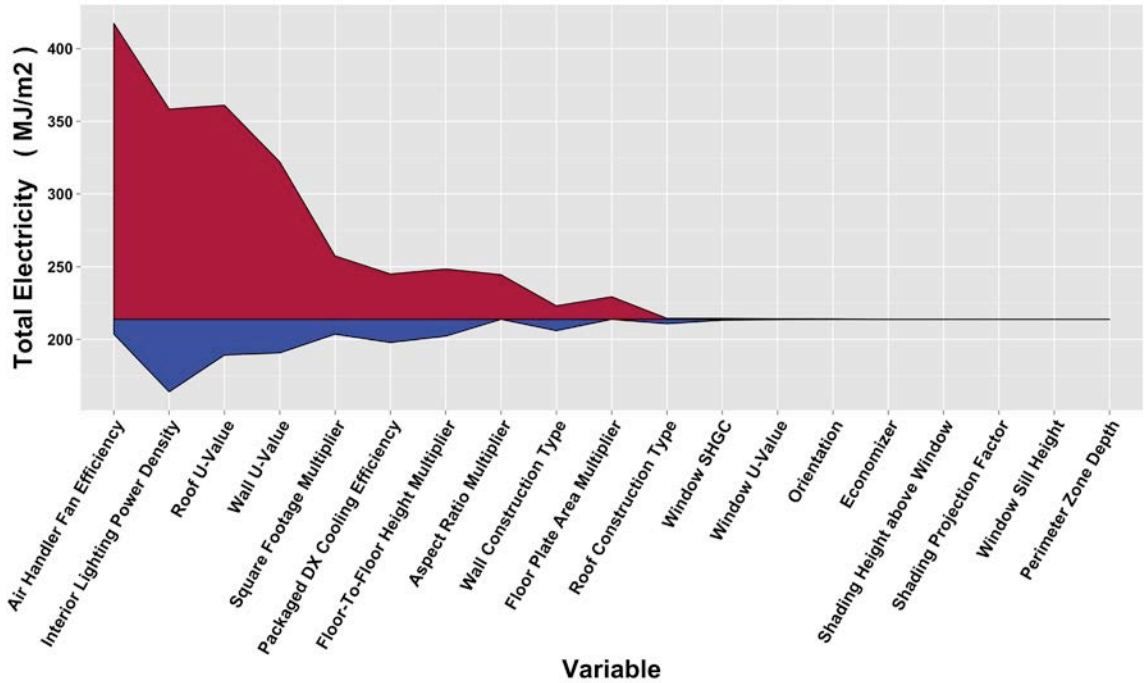
Location: Climate Zone 1B

Total Source Energy

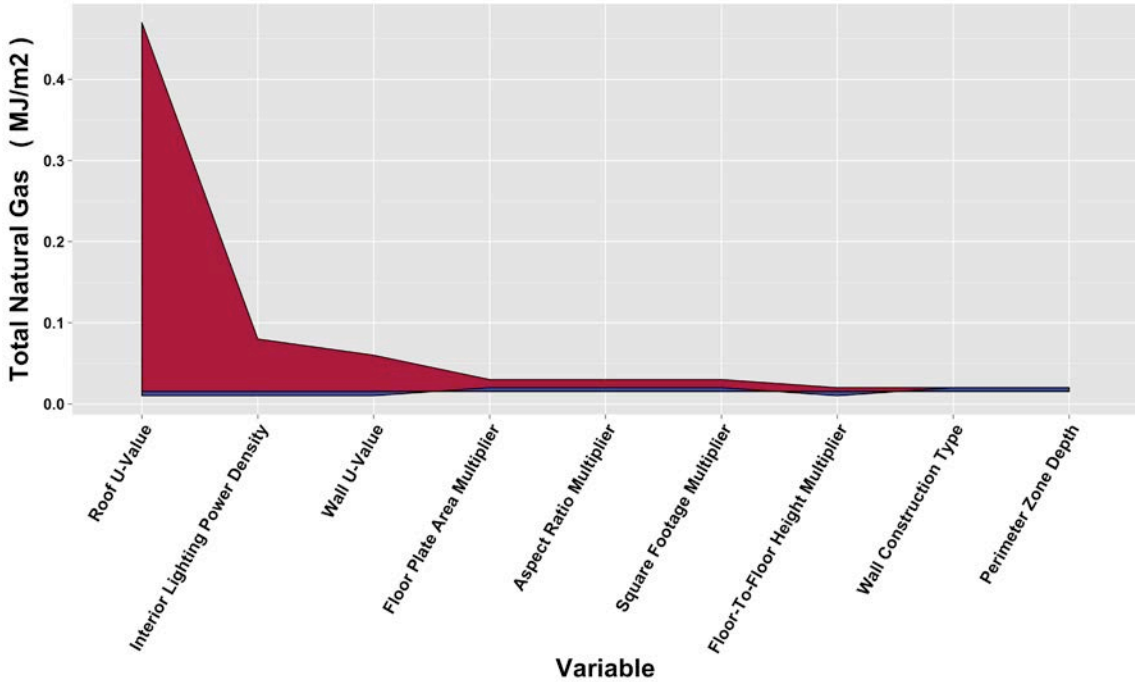
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	676.95	774.33
Floor Plate Area Multiplier	24750	49500	676.95	726.29
Square Footage Multiplier	14850	148500	644.63	815.21
Floor-To-Floor Height Multiplier	22.4	44.8	640.39	786.80
Perimeter Zone Depth	0	0	676.95	676.95
Floor R-Value for 24 in	0	0	676.95	676.95
Window-To-Wall Ratio	0	0.05	676.95	676.95
Window Sill Height	1	6	676.95	676.98
Window U-Value	0.12	1.22	676.24	678.15
Window SHGC	0.08	0.7	675.16	679.11
Window VLT	0.06	0.89	676.95	676.95
Wall Construction Type	masonry-on-masonry	wood-siding	652.27	706.56
Wall U-Value	0.03	0.58	603.91	1020.02
Roof Construction Type	built-up concrete-deck	built-up wood-deck	667.39	679.23
Roof U-Value	0.01	0.2	599.20	1143.94
Daylighting Control Setpoint	0	0	676.95	676.95
Interior Lighting Power Density	0.11	1.14	519.02	1135.17
Shading Projection Factor	0	1	676.95	677.03
Shading Height above Window	0	2	676.77	676.96
District Chiller Cooling Efficiency	0.52	1.48	676.95	676.95
Air Handler Fan Efficiency	17.75	63.9	644.77	1321.84
Packaged DX Cooling Efficiency	2.23	4.37	626.46	775.83
Gas Heating Efficiency	0.87	1.13	676.95	676.95
Terminal DX Cooling Efficiency	0.68	1.32	676.95	676.95
Terminal Furnace Heating Efficiency	0.87	1.13	676.95	676.95
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	676.95	676.95
Water Heater Energy Factor	1	99	676.95	676.95
Economizer	false	true	676.64	676.95
Fan Control	cav	false	676.95	676.95
Orientation	0	359	676.94	678.09



Total Electricity



Total Natural Gas

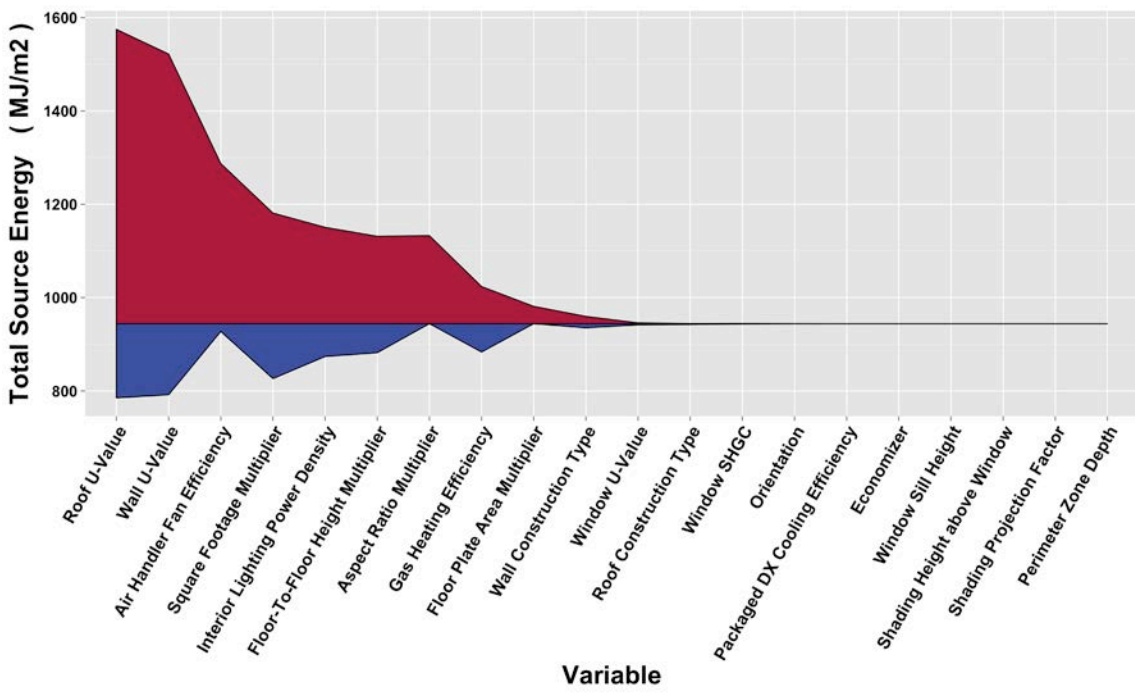


Location: Climate Zone 2A

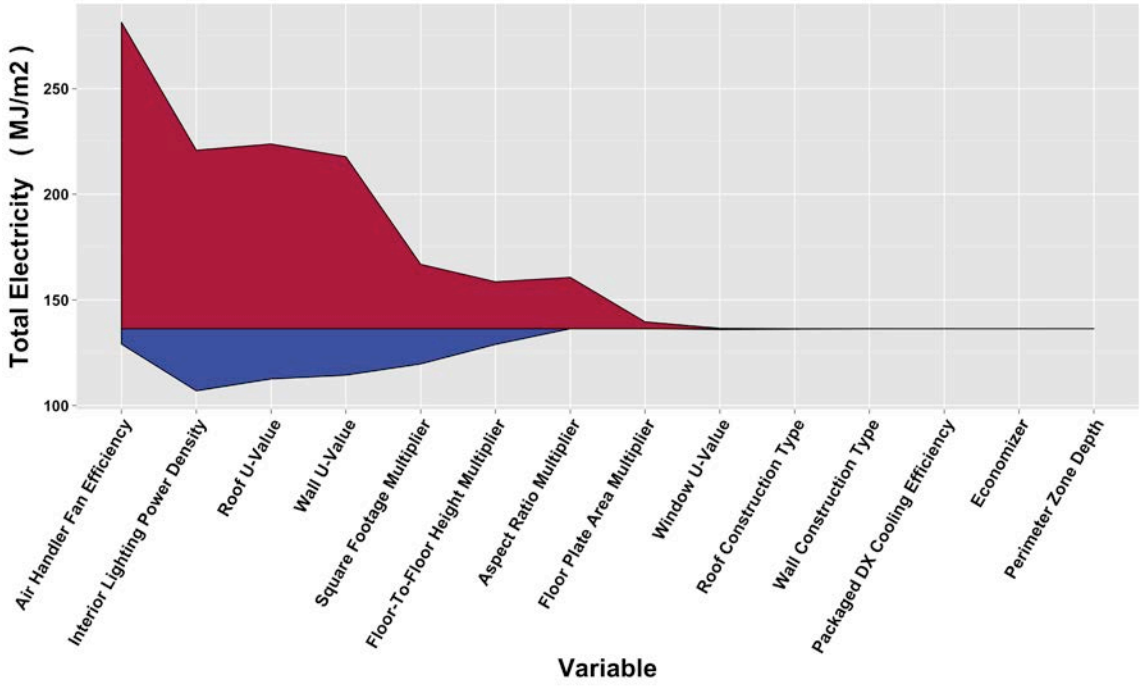
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	944.21	1132.80
Floor Plate Area Multiplier	24750	49500	944.21	981.28
Square Footage Multiplier	14850	148500	826.50	1181.26
Floor-To-Floor Height Multiplier	22.4	44.8	882.03	1131.42
Perimeter Zone Depth	0	0	944.21	944.21
Floor R-Value for 24 in	0	0	944.21	944.21
Window-To-Wall Ratio	0	0.05	944.21	944.21
Window Sill Height	1	6	944.21	944.24
Window U-Value	0.12	1.22	941.70	945.88
Window SHGC	0.08	0.7	943.70	944.65
Window VLT	0.06	0.89	944.21	944.21
Wall Construction Type	masonry-on-masonry	wood-siding	935.33	959.78
Wall U-Value	0.03	0.58	791.99	1521.96
Roof Construction Type	built-up concrete-deck	built-up wood-deck	942.40	944.36
Roof U-Value	0.01	0.2	785.24	1574.78
Daylighting Control Setpoint	0	0	944.21	944.21
Interior Lighting Power Density	0.11	1.14	873.89	1150.65
Shading Projection Factor	0	1	944.21	944.22

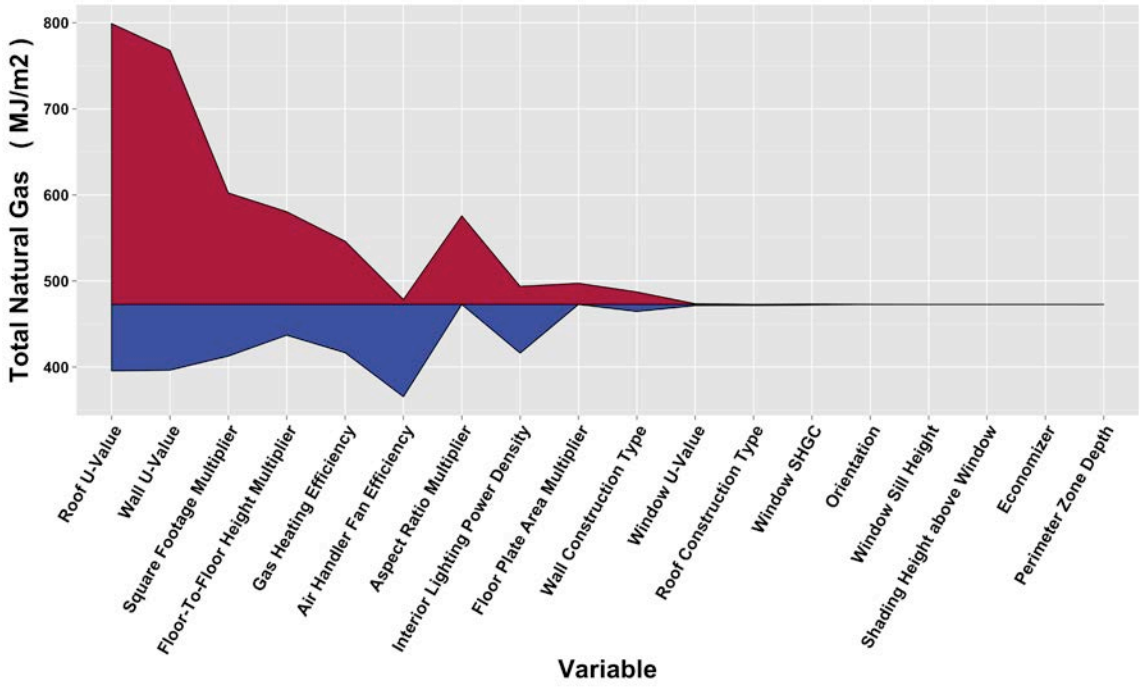
Shading Height above Window	0	2	944.21	944.23
District Chiller Cooling Efficiency	0.52	1.48	944.21	944.21
Air Handler Fan Efficiency	17.75	63.9	927.53	1287.34
Packaged DX Cooling Efficiency	2.23	4.37	944.19	944.25
Gas Heating Efficiency	0.87	1.13	883.46	1023.85
Terminal DX Cooling Efficiency	0.68	1.32	944.21	944.21
Terminal Furnace Heating Efficiency	0.87	1.13	944.21	944.21
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	944.21	944.21
Water Heater Energy Factor	1	99	944.21	944.21
Economizer	false	true	944.21	944.27
Fan Control	cav	false	944.21	944.21
Orientation	0	359	944.20	944.37



Total Electricity



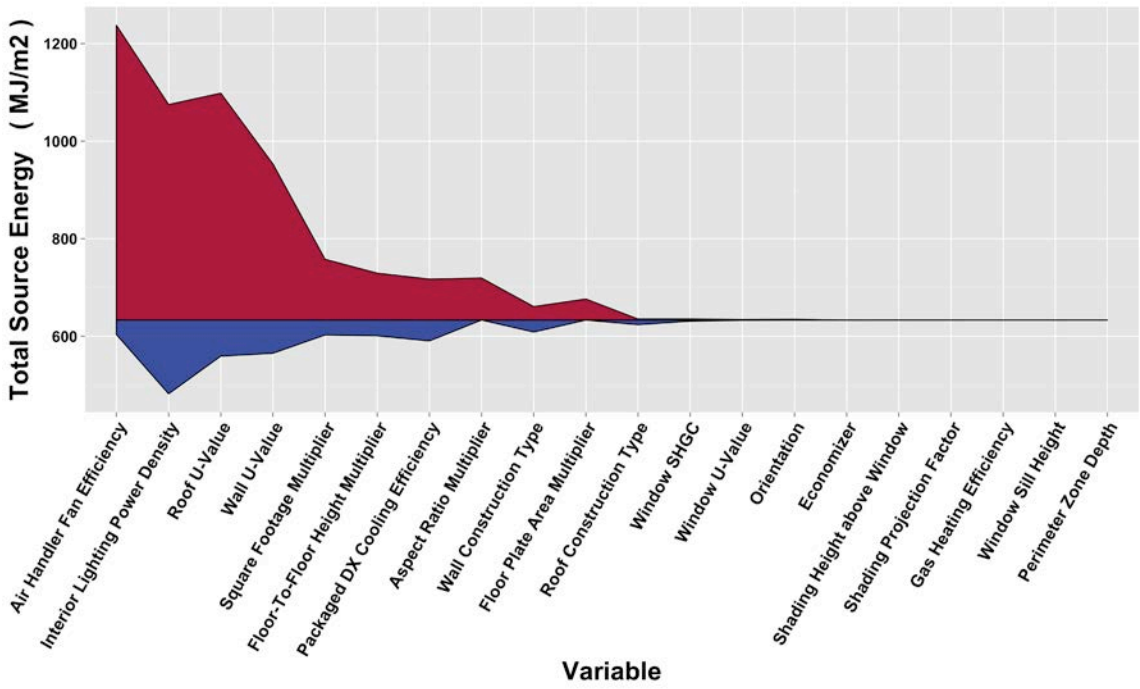
Total Natural Gas



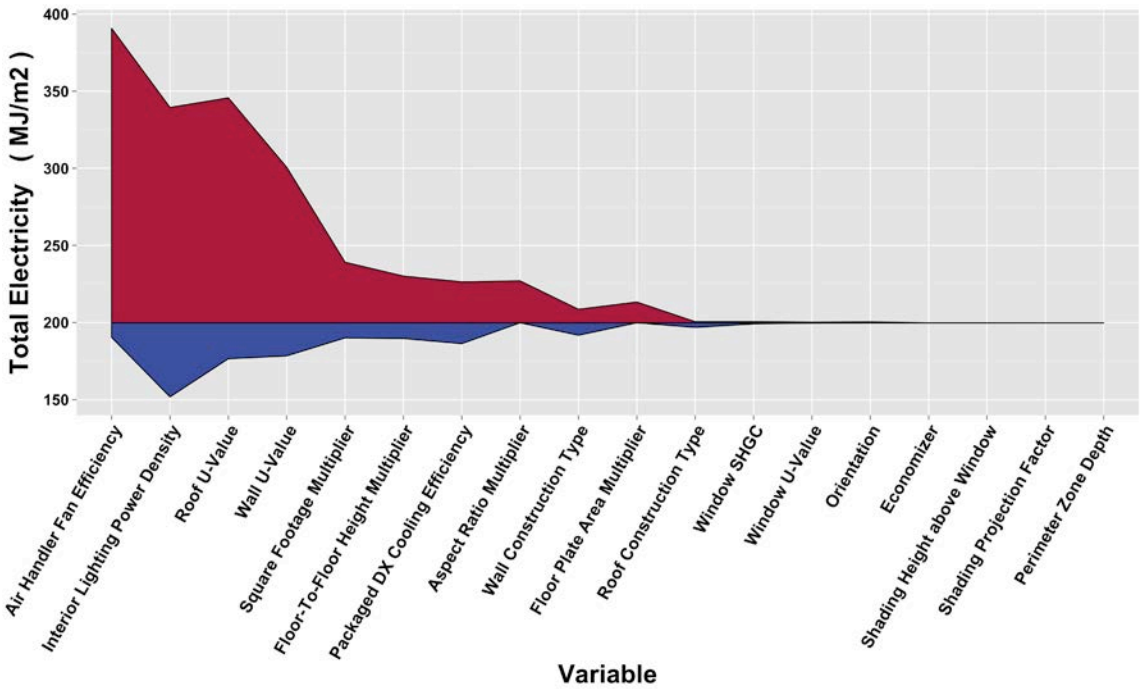
Location: Climate Zone 2B

Total Source Energy

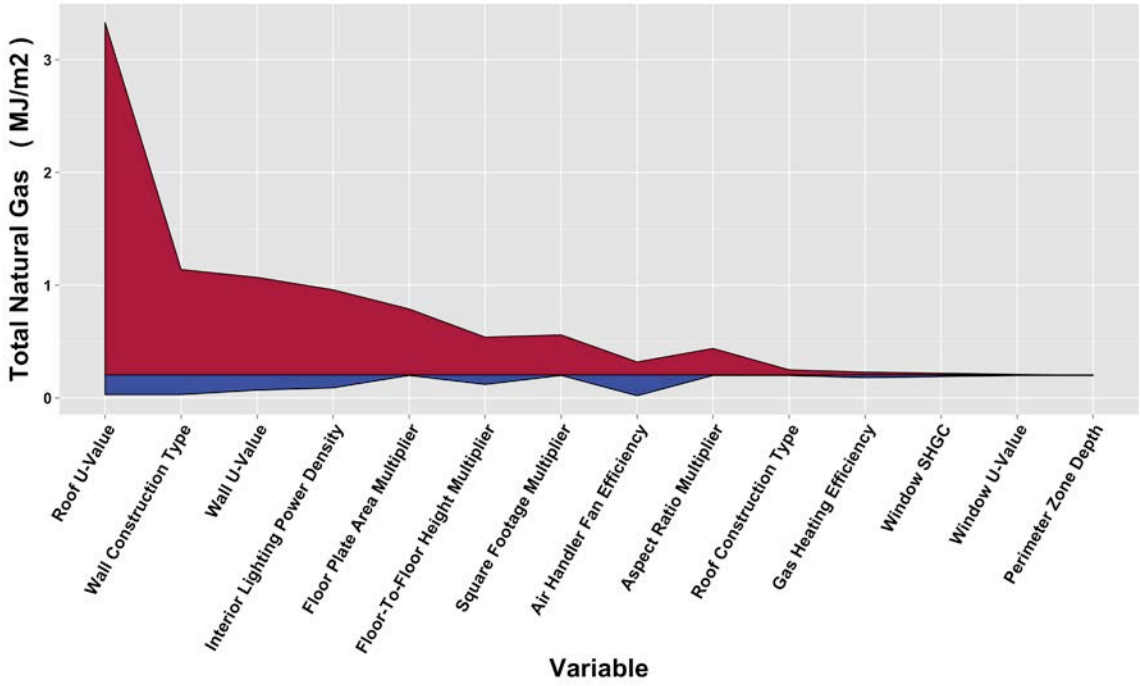
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	633.15	719.33
Floor Plate Area Multiplier	24750	49500	633.15	676.32
Square Footage Multiplier	14850	148500	602.54	757.76
Floor-To-Floor Height Multiplier	22.4	44.8	600.85	729.28
Perimeter Zone Depth	0	0	633.15	633.15
Floor R-Value for 24 in	0	0	633.15	633.15
Window-To-Wall Ratio	0	0.05	633.15	633.15
Window Sill Height	1	6	633.15	633.16
Window U-Value	0.12	1.22	632.52	634.26
Window SHGC	0.08	0.7	630.98	635.32
Window VLT	0.06	0.89	633.15	633.15
Wall Construction Type	masonry-on-masonry	wood-siding	608.50	660.74
Wall U-Value	0.03	0.58	565.03	953.31
Roof Construction Type	built-up concrete-deck	built-up wood-deck	623.66	635.27
Roof U-Value	0.01	0.2	559.16	1098.48
Daylighting Control Setpoint	0	0	633.15	633.15
Interior Lighting Power Density	0.11	1.14	481.75	1075.14
Shading Projection Factor	0	1	633.15	633.22
Shading Height above Window	0	2	632.97	633.16
District Chiller Cooling Efficiency	0.52	1.48	633.15	633.15
Air Handler Fan Efficiency	17.75	63.9	603.15	1237.52
Packaged DX Cooling Efficiency	2.23	4.37	590.29	717.08
Gas Heating Efficiency	0.87	1.13	633.12	633.18
Terminal DX Cooling Efficiency	0.68	1.32	633.15	633.15
Terminal Furnace Heating Efficiency	0.87	1.13	633.15	633.15
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	633.15	633.15
Water Heater Energy Factor	1	99	633.15	633.15
Economizer	false	true	632.92	633.15
Fan Control	cav	false	633.15	633.15
Orientation	0	359	633.13	634.74



Total Electricity



Total Natural Gas

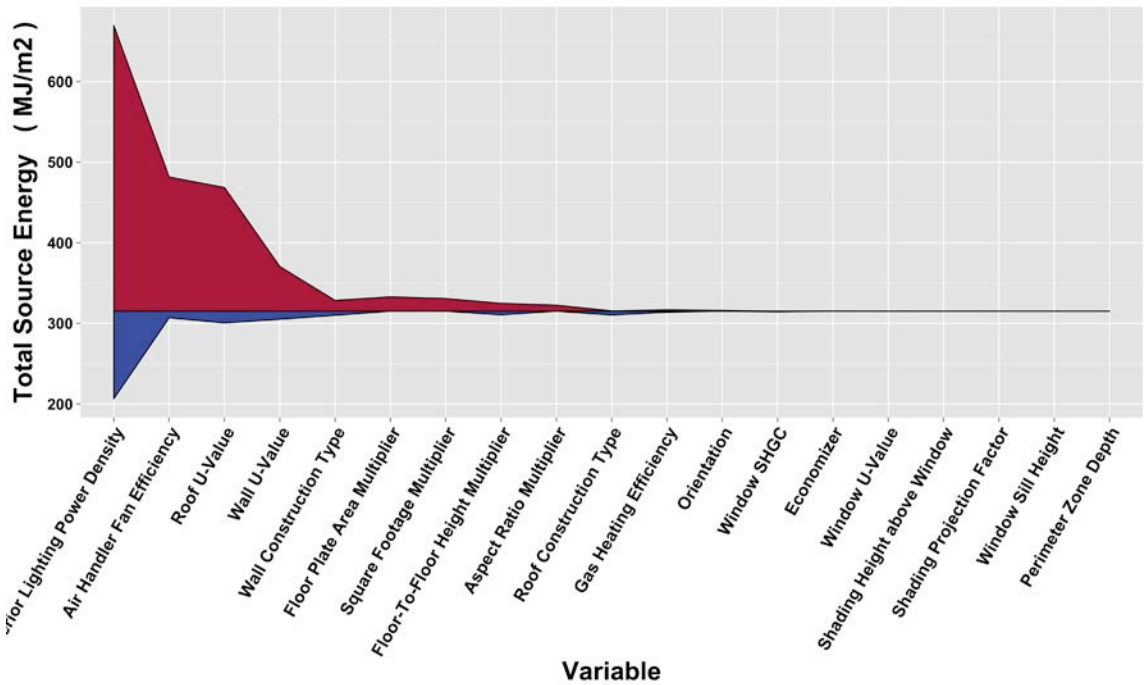


Location: Climate Zone 3A

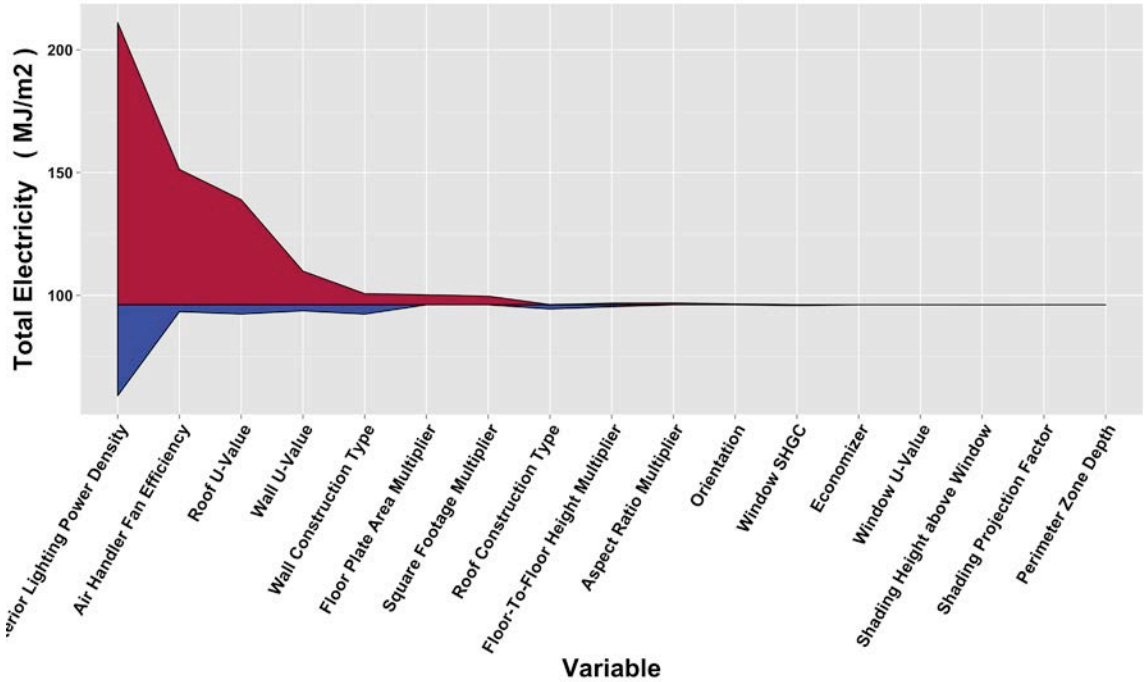
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	315.06	322.55
Floor Plate Area Multiplier	24750	49500	315.06	332.87
Square Footage Multiplier	14850	148500	315.06	330.74
Floor-To-Floor Height Multiplier	22.4	44.8	310.57	324.82
Perimeter Zone Depth	0	0	315.06	315.06
Floor R-Value for 24 in	0	0	315.06	315.06
Window-To-Wall Ratio	0	0.05	315.06	315.06
Window Sill Height	1	6	315.06	315.07
Window U-Value	0.12	1.22	314.96	315.06
Window SHGC	0.08	0.7	314.30	315.06
Window VLT	0.06	0.89	315.06	315.06
Wall Construction Type	masonry-on-masonry	wood-siding	310.00	328.46
Wall U-Value	0.03	0.58	305.05	370.54
Roof Construction Type	built-up concrete-deck	built-up wood-deck	310.38	315.46
Roof U-Value	0.01	0.2	300.52	468.52
Daylighting Control Setpoint	0	0	315.06	315.06
Interior Lighting Power Density	0.11	1.14	206.41	669.41
Shading Projection Factor	0	1	315.06	315.09

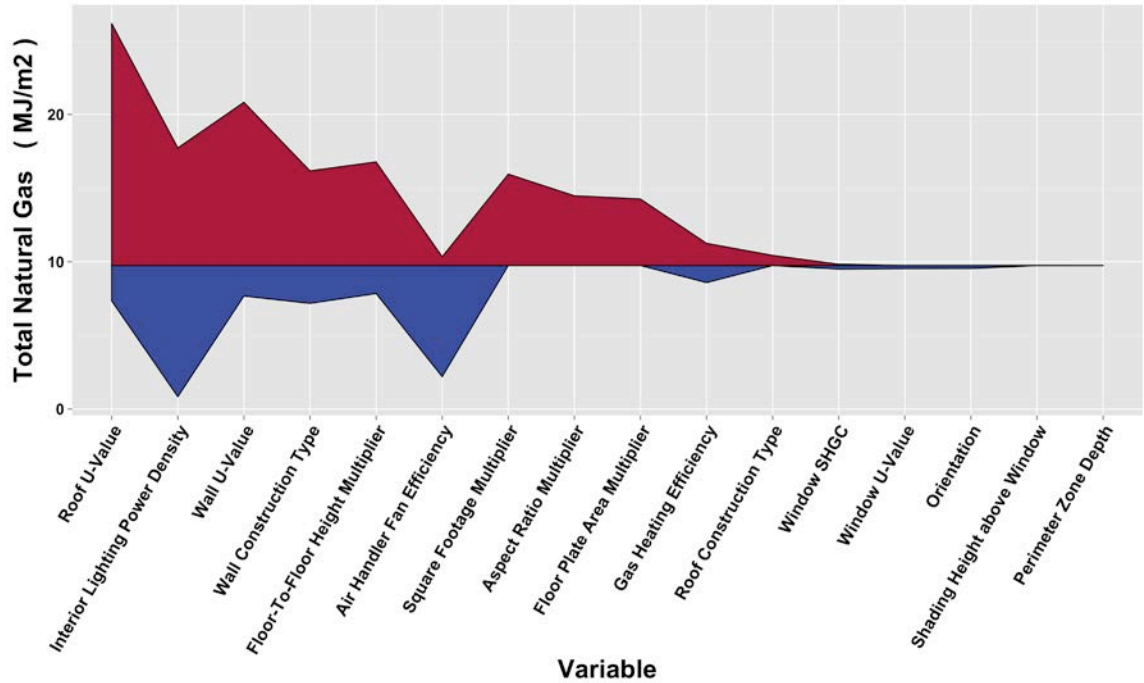
Shading Height above Window	0	2	315.00	315.07
District Chiller Cooling Efficiency	0.52	1.48	315.06	315.06
Air Handler Fan Efficiency	17.75	63.9	306.90	481.55
Packaged DX Cooling Efficiency	2.23	4.37	315.06	315.06
Gas Heating Efficiency	0.87	1.13	313.81	316.71
Terminal DX Cooling Efficiency	0.68	1.32	315.06	315.06
Terminal Furnace Heating Efficiency	0.87	1.13	315.06	315.06
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	315.06	315.06
Water Heater Energy Factor	1	99	315.06	315.06
Economizer	false	true	315.06	315.23
Fan Control	cav	false	315.06	315.06
Orientation	0	359	315.06	316.04



Total Electricity



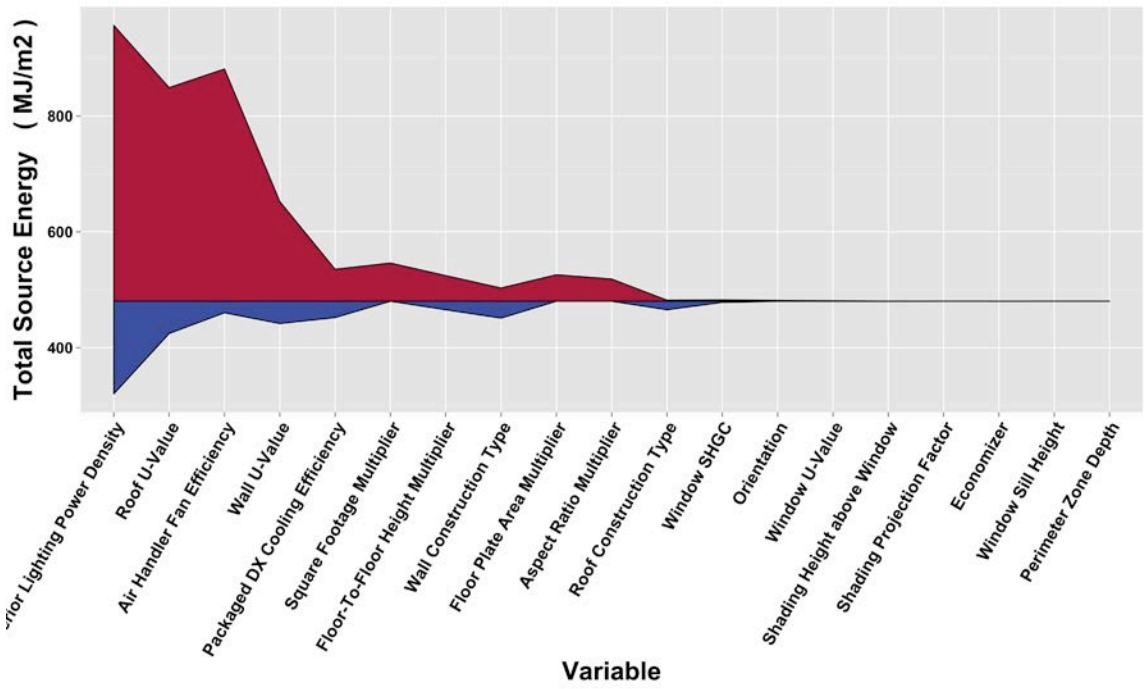
Total Natural Gas



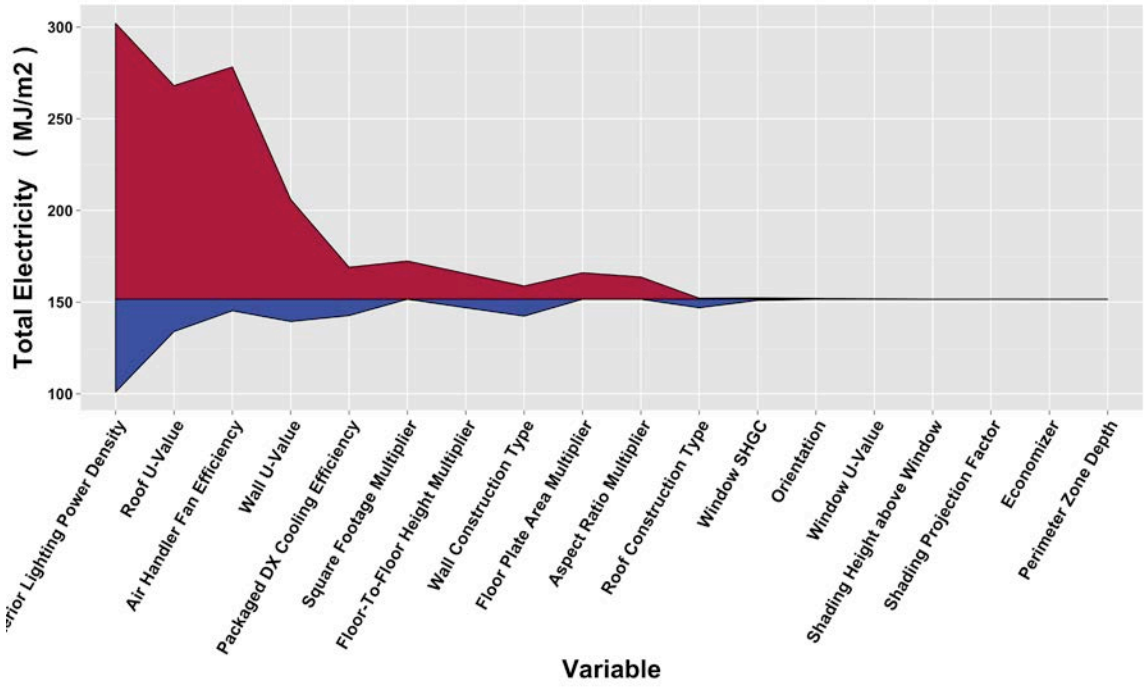
Location: Climate Zone 3B

Total Source Energy

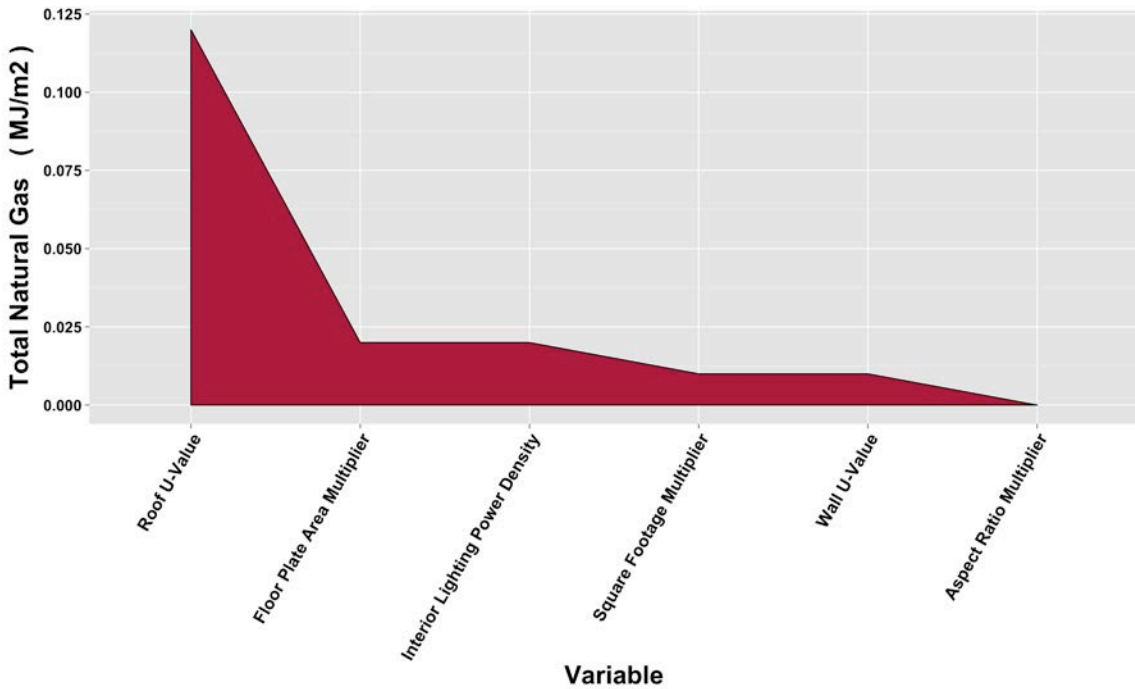
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	480.11	518.49
Floor Plate Area Multiplier	24750	49500	480.11	525.84
Square Footage Multiplier	14850	148500	480.11	546.09
Floor-To-Floor Height Multiplier	22.4	44.8	465.40	524.38
Perimeter Zone Depth	0	0	480.11	480.11
Floor R-Value for 24 in	0	0	480.11	480.11
Window-To-Wall Ratio	0	0.05	480.11	480.11
Window Sill Height	1	6	480.11	480.12
Window U-Value	0.12	1.22	480.04	480.71
Window SHGC	0.08	0.7	478.20	482.39
Window VLT	0.06	0.89	480.11	480.11
Wall Construction Type	masonry-on-masonry	wood-siding	450.96	502.97
Wall U-Value	0.03	0.58	441.57	652.31
Roof Construction Type	built-up concrete-deck	built-up wood-deck	465.40	481.92
Roof U-Value	0.01	0.2	424.34	849.06
Daylighting Control Setpoint	0	0	480.11	480.11
Interior Lighting Power Density	0.11	1.14	320.15	956.53
Shading Projection Factor	0	1	480.11	480.20
Shading Height above Window	0	2	479.91	480.13
District Chiller Cooling Efficiency	0.52	1.48	480.11	480.11
Air Handler Fan Efficiency	17.75	63.9	460.23	881.21
Packaged DX Cooling Efficiency	2.23	4.37	451.90	535.36
Gas Heating Efficiency	0.87	1.13	480.11	480.11
Terminal DX Cooling Efficiency	0.68	1.32	480.11	480.11
Terminal Furnace Heating Efficiency	0.87	1.13	480.11	480.11
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	480.11	480.11
Water Heater Energy Factor	1	99	480.11	480.11
Economizer	false	true	480.06	480.11
Fan Control	cav	false	480.11	480.11
Orientation	0	359	480.10	481.53



Total Electricity



Total Natural Gas

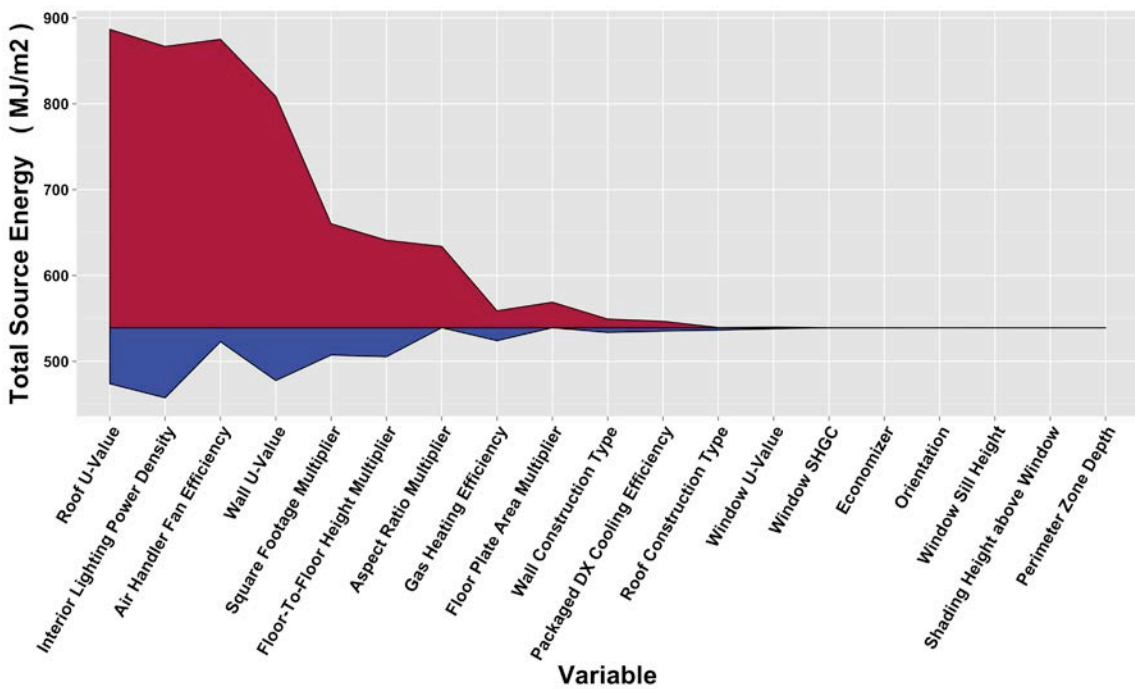


Location: Climate Zone 3C

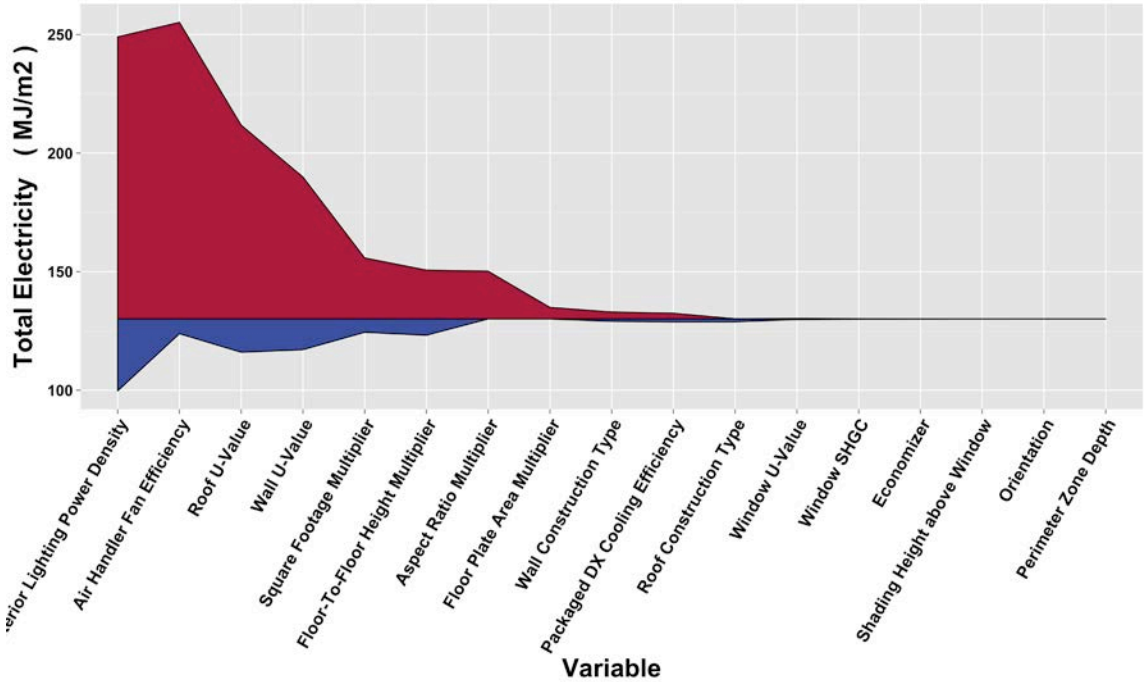
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	539.22	634.02
Floor Plate Area Multiplier	24750	49500	539.22	569.04
Square Footage Multiplier	14850	148500	507.44	660.38
Floor-To-Floor Height Multiplier	22.4	44.8	505.43	641.22
Perimeter Zone Depth	0	0	539.22	539.22
Floor R-Value for 24 in	0	0	539.22	539.22
Window-To-Wall Ratio	0	0.05	539.22	539.22
Window Sill Height	1	6	539.22	539.24
Window U-Value	0.12	1.22	538.05	540.02
Window SHGC	0.08	0.7	539.05	539.35
Window VLT	0.06	0.89	539.22	539.22
Wall Construction Type	masonry-on-masonry	wood-siding	533.70	549.37
Wall U-Value	0.03	0.58	477.69	808.65
Roof Construction Type	built-up concrete-deck	built-up wood-deck	536.47	539.52
Roof U-Value	0.01	0.2	473.99	886.72
Daylighting Control Setpoint	0	0	539.22	539.22
Interior Lighting Power Density	0.11	1.14	457.59	866.83
Shading Projection Factor	0	1	539.22	539.22

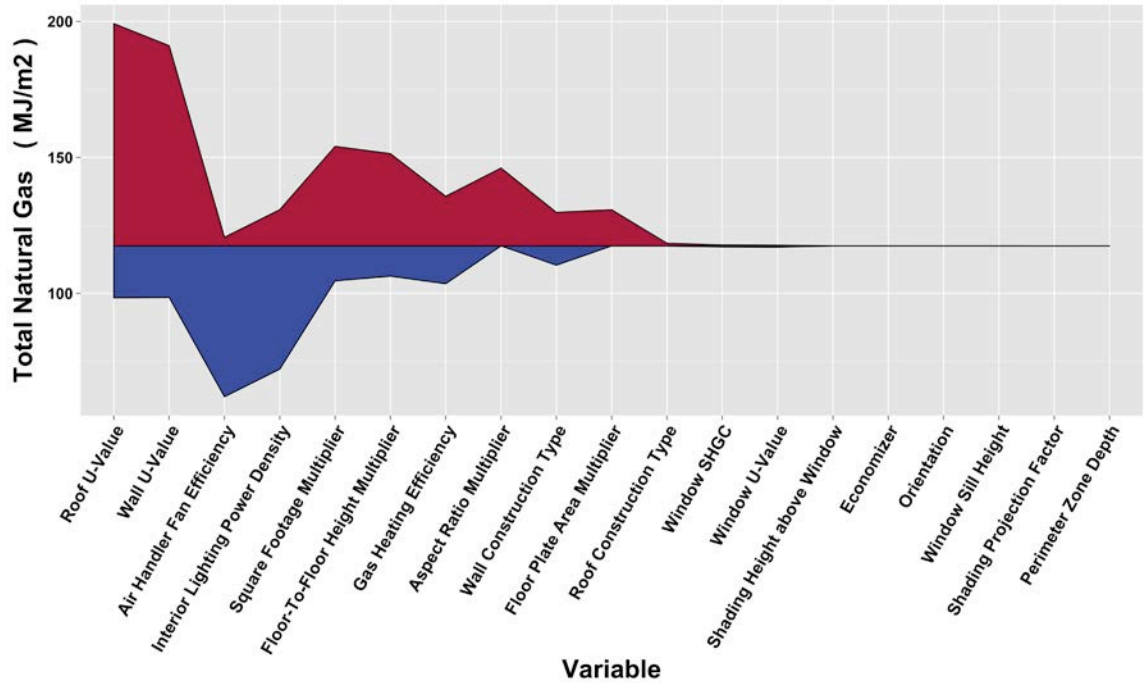
Shading Height above Window	0	2	539.21	539.22
District Chiller Cooling Efficiency	0.52	1.48	539.22	539.22
Air Handler Fan Efficiency	17.75	63.9	522.95	875.19
Packaged DX Cooling Efficiency	2.23	4.37	535.34	546.80
Gas Heating Efficiency	0.87	1.13	524.13	559.00
Terminal DX Cooling Efficiency	0.68	1.32	539.22	539.22
Terminal Furnace Heating Efficiency	0.87	1.13	539.22	539.22
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	539.22	539.22
Water Heater Energy Factor	1	99	539.22	539.22
Economizer	false	true	539.14	539.22
Fan Control	cav	false	539.22	539.22
Orientation	0	359	539.22	539.25



Total Electricity



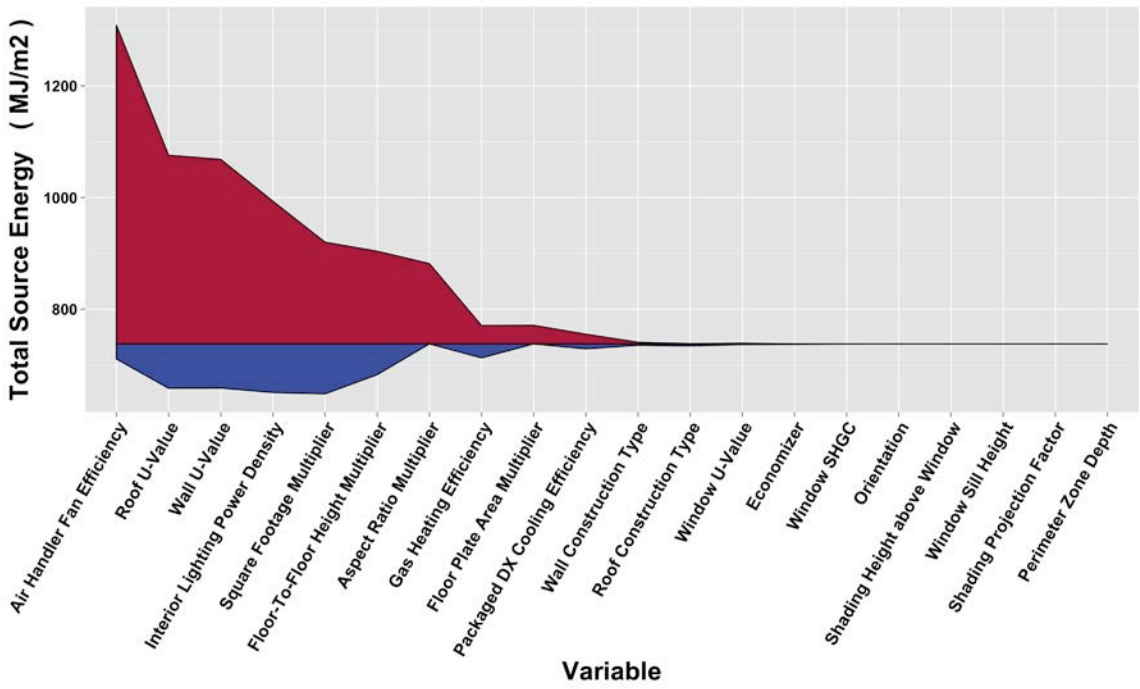
Total Natural Gas



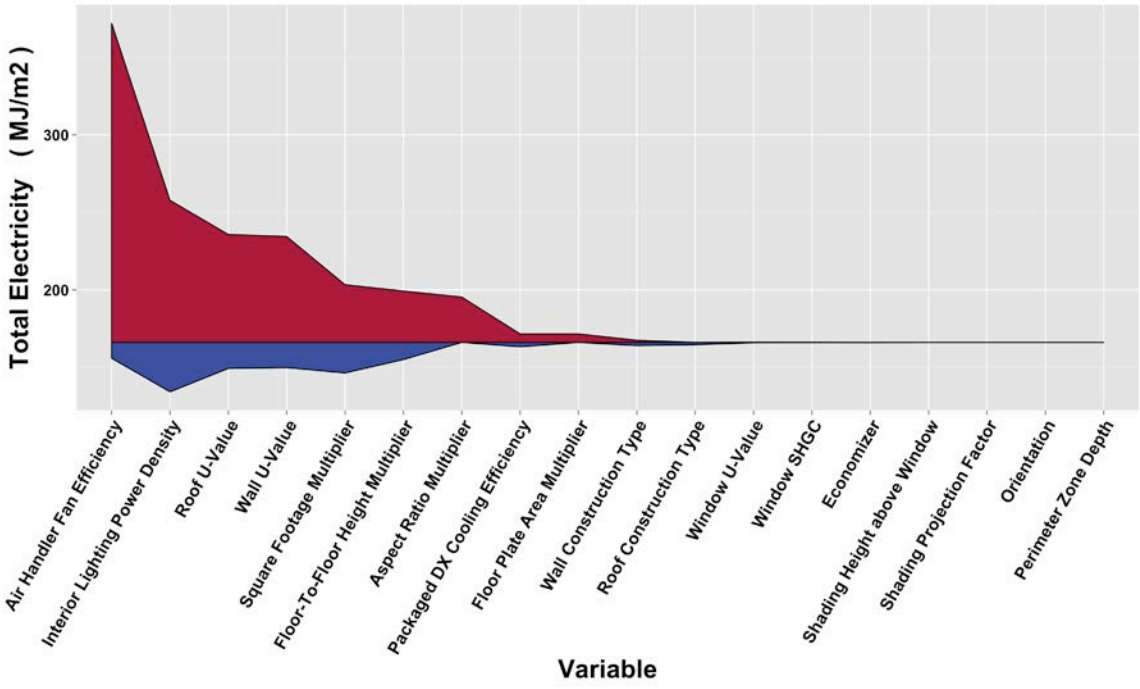
Location: Climate Zone 4A

Total Source Energy

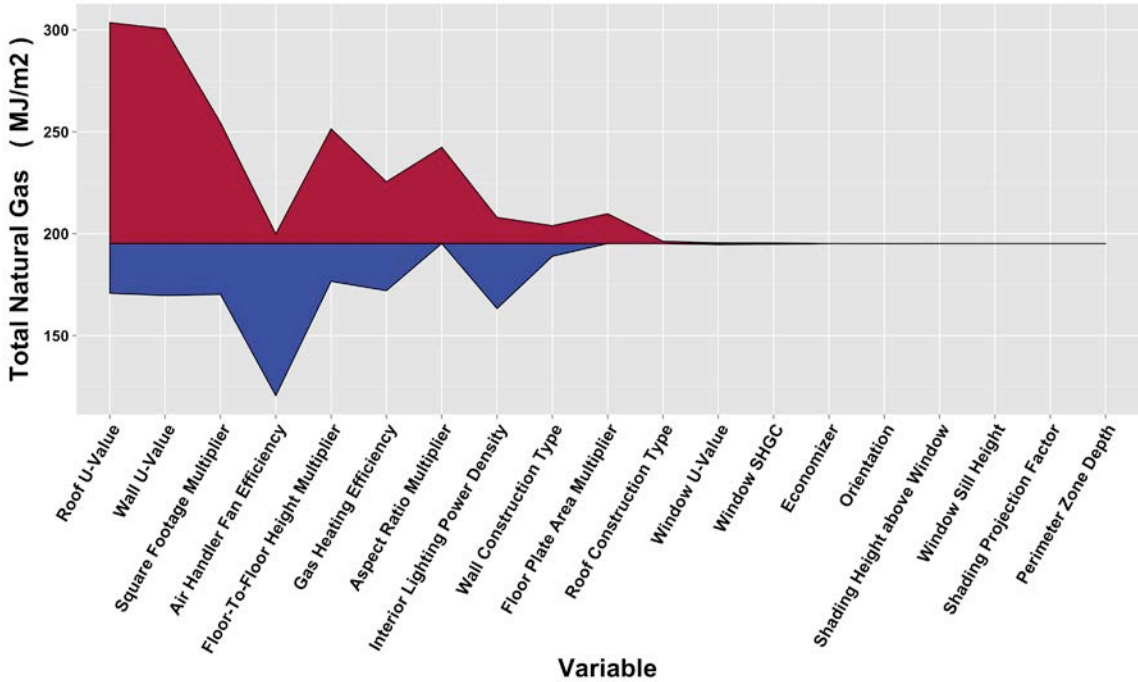
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	737.78	881.74
Floor Plate Area Multiplier	24750	49500	737.78	771.02
Square Footage Multiplier	14850	148500	648.26	920.10
Floor-To-Floor Height Multiplier	22.4	44.8	682.64	903.79
Perimeter Zone Depth	0	0	737.78	737.78
Floor R-Value for 24 in	0	0	737.78	737.78
Window-To-Wall Ratio	0	0.05	737.78	737.78
Window Sill Height	1	6	737.78	737.80
Window U-Value	0.12	1.22	736.43	738.88
Window SHGC	0.08	0.7	737.69	737.87
Window VLT	0.06	0.89	737.78	737.78
Wall Construction Type	masonry-on-masonry	wood-siding	735.38	740.75
Wall U-Value	0.03	0.58	658.70	1068.40
Roof Construction Type	built-up concrete-deck	built-up wood-deck	734.33	738.17
Roof U-Value	0.01	0.2	658.16	1075.85
Daylighting Control Setpoint	0	0	737.78	737.78
Interior Lighting Power Density	0.11	1.14	650.71	993.47
Shading Projection Factor	0	1	737.78	737.79
Shading Height above Window	0	2	737.75	737.78
District Chiller Cooling Efficiency	0.52	1.48	737.78	737.78
Air Handler Fan Efficiency	17.75	63.9	710.62	1308.50
Packaged DX Cooling Efficiency	2.23	4.37	728.87	755.23
Gas Heating Efficiency	0.87	1.13	712.70	770.65
Terminal DX Cooling Efficiency	0.68	1.32	737.78	737.78
Terminal Furnace Heating Efficiency	0.87	1.13	737.78	737.78
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	737.78	737.78
Water Heater Energy Factor	1	99	737.78	737.78
Economizer	false	true	737.14	737.78
Fan Control	cav	false	737.78	737.78
Orientation	0	359	737.76	737.84



Total Electricity



Total Natural Gas

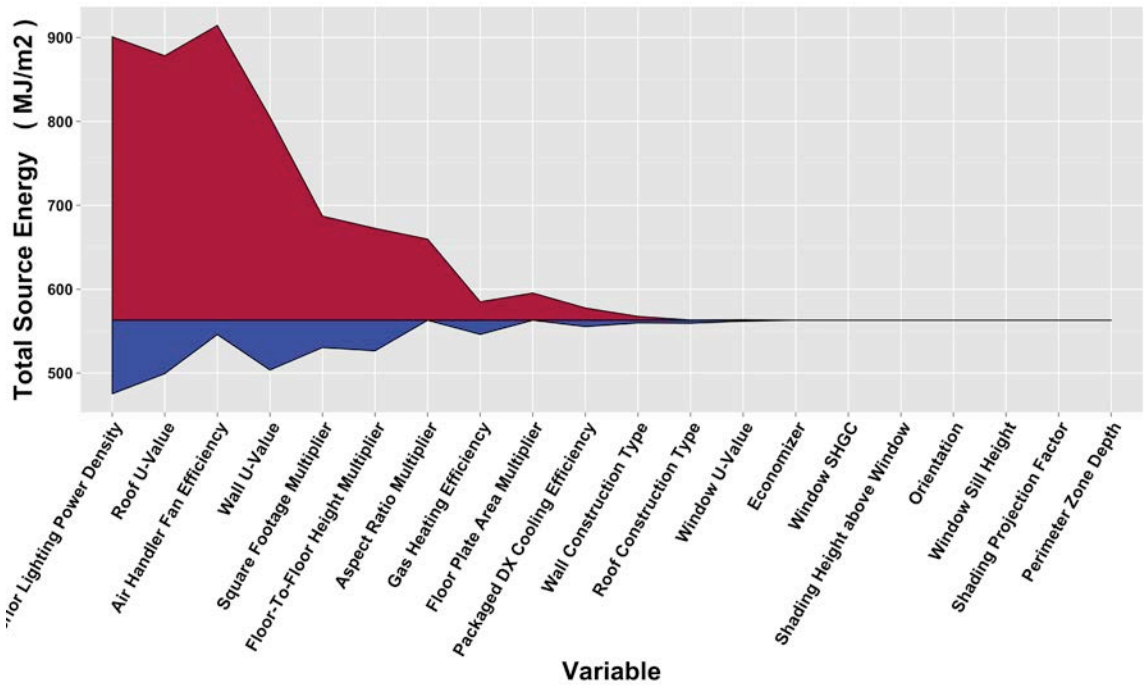


Location: Climate Zone 4B

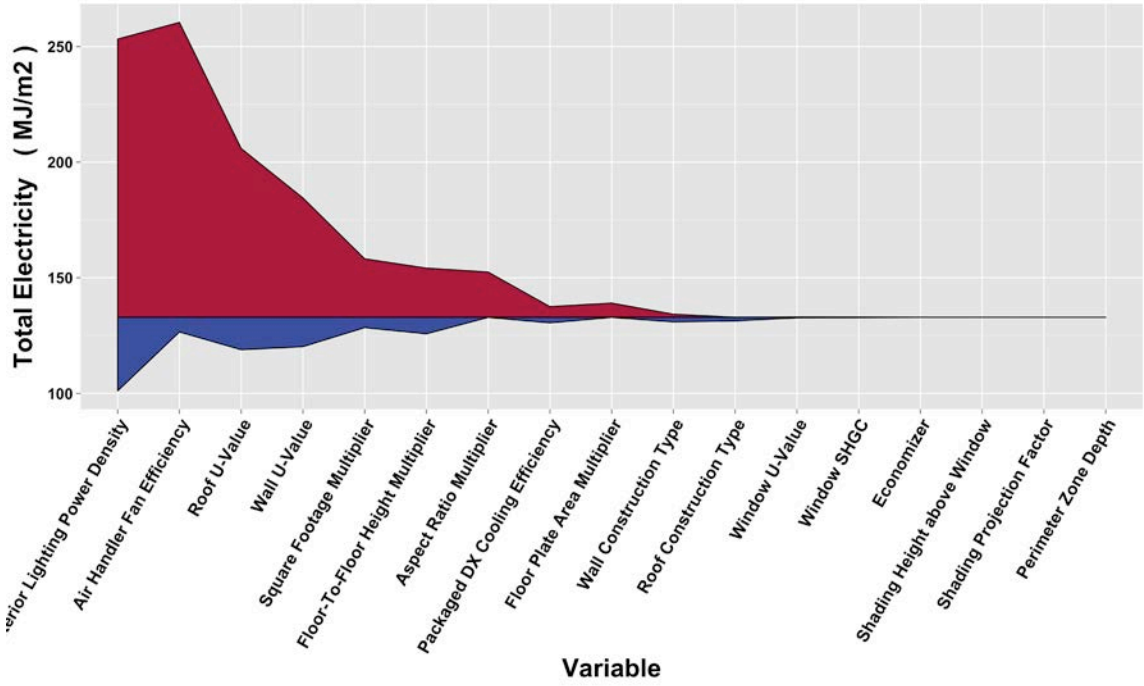
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	562.90	659.68
Floor Plate Area Multiplier	24750	49500	562.90	595.44
Square Footage Multiplier	14850	148500	530.40	687.09
Floor-To-Floor Height Multiplier	22.4	44.8	526.52	672.58
Perimeter Zone Depth	0	0	562.90	562.90
Floor R-Value for 24 in	0	0	562.90	562.90
Window-To-Wall Ratio	0	0.05	562.90	562.90
Window Sill Height	1	6	562.90	562.92
Window U-Value	0.12	1.22	561.88	563.71
Window SHGC	0.08	0.7	562.85	562.94
Window VLT	0.06	0.89	562.90	562.90
Wall Construction Type	masonry-on-masonry	wood-siding	559.74	567.57
Wall U-Value	0.03	0.58	503.63	805.26
Roof Construction Type	built-up concrete-deck	built-up wood-deck	559.30	563.28
Roof U-Value	0.01	0.2	499.29	878.27
Daylighting Control Setpoint	0	0	562.90	562.90
Interior Lighting Power Density	0.11	1.14	475.21	900.93
Shading Projection Factor	0	1	562.90	562.91

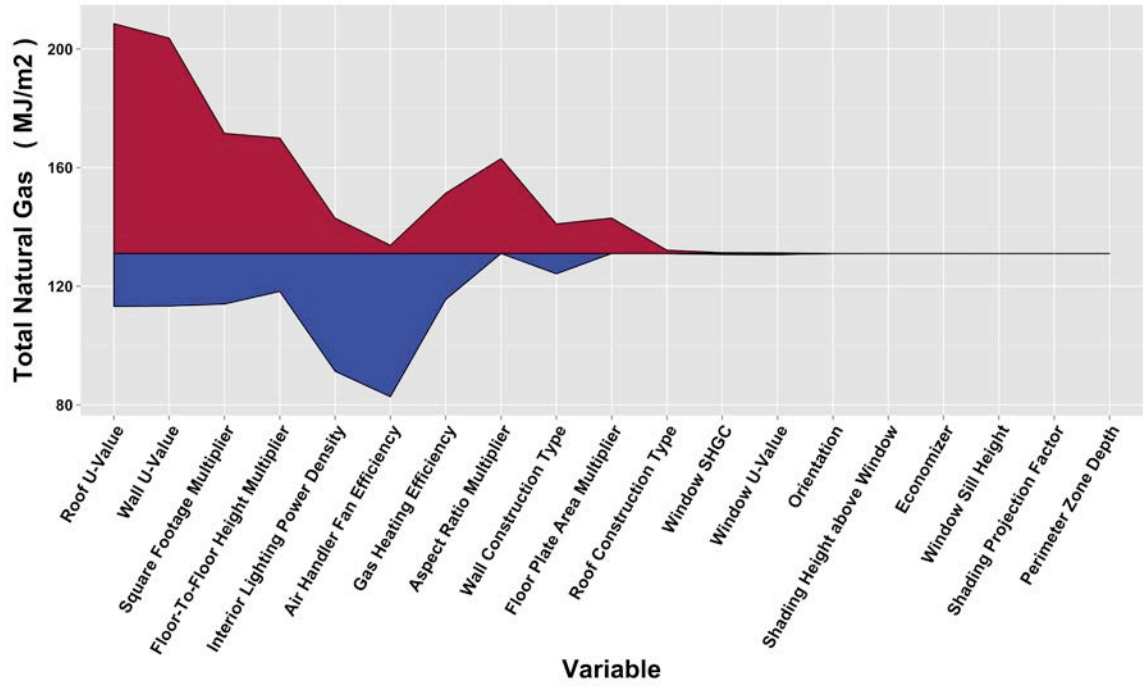
Shading Height above Window	0	2	562.87	562.90
District Chiller Cooling Efficiency	0.52	1.48	562.90	562.90
Air Handler Fan Efficiency	17.75	63.9	545.91	914.50
Packaged DX Cooling Efficiency	2.23	4.37	555.38	577.63
Gas Heating Efficiency	0.87	1.13	546.06	584.97
Terminal DX Cooling Efficiency	0.68	1.32	562.90	562.90
Terminal Furnace Heating Efficiency	0.87	1.13	562.90	562.90
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	562.90	562.90
Water Heater Energy Factor	1	99	562.90	562.90
Economizer	false	true	562.90	563.01
Fan Control	cav	false	562.90	562.90
Orientation	0	359	562.89	562.92



Total Electricity



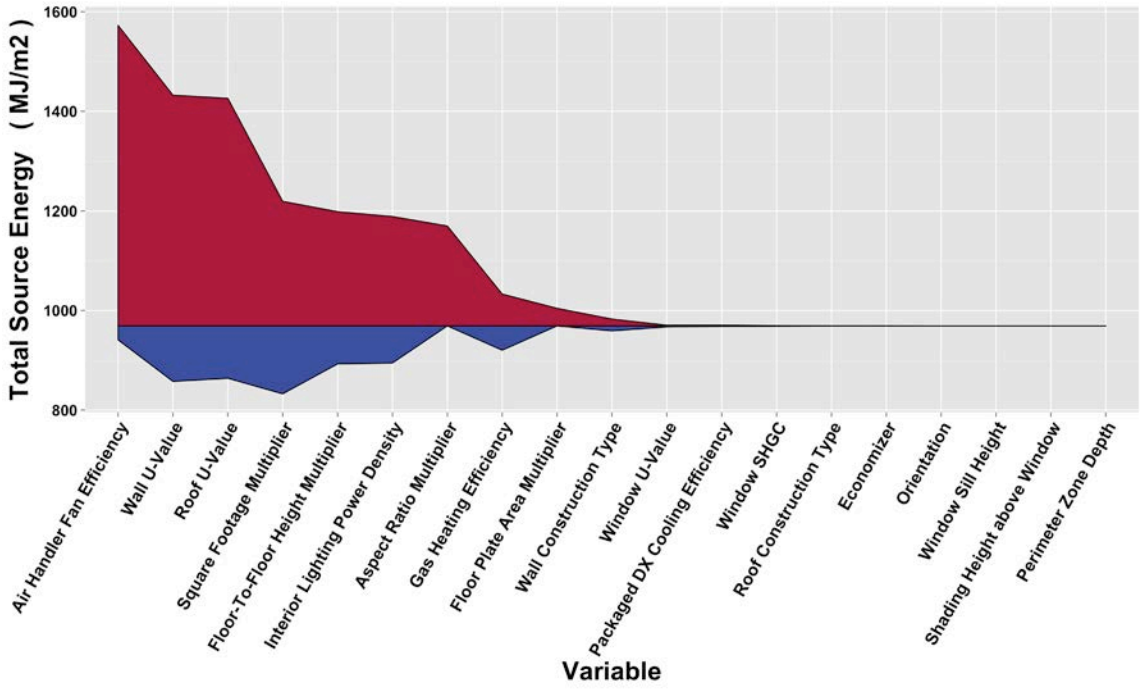
Total Natural Gas



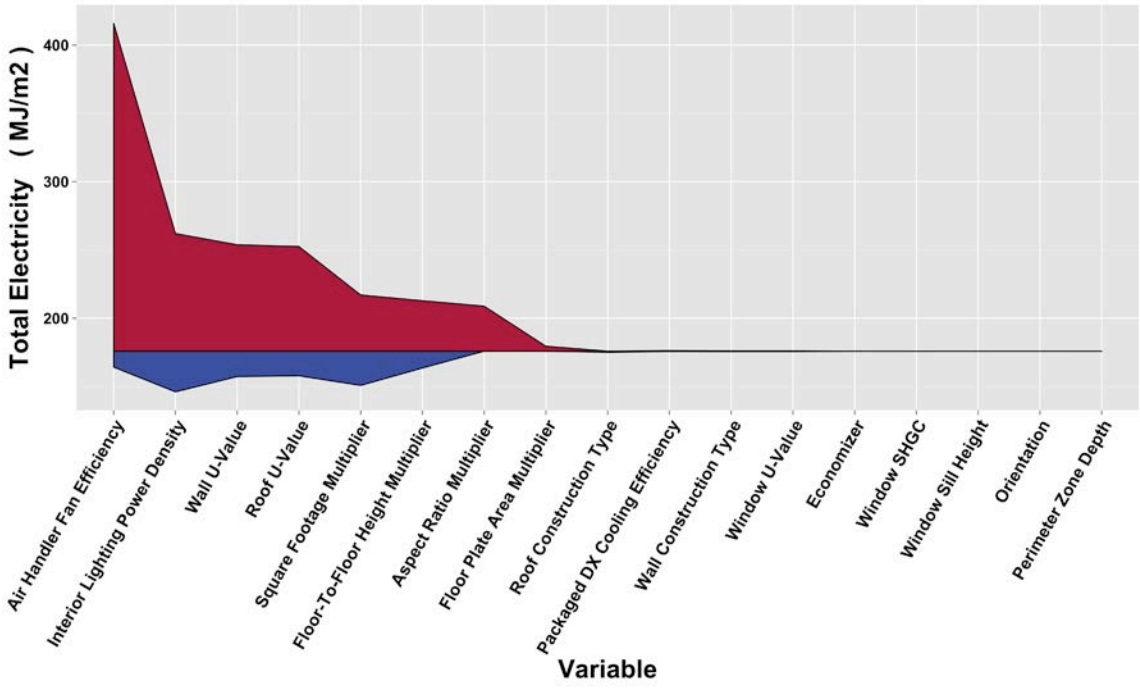
Location: Climate Zone 4C

Total Source Energy

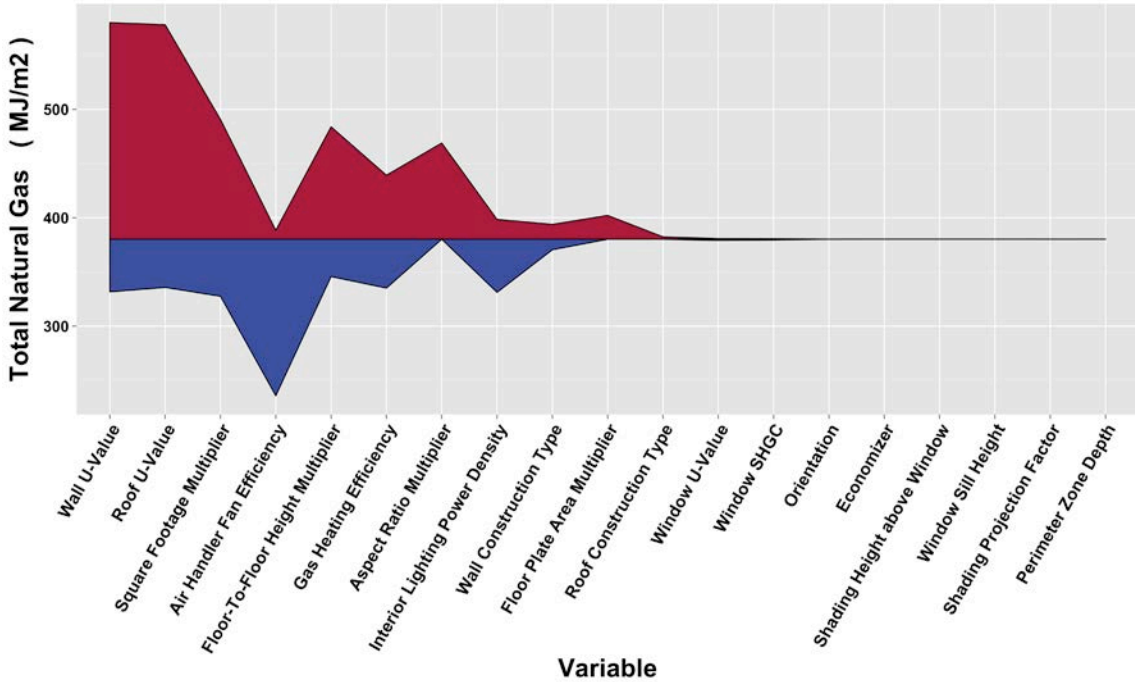
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	969.05	1169.78
Floor Plate Area Multiplier	24750	49500	969.05	1004.43
Square Footage Multiplier	14850	148500	832.56	1219.29
Floor-To-Floor Height Multiplier	22.4	44.8	892.69	1198.50
Perimeter Zone Depth	0	0	969.05	969.05
Floor R-Value for 24 in	0	0	969.05	969.05
Window-To-Wall Ratio	0	0.05	969.05	969.05
Window Sill Height	1	6	969.05	969.10
Window U-Value	0.12	1.22	967.02	970.48
Window SHGC	0.08	0.7	968.53	969.49
Window VLT	0.06	0.89	969.05	969.05
Wall Construction Type	masonry-on-masonry	wood-siding	959.01	982.85
Wall U-Value	0.03	0.58	857.55	1432.47
Roof Construction Type	built-up concrete-deck	built-up wood-deck	968.91	969.31
Roof U-Value	0.01	0.2	863.86	1426.23
Daylighting Control Setpoint	0	0	969.05	969.05
Interior Lighting Power Density	0.11	1.14	894.56	1188.72
Shading Projection Factor	0	1	969.05	969.05
Shading Height above Window	0	2	969.05	969.08
District Chiller Cooling Efficiency	0.52	1.48	969.05	969.05
Air Handler Fan Efficiency	17.75	63.9	940.95	1572.67
Packaged DX Cooling Efficiency	2.23	4.37	968.32	970.48
Gas Heating Efficiency	0.87	1.13	920.20	1033.09
Terminal DX Cooling Efficiency	0.68	1.32	969.05	969.05
Terminal Furnace Heating Efficiency	0.87	1.13	969.05	969.05
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	969.05	969.05
Water Heater Energy Factor	1	99	969.05	969.05
Economizer	false	true	969.05	969.29
Fan Control	cav	false	969.05	969.05
Orientation	0	359	969.01	969.10



Total Electricity



Total Natural Gas

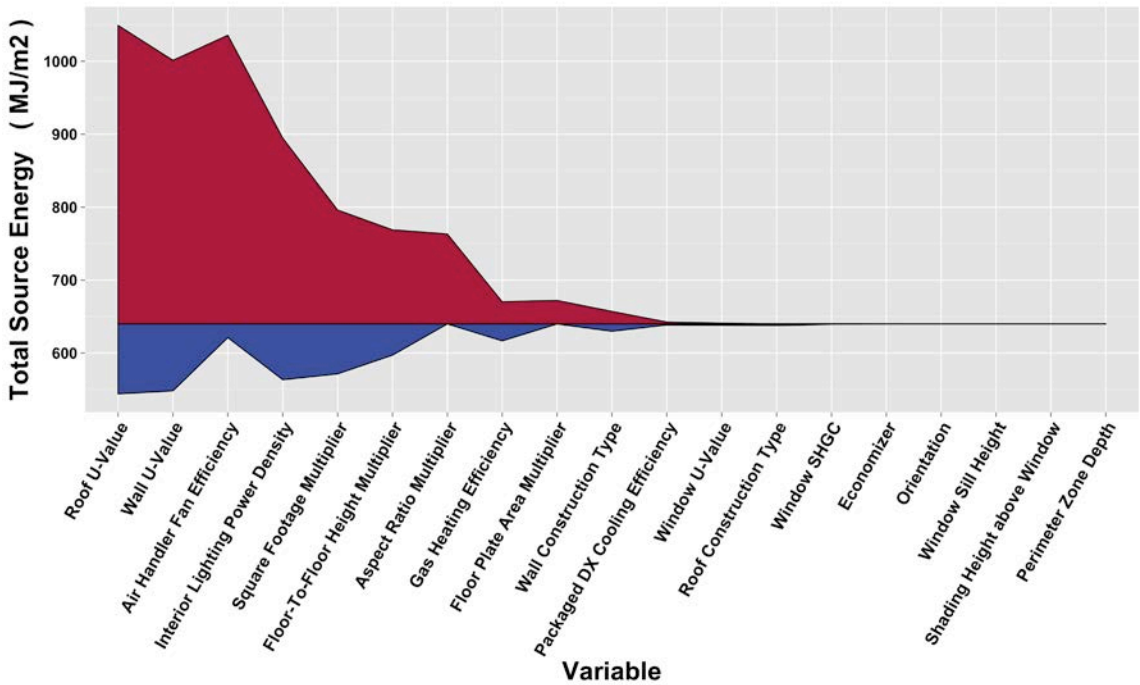


Location: Climate Zone 5A

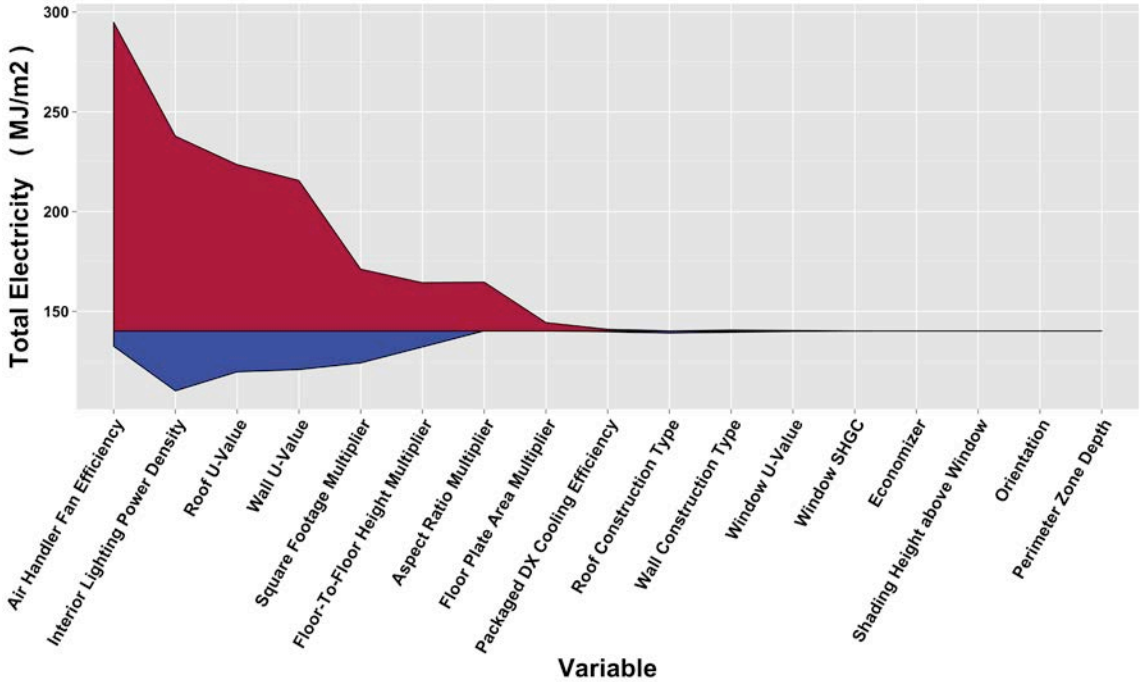
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	639.84	763.16
Floor Plate Area Multiplier	24750	49500	639.84	672.05
Square Footage Multiplier	14850	148500	571.40	796.08
Floor-To-Floor Height Multiplier	22.4	44.8	597.03	768.87
Perimeter Zone Depth	0	0	639.84	639.84
Floor R-Value for 24 in	0	0	639.84	639.84
Window-To-Wall Ratio	0	0.05	639.84	639.84
Window Sill Height	1	6	639.84	639.86
Window U-Value	0.12	1.22	638.21	640.88
Window SHGC	0.08	0.7	639.42	640.18
Window VLT	0.06	0.89	639.84	639.84
Wall Construction Type	masonry-on-masonry	wood-siding	629.80	657.00
Wall U-Value	0.03	0.58	548.12	1001.34
Roof Construction Type	built-up concrete-deck	built-up wood-deck	637.67	640.18
Roof U-Value	0.01	0.2	543.96	1049.26
Daylighting Control Setpoint	0	0	639.84	639.84
Interior Lighting Power Density	0.11	1.14	563.34	894.70
Shading Projection Factor	0	1	639.84	639.84

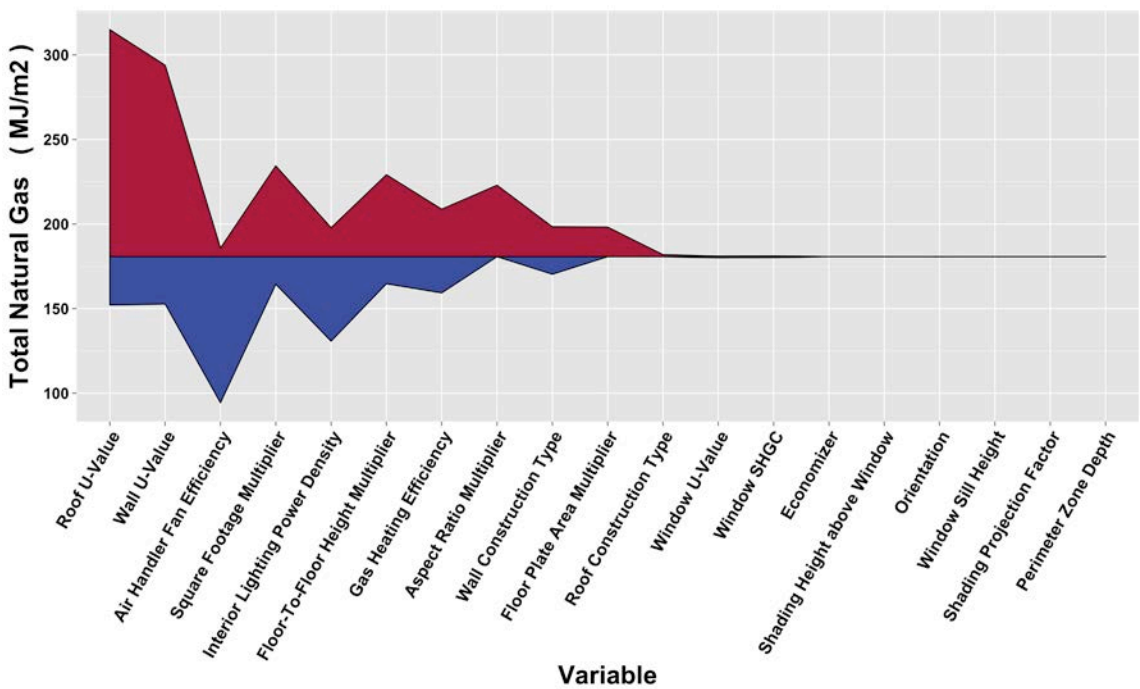
Shading Height above Window	0	2	639.84	639.85
District Chiller Cooling Efficiency	0.52	1.48	639.84	639.84
Air Handler Fan Efficiency	17.75	63.9	621.09	1035.79
Packaged DX Cooling Efficiency	2.23	4.37	638.51	642.44
Gas Heating Efficiency	0.87	1.13	616.62	670.27
Terminal DX Cooling Efficiency	0.68	1.32	639.84	639.84
Terminal Furnace Heating Efficiency	0.87	1.13	639.84	639.84
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	639.84	639.84
Water Heater Energy Factor	1	99	639.84	639.84
Economizer	false	true	639.84	639.95
Fan Control	cav	false	639.84	639.84
Orientation	0	359	639.81	639.84



Total Electricity



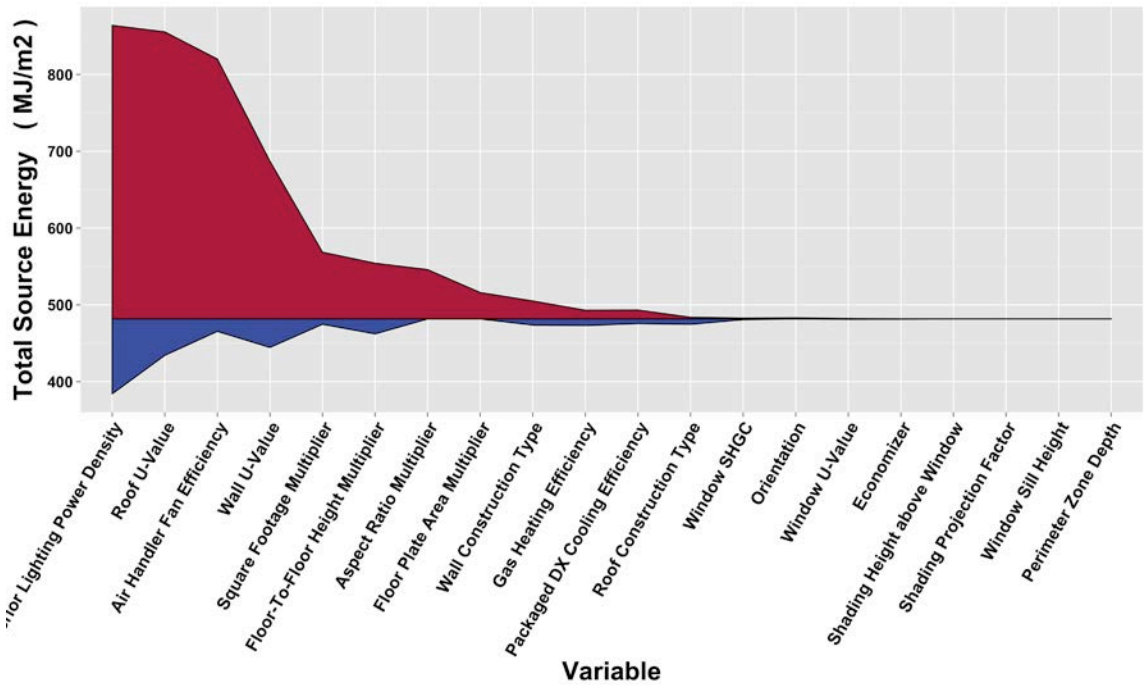
Total Natural Gas



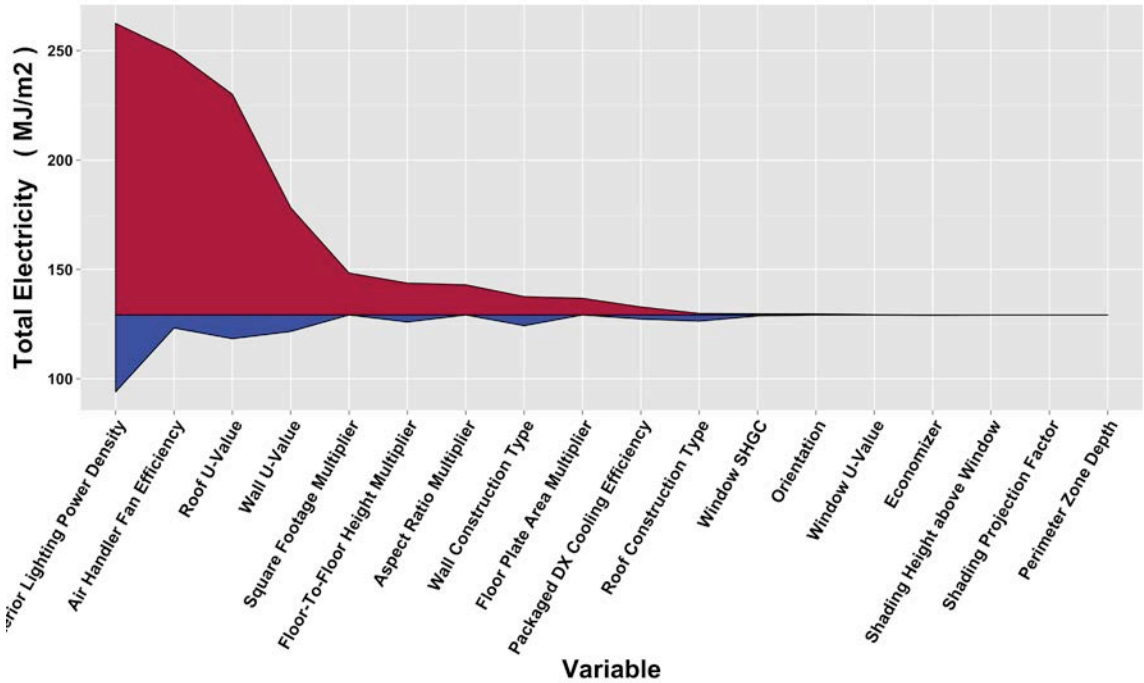
Location: Climate Zone 5B

Total Source Energy

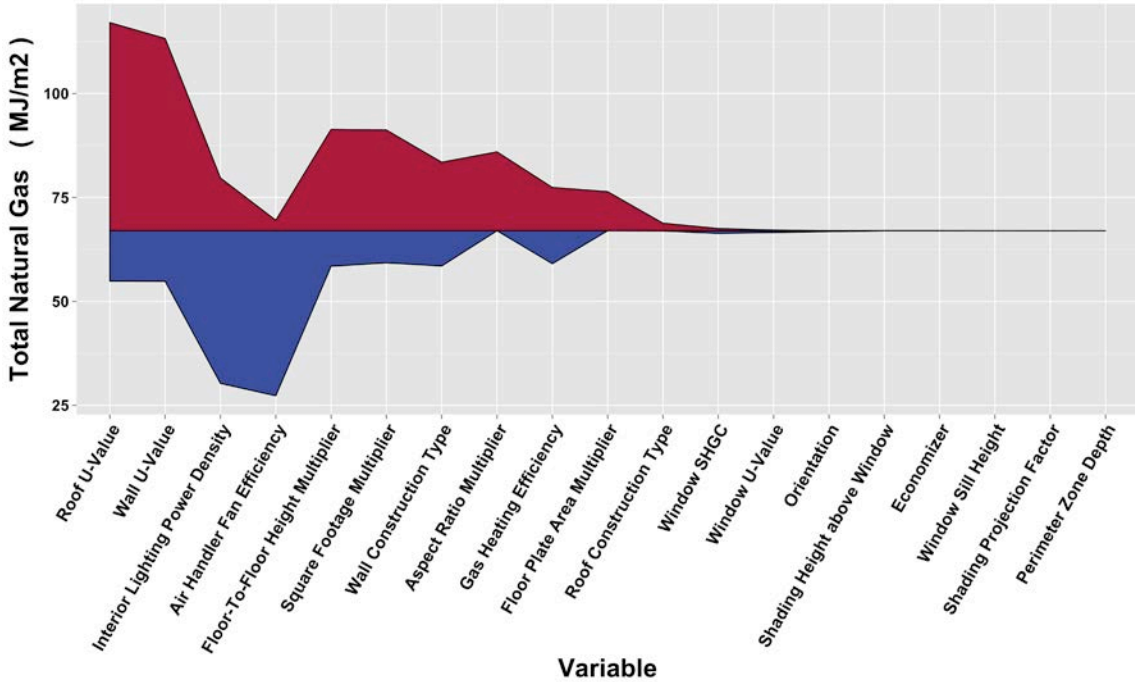
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	481.73	545.96
Floor Plate Area Multiplier	24750	49500	481.73	516.09
Square Footage Multiplier	14850	148500	474.77	568.67
Floor-To-Floor Height Multiplier	22.4	44.8	462.26	554.26
Perimeter Zone Depth	0	0	481.73	481.73
Floor R-Value for 24 in	0	0	481.73	481.73
Window-To-Wall Ratio	0	0.05	481.73	481.73
Window Sill Height	1	6	481.73	481.74
Window U-Value	0.12	1.22	481.25	482.27
Window SHGC	0.08	0.7	480.86	482.77
Window VLT	0.06	0.89	481.73	481.73
Wall Construction Type	masonry-on-masonry	wood-siding	473.77	505.12
Wall U-Value	0.03	0.58	444.63	687.17
Roof Construction Type	built-up concrete-deck	built-up wood-deck	474.73	483.88
Roof U-Value	0.01	0.2	434.26	855.54
Daylighting Control Setpoint	0	0	481.73	481.73
Interior Lighting Power Density	0.11	1.14	384.17	864.00
Shading Projection Factor	0	1	481.73	481.78
Shading Height above Window	0	2	481.63	481.73
District Chiller Cooling Efficiency	0.52	1.48	481.73	481.73
Air Handler Fan Efficiency	17.75	63.9	465.56	820.22
Packaged DX Cooling Efficiency	2.23	4.37	475.82	493.29
Gas Heating Efficiency	0.87	1.13	473.12	493.01
Terminal DX Cooling Efficiency	0.68	1.32	481.73	481.73
Terminal Furnace Heating Efficiency	0.87	1.13	481.73	481.73
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	481.73	481.73
Water Heater Energy Factor	1	99	481.73	481.73
Economizer	false	true	481.36	481.73
Fan Control	cav	false	481.73	481.73
Orientation	0	359	481.70	483.13



Total Electricity



Total Natural Gas

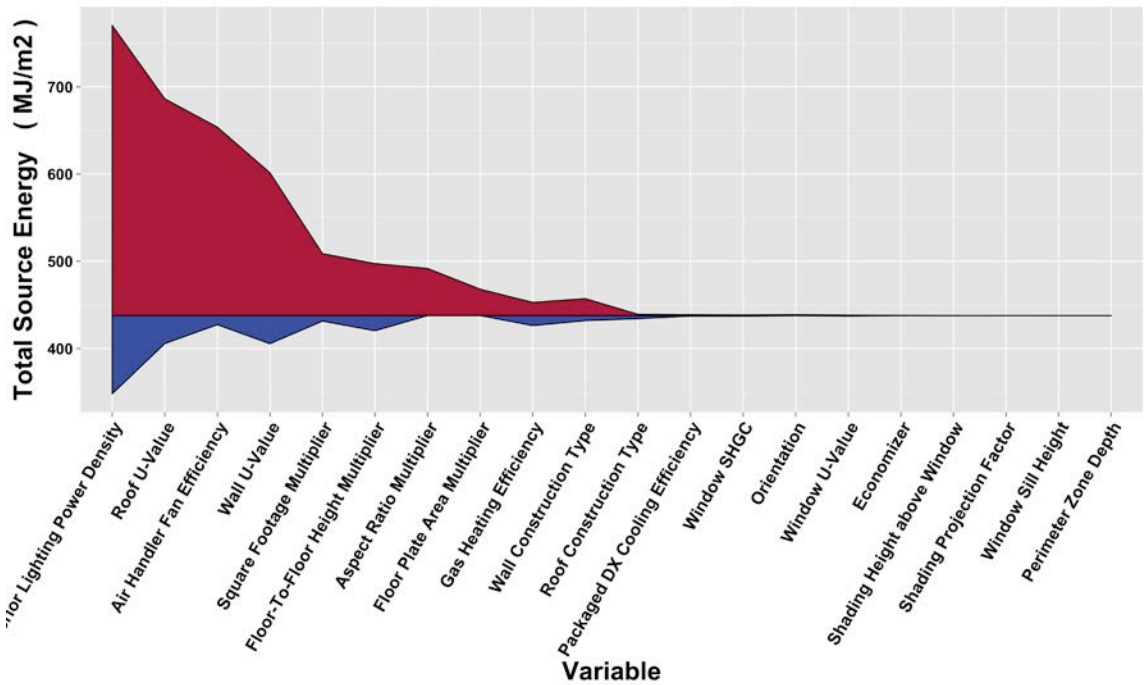


Location: Climate Zone 5C

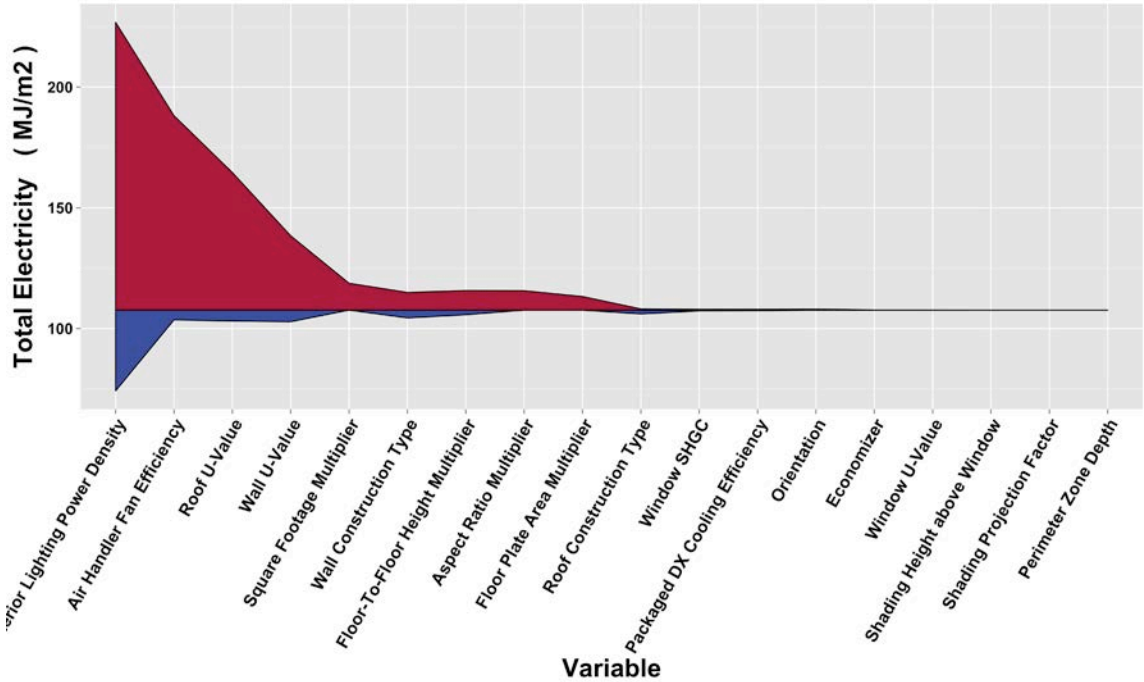
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	437.84	491.86
Floor Plate Area Multiplier	24750	49500	437.84	468.05
Square Footage Multiplier	14850	148500	431.49	508.83
Floor-To-Floor Height Multiplier	22.4	44.8	420.46	497.41
Perimeter Zone Depth	0	0	437.84	437.84
Floor R-Value for 24 in	0	0	437.84	437.84
Window-To-Wall Ratio	0	0.05	437.84	437.84
Window Sill Height	1	6	437.84	437.85
Window U-Value	0.12	1.22	437.41	438.25
Window SHGC	0.08	0.7	437.27	438.51
Window VLT	0.06	0.89	437.84	437.84
Wall Construction Type	masonry-on-masonry	wood-siding	432.05	457.27
Wall U-Value	0.03	0.58	405.60	601.54
Roof Construction Type	built-up concrete-deck	built-up wood-deck	434.29	439.31
Roof U-Value	0.01	0.2	405.72	686.32
Daylighting Control Setpoint	0	0	437.84	437.84
Interior Lighting Power Density	0.11	1.14	348.13	770.40
Shading Projection Factor	0	1	437.84	437.86

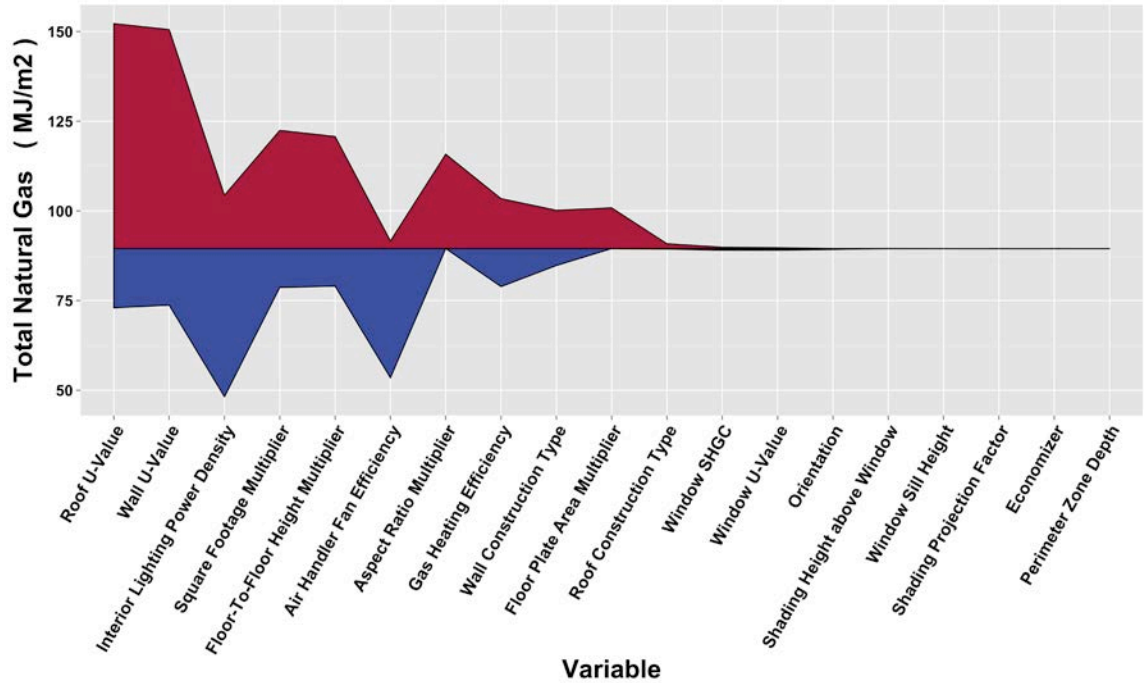
Shading Height above Window	0	2	437.79	437.84
District Chiller Cooling Efficiency	0.52	1.48	437.84	437.84
Air Handler Fan Efficiency	17.75	63.9	427.39	653.80
Packaged DX Cooling Efficiency	2.23	4.37	437.29	438.93
Gas Heating Efficiency	0.87	1.13	426.34	452.92
Terminal DX Cooling Efficiency	0.68	1.32	437.84	437.84
Terminal Furnace Heating Efficiency	0.87	1.13	437.84	437.84
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	437.84	437.84
Water Heater Energy Factor	1	99	437.84	437.84
Economizer	false	true	437.84	438.07
Fan Control	cav	false	437.84	437.84
Orientation	0	359	437.84	438.91



Total Electricity



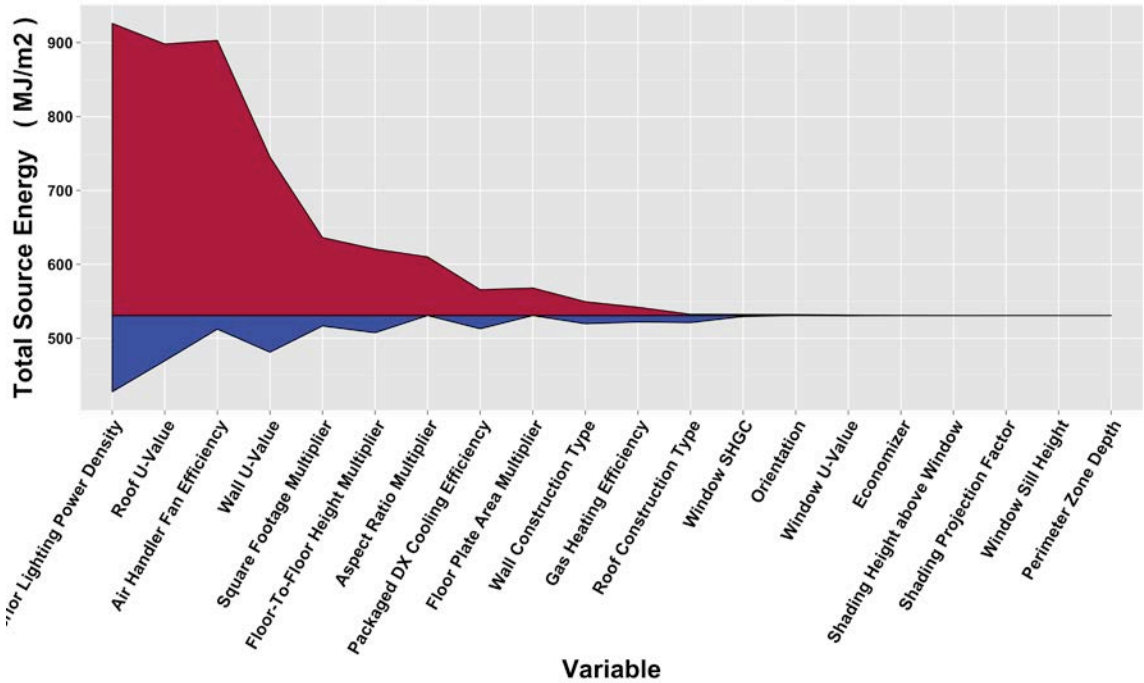
Total Natural Gas



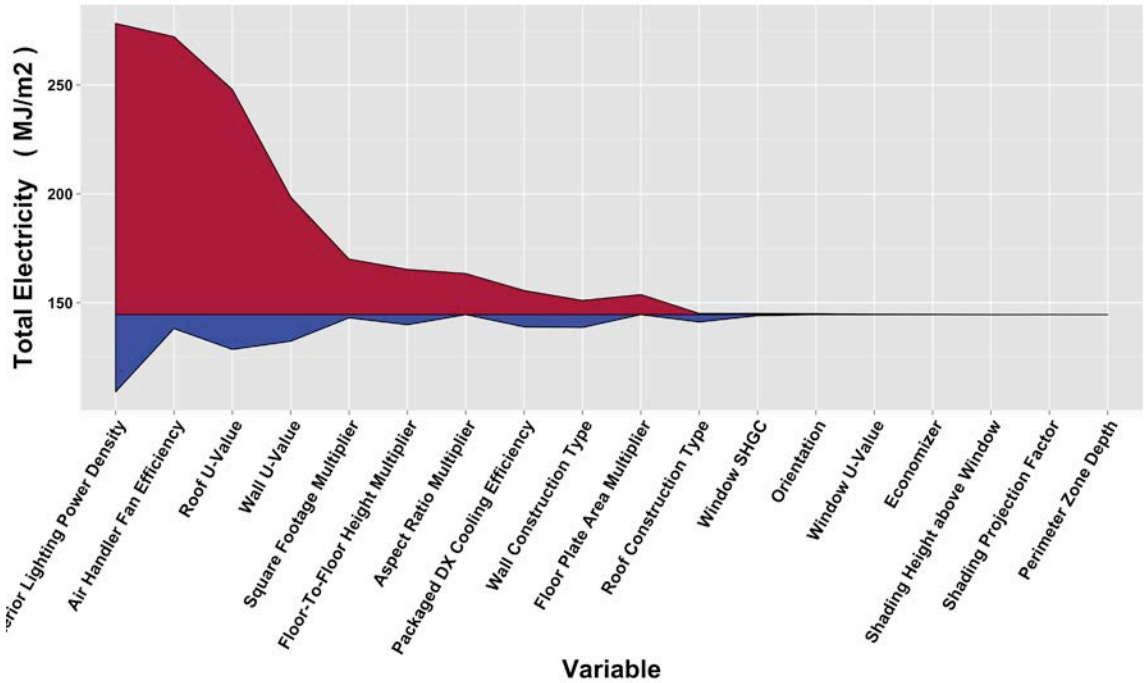
Location: Climate Zone 6A

Total Source Energy

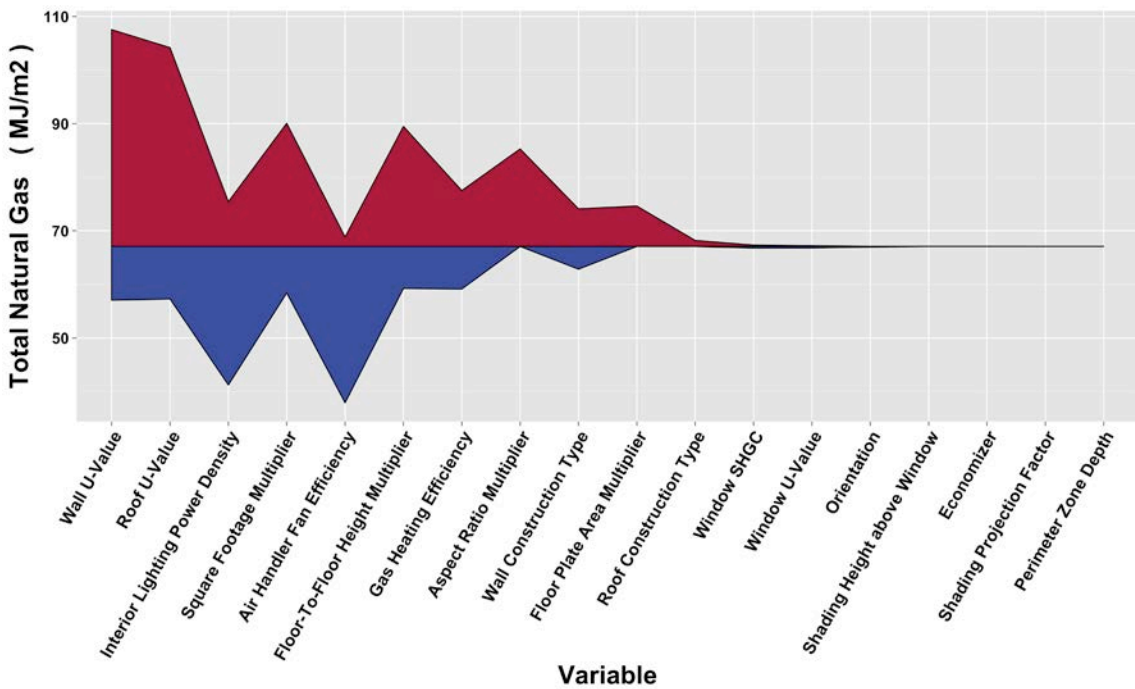
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	530.64	610.07
Floor Plate Area Multiplier	24750	49500	530.64	568.00
Square Footage Multiplier	14850	148500	516.54	636.24
Floor-To-Floor Height Multiplier	22.4	44.8	507.38	620.68
Perimeter Zone Depth	0	0	530.64	530.64
Floor R-Value for 24 in	0	0	530.64	530.64
Window-To-Wall Ratio	0	0.05	530.64	530.64
Window Sill Height	1	6	530.64	530.65
Window U-Value	0.12	1.22	530.20	531.31
Window SHGC	0.08	0.7	529.42	532.07
Window VLT	0.06	0.89	530.64	530.64
Wall Construction Type	masonry-on-masonry	wood-siding	519.54	549.44
Wall U-Value	0.03	0.58	481.04	745.47
Roof Construction Type	built-up concrete-deck	built-up wood-deck	521.09	532.42
Roof U-Value	0.01	0.2	469.33	898.26
Daylighting Control Setpoint	0	0	530.64	530.64
Interior Lighting Power Density	0.11	1.14	427.39	926.12
Shading Projection Factor	0	1	530.64	530.70
Shading Height above Window	0	2	530.51	530.65
District Chiller Cooling Efficiency	0.52	1.48	530.64	530.64
Air Handler Fan Efficiency	17.75	63.9	512.26	903.07
Packaged DX Cooling Efficiency	2.23	4.37	512.74	565.68
Gas Heating Efficiency	0.87	1.13	522.02	541.94
Terminal DX Cooling Efficiency	0.68	1.32	530.64	530.64
Terminal Furnace Heating Efficiency	0.87	1.13	530.64	530.64
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	530.64	530.64
Water Heater Energy Factor	1	99	530.64	530.64
Economizer	false	true	530.64	530.96
Fan Control	cav	false	530.64	530.64
Orientation	0	359	530.61	531.95



Total Electricity



Total Natural Gas

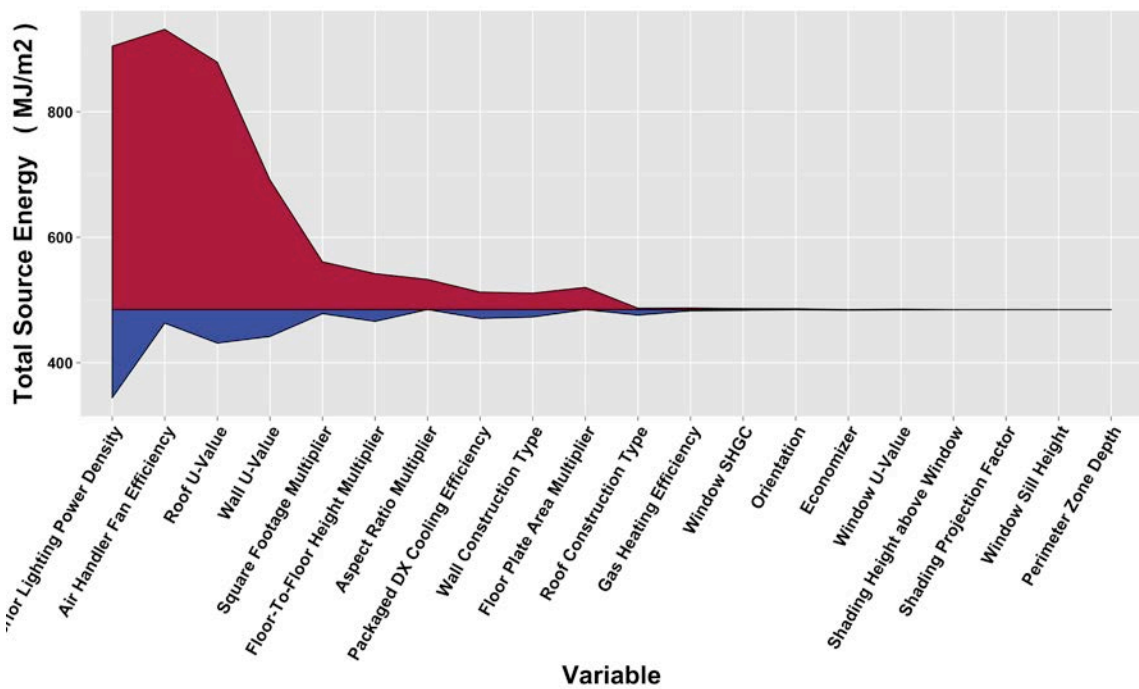


Location: Climate Zone 6B

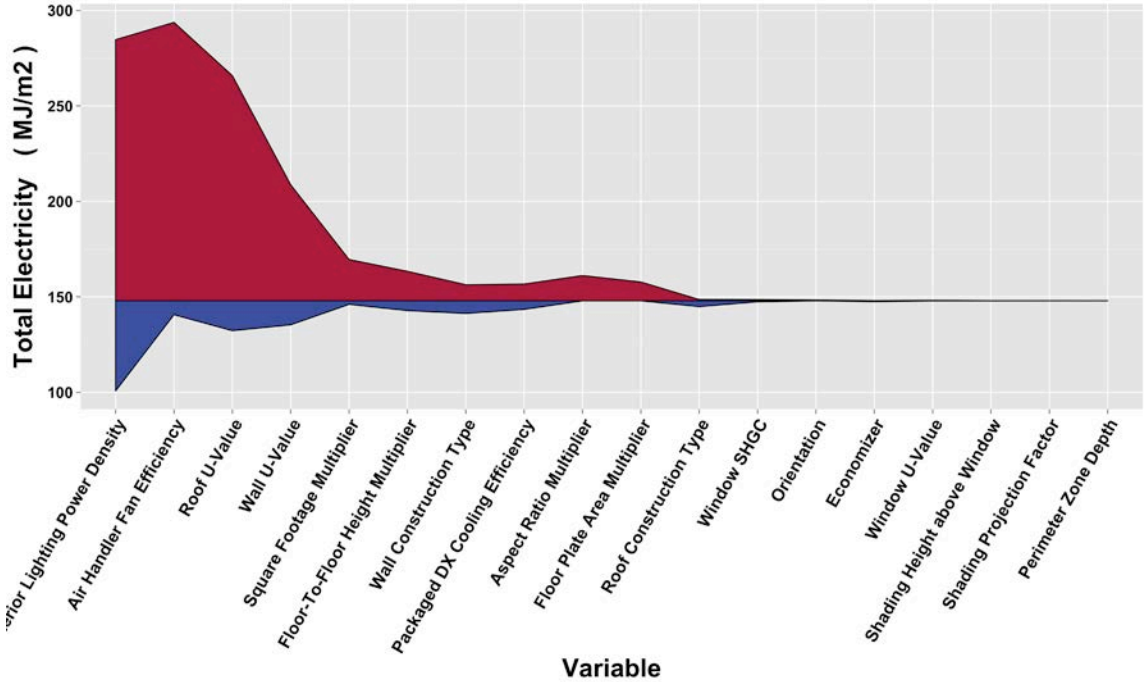
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	484.83	532.85
Floor Plate Area Multiplier	24750	49500	484.83	520.25
Square Footage Multiplier	14850	148500	478.33	560.96
Floor-To-Floor Height Multiplier	22.4	44.8	465.98	542.16
Perimeter Zone Depth	0	0	484.83	484.83
Floor R-Value for 24 in	0	0	484.83	484.83
Window-To-Wall Ratio	0	0.05	484.83	484.83
Window Sill Height	1	6	484.83	484.84
Window U-Value	0.12	1.22	484.50	485.47
Window SHGC	0.08	0.7	483.50	486.43
Window VLT	0.06	0.89	484.83	484.83
Wall Construction Type	masonry-on-masonry	wood-siding	472.99	511.05
Wall U-Value	0.03	0.58	441.93	691.54
Roof Construction Type	built-up concrete-deck	built-up wood-deck	475.99	487.07
Roof U-Value	0.01	0.2	431.40	879.08
Daylighting Control Setpoint	0	0	484.83	484.83
Interior Lighting Power Density	0.11	1.14	344.12	904.72
Shading Projection Factor	0	1	484.83	484.90

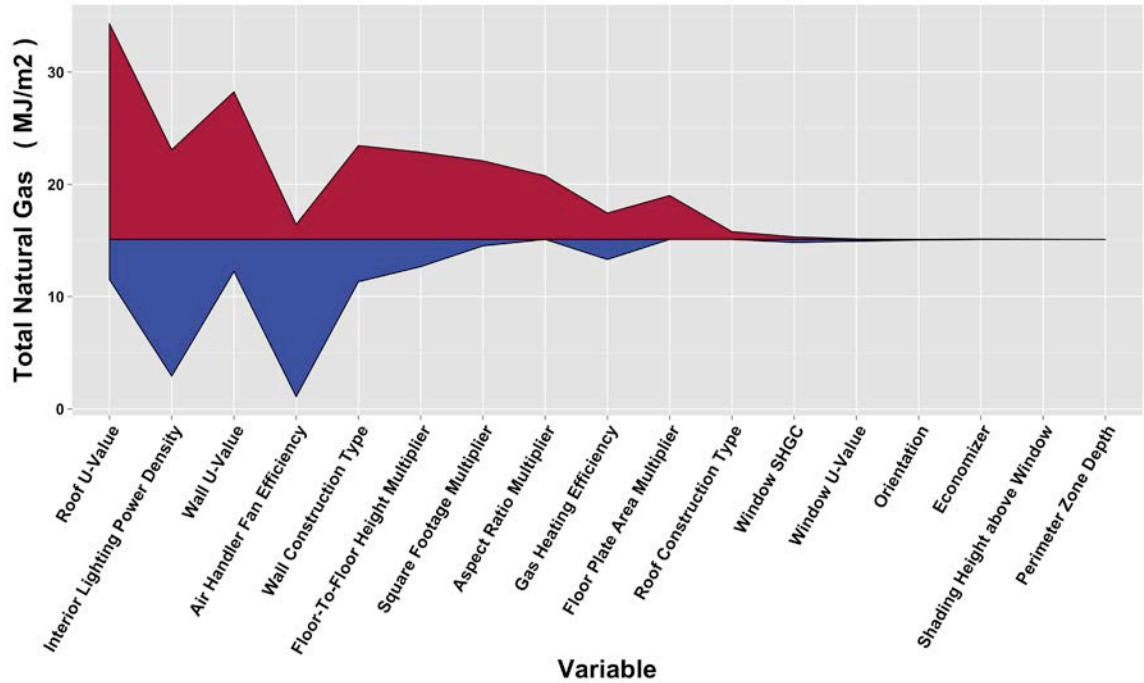
Shading Height above Window	0	2	484.69	484.84
District Chiller Cooling Efficiency	0.52	1.48	484.83	484.83
Air Handler Fan Efficiency	17.75	63.9	463.21	931.43
Packaged DX Cooling Efficiency	2.23	4.37	470.64	512.62
Gas Heating Efficiency	0.87	1.13	482.89	487.38
Terminal DX Cooling Efficiency	0.68	1.32	484.83	484.83
Terminal Furnace Heating Efficiency	0.87	1.13	484.83	484.83
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	484.83	484.83
Water Heater Energy Factor	1	99	484.83	484.83
Economizer	false	true	483.69	484.83
Fan Control	cav	false	484.83	484.83
Orientation	0	359	484.83	486.09



Total Electricity



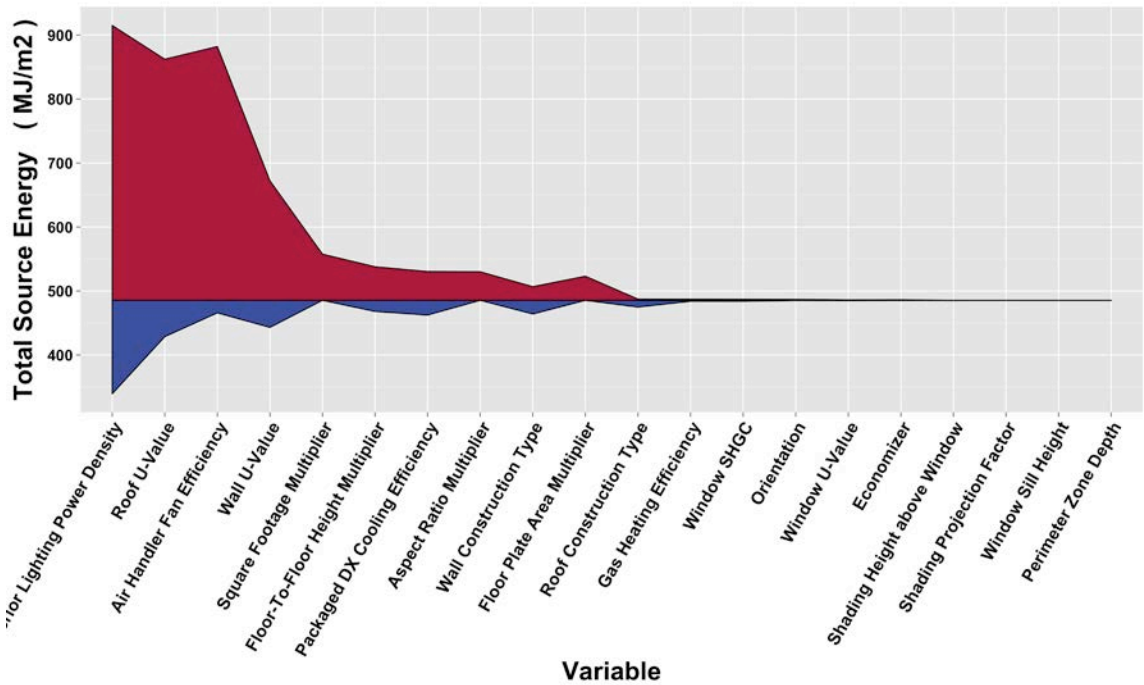
Total Natural Gas



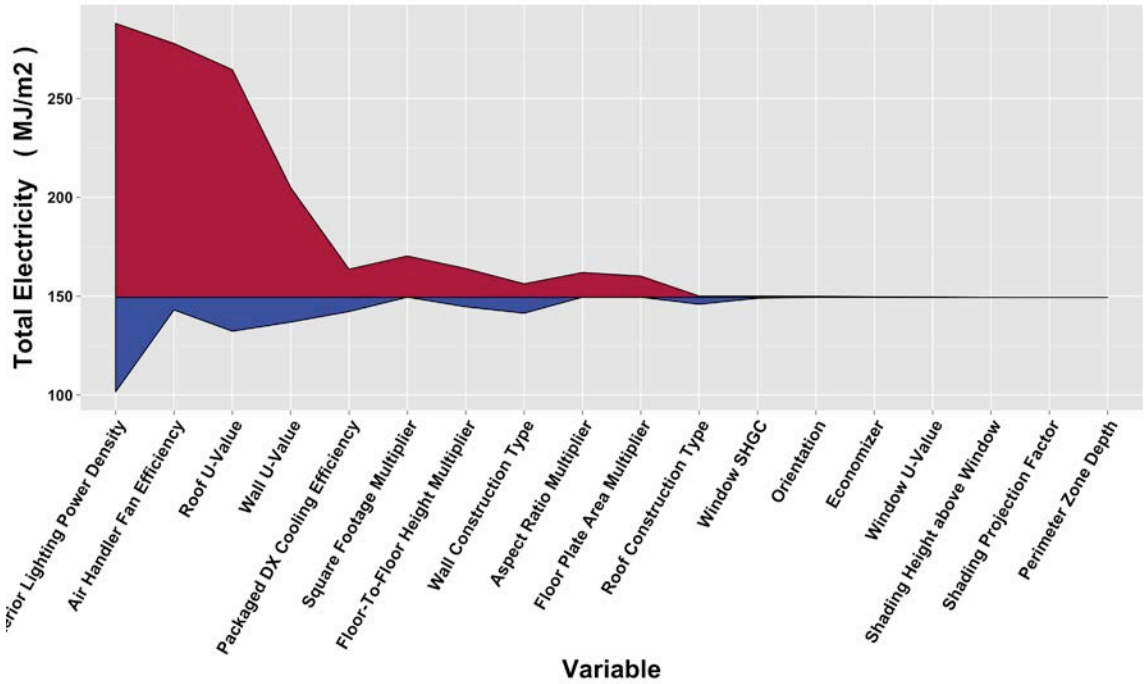
Location: Climate Zone 7

Total Source Energy

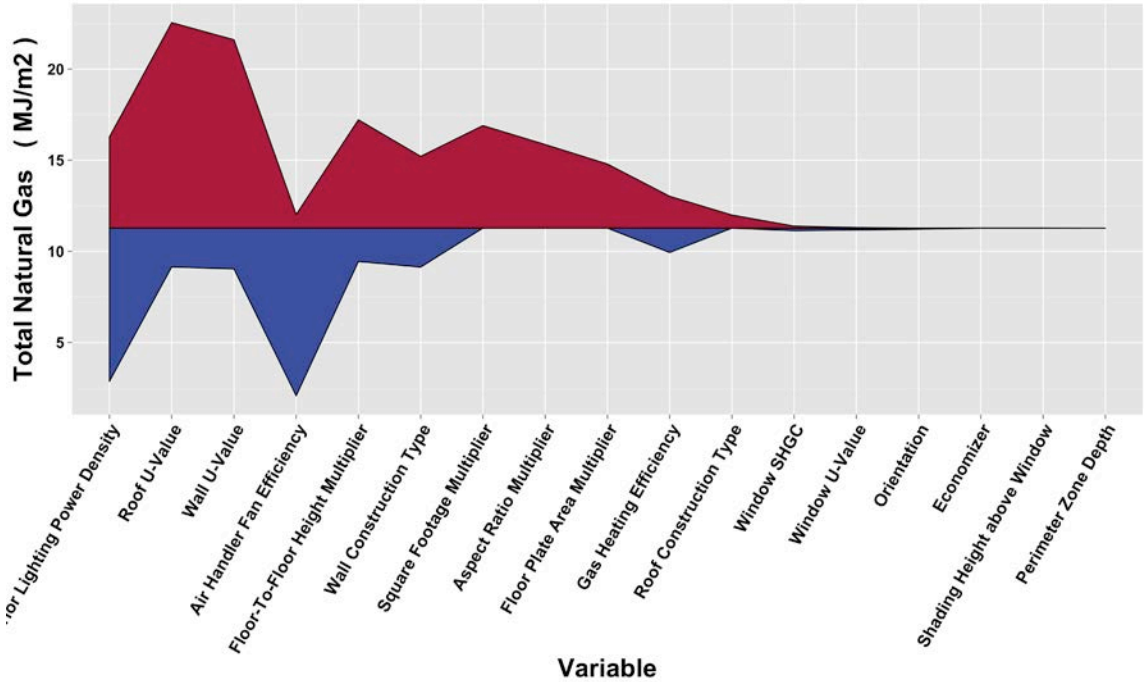
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	485.46	530.09
Floor Plate Area Multiplier	24750	49500	485.46	523.18
Square Footage Multiplier	14850	148500	485.46	557.66
Floor-To-Floor Height Multiplier	22.4	44.8	468.12	537.91
Perimeter Zone Depth	0	0	485.46	485.46
Floor R-Value for 24 in	0	0	485.46	485.46
Window-To-Wall Ratio	0	0.05	485.46	485.46
Window Sill Height	1	6	485.46	485.47
Window U-Value	0.12	1.22	485.22	486.09
Window SHGC	0.08	0.7	483.94	487.24
Window VLT	0.06	0.89	485.46	485.46
Wall Construction Type	masonry-on-masonry	wood-siding	464.11	506.84
Wall U-Value	0.03	0.58	443.17	672.34
Roof Construction Type	built-up concrete-deck	built-up wood-deck	474.98	487.42
Roof U-Value	0.01	0.2	428.65	862.24
Daylighting Control Setpoint	0	0	485.46	485.46
Interior Lighting Power Density	0.11	1.14	339.33	915.11
Shading Projection Factor	0	1	485.46	485.53
Shading Height above Window	0	2	485.30	485.47
District Chiller Cooling Efficiency	0.52	1.48	485.46	485.46
Air Handler Fan Efficiency	17.75	63.9	465.89	882.09
Packaged DX Cooling Efficiency	2.23	4.37	462.49	530.43
Gas Heating Efficiency	0.87	1.13	484.01	487.36
Terminal DX Cooling Efficiency	0.68	1.32	485.46	485.46
Terminal Furnace Heating Efficiency	0.87	1.13	485.46	485.46
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	485.46	485.46
Water Heater Energy Factor	1	99	485.46	485.46
Economizer	false	true	485.46	486.28
Fan Control	cav	false	485.46	485.46
Orientation	0	359	485.42	486.88



Total Electricity



Total Natural Gas

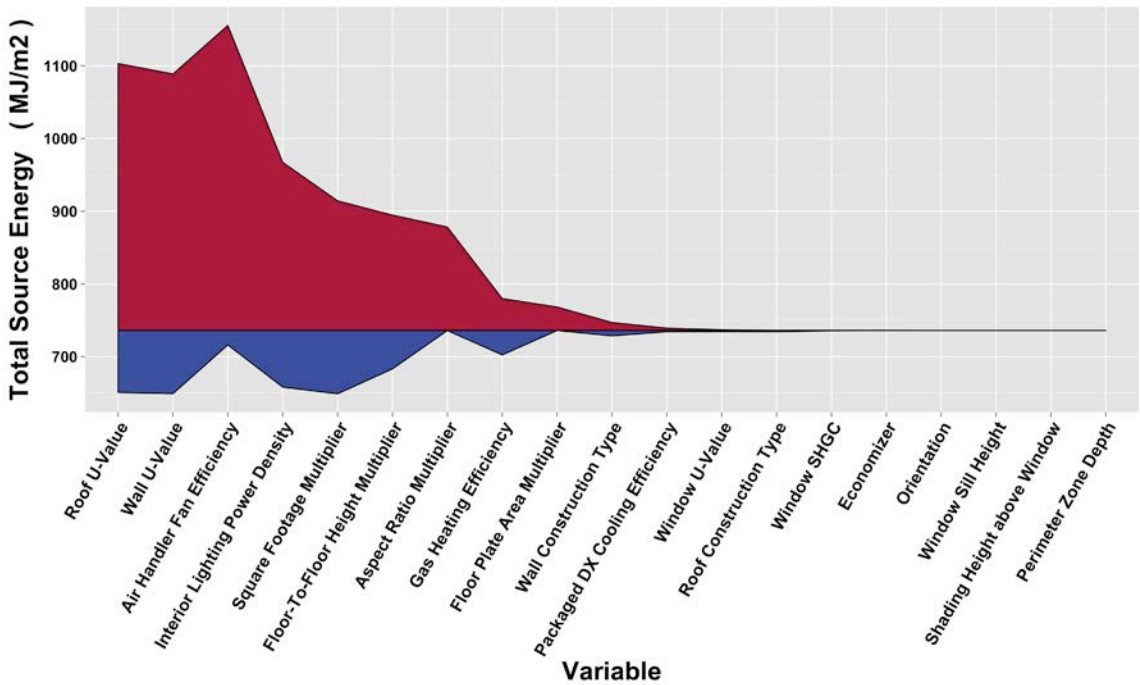


Location: Climate Zone 8

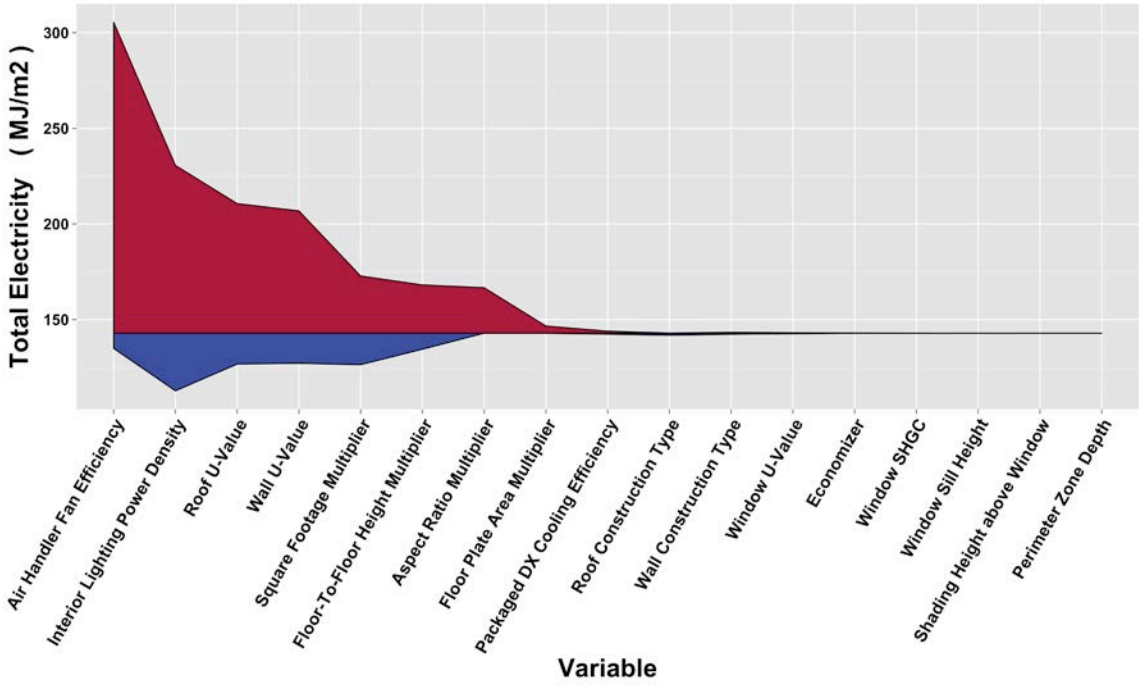
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	735.91	878.37
Floor Plate Area Multiplier	24750	49500	735.91	768.33
Square Footage Multiplier	14850	148500	648.82	914.38
Floor-To-Floor Height Multiplier	22.4	44.8	683.14	894.74
Perimeter Zone Depth	0	0	735.91	735.91
Floor R-Value for 24 in	0	0	735.91	735.91
Window-To-Wall Ratio	0	0.05	735.91	735.91
Window Sill Height	1	6	735.91	735.95
Window U-Value	0.12	1.22	734.36	736.99
Window SHGC	0.08	0.7	735.57	736.20
Window VLT	0.06	0.89	735.91	735.91
Wall Construction Type	masonry-on-masonry	wood-siding	728.58	747.03
Wall U-Value	0.03	0.58	649.02	1088.92
Roof Construction Type	built-up concrete-deck	built-up wood-deck	734.43	736.22
Roof U-Value	0.01	0.2	650.80	1103.28
Daylighting Control Setpoint	0	0	735.91	735.91
Interior Lighting Power Density	0.11	1.14	658.10	967.34
Shading Projection Factor	0	1	735.91	735.91

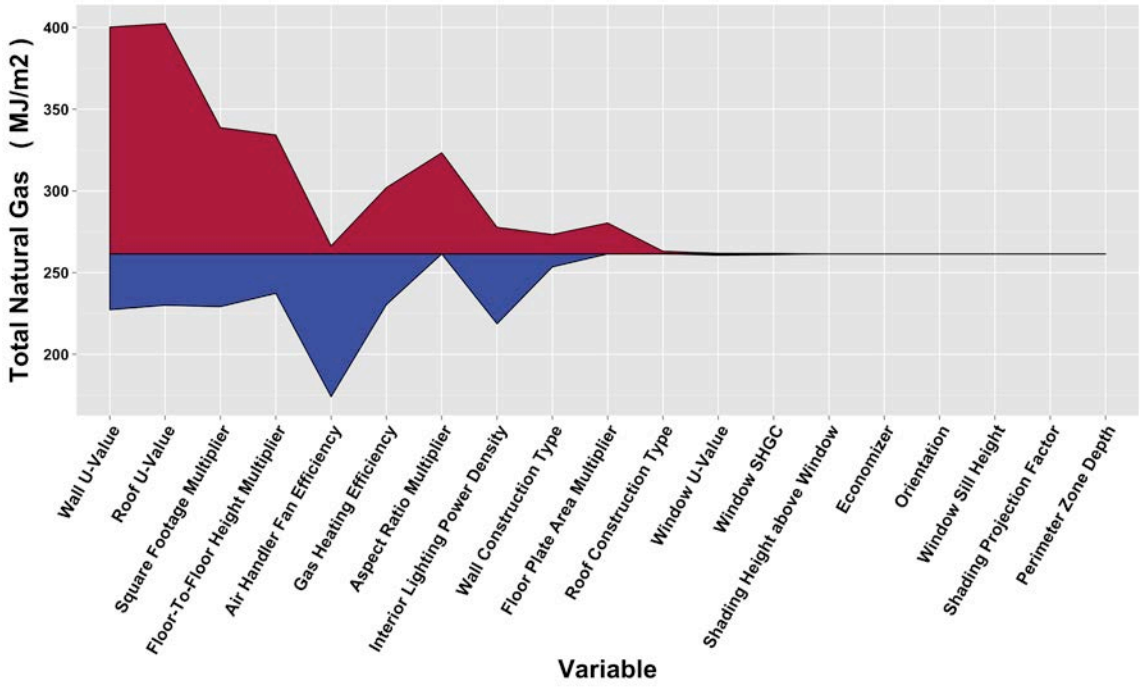
Shading Height above Window	0	2	735.91	735.93
District Chiller Cooling Efficiency	0.52	1.48	735.91	735.91
Air Handler Fan Efficiency	17.75	63.9	716.06	1155.72
Packaged DX Cooling Efficiency	2.23	4.37	734.22	739.23
Gas Heating Efficiency	0.87	1.13	702.32	779.95
Terminal DX Cooling Efficiency	0.68	1.32	735.91	735.91
Terminal Furnace Heating Efficiency	0.87	1.13	735.91	735.91
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	735.91	735.91
Water Heater Energy Factor	1	99	735.91	735.91
Economizer	false	true	735.91	736.25
Fan Control	cav	false	735.91	735.91
Orientation	0	359	735.90	735.95



Total Electricity



Total Natural Gas

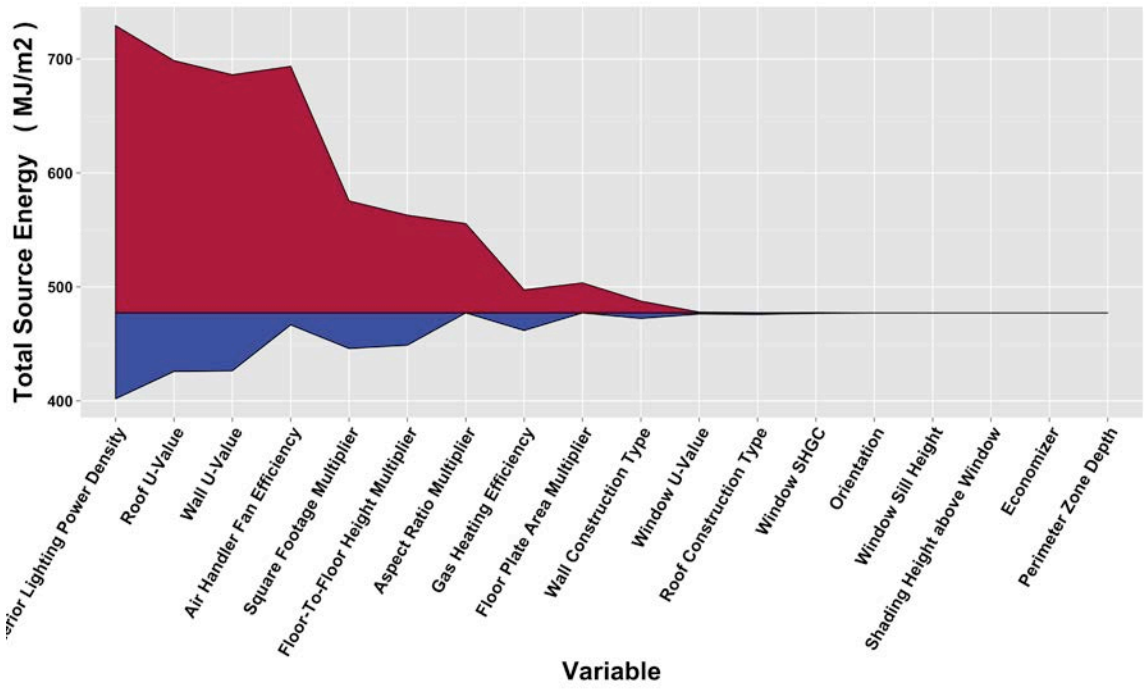


Warehouse - Heat-Only

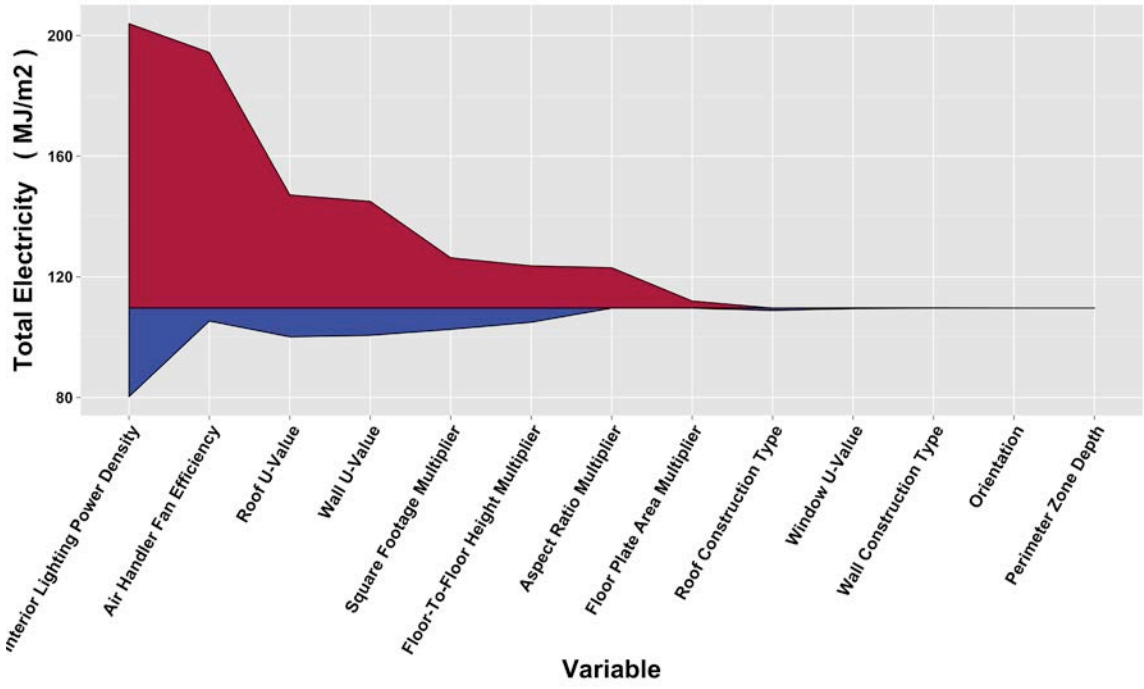
Location: Climate Zone 1A

Total Source Energy

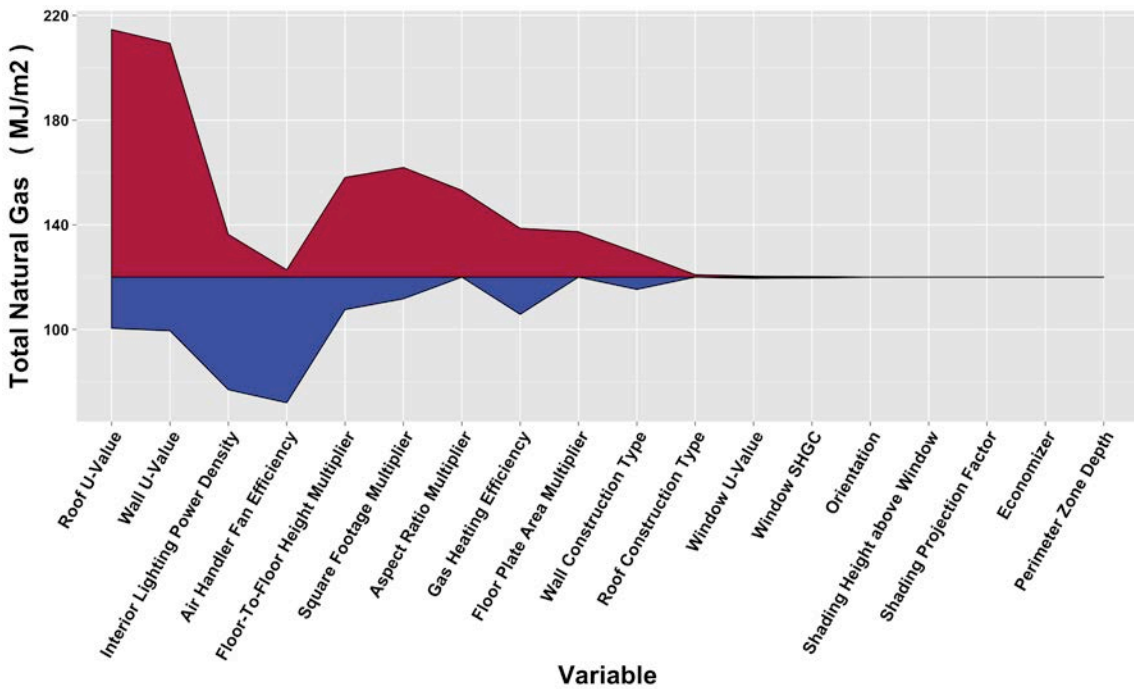
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	477.21	555.61
Floor Plate Area Multiplier	24750	49500	477.21	503.55
Square Footage Multiplier	14850	148500	445.96	575.52
Floor-To-Floor Height Multiplier	22.4	44.8	448.92	562.96
Perimeter Zone Depth	0	0	477.21	477.21
Floor R-Value for 24 in	0	0	477.21	477.21
Window-To-Wall Ratio	0	0.05	477.21	477.21
Window Sill Height	1	6	477.21	477.22
Window U-Value	0.12	1.22	476.21	477.93
Window SHGC	0.08	0.7	476.89	477.48
Window VLT	0.06	0.89	477.21	477.21
Wall Construction Type	masonry-on-masonry	wood-siding	472.36	487.57
Wall U-Value	0.03	0.58	426.42	686.16
Roof Construction Type	built-up concrete-deck	built-up wood-deck	475.83	477.37
Roof U-Value	0.01	0.2	425.82	698.58
Daylighting Control Setpoint	0	0	477.21	477.21
Interior Lighting Power Density	0.11	1.14	401.88	729.31
Shading Projection Factor	0	1	477.21	477.21
Shading Height above Window	0	2	477.21	477.22
District Chiller Cooling Efficiency	0.52	1.48	477.21	477.21
Air Handler Fan Efficiency	17.75	63.9	466.69	693.55
Gas Heating Efficiency	0.87	1.13	461.78	497.43
Terminal DX Cooling Efficiency	0.68	1.32	477.21	477.21
Terminal Furnace Heating Efficiency	0.87	1.13	477.21	477.21
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	477.21	477.21
Water Heater Energy Factor	1	99	477.21	477.21
Economizer	false	true	477.21	477.22
Fan Control	cav	false	477.21	477.21
Orientation	0	359	477.18	477.22



Total Electricity



Total Natural Gas

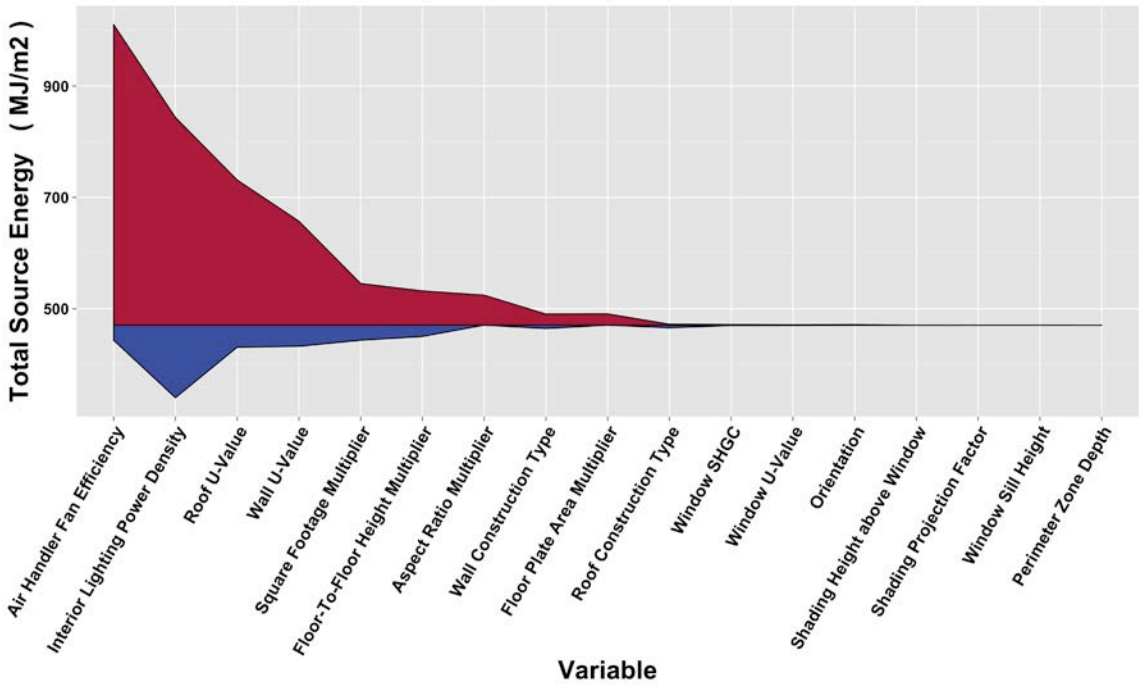


Location: Climate Zone 1B

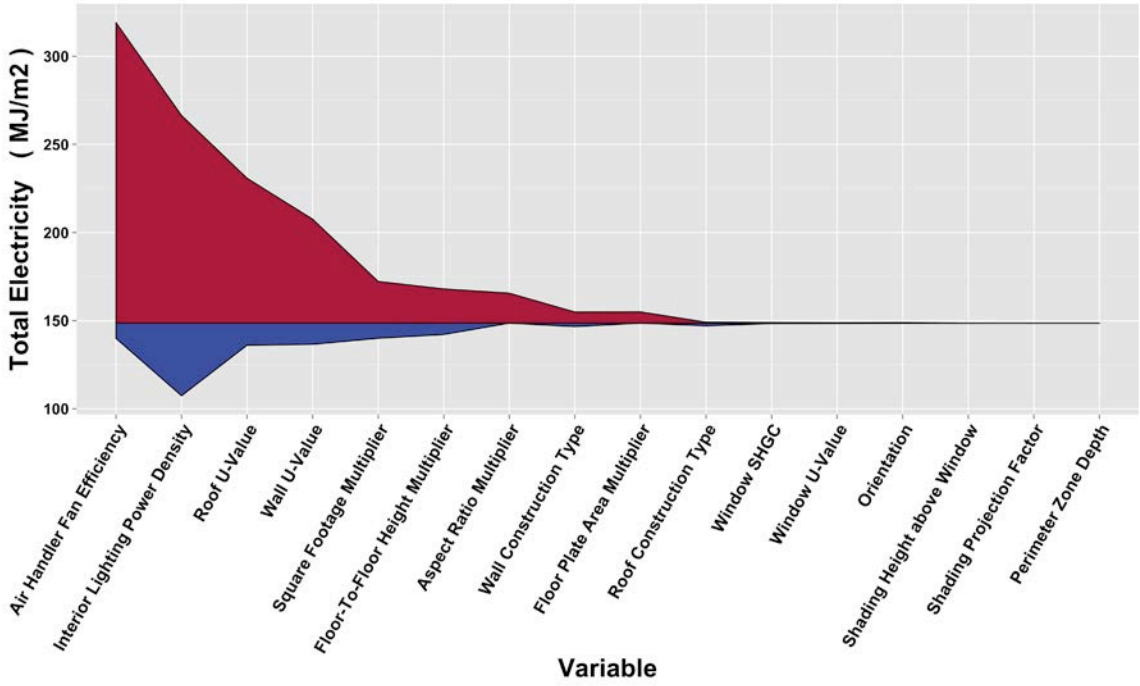
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	470.59	524.37
Floor Plate Area Multiplier	24750	49500	470.59	490.75
Square Footage Multiplier	14850	148500	443.42	545.41
Floor-To-Floor Height Multiplier	22.4	44.8	450.17	531.99
Perimeter Zone Depth	0	0	470.59	470.59
Floor R-Value for 24 in	0	0	470.59	470.59
Window-To-Wall Ratio	0	0.05	470.59	470.59
Window Sill Height	1	6	470.59	470.61
Window U-Value	0.12	1.22	470.16	471.15
Window SHGC	0.08	0.7	469.84	471.51
Window VLT	0.06	0.89	470.59	470.59
Wall Construction Type	masonry-on-masonry	wood-siding	464.40	490.44
Wall U-Value	0.03	0.58	432.51	657.38
Roof Construction Type	built-up concrete-deck	built-up wood-deck	465.78	472.23
Roof U-Value	0.01	0.2	430.95	731.44
Daylighting Control Setpoint	0	0	470.59	470.59
Interior Lighting Power Density	0.11	1.14	340.05	843.77
Shading Projection Factor	0	1	470.59	470.63

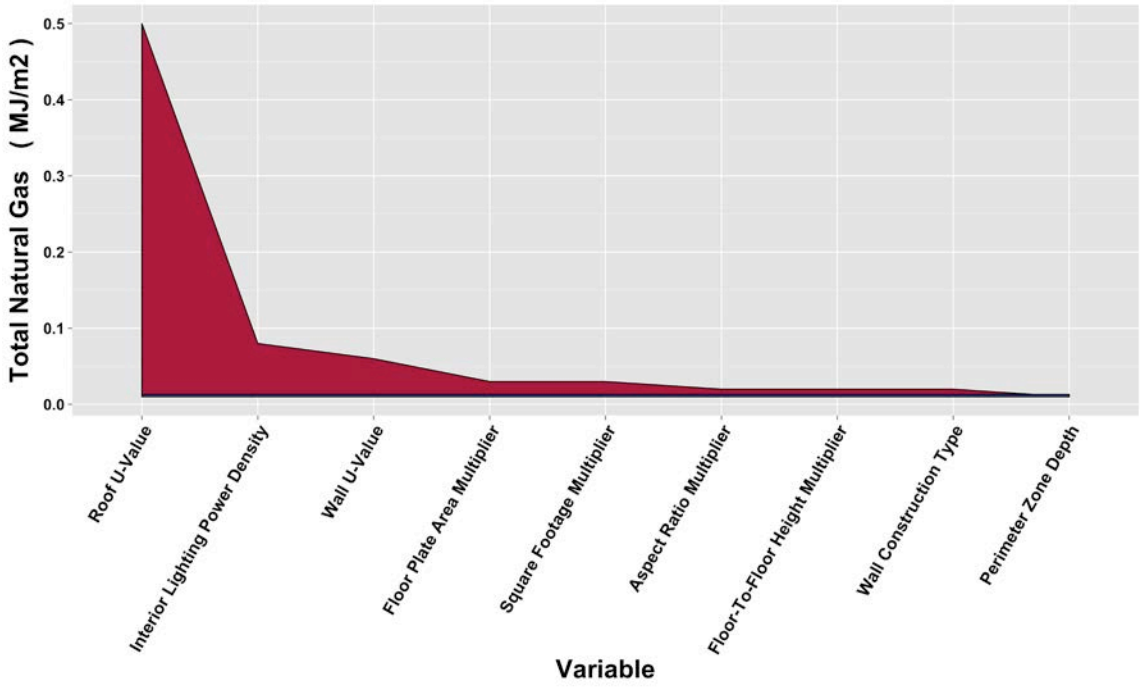
Shading Height above Window	0	2	470.52	470.60
District Chiller Cooling Efficiency	0.52	1.48	470.59	470.59
Air Handler Fan Efficiency	17.75	63.9	443.31	1010.60
Gas Heating Efficiency	0.87	1.13	470.59	470.59
Terminal DX Cooling Efficiency	0.68	1.32	470.59	470.59
Terminal Furnace Heating Efficiency	0.87	1.13	470.59	470.59
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	470.59	470.59
Water Heater Energy Factor	1	99	470.59	470.59
Economizer	false	true	470.59	470.59
Fan Control	cav	false	470.59	470.59
Orientation	0	359	470.57	471.44



Total Electricity



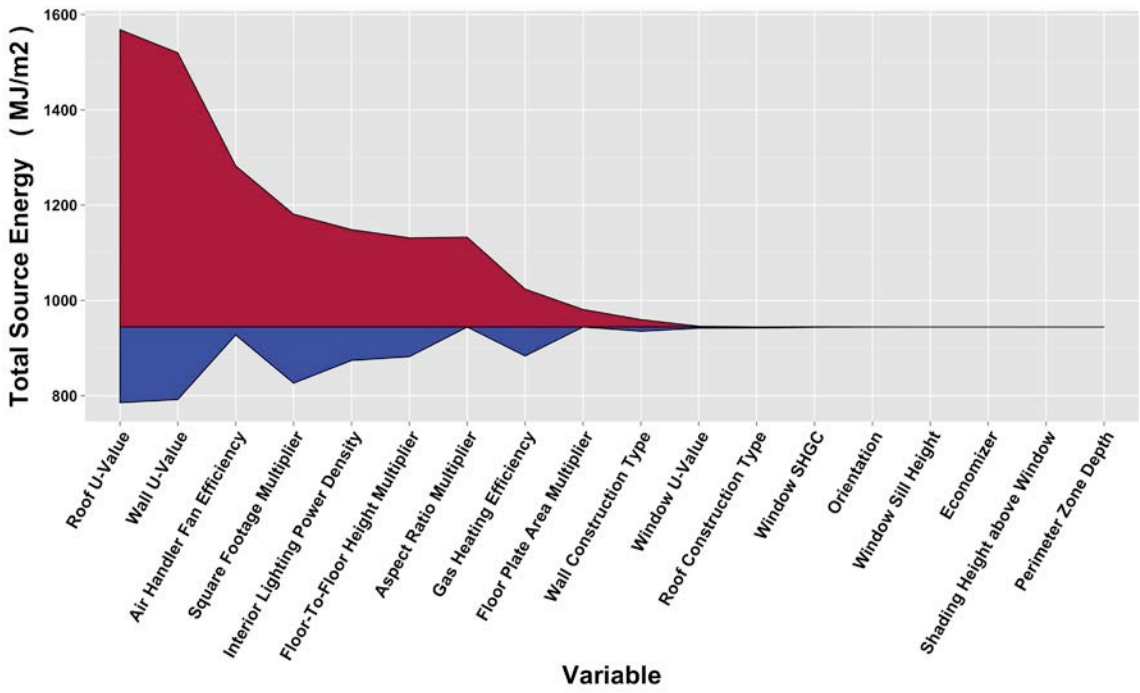
Total Natural Gas



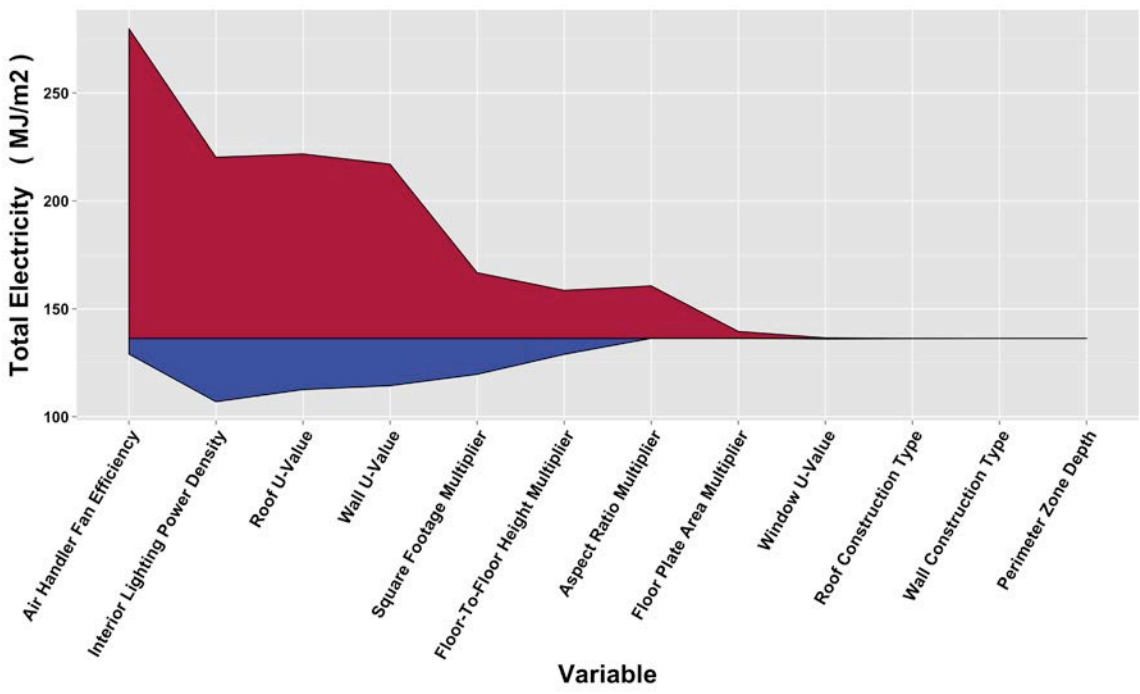
Location: Climate Zone 2A

Total Source Energy

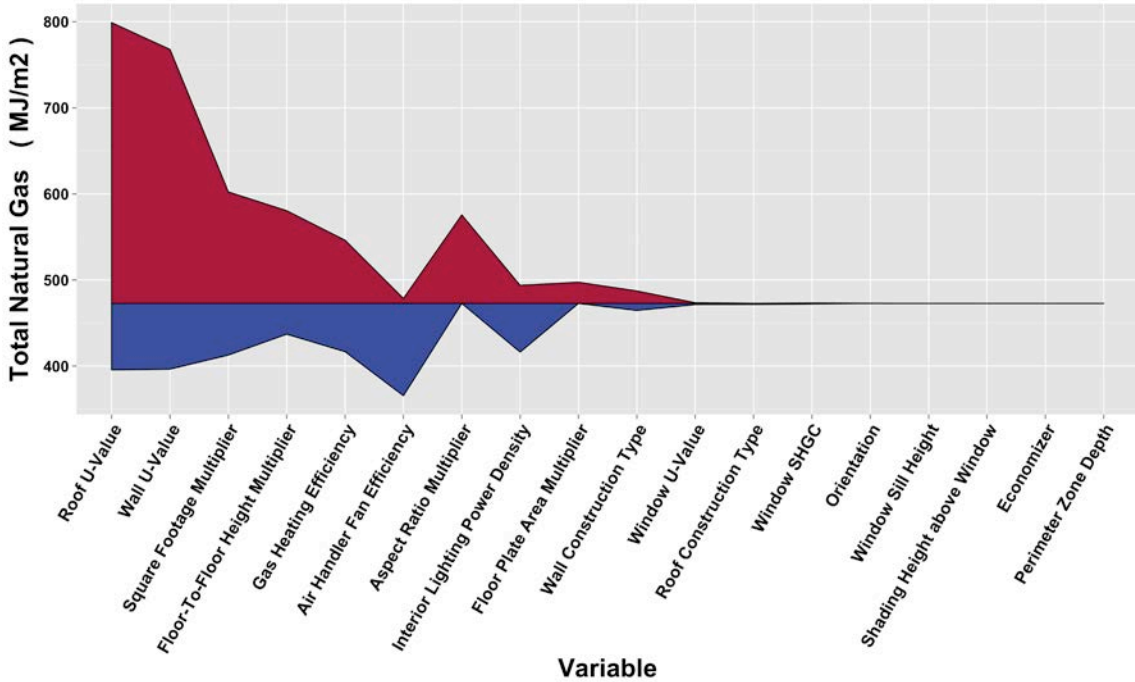
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	944.14	1132.64
Floor Plate Area Multiplier	24750	49500	944.14	981.01
Square Footage Multiplier	14850	148500	826.33	1181.01
Floor-To-Floor Height Multiplier	22.4	44.8	881.96	1131.32
Perimeter Zone Depth	0	0	944.14	944.14
Floor R-Value for 24 in	0	0	944.14	944.14
Window-To-Wall Ratio	0	0.05	944.14	944.14
Window Sill Height	1	6	944.14	944.16
Window U-Value	0.12	1.22	941.62	945.80
Window SHGC	0.08	0.7	943.61	944.58
Window VLT	0.06	0.89	944.14	944.14
Wall Construction Type	masonry-on-masonry	wood-siding	935.19	959.76
Wall U-Value	0.03	0.58	791.99	1519.58
Roof Construction Type	built-up concrete-deck	built-up wood-deck	942.35	944.27
Roof U-Value	0.01	0.2	785.23	1568.27
Daylighting Control Setpoint	0	0	944.14	944.14
Interior Lighting Power Density	0.11	1.14	873.88	1148.58
Shading Projection Factor	0	1	944.14	944.14
Shading Height above Window	0	2	944.14	944.15
District Chiller Cooling Efficiency	0.52	1.48	944.14	944.14
Air Handler Fan Efficiency	17.75	63.9	927.48	1282.36
Gas Heating Efficiency	0.87	1.13	883.38	1023.78
Terminal DX Cooling Efficiency	0.68	1.32	944.14	944.14
Terminal Furnace Heating Efficiency	0.87	1.13	944.14	944.14
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	944.14	944.14
Water Heater Energy Factor	1	99	944.14	944.14
Economizer	false	true	944.14	944.16
Fan Control	cav	false	944.14	944.14
Orientation	0	359	944.13	944.30



Total Electricity



Total Natural Gas

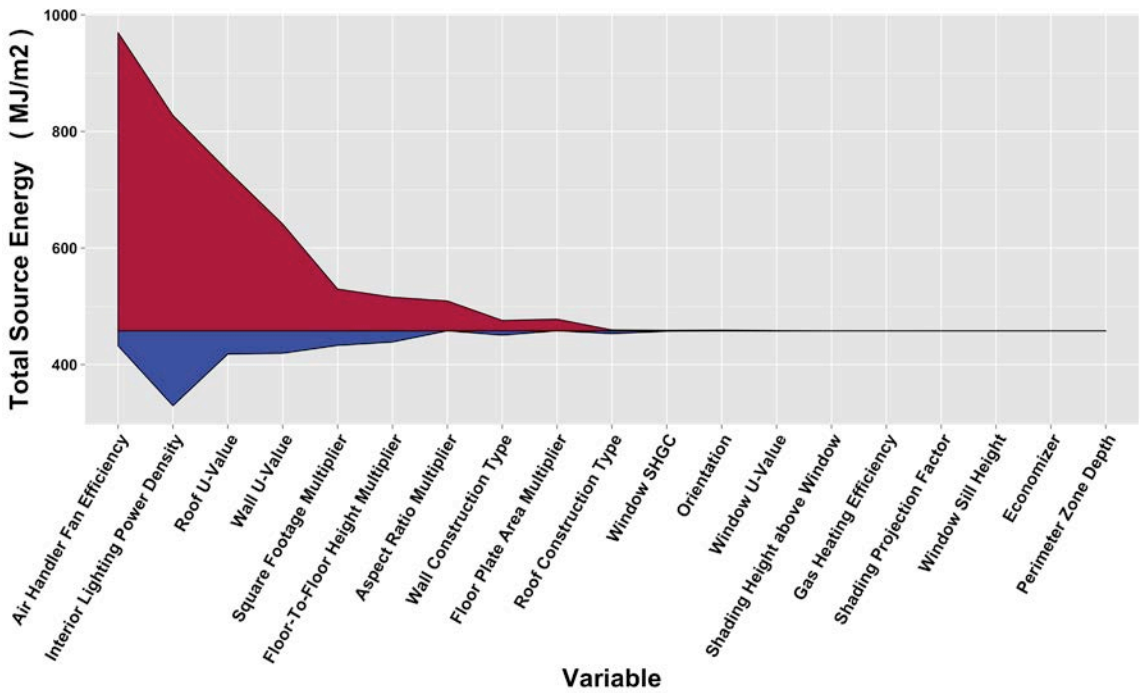


Location: Climate Zone 2B

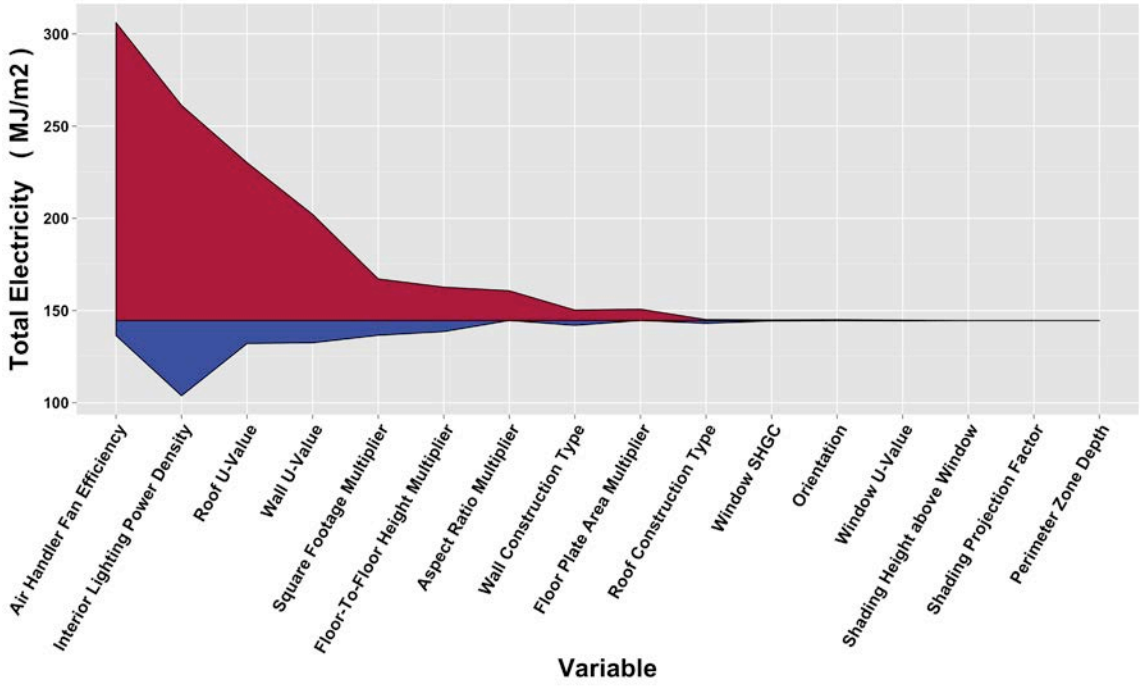
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	457.98	509.32
Floor Plate Area Multiplier	24750	49500	457.98	478.01
Square Footage Multiplier	14850	148500	432.95	529.79
Floor-To-Floor Height Multiplier	22.4	44.8	438.82	515.70
Perimeter Zone Depth	0	0	457.98	457.98
Floor R-Value for 24 in	0	0	457.98	457.98
Window-To-Wall Ratio	0	0.05	457.98	457.98
Window Sill Height	1	6	457.98	457.99
Window U-Value	0.12	1.22	457.58	458.52
Window SHGC	0.08	0.7	457.20	458.91
Window VLT	0.06	0.89	457.98	457.98
Wall Construction Type	masonry-on-masonry	wood-siding	450.61	475.88
Wall U-Value	0.03	0.58	419.51	641.20
Roof Construction Type	built-up concrete-deck	built-up wood-deck	453.16	459.56
Roof U-Value	0.01	0.2	418.21	732.56
Daylighting Control Setpoint	0	0	457.98	457.98
Interior Lighting Power Density	0.11	1.14	329.49	827.47
Shading Projection Factor	0	1	457.98	458.02

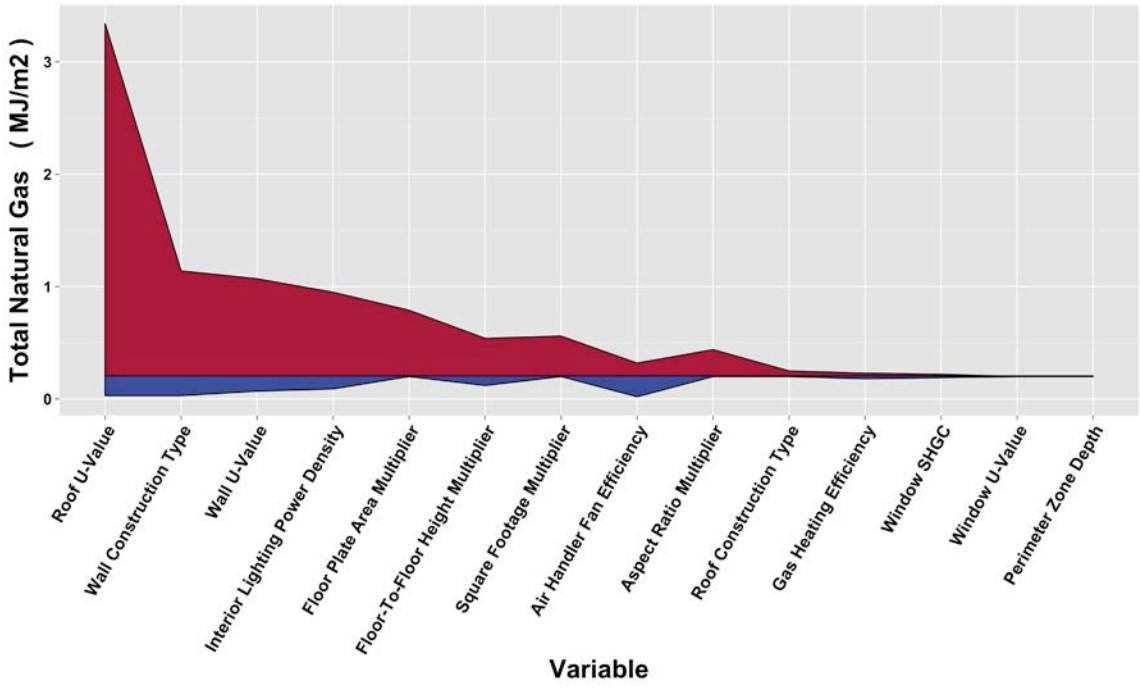
Shading Height above Window	0	2	457.91	457.98
District Chiller Cooling Efficiency	0.52	1.48	457.98	457.98
Air Handler Fan Efficiency	17.75	63.9	432.26	969.60
Gas Heating Efficiency	0.87	1.13	457.95	458.01
Terminal DX Cooling Efficiency	0.68	1.32	457.98	457.98
Terminal Furnace Heating Efficiency	0.87	1.13	457.98	457.98
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	457.98	457.98
Water Heater Energy Factor	1	99	457.98	457.98
Economizer	false	true	457.98	457.99
Fan Control	cav	false	457.98	457.98
Orientation	0	359	457.96	459.24



Total Electricity



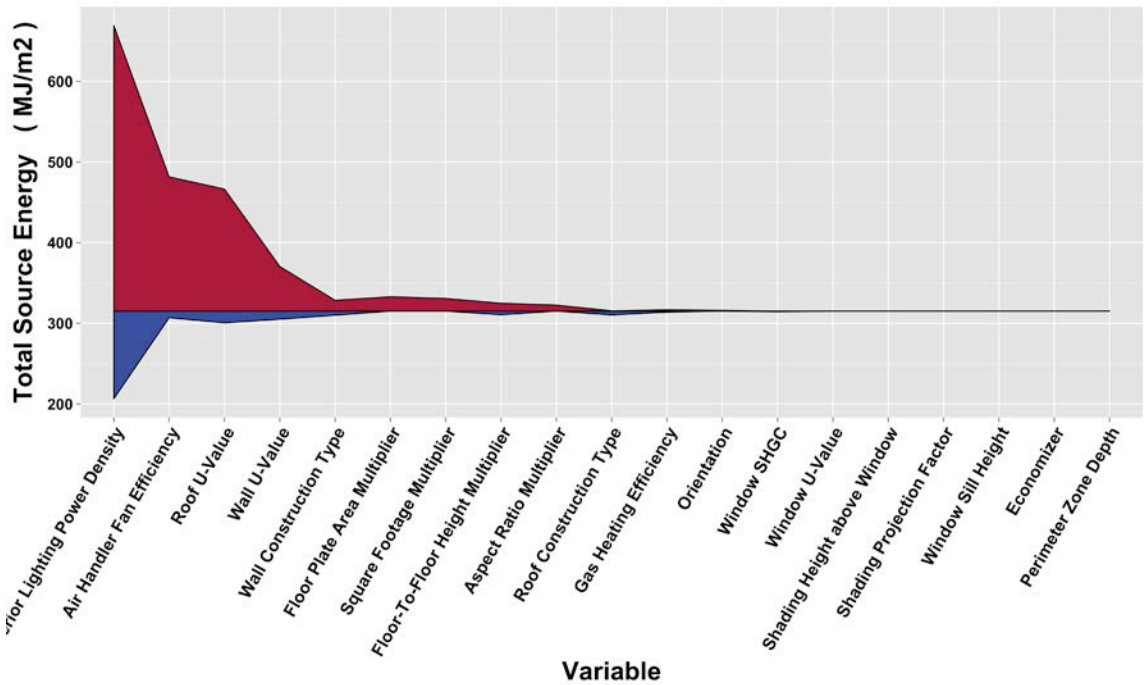
Total Natural Gas



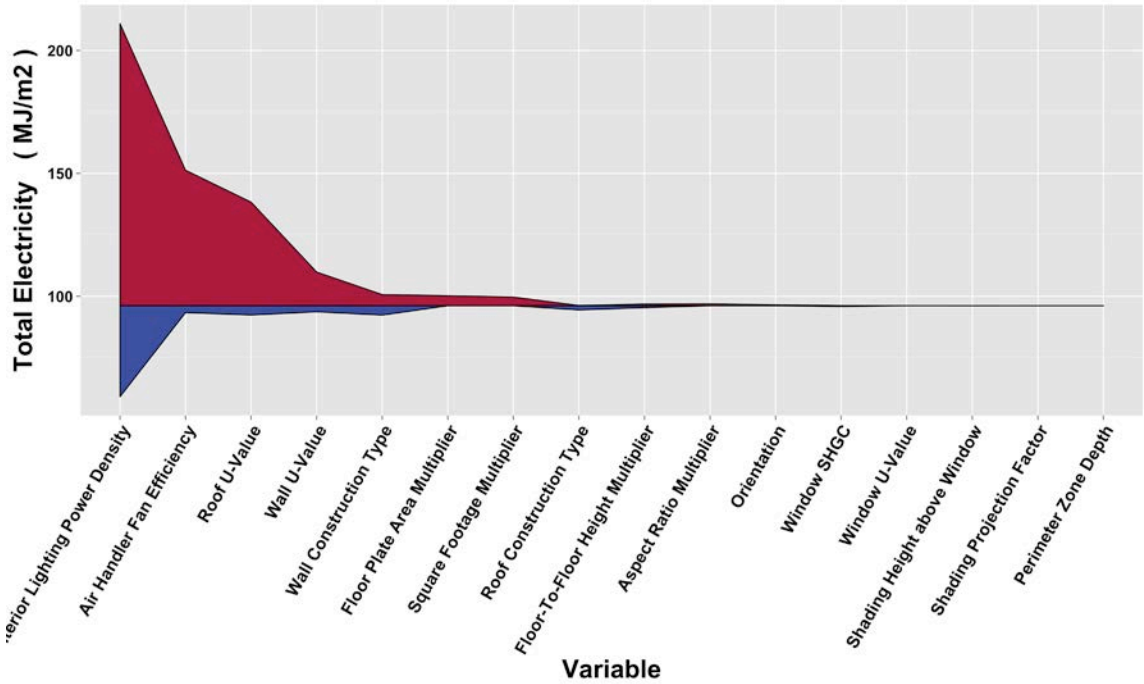
Location: Climate Zone 3A

Total Source Energy

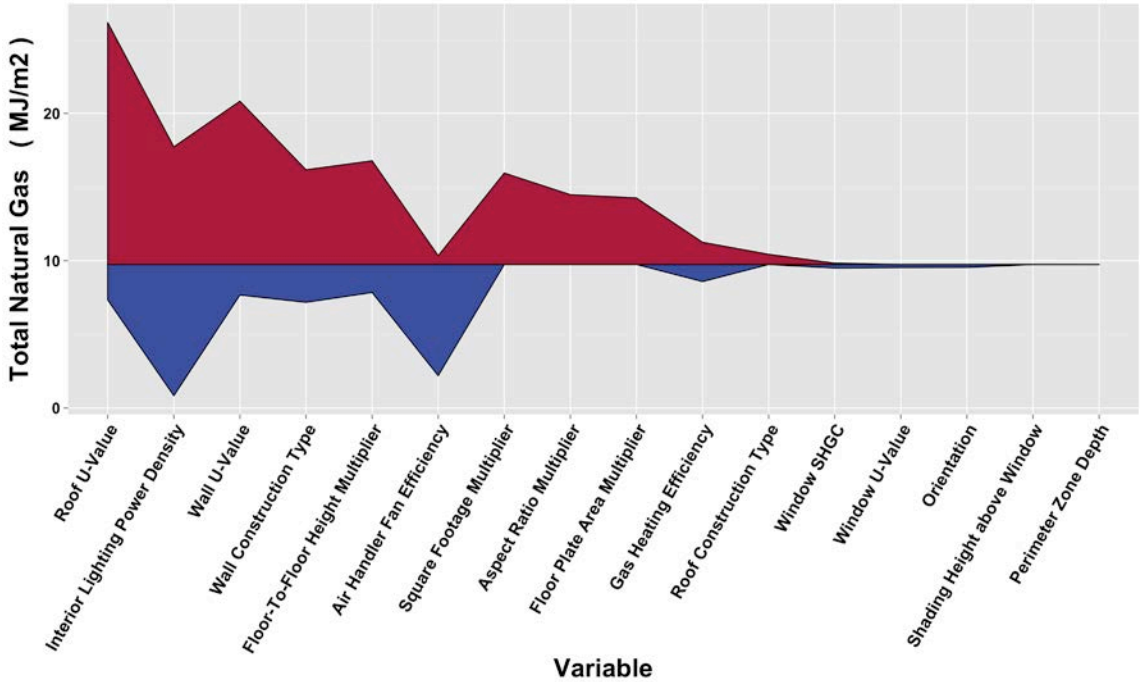
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	315.06	322.55
Floor Plate Area Multiplier	24750	49500	315.06	332.87
Square Footage Multiplier	14850	148500	315.06	330.74
Floor-To-Floor Height Multiplier	22.4	44.8	310.57	324.82
Perimeter Zone Depth	0	0	315.06	315.06
Floor R-Value for 24 in	0	0	315.06	315.06
Window-To-Wall Ratio	0	0.05	315.06	315.06
Window Sill Height	1	6	315.06	315.07
Window U-Value	0.12	1.22	314.96	315.06
Window SHGC	0.08	0.7	314.30	315.06
Window VLT	0.06	0.89	315.06	315.06
Wall Construction Type	masonry-on-masonry	wood-siding	310.00	328.46
Wall U-Value	0.03	0.58	305.05	370.54
Roof Construction Type	built-up concrete-deck	built-up wood-deck	310.38	315.46
Roof U-Value	0.01	0.2	300.52	466.40
Daylighting Control Setpoint	0	0	315.06	315.06
Interior Lighting Power Density	0.11	1.14	206.41	669.05
Shading Projection Factor	0	1	315.06	315.09
Shading Height above Window	0	2	315.00	315.07
District Chiller Cooling Efficiency	0.52	1.48	315.06	315.06
Air Handler Fan Efficiency	17.75	63.9	306.90	481.55
Gas Heating Efficiency	0.87	1.13	313.81	316.71
Terminal DX Cooling Efficiency	0.68	1.32	315.06	315.06
Terminal Furnace Heating Efficiency	0.87	1.13	315.06	315.06
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	315.06	315.06
Water Heater Energy Factor	1	99	315.06	315.06
Economizer	false	true	315.06	315.07
Fan Control	cav	false	315.06	315.06
Orientation	0	359	315.06	316.04



Total Electricity



Total Natural Gas

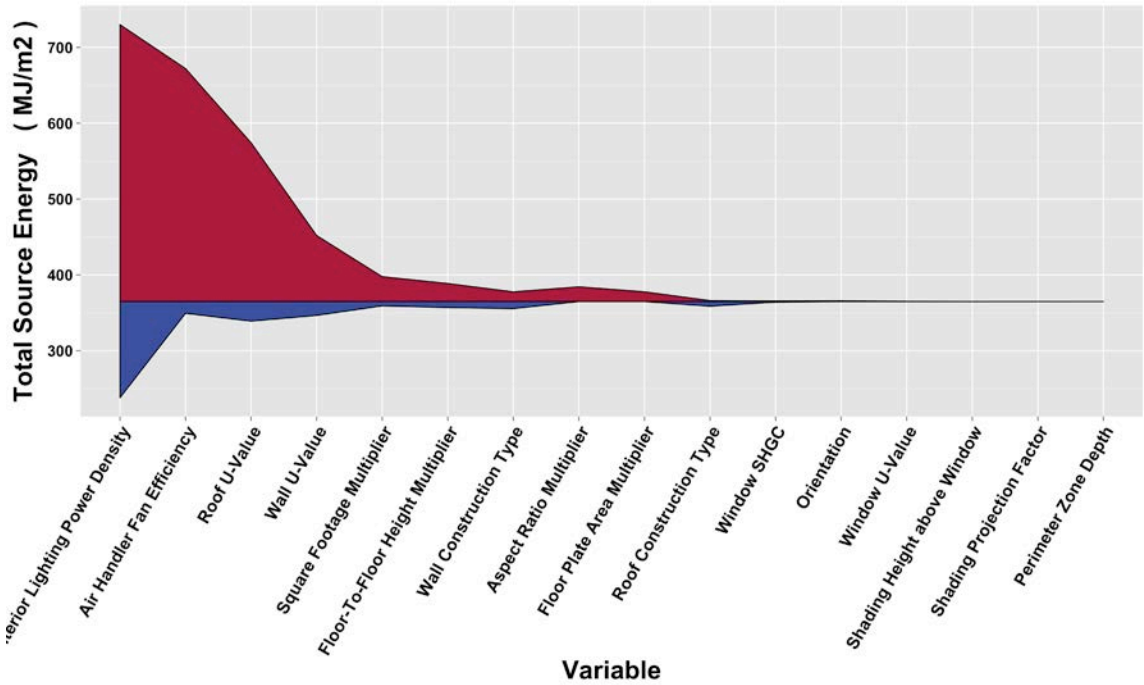


Location: Climate Zone 3B

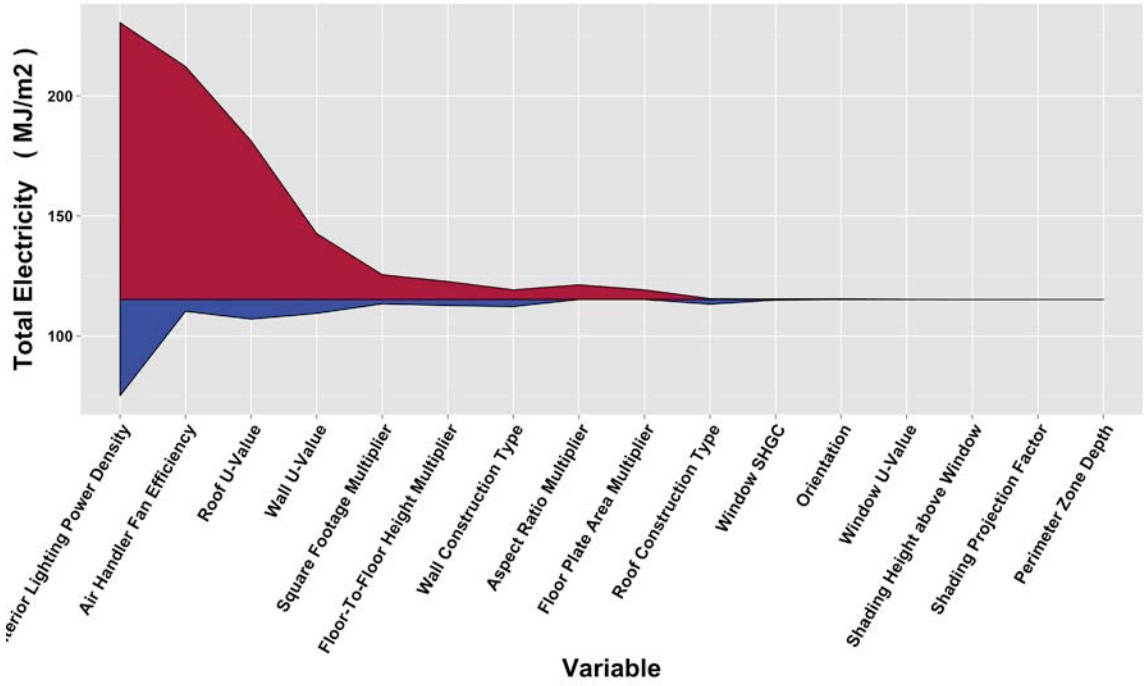
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	364.81	384.22
Floor Plate Area Multiplier	24750	49500	364.81	377.67
Square Footage Multiplier	14850	148500	359.13	397.62
Floor-To-Floor Height Multiplier	22.4	44.8	356.93	388.60
Perimeter Zone Depth	0	0	364.81	364.81
Floor R-Value for 24 in	0	0	364.81	364.81
Window-To-Wall Ratio	0	0.05	364.81	364.81
Window Sill Height	1	6	364.81	364.81
Window U-Value	0.12	1.22	364.73	365.00
Window SHGC	0.08	0.7	364.10	365.66
Window VLT	0.06	0.89	364.81	364.81
Wall Construction Type	masonry-on-masonry	wood-siding	355.52	377.61
Wall U-Value	0.03	0.58	346.52	451.94
Roof Construction Type	built-up concrete-deck	built-up wood-deck	358.68	366.05
Roof U-Value	0.01	0.2	338.96	574.25
Daylighting Control Setpoint	0	0	364.81	364.81
Interior Lighting Power Density	0.11	1.14	237.88	730.15
Shading Projection Factor	0	1	364.81	364.84

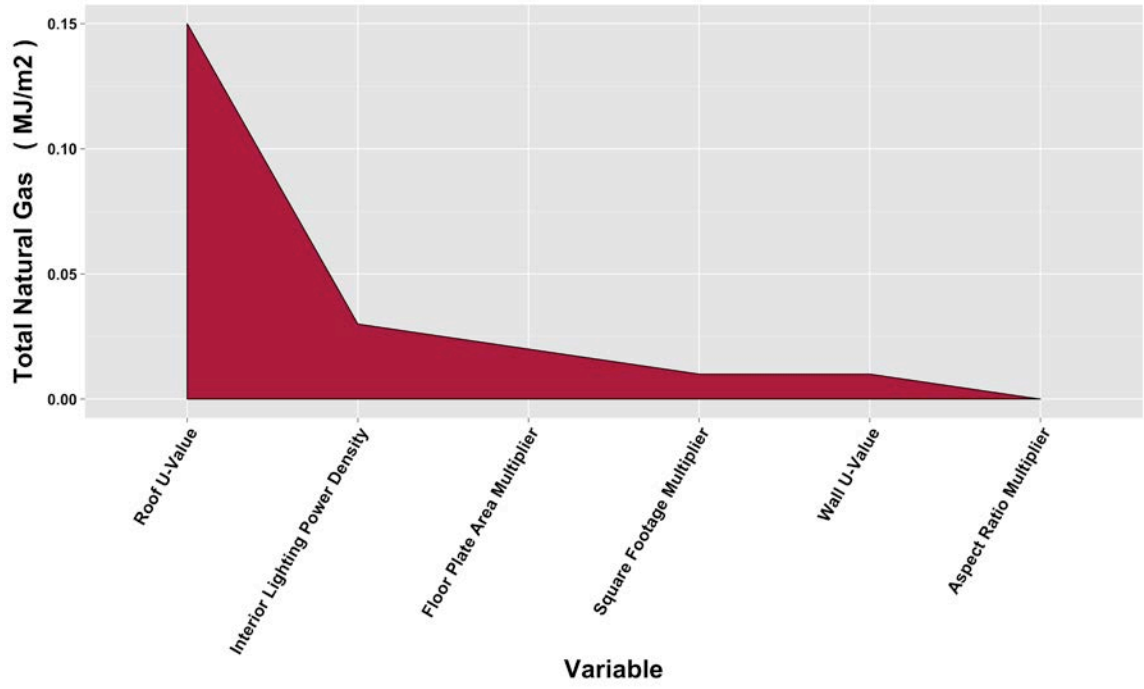
Shading Height above Window	0	2	364.74	364.81
District Chiller Cooling Efficiency	0.52	1.48	364.81	364.81
Air Handler Fan Efficiency	17.75	63.9	349.29	672.14
Gas Heating Efficiency	0.87	1.13	364.81	364.81
Terminal DX Cooling Efficiency	0.68	1.32	364.81	364.81
Terminal Furnace Heating Efficiency	0.87	1.13	364.81	364.81
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	364.81	364.81
Water Heater Energy Factor	1	99	364.81	364.81
Economizer	false	true	364.81	364.81
Fan Control	cav	false	364.81	364.81
Orientation	0	359	364.78	365.90



Total Electricity



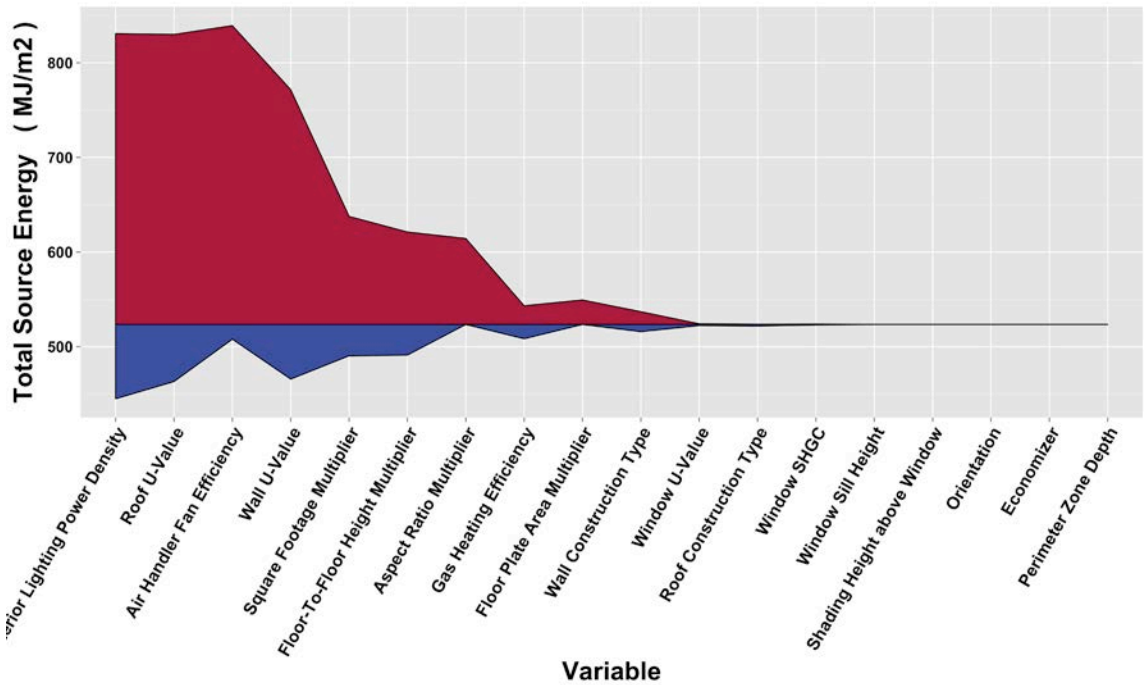
Total Natural Gas



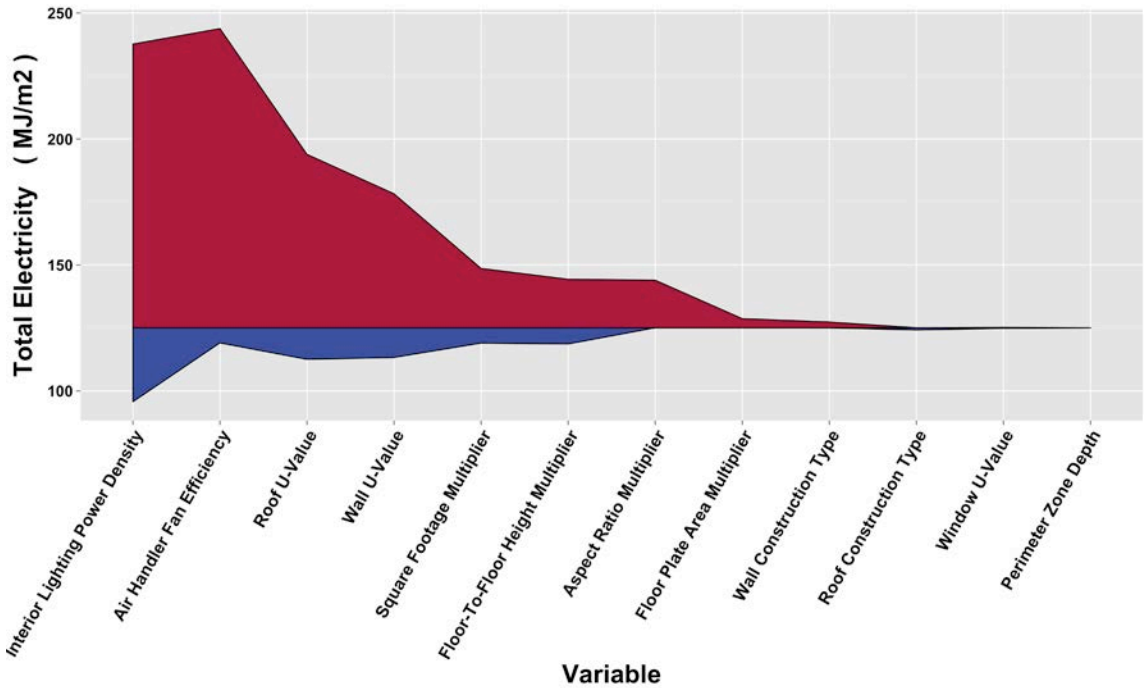
Location: Climate Zone 3C

Total Source Energy

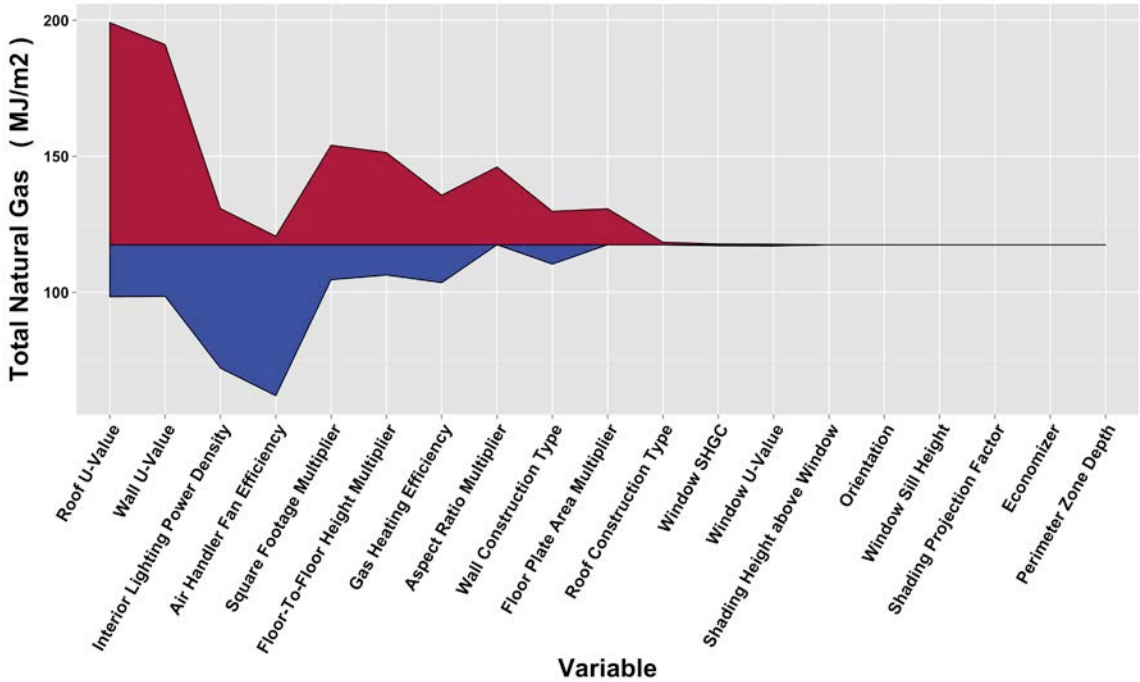
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	523.39	614.28
Floor Plate Area Multiplier	24750	49500	523.39	549.27
Square Footage Multiplier	14850	148500	490.26	637.66
Floor-To-Floor Height Multiplier	22.4	44.8	491.01	621.15
Perimeter Zone Depth	0	0	523.39	523.39
Floor R-Value for 24 in	0	0	523.39	523.39
Window-To-Wall Ratio	0	0.05	523.39	523.39
Window Sill Height	1	6	523.39	523.41
Window U-Value	0.12	1.22	522.23	524.10
Window SHGC	0.08	0.7	522.98	523.73
Window VLT	0.06	0.89	523.39	523.39
Wall Construction Type	masonry-on-masonry	wood-siding	515.80	536.88
Wall U-Value	0.03	0.58	465.62	771.66
Roof Construction Type	built-up concrete-deck	built-up wood-deck	521.72	523.57
Roof U-Value	0.01	0.2	463.02	829.99
Daylighting Control Setpoint	0	0	523.39	523.39
Interior Lighting Power Density	0.11	1.14	444.83	830.92
Shading Projection Factor	0	1	523.39	523.39
Shading Height above Window	0	2	523.39	523.41
District Chiller Cooling Efficiency	0.52	1.48	523.39	523.39
Air Handler Fan Efficiency	17.75	63.9	507.83	839.37
Gas Heating Efficiency	0.87	1.13	508.30	543.17
Terminal DX Cooling Efficiency	0.68	1.32	523.39	523.39
Terminal Furnace Heating Efficiency	0.87	1.13	523.39	523.39
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	523.39	523.39
Water Heater Energy Factor	1	99	523.39	523.39
Economizer	false	true	523.38	523.39
Fan Control	cav	false	523.39	523.39
Orientation	0	359	523.39	523.41



Total Electricity



Total Natural Gas

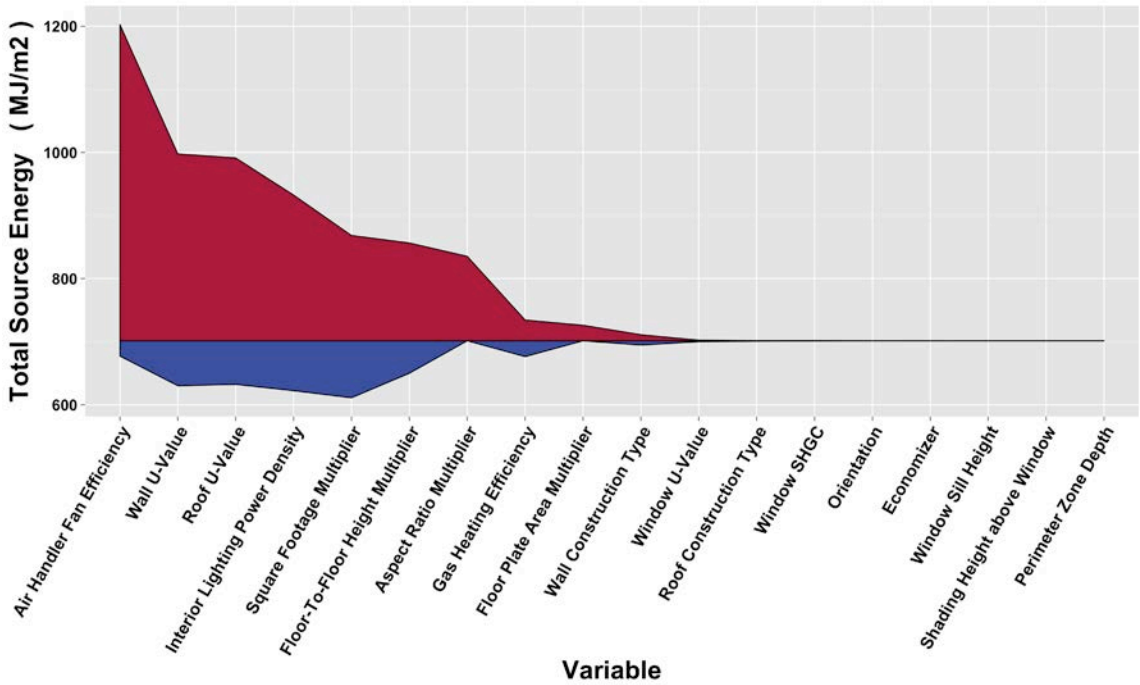


Location: Climate Zone 4A

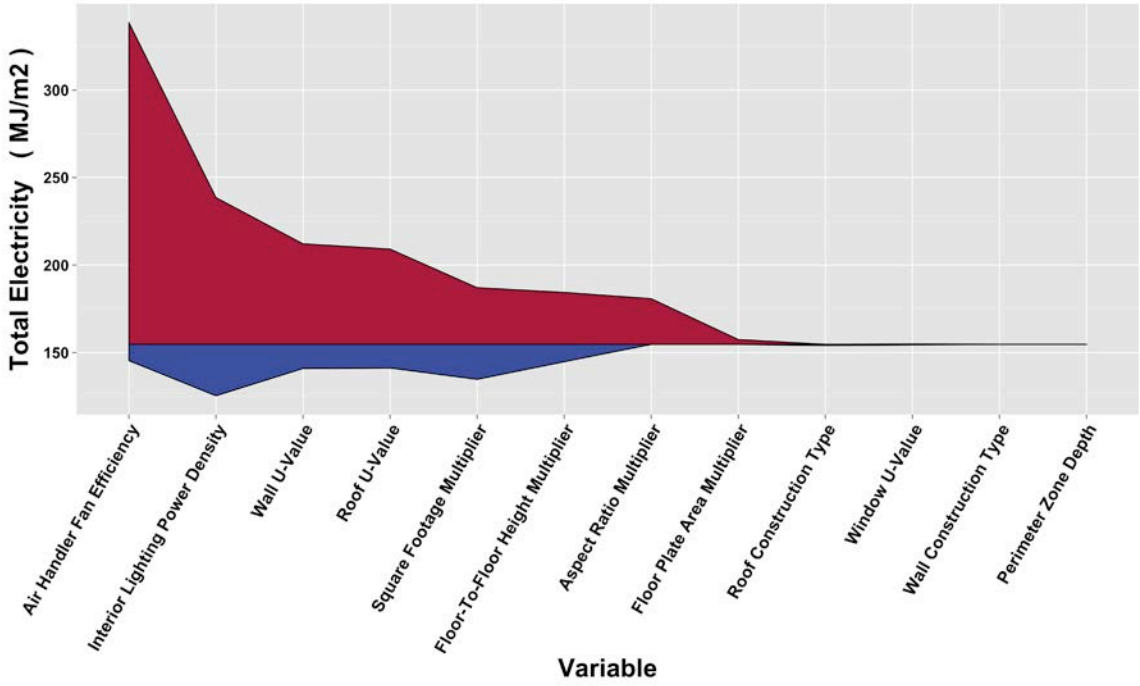
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	701.35	835.28
Floor Plate Area Multiplier	24750	49500	701.35	725.95
Square Footage Multiplier	14850	148500	611.00	868.30
Floor-To-Floor Height Multiplier	22.4	44.8	649.84	856.42
Perimeter Zone Depth	0	0	701.35	701.35
Floor R-Value for 24 in	0	0	701.35	701.35
Window-To-Wall Ratio	0	0.05	701.35	701.35
Window Sill Height	1	6	701.35	701.38
Window U-Value	0.12	1.22	700.03	702.29
Window SHGC	0.08	0.7	700.97	701.67
Window VLT	0.06	0.89	701.35	701.35
Wall Construction Type	masonry-on-masonry	wood-siding	694.62	710.95
Wall U-Value	0.03	0.58	630.09	997.59
Roof Construction Type	built-up concrete-deck	built-up wood-deck	700.63	701.57
Roof U-Value	0.01	0.2	632.27	991.33
Daylighting Control Setpoint	0	0	701.35	701.35
Interior Lighting Power Density	0.11	1.14	622.26	932.46
Shading Projection Factor	0	1	701.35	701.35

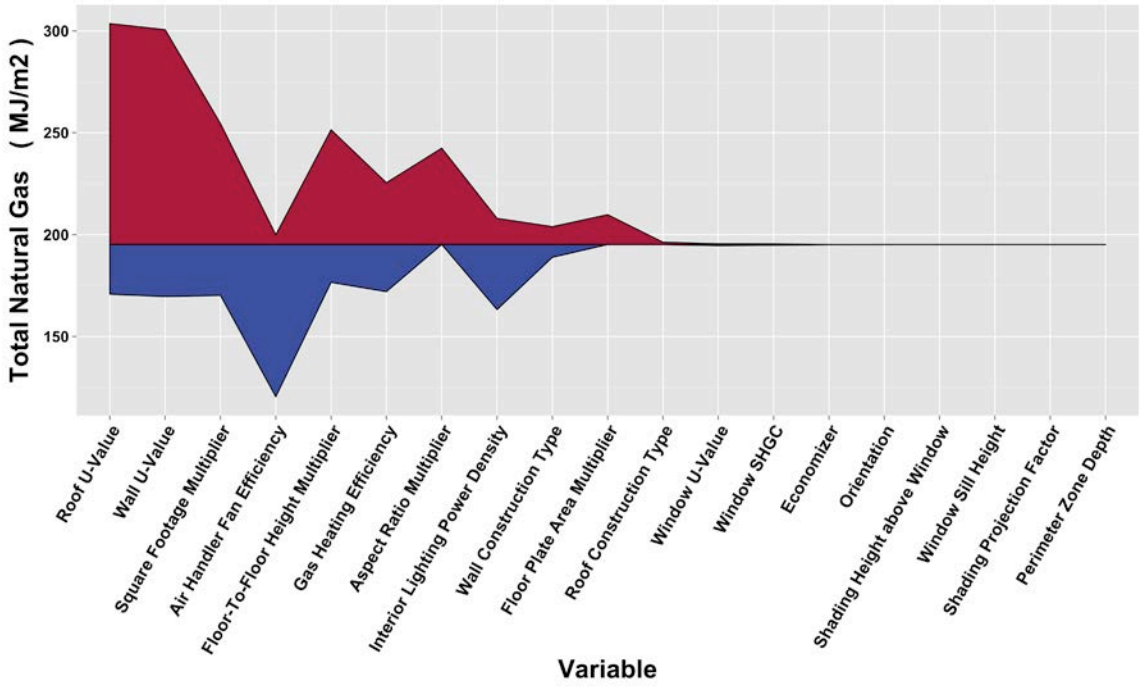
Shading Height above Window	0	2	701.35	701.37
District Chiller Cooling Efficiency	0.52	1.48	701.35	701.35
Air Handler Fan Efficiency	17.75	63.9	677.13	1202.73
Gas Heating Efficiency	0.87	1.13	676.28	734.23
Terminal DX Cooling Efficiency	0.68	1.32	701.35	701.35
Terminal Furnace Heating Efficiency	0.87	1.13	701.35	701.35
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	701.35	701.35
Water Heater Energy Factor	1	99	701.35	701.35
Economizer	false	true	701.31	701.35
Fan Control	cav	false	701.35	701.35
Orientation	0	359	701.33	701.39



Total Electricity



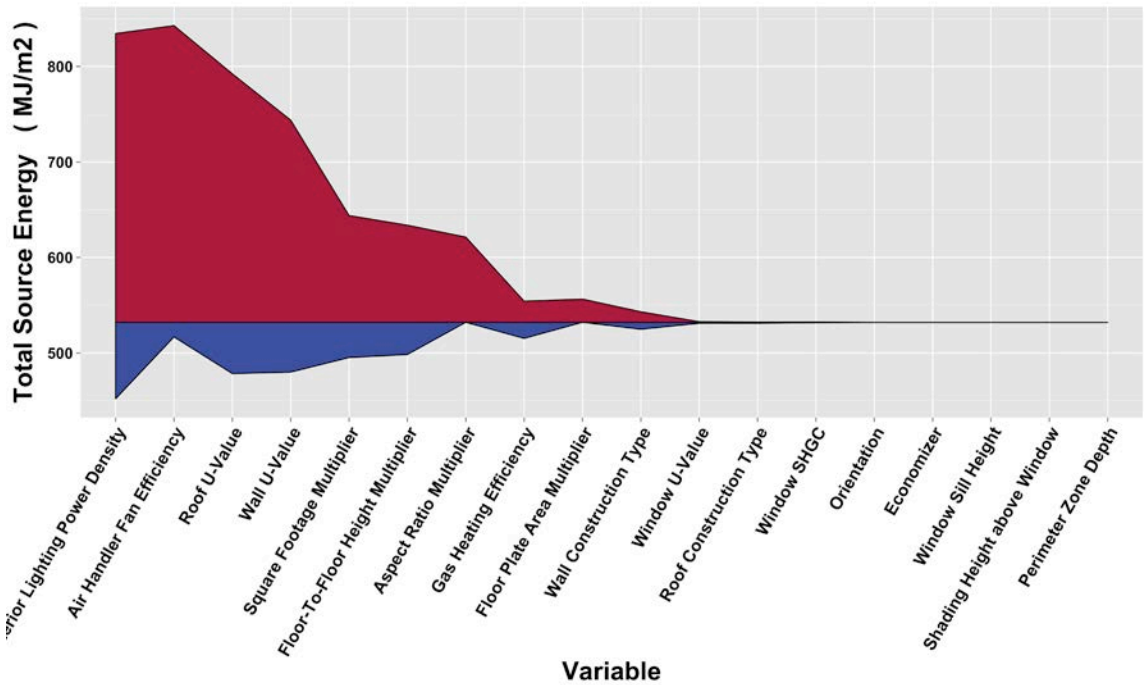
Total Natural Gas



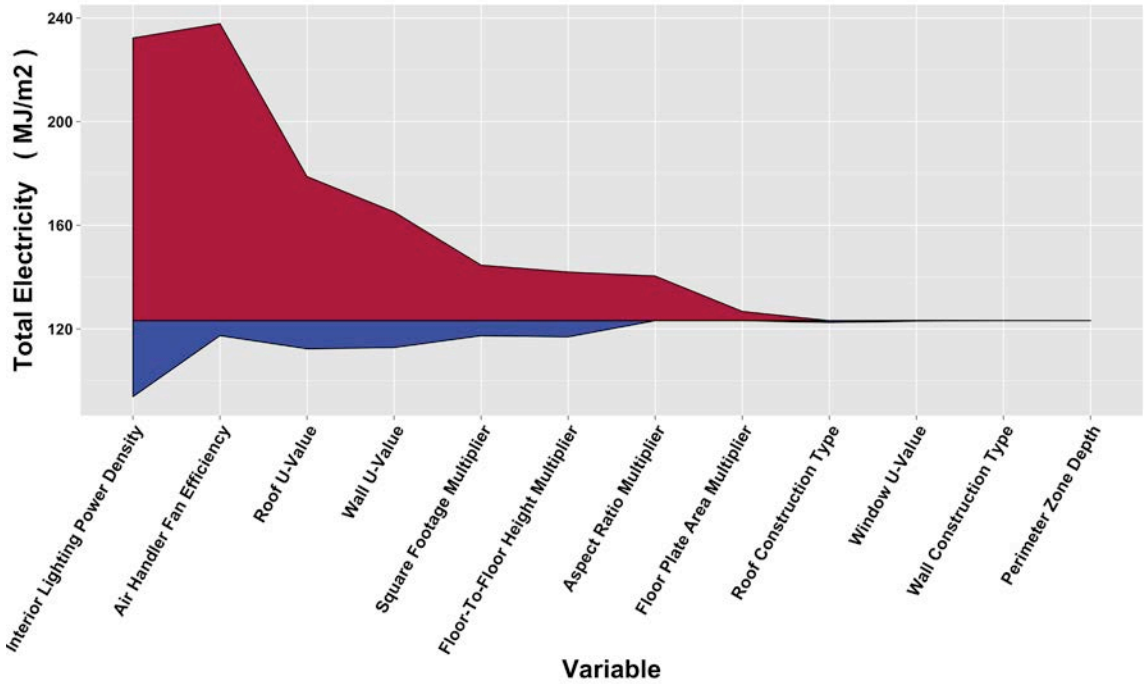
Location: Climate Zone 4B

Total Source Energy

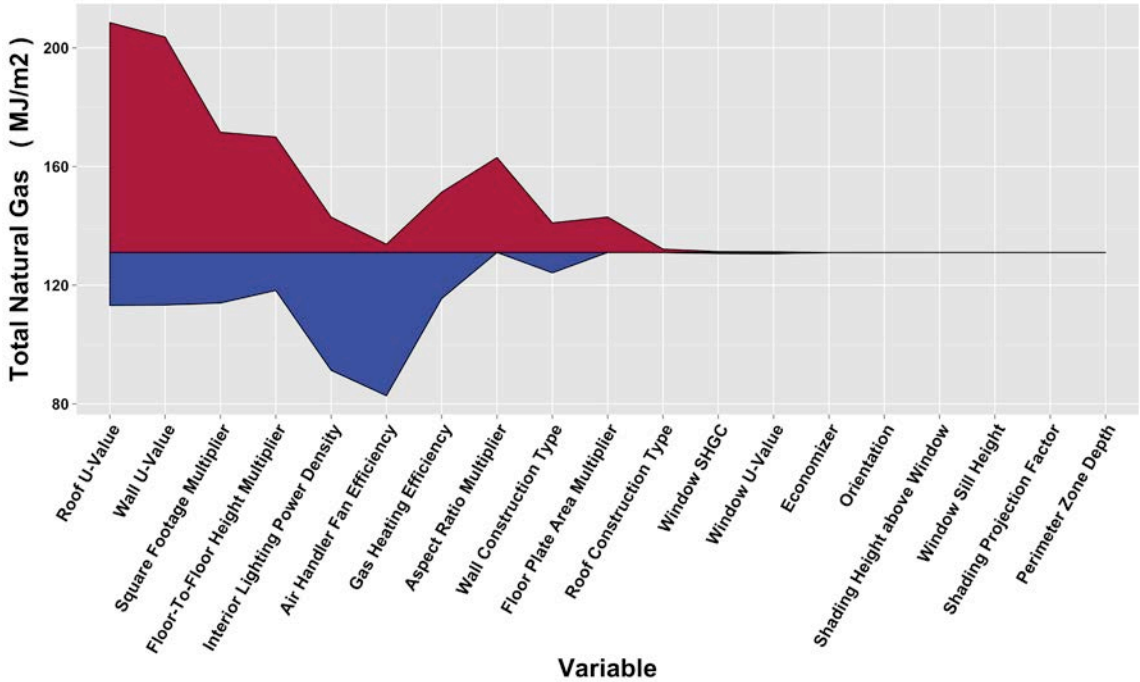
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	532.15	621.41
Floor Plate Area Multiplier	24750	49500	532.15	556.46
Square Footage Multiplier	14850	148500	495.25	643.93
Floor-To-Floor Height Multiplier	22.4	44.8	498.45	633.81
Perimeter Zone Depth	0	0	532.15	532.15
Floor R-Value for 24 in	0	0	532.15	532.15
Window-To-Wall Ratio	0	0.05	532.15	532.15
Window Sill Height	1	6	532.15	532.17
Window U-Value	0.12	1.22	531.15	532.80
Window SHGC	0.08	0.7	531.75	532.48
Window VLT	0.06	0.89	532.15	532.15
Wall Construction Type	masonry-on-masonry	wood-siding	524.90	543.20
Wall U-Value	0.03	0.58	480.03	743.86
Roof Construction Type	built-up concrete-deck	built-up wood-deck	531.14	532.37
Roof U-Value	0.01	0.2	478.44	792.34
Daylighting Control Setpoint	0	0	532.15	532.15
Interior Lighting Power Density	0.11	1.14	452.09	834.53
Shading Projection Factor	0	1	532.15	532.15
Shading Height above Window	0	2	532.15	532.17
District Chiller Cooling Efficiency	0.52	1.48	532.15	532.15
Air Handler Fan Efficiency	17.75	63.9	516.83	842.81
Gas Heating Efficiency	0.87	1.13	515.32	554.23
Terminal DX Cooling Efficiency	0.68	1.32	532.15	532.15
Terminal Furnace Heating Efficiency	0.87	1.13	532.15	532.15
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	532.15	532.15
Water Heater Energy Factor	1	99	532.15	532.15
Economizer	false	true	532.11	532.15
Fan Control	cav	false	532.15	532.15
Orientation	0	359	532.13	532.18



Total Electricity



Total Natural Gas

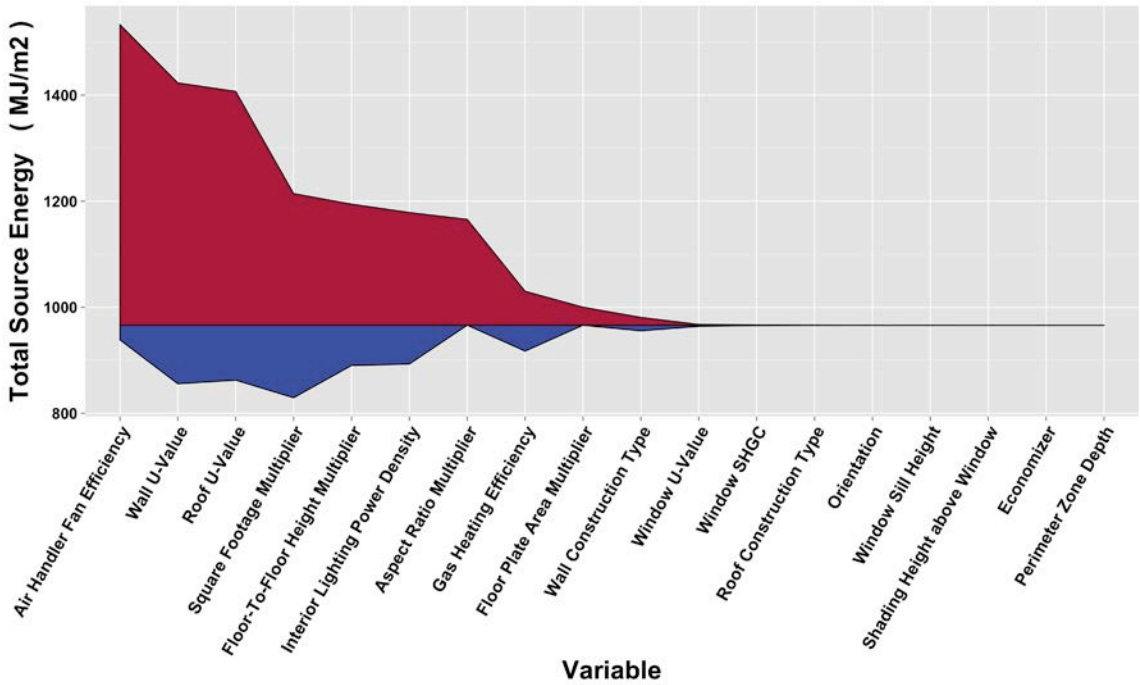


Location: Climate Zone 4C

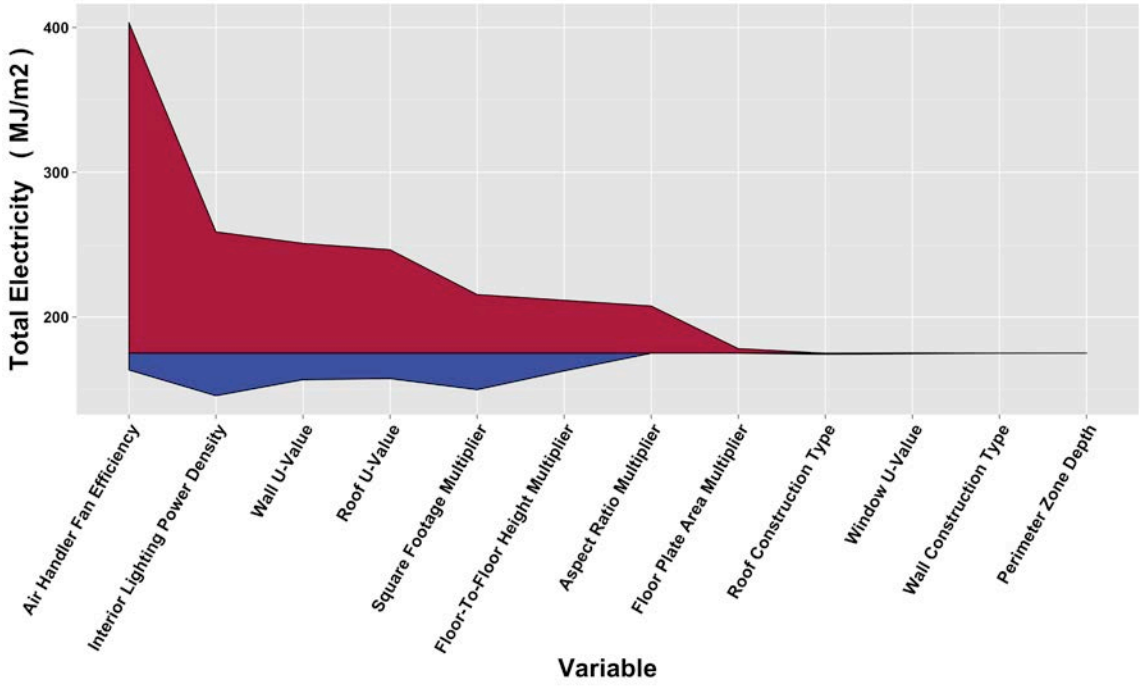
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	966.07	1165.75
Floor Plate Area Multiplier	24750	49500	966.07	1000.10
Square Footage Multiplier	14850	148500	829.24	1214.40
Floor-To-Floor Height Multiplier	22.4	44.8	890.05	1194.43
Perimeter Zone Depth	0	0	966.07	966.07
Floor R-Value for 24 in	0	0	966.07	966.07
Window-To-Wall Ratio	0	0.05	966.07	966.07
Window Sill Height	1	6	966.07	966.12
Window U-Value	0.12	1.22	964.04	967.48
Window SHGC	0.08	0.7	965.45	966.59
Window VLT	0.06	0.89	966.07	966.07
Wall Construction Type	masonry-on-masonry	wood-siding	955.45	980.82
Wall U-Value	0.03	0.58	855.62	1423.20
Roof Construction Type	built-up concrete-deck	built-up wood-deck	966.07	966.41
Roof U-Value	0.01	0.2	862.49	1407.12
Daylighting Control Setpoint	0	0	966.07	966.07
Interior Lighting Power Density	0.11	1.14	892.87	1178.66
Shading Projection Factor	0	1	966.07	966.07

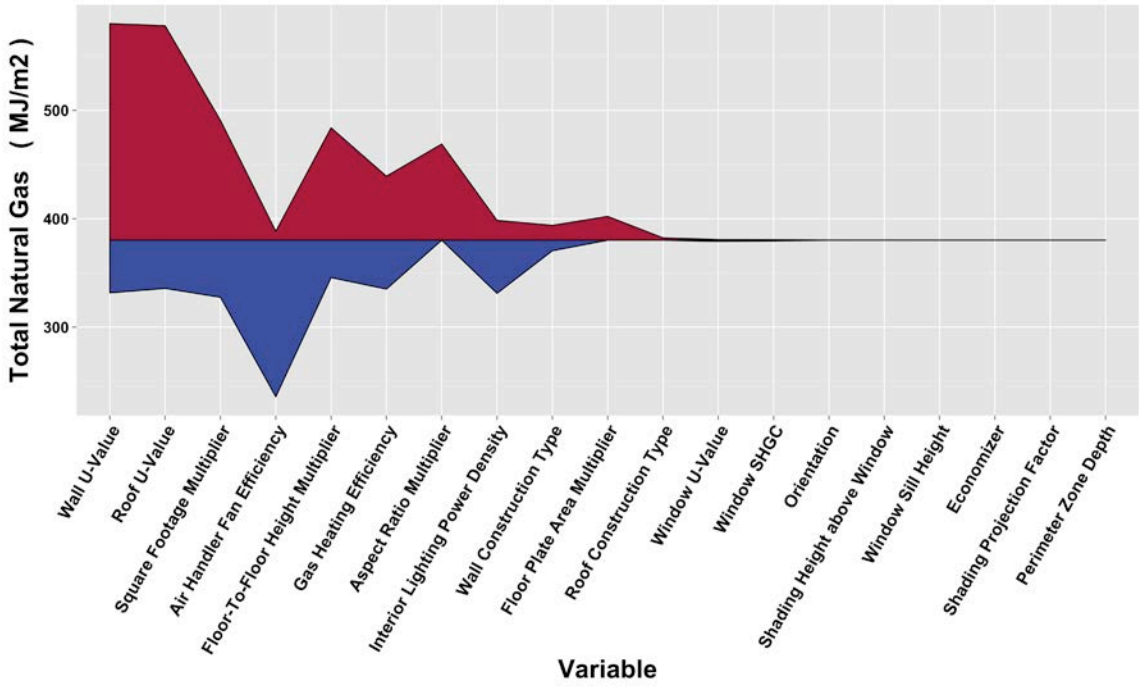
Shading Height above Window	0	2	966.07	966.11
District Chiller Cooling Efficiency	0.52	1.48	966.07	966.07
Air Handler Fan Efficiency	17.75	63.9	938.47	1533.15
Gas Heating Efficiency	0.87	1.13	917.22	1030.11
Terminal DX Cooling Efficiency	0.68	1.32	966.07	966.07
Terminal Furnace Heating Efficiency	0.87	1.13	966.07	966.07
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	966.07	966.07
Water Heater Energy Factor	1	99	966.07	966.07
Economizer	false	true	966.07	966.10
Fan Control	cav	false	966.07	966.07
Orientation	0	359	966.03	966.11



Total Electricity



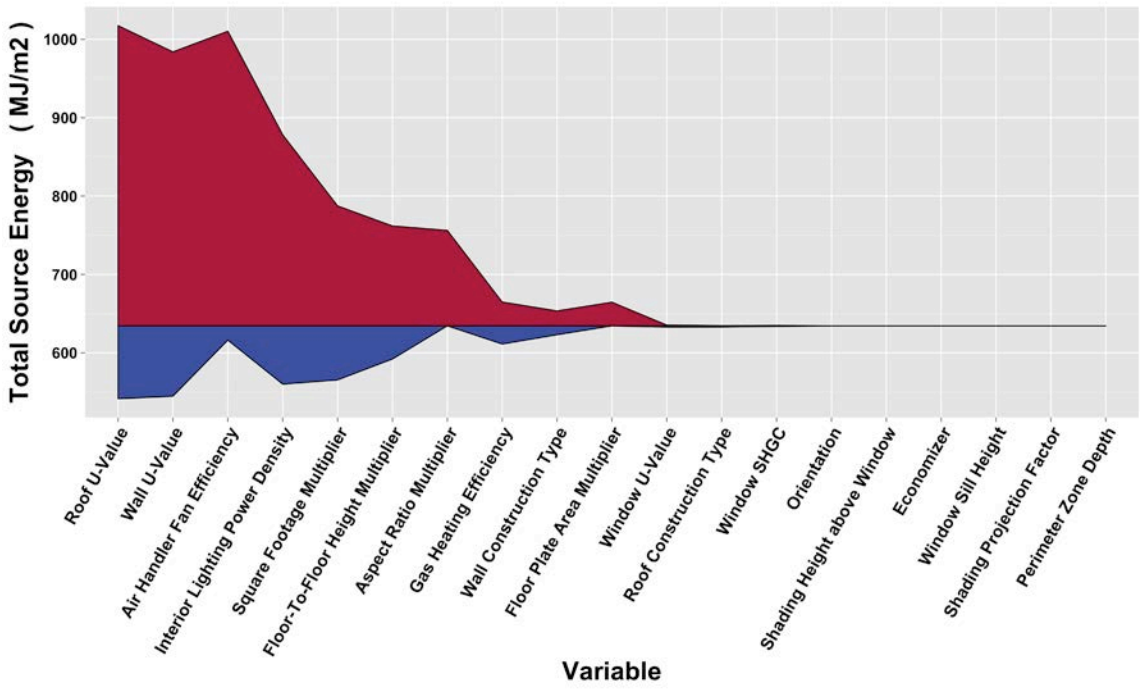
Total Natural Gas



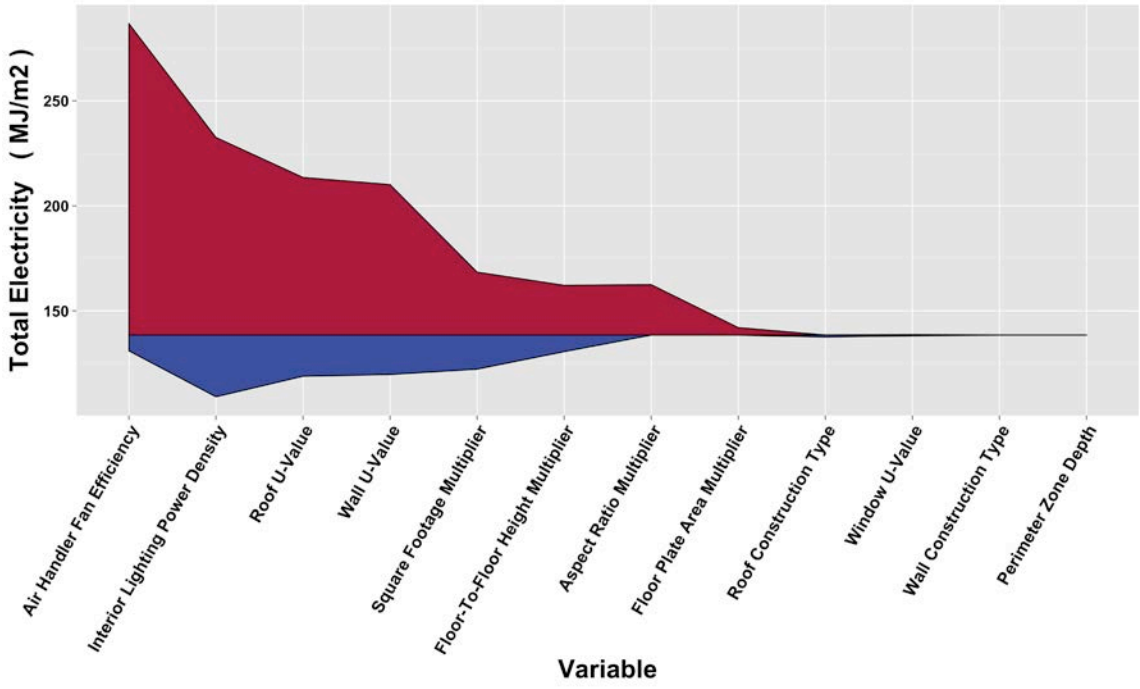
Location: Climate Zone 5A

Total Source Energy

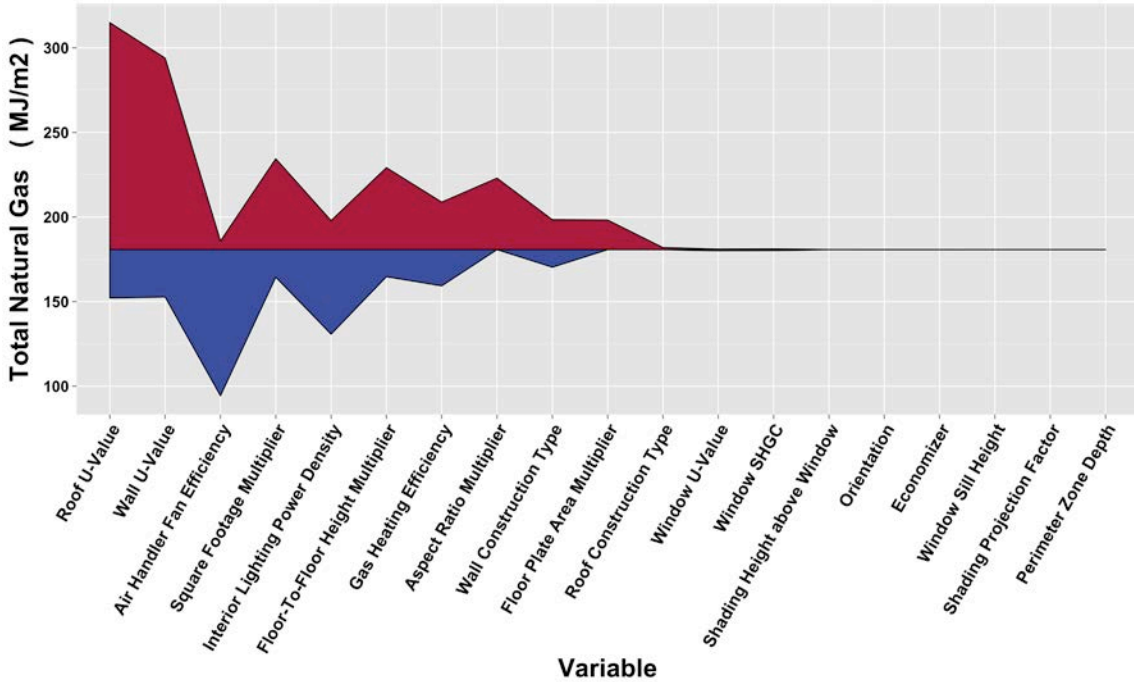
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	634.42	756.25
Floor Plate Area Multiplier	24750	49500	634.42	664.60
Square Footage Multiplier	14850	148500	565.44	787.54
Floor-To-Floor Height Multiplier	22.4	44.8	592.10	761.91
Perimeter Zone Depth	0	0	634.42	634.42
Floor R-Value for 24 in	0	0	634.42	634.42
Window-To-Wall Ratio	0	0.05	634.42	634.42
Window Sill Height	1	6	634.42	634.44
Window U-Value	0.12	1.22	632.79	635.41
Window SHGC	0.08	0.7	633.84	634.90
Window VLT	0.06	0.89	634.42	634.42
Wall Construction Type	masonry-on-masonry	wood-siding	623.07	653.52
Wall U-Value	0.03	0.58	544.69	984.03
Roof Construction Type	built-up concrete-deck	built-up wood-deck	632.89	634.63
Roof U-Value	0.01	0.2	541.40	1017.54
Daylighting Control Setpoint	0	0	634.42	634.42
Interior Lighting Power Density	0.11	1.14	560.03	878.24
Shading Projection Factor	0	1	634.41	634.42
Shading Height above Window	0	2	634.42	634.45
District Chiller Cooling Efficiency	0.52	1.48	634.42	634.42
Air Handler Fan Efficiency	17.75	63.9	616.22	1010.40
Gas Heating Efficiency	0.87	1.13	611.20	664.85
Terminal DX Cooling Efficiency	0.68	1.32	634.42	634.42
Terminal Furnace Heating Efficiency	0.87	1.13	634.42	634.42
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	634.42	634.42
Water Heater Energy Factor	1	99	634.42	634.42
Economizer	false	true	634.39	634.42
Fan Control	cav	false	634.42	634.42
Orientation	0	359	634.38	634.42



Total Electricity



Total Natural Gas

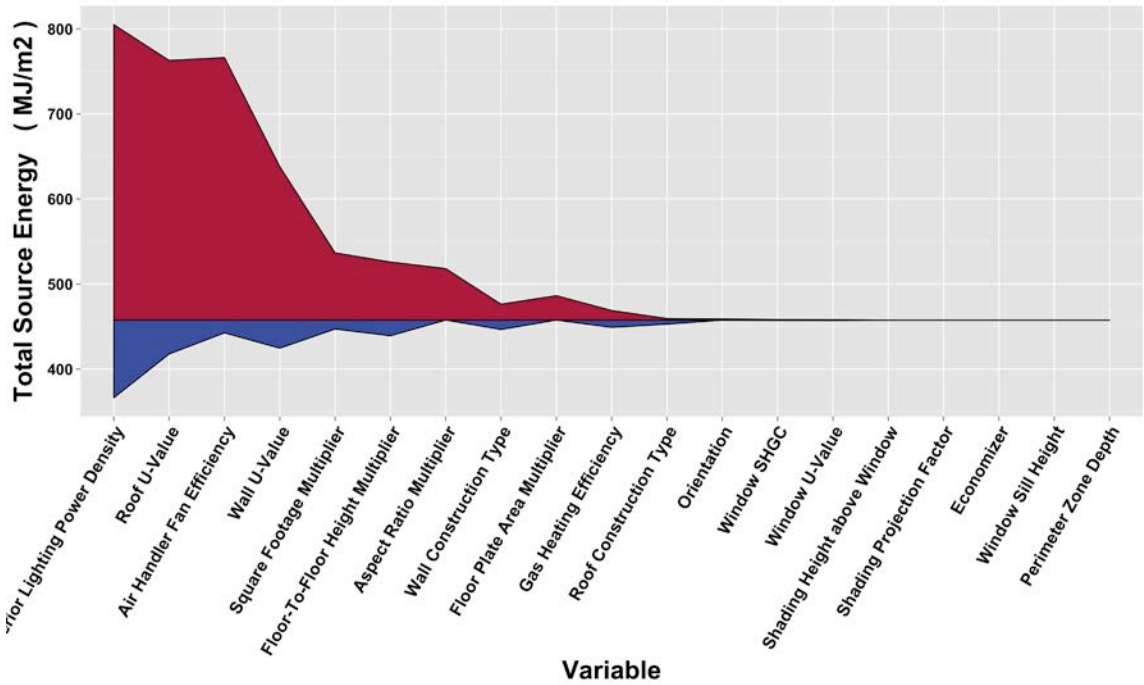


Location: Climate Zone 5B

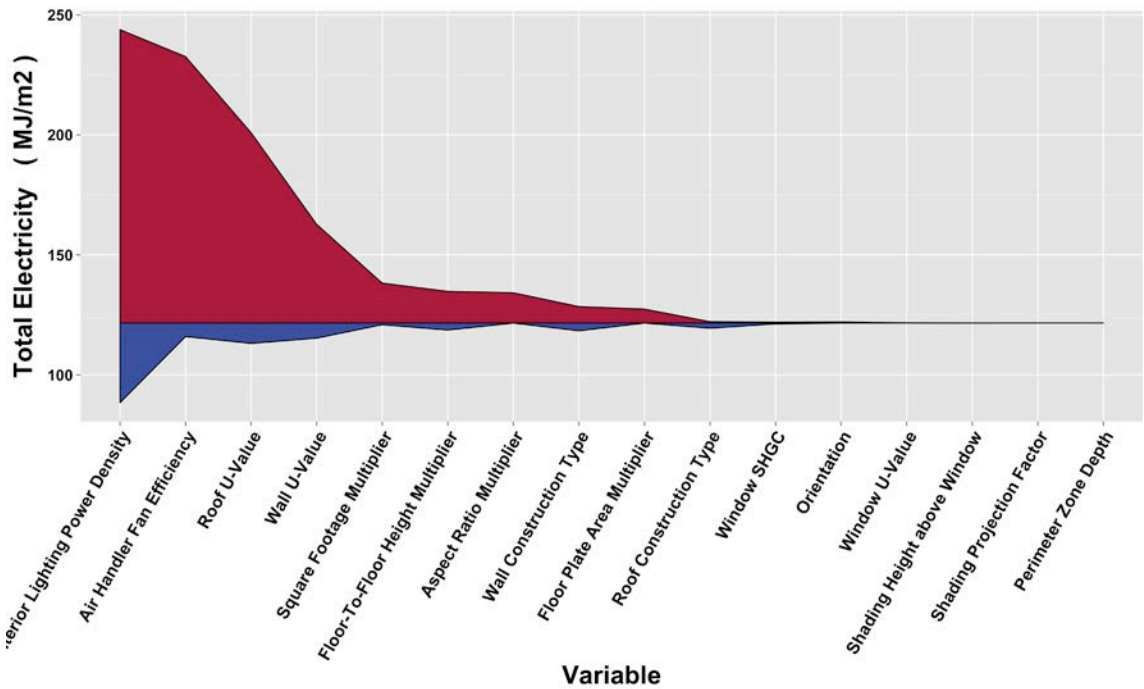
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	457.59	518.18
Floor Plate Area Multiplier	24750	49500	457.59	486.30
Square Footage Multiplier	14850	148500	447.07	536.66
Floor-To-Floor Height Multiplier	22.4	44.8	439.12	525.90
Perimeter Zone Depth	0	0	457.59	457.59
Floor R-Value for 24 in	0	0	457.59	457.59
Window-To-Wall Ratio	0	0.05	457.59	457.59
Window Sill Height	1	6	457.59	457.60
Window U-Value	0.12	1.22	457.08	458.01
Window SHGC	0.08	0.7	457.16	458.13
Window VLT	0.06	0.89	457.59	457.59
Wall Construction Type	masonry-on-masonry	wood-siding	446.50	476.29
Wall U-Value	0.03	0.58	424.54	638.10
Roof Construction Type	built-up concrete-deck	built-up wood-deck	452.77	459.43
Roof U-Value	0.01	0.2	417.69	762.92
Daylighting Control Setpoint	0	0	457.59	457.59
Interior Lighting Power Density	0.11	1.14	366.24	805.08
Shading Projection Factor	0	1	457.59	457.62

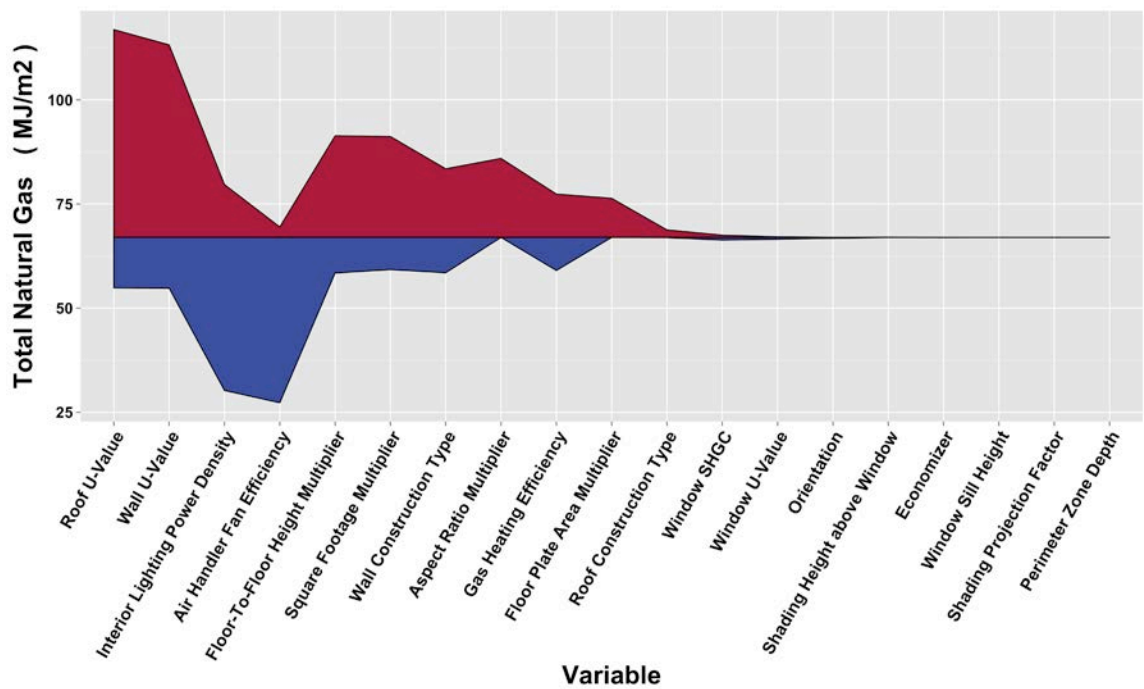
Shading Height above Window	0	2	457.54	457.59
District Chiller Cooling Efficiency	0.52	1.48	457.59	457.59
Air Handler Fan Efficiency	17.75	63.9	442.56	766.27
Gas Heating Efficiency	0.87	1.13	448.98	468.87
Terminal DX Cooling Efficiency	0.68	1.32	457.59	457.59
Terminal Furnace Heating Efficiency	0.87	1.13	457.59	457.59
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	457.59	457.59
Water Heater Energy Factor	1	99	457.59	457.59
Economizer	false	true	457.56	457.59
Fan Control	cav	false	457.59	457.59
Orientation	0	359	457.56	458.91



Total Electricity



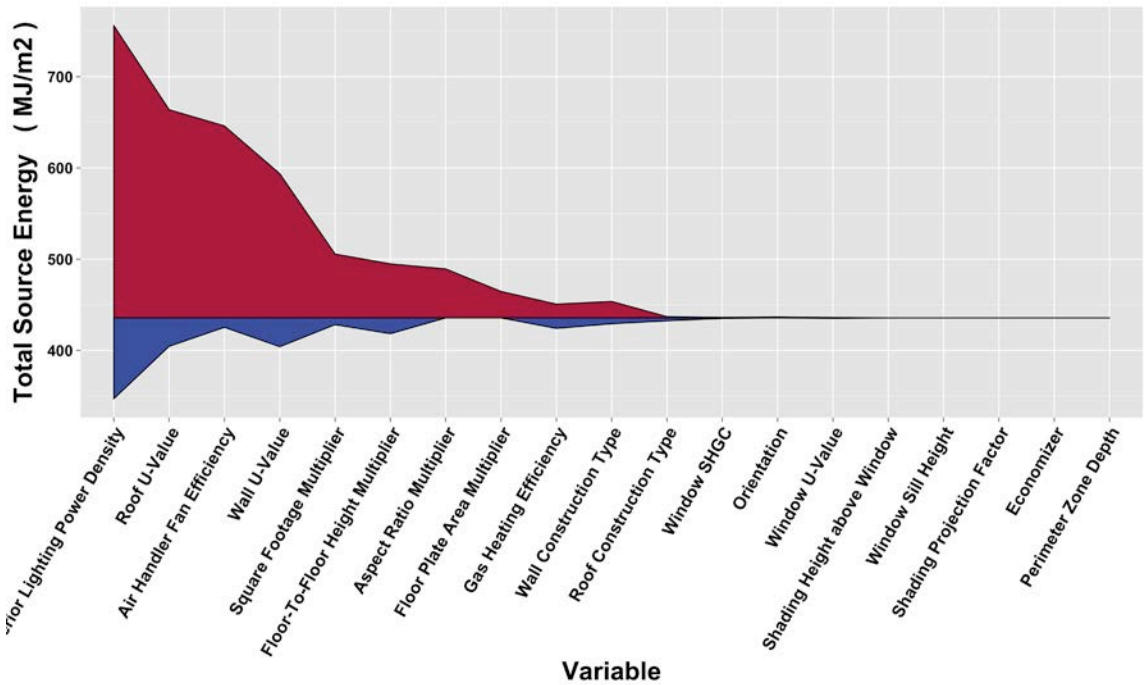
Total Natural Gas



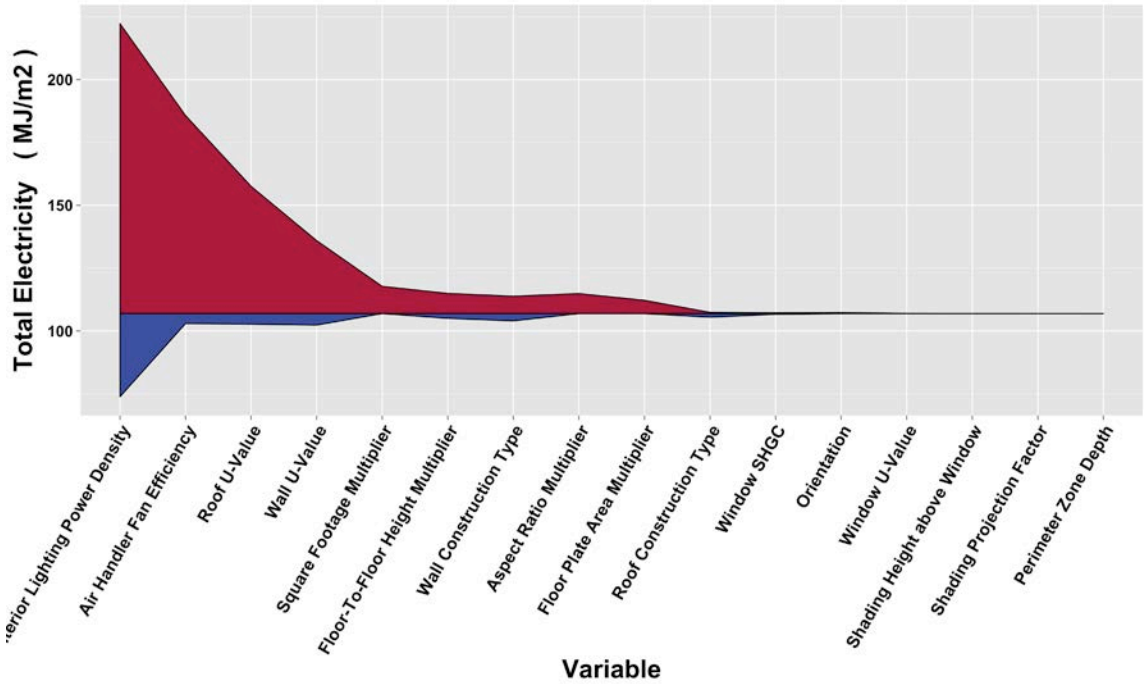
Location: Climate Zone 5C

Total Source Energy

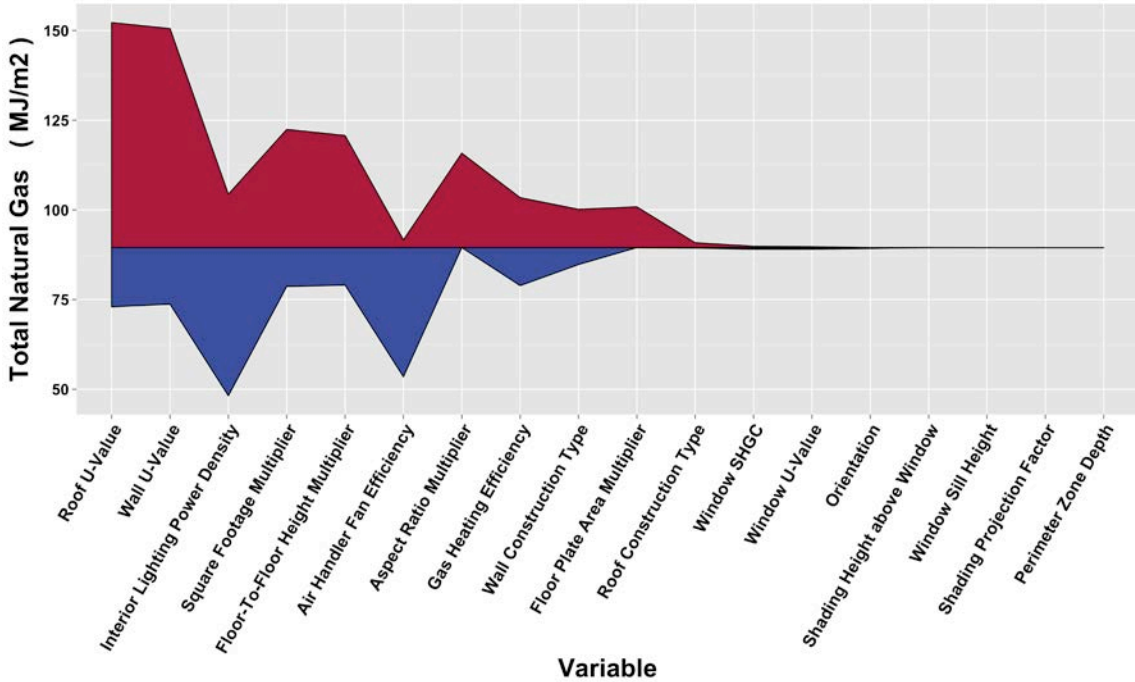
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	435.58	489.29
Floor Plate Area Multiplier	24750	49500	435.58	464.59
Square Footage Multiplier	14850	148500	428.18	505.58
Floor-To-Floor Height Multiplier	22.4	44.8	418.25	494.81
Perimeter Zone Depth	0	0	435.58	435.58
Floor R-Value for 24 in	0	0	435.58	435.58
Window-To-Wall Ratio	0	0.05	435.58	435.58
Window Sill Height	1	6	435.58	435.59
Window U-Value	0.12	1.22	435.13	435.96
Window SHGC	0.08	0.7	435.09	436.15
Window VLT	0.06	0.89	435.58	435.58
Wall Construction Type	masonry-on-masonry	wood-siding	429.20	453.65
Wall U-Value	0.03	0.58	403.99	593.71
Roof Construction Type	built-up concrete-deck	built-up wood-deck	432.43	436.92
Roof U-Value	0.01	0.2	404.44	663.88
Daylighting Control Setpoint	0	0	435.58	435.58
Interior Lighting Power Density	0.11	1.14	346.91	756.08
Shading Projection Factor	0	1	435.58	435.59
Shading Height above Window	0	2	435.53	435.58
District Chiller Cooling Efficiency	0.52	1.48	435.58	435.58
Air Handler Fan Efficiency	17.75	63.9	425.28	646.08
Gas Heating Efficiency	0.87	1.13	424.07	450.66
Terminal DX Cooling Efficiency	0.68	1.32	435.58	435.58
Terminal Furnace Heating Efficiency	0.87	1.13	435.58	435.58
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	435.58	435.58
Water Heater Energy Factor	1	99	435.58	435.58
Economizer	false	true	435.57	435.58
Fan Control	cav	false	435.58	435.58
Orientation	0	359	435.58	436.60



Total Electricity



Total Natural Gas

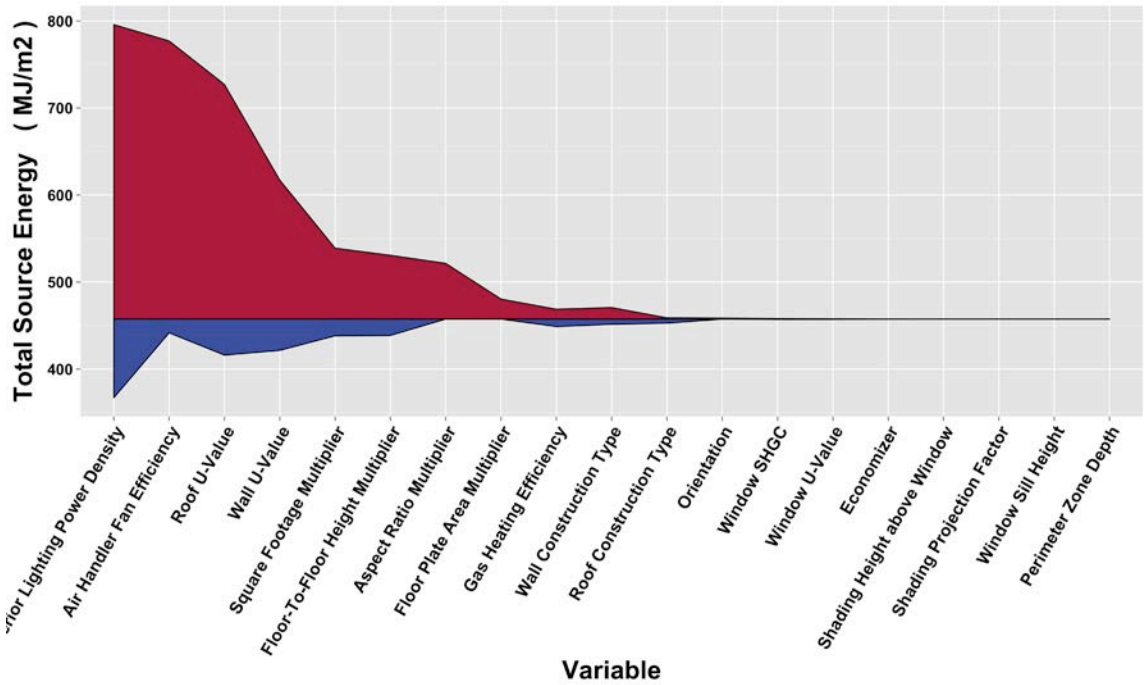


Location: Climate Zone 6A

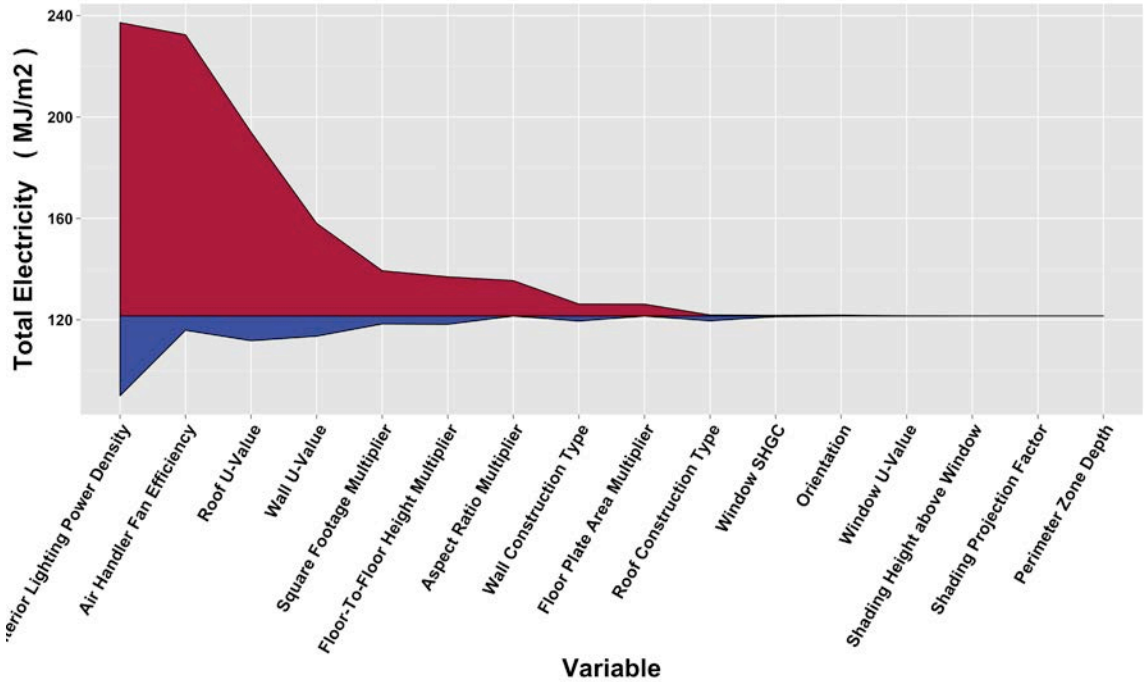
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	457.50	521.53
Floor Plate Area Multiplier	24750	49500	457.50	480.52
Square Footage Multiplier	14850	148500	438.24	539.02
Floor-To-Floor Height Multiplier	22.4	44.8	438.69	530.78
Perimeter Zone Depth	0	0	457.50	457.50
Floor R-Value for 24 in	0	0	457.50	457.50
Window-To-Wall Ratio	0	0.05	457.50	457.50
Window Sill Height	1	6	457.50	457.51
Window U-Value	0.12	1.22	457.07	457.91
Window SHGC	0.08	0.7	457.01	458.08
Window VLT	0.06	0.89	457.50	457.50
Wall Construction Type	masonry-on-masonry	wood-siding	451.49	470.75
Wall U-Value	0.03	0.58	421.52	617.20
Roof Construction Type	built-up concrete-deck	built-up wood-deck	452.76	458.92
Roof U-Value	0.01	0.2	416.05	727.15
Daylighting Control Setpoint	0	0	457.50	457.50
Interior Lighting Power Density	0.11	1.14	367.07	795.87
Shading Projection Factor	0	1	457.50	457.53

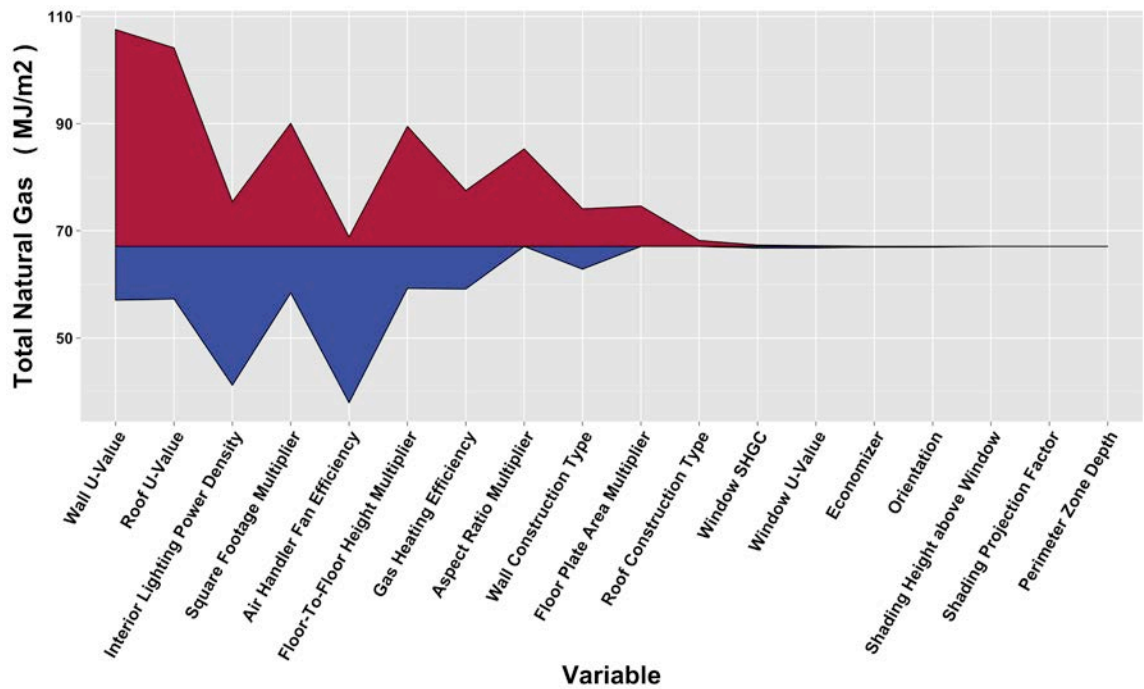
Shading Height above Window	0	2	457.45	457.50
District Chiller Cooling Efficiency	0.52	1.48	457.50	457.50
Air Handler Fan Efficiency	17.75	63.9	441.67	777.14
Gas Heating Efficiency	0.87	1.13	448.88	468.80
Terminal DX Cooling Efficiency	0.68	1.32	457.50	457.50
Terminal Furnace Heating Efficiency	0.87	1.13	457.50	457.50
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	457.50	457.50
Water Heater Energy Factor	1	99	457.50	457.50
Economizer	false	true	457.35	457.50
Fan Control	cav	false	457.50	457.50
Orientation	0	359	457.47	458.58



Total Electricity



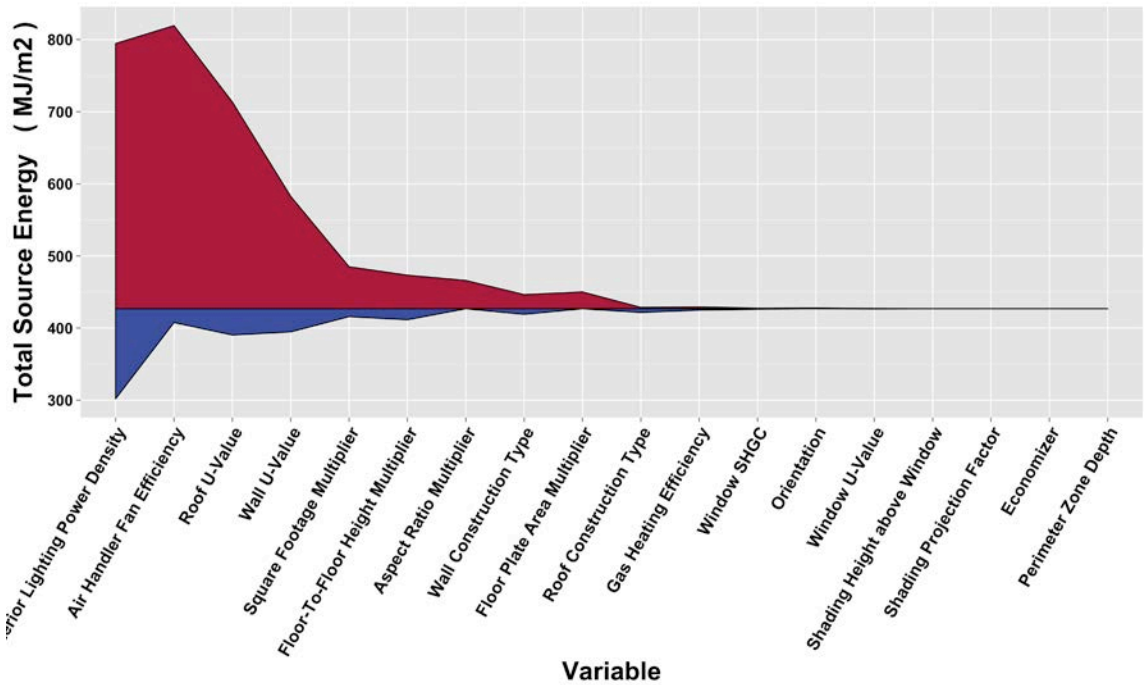
Total Natural Gas



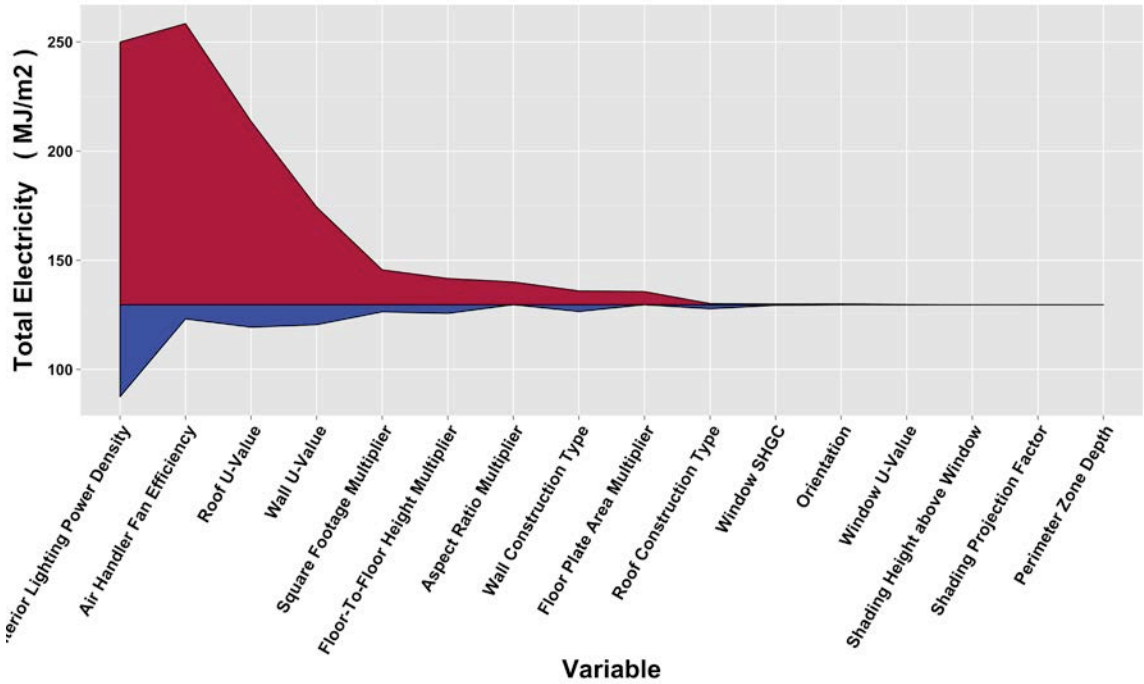
Location: Climate Zone 6B

Total Source Energy

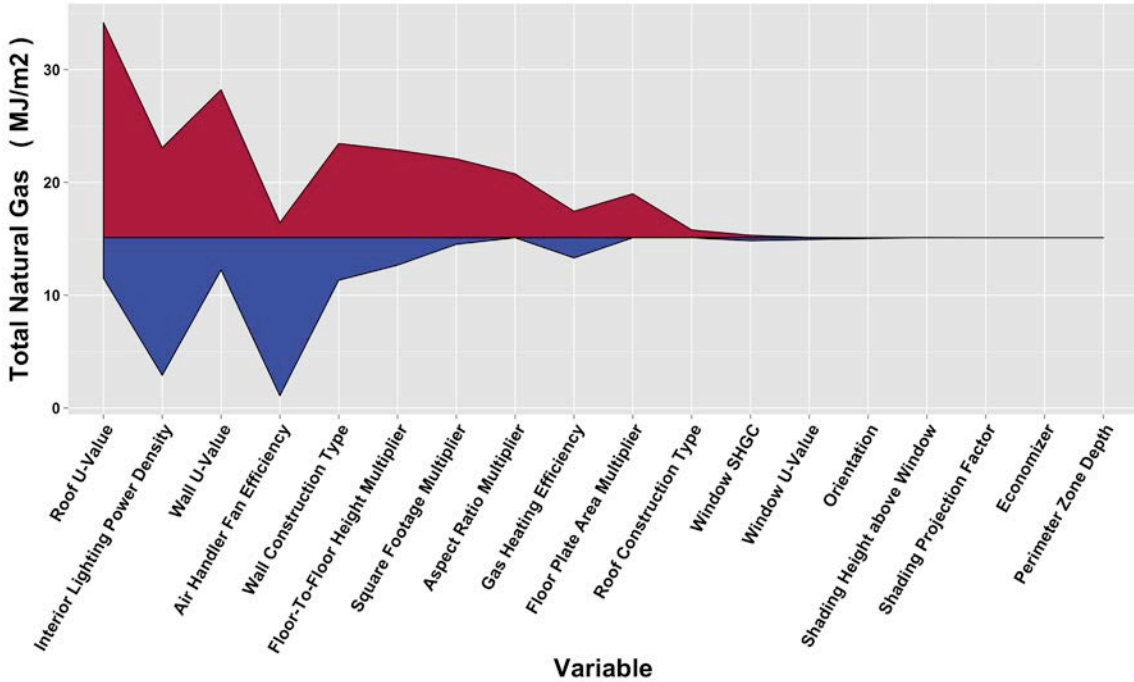
Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	426.84	466.05
Floor Plate Area Multiplier	24750	49500	426.84	450.12
Square Footage Multiplier	14850	148500	415.92	485.07
Floor-To-Floor Height Multiplier	22.4	44.8	411.58	473.35
Perimeter Zone Depth	0	0	426.84	426.84
Floor R-Value for 24 in	0	0	426.84	426.84
Window-To-Wall Ratio	0	0.05	426.84	426.84
Window Sill Height	1	6	426.84	426.84
Window U-Value	0.12	1.22	426.49	427.22
Window SHGC	0.08	0.7	426.22	427.59
Window VLT	0.06	0.89	426.84	426.84
Wall Construction Type	masonry-on-masonry	wood-siding	419.07	446.43
Wall U-Value	0.03	0.58	394.77	582.72
Roof Construction Type	built-up concrete-deck	built-up wood-deck	421.72	428.68
Roof U-Value	0.01	0.2	390.38	713.51
Daylighting Control Setpoint	0	0	426.84	426.84
Interior Lighting Power Density	0.11	1.14	302.01	794.63
Shading Projection Factor	0	1	426.84	426.87
Shading Height above Window	0	2	426.77	426.84
District Chiller Cooling Efficiency	0.52	1.48	426.84	426.84
Air Handler Fan Efficiency	17.75	63.9	407.69	819.45
Gas Heating Efficiency	0.87	1.13	424.90	429.38
Terminal DX Cooling Efficiency	0.68	1.32	426.84	426.84
Terminal Furnace Heating Efficiency	0.87	1.13	426.84	426.84
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	426.84	426.84
Water Heater Energy Factor	1	99	426.84	426.84
Economizer	false	true	426.83	426.84
Fan Control	cav	false	426.84	426.84
Orientation	0	359	426.84	427.93



Total Electricity



Total Natural Gas

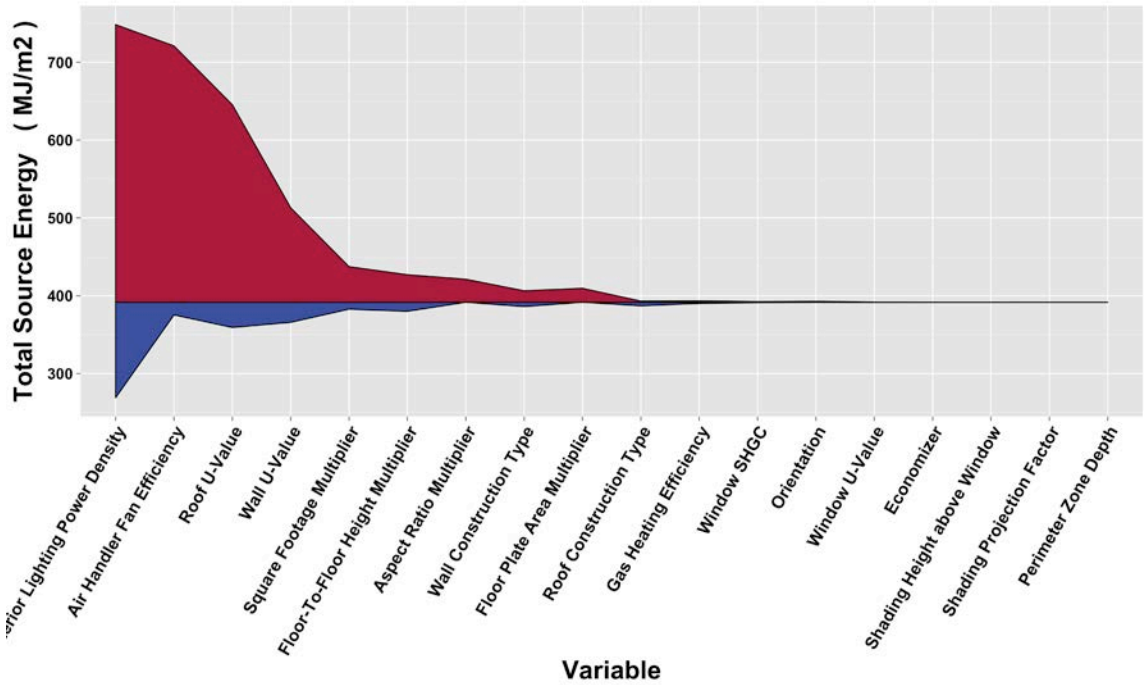


Location: Climate Zone 7

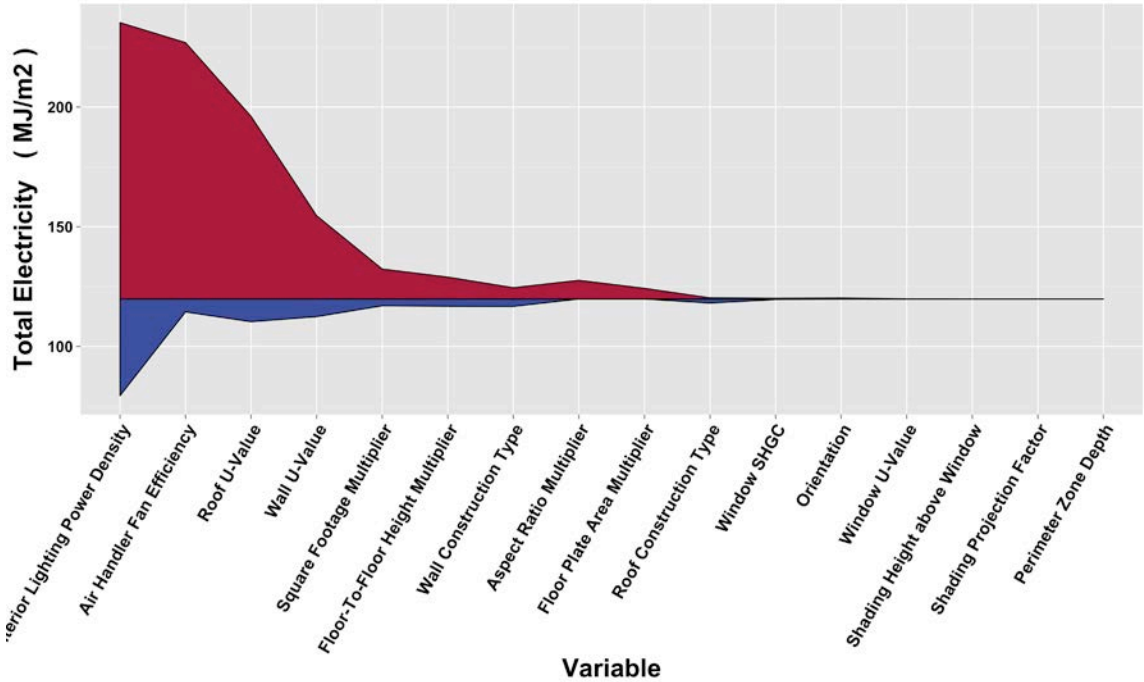
Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	391.60	421.23
Floor Plate Area Multiplier	24750	49500	391.60	409.50
Square Footage Multiplier	14850	148500	382.70	437.33
Floor-To-Floor Height Multiplier	22.4	44.8	379.98	427.00
Perimeter Zone Depth	0	0	391.60	391.60
Floor R-Value for 24 in	0	0	391.60	391.60
Window-To-Wall Ratio	0	0.05	391.60	391.60
Window Sill Height	1	6	391.60	391.60
Window U-Value	0.12	1.22	391.37	391.89
Window SHGC	0.08	0.7	390.97	392.34
Window VLT	0.06	0.89	391.60	391.60
Wall Construction Type	masonry-on-masonry	wood-siding	386.03	406.34
Wall U-Value	0.03	0.58	365.79	513.05
Roof Construction Type	built-up concrete-deck	built-up wood-deck	386.99	393.13
Roof U-Value	0.01	0.2	359.16	645.48
Daylighting Control Setpoint	0	0	391.60	391.60
Interior Lighting Power Density	0.11	1.14	268.88	748.36
Shading Projection Factor	0	1	391.60	391.62

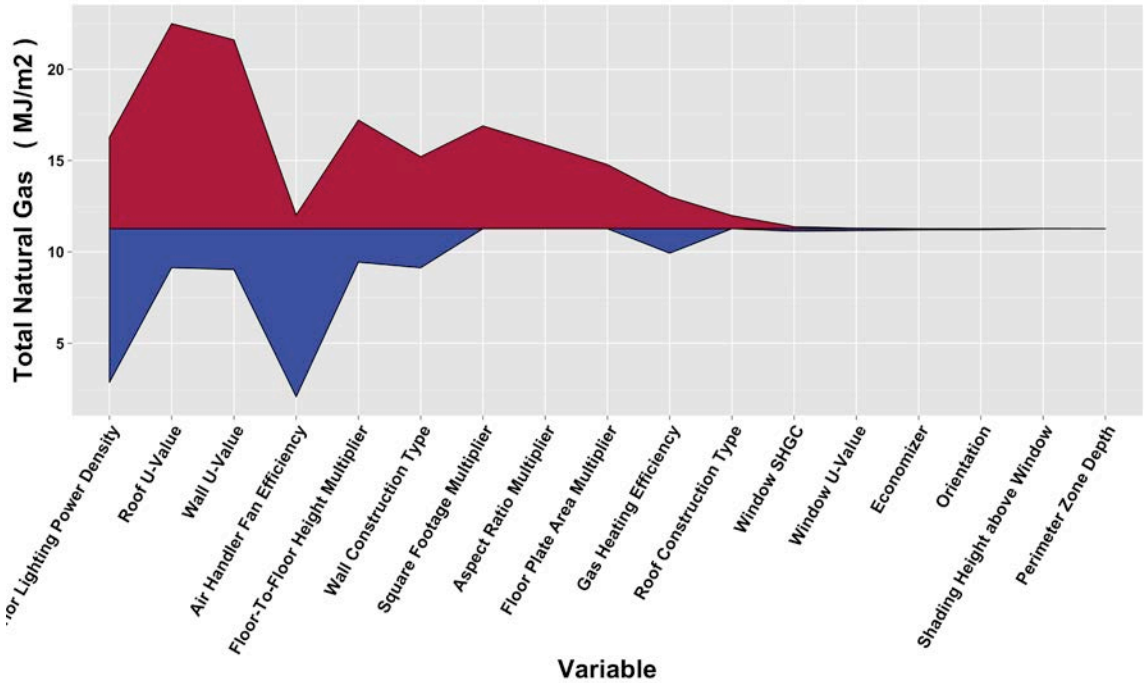
Shading Height above Window	0	2	391.54	391.60
District Chiller Cooling Efficiency	0.52	1.48	391.60	391.60
Air Handler Fan Efficiency	17.75	63.9	375.27	721.02
Gas Heating Efficiency	0.87	1.13	390.15	393.49
Terminal DX Cooling Efficiency	0.68	1.32	391.60	391.60
Terminal Furnace Heating Efficiency	0.87	1.13	391.60	391.60
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	391.60	391.60
Water Heater Energy Factor	1	99	391.60	391.60
Economizer	false	true	391.52	391.60
Fan Control	cav	false	391.60	391.60
Orientation	0	359	391.56	392.76



Total Electricity



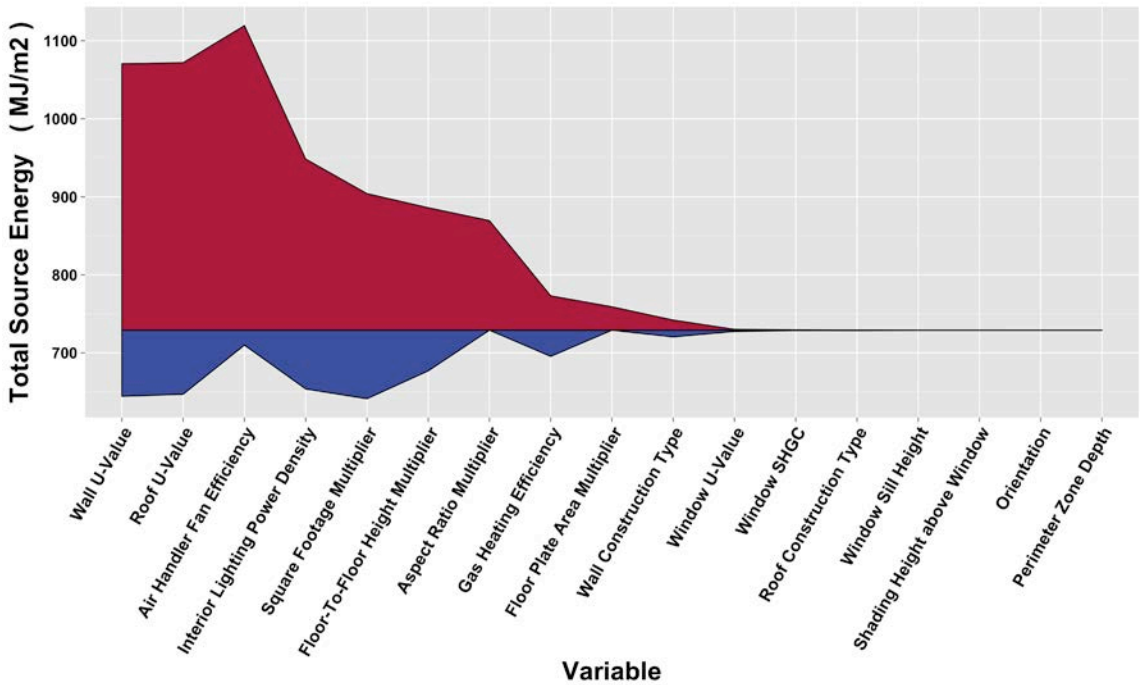
Total Natural Gas



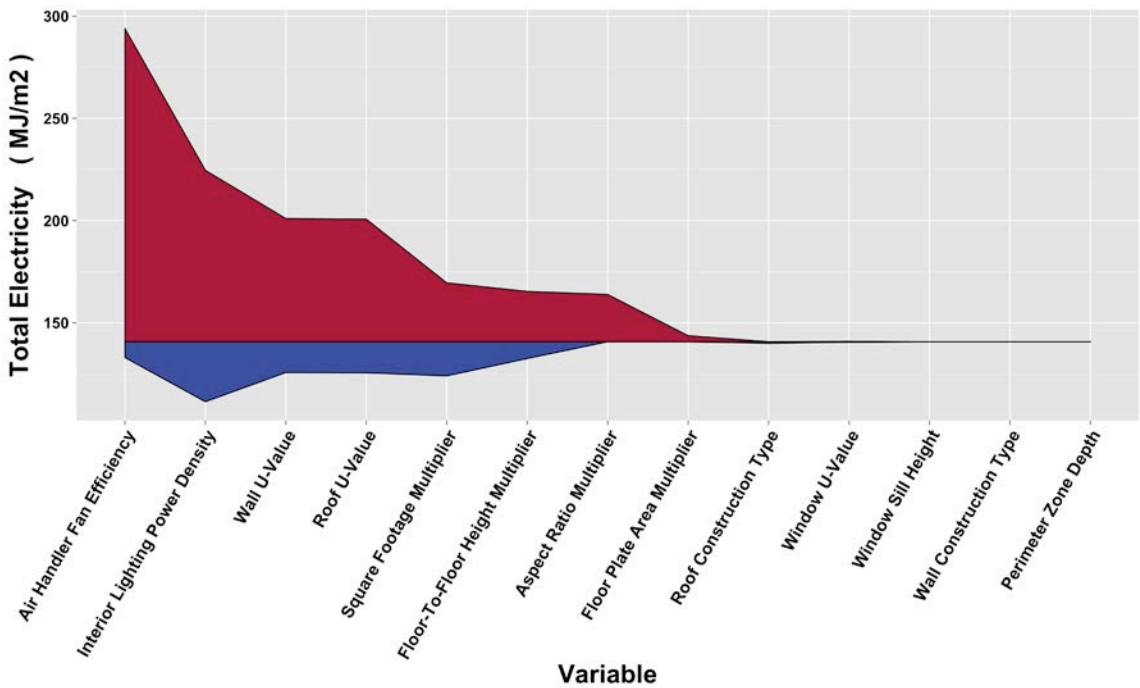
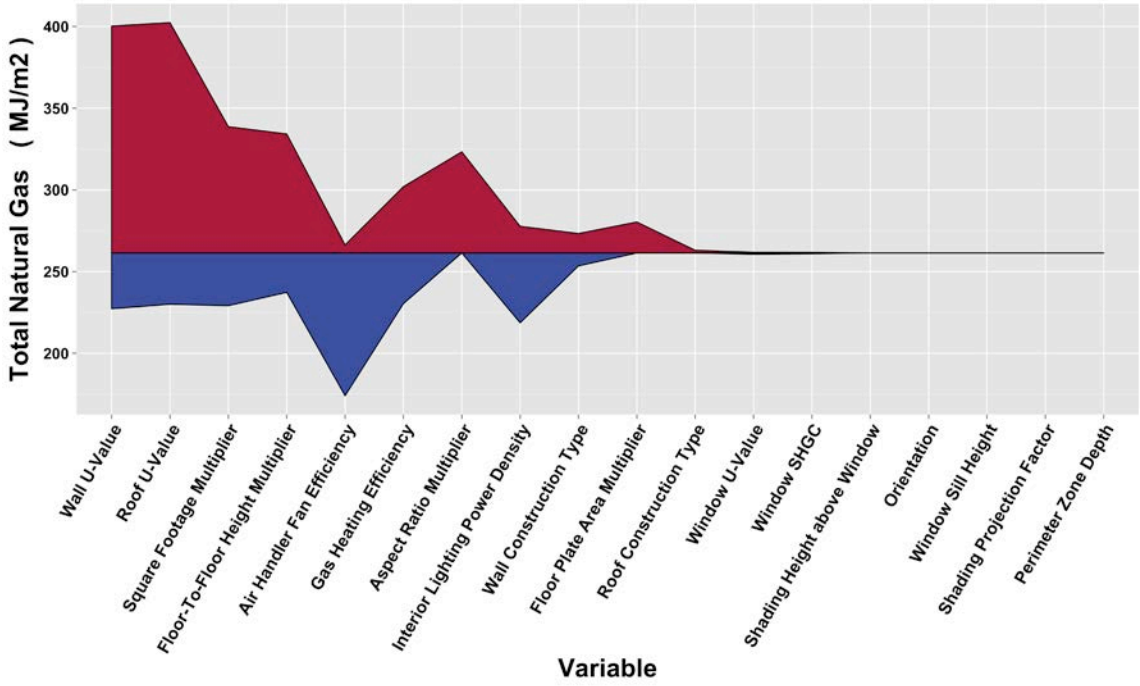
Location: Climate Zone 8

Total Source Energy

Variable Display Name	Minimum Input Value	Maximum Input Value	Minimum Total Source Energy	Maximum Total Source Energy
Aspect Ratio Multiplier	2.2	11	728.99	869.44
Floor Plate Area Multiplier	24750	49500	728.99	758.95
Square Footage Multiplier	14850	148500	641.09	904.07
Floor-To-Floor Height Multiplier	22.4	44.8	676.83	885.96
Perimeter Zone Depth	0	0	728.99	728.99
Floor R-Value for 24 in	0	0	728.99	728.99
Window-To-Wall Ratio	0	0.05	728.99	728.99
Window Sill Height	1	6	728.99	729.03
Window U-Value	0.12	1.22	727.44	730.03
Window SHGC	0.08	0.7	728.50	729.40
Window VLT	0.06	0.89	728.99	728.99
Wall Construction Type	masonry-on-masonry	wood-siding	720.41	741.96
Wall U-Value	0.03	0.58	644.26	1070.47
Roof Construction Type	built-up concrete-deck	built-up wood-deck	728.40	729.16
Roof U-Value	0.01	0.2	646.91	1071.85
Daylighting Control Setpoint	0	0	728.99	728.99
Interior Lighting Power Density	0.11	1.14	653.69	948.37
Shading Projection Factor	0	1	728.99	728.99
Shading Height above Window	0	2	728.99	729.02
District Chiller Cooling Efficiency	0.52	1.48	728.99	728.99
Air Handler Fan Efficiency	17.75	63.9	709.85	1119.42
Gas Heating Efficiency	0.87	1.13	695.40	773.03
Terminal DX Cooling Efficiency	0.68	1.32	728.99	728.99
Terminal Furnace Heating Efficiency	0.87	1.13	728.99	728.99
Terminal Furnace Heat Pump Heating Efficiency	0.73	1.27	728.99	728.99
Water Heater Energy Factor	1	99	728.99	728.99
Economizer	false	true	728.99	728.99
Fan Control	cav	false	728.99	728.99
Orientation	0	359	728.98	729.01



Total Electricity



Total Natural Gas