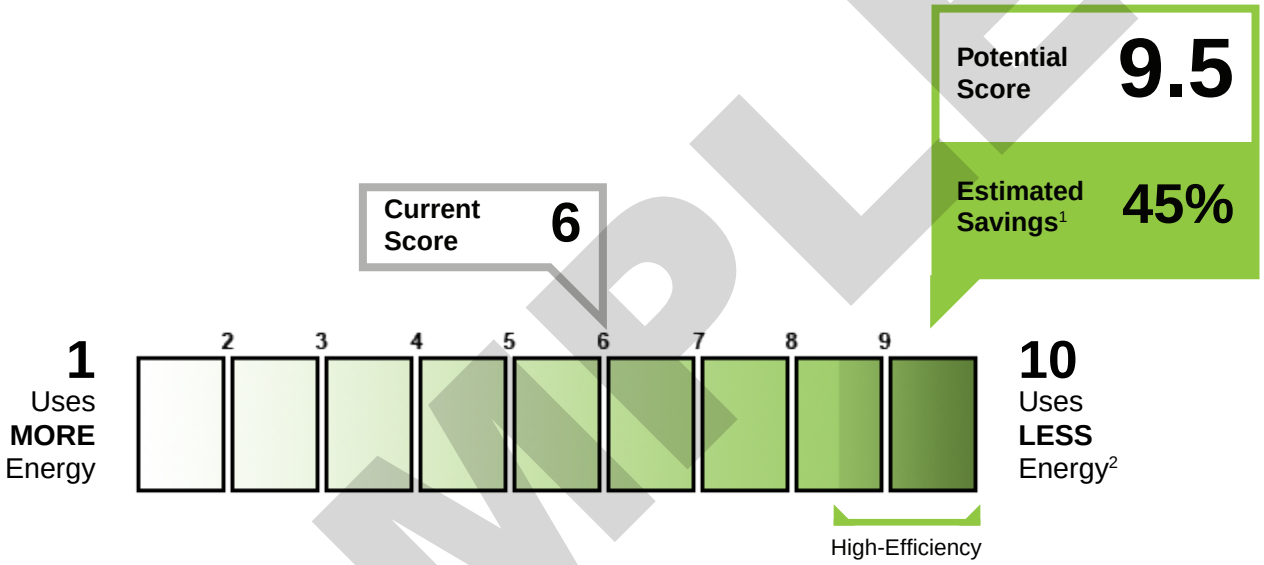
BUILDING ENERGY ASSET SCORE

OVERALL BUILDING SCORE

BUILDING INFORMATION

Example Building - Single Use
2000 A Street
Chicago, IL 60601

Building Type:	**Office**
Gross Floor Area:	**100,000 ft²**
Year Built:	**2005**
Score Date:	**09/22/2015**
Building ID #:	**XXXXX**



Building Use Types		Estimated Source Energy Use (kBtu/ft²)	
Office:	**100,000 ft²**	Current Building	**143**
		Upgraded Building	**79**

This report includes a Score for the entire building as well as individual Scores for each of the separate use types.

Energy Use Intensity by Fuel Type

Site Energy Use (kBtu/ft²)

Source Energy Use (kBtu/ft²)

Fuel Type [Site EUI , Source EUI]

- Gas [8.1, 8.5]
- Electricity [42.8, 134.5]
- District Heating [0.0, 0.0]
- District Cooling [0.0, 0.0]

The **Building Energy Asset Score** is a national rating system developed by the U.S. Department of Energy. The **Score** reflects the energy efficiency of a building based on the building's structure, heating, cooling, ventilation, and hot water systems. The building's **Structure and Systems** are individually evaluated and ranked. The **Upgrade Opportunities** page provides recommendations for how to improve the building's energy efficiency, increase the building's Asset Score, and save money.

[1] Savings reflect the reduction in source energy that would result from undertaking all of the efficiency improvements identified on the **Opportunities** page. Actual savings will depend on a variety of factors including actual operating conditions.

[2] A score of 10 represents lowest expected energy usage using current energy efficiency technologies. A score of 8.5 represents a high-efficiency building that uses approximately 30% less energy than a building built to the AHSRAE 90.1-2004 energy code.

This report is based on self-reported building information. http://energy.gov/eere/buildings/building-energy-asset-score

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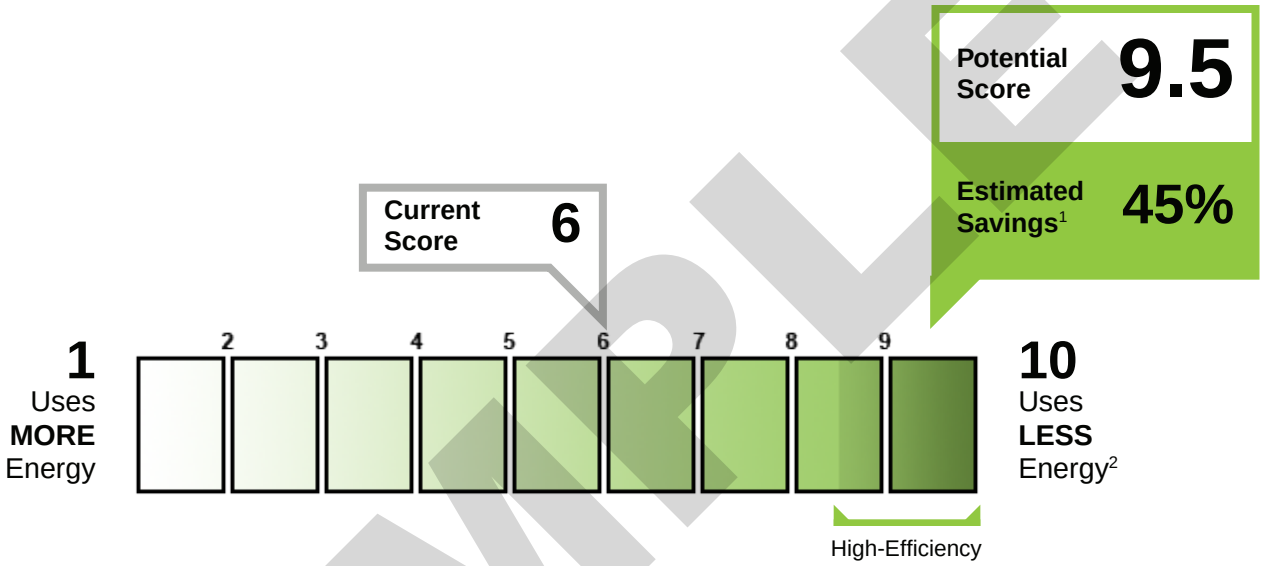
BUILDING ENERGY ASSET SCORE

SCORE: OFFICE PORTION

Building Name: **Example Building - Single Use**

Gross Floor Area: **100,000 ft²**



Standard Occupancy and Operating Conditions		Estimated Source Energy Use (kBtu/ft²)	
Number of Assumed Occupants	**499**	Current Building	**143**
Hours of Operation	**48.6 hrs/wk**	Upgraded Building	**79**
Cooling Set Point	**75° F**		
Heating Set Point	**70° F**		
Misc. Energy Loads	**0.75 W/ft²**		

Energy Use Intensity by Fuel Type

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Building Name: **Example Building - Single Use**

Gross Floor Area: **100,000 ft²**

Cost Effective Upgrade Opportunities	Energy Savings [3]	Cost[4]
Building Envelope		
• Add roof insulation in Office Block - *Learn More*	High	$ - $$
• Install high performance triple pane windows in Office Block - *Learn More*	High	$$ - $$$
Interior Lighting		
• Upgrade T8 fluorescent lighting in Office Block with LED lighting - *Learn More*	Medium	$$
• Add daylighting controls in Office Block - *Learn More*	Low	$$
HVAC Systems		
• Add air-side economizer in Office Block - *Learn More*	Medium	$-$$
• Implement demand controlled ventilation (DCV) in Office Block - *Learn More*	Medium	$$
• Add variable frequency drive to supply fans in Office Block - *Learn More*	Medium	$$
Hot Water Systems		
• Add low flow faucets in Office Block - *Learn More*	Low	$$

[3] The energy savings range reflects the expected incremental savings for the overall building associated with the specific efficiency upgrade opportunity assuming all other recommended upgrades have already been implemented. This assumption is made to avoid double counting of savings. The ranges reflect site energy savings and are based on standard operating assumptions, unless actual operating conditions are provided by the user.

[4] The costs are based on Advanced Energy Retrofit Guide and RS Means. The costs are replacement costs, not incremental costs. The costs do not include local incentives. Costs are shown as a range ($ = low cost, $$ = medium cost, $$$ = high cost).

Building Name: **Example Building - Single Use**

Gross Floor Area: **100,000 ft²**

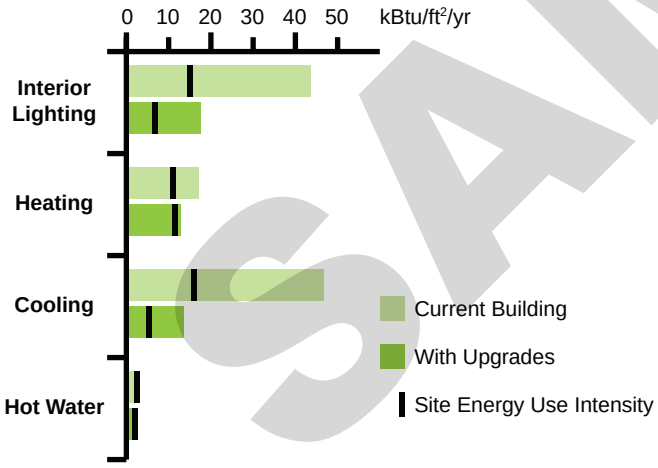
ABOUT THE BUILDING SYSTEMS

	Ranking[5]
Interior Lighting	Fair
Heating	Superior
Cooling	Good
Overall HVAC Systems	Superior

ABOUT THE BUILDING ENVELOPE

	Ranking[5]
Roof U-Value, Non-Attic (Btu/ft² h °F)	Good
Walls U-Value, Framed (Btu/ft² h °F)	Superior
Windows U-Value (Btu/ft² h °F)	Fair
Walls + Windows U-Value (Btu/ft² h °F)	Fair
Window Solar Heat Gain Coefficient	Good

SOURCE ENERGY USE INTENSITY BY END USE



[5] Ranking Range:
Fair: Building Envelope or Building Systems are less efficient than a typical building built to the AHSRAE 90.1-2004 energy code.
Superior: Building Envelope is more efficient than a typical building built to the AHSRAE 90.1-2013 energy code. Building Systems exceed the highest efficiency levels with market viable technologies.
Good: Building Envelope or Building Systems are between Fair and Superior.

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Building Name: **Example Building - Single Use**

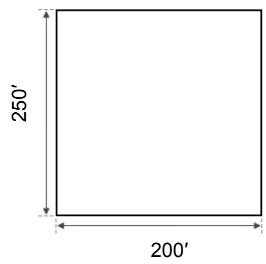
Gross Floor Area: **100,000 ft^2**

Office Block CHARACTERISTICS SUMMARY

Geometry

Current Building

Above Ground:	2 floors
Below Ground:	0 floors
Floor-to-Floor Height	14.00 ft
Floor-to-Ceiling Height:	9.00 ft
Orientation:	0.0° from North
Use Type:	Office



Current Building

Roof

Roof Type	Built-up w/ metal deck
Roof U-value	0.056 Btu/F°-ft^2-h

Skylights

No Skylights

Floor

Floor Type	Slab-on-Grade
Floor U-value	Estimated*

Walls and Windows

Surface	
Wall Type	Brick/Stone on masonry
Wall U-value	Estimated*
Window Framing Type	Metal
Window Glass Type	Single Pane
Window Gas Fill Type	None
Window Layout	Continuous
Window-to-Wall Ratio	0.40
Window U-value	0.68 Btu/F°-ft^2-h
Window SHGC	0.6
Window VT	Estimated*
Exterior Shading Type	External Overhangs

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* This value was not directly entered by the user. It was generated by the Asset Scoring Tool based on other building data provided. The user can re-score the building using actual information about this building characteristic if available.

** Standard operating assumptions are used for building optimization if no values are entered by the user.

Building Name: **Example Building - Single Use**

Gross Floor Area: **100,000 ft²**

	Current Building
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Window SHGC	0.6
Window VT	Estimated*
Exterior Shading Type	External Overhangs

Lighting

Recessed Fluorescent T8	100.0% served

Heating/Cooling

Cooling	Central DX
Efficiency	Estimated*
Heating	Central Furnace
Efficiency	82.00%

Service Water Heating

Fuel Type	Gas
Distribution Type	Distributed
Water Heater Efficiency	80.0%

Operations

The information in this section is not required and does not affect the current Asset Score. If provided, it is only used to identify upgrade opportunities, which are considered in generating the potential score.

Miscellaneous Electric Load	4.00 W/ft²
Miscellaneous Gas Load	Standard**
Total Occupants	450 total occupants
Setpoint Heating	72.0 F°
Setpoint Cooling	76.0 F°
Weekdays	8:00am - 7:00pm

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