

Energy Asset Rating Pilot Project Data Collection & Post-Rating Questions

This brief survey should be completed after data collection and input into the energy asset rating tool. The purpose of these questions is to gather feedback on your experience while completing these activities.

If you have questions or need help with the survey or with your energy asset rating, please contact Nora Wang, 509-372-4547, or Robin Sullivan, 509-375-2970.

SAMPLE

Energy Asset Rating Pilot Project Data Collection & Post-Rating Questions

Staff Qualifications

1. What are your qualifications and experience with building energy systems? (Choose all that apply.)

- Certified Energy Auditor or Assessor (specify certification and date received) _____
- Building owner with experience in building design and operations (specify years of ownership/experience) _____ years
- Professional Engineer (P.E.)
- Registered Architect (R.A.)
- Energy auditing, energy management, facility management, or experience related to energy management (describe experience) _____
- Other (please describe) _____

2. Which best describes your approach to completing the data energy collection sheet. (Choose all that apply.)

- One person gathered data and relied on various written resources (e.g., equipment documentation, design plans, etc.)
- One person led data gathering effort with help from building personnel or consultants with expertise in different areas.
- Team members with different roles and expertise completed data energy collection sheet.
- Other (please describe) _____

3. Which best describes your data verification process. (Choose all that apply.)

- One person gathered and input data that was NOT verified by another party.
- One person gathered and input data that was verified by another party.
- One person led a data gathering effort and the data was NOT verified by another party.
- One person led a data gathering effort and the data was verified by another party.
- Team members with different roles and expertise completed the data energy collection sheet and team members verified each other's data.
- Other (briefly describe) _____

In order to gather accurate information for the energy asset data collection sheet, it is likely that you relied on more than one resource. Please check all the resources you used.

Resources									
4. Which resources did you use to gather required data? (Choose all that apply.)									
Resource	Thermal Zone Layout	Roof Insulation	Wall Insulation	Windows and Skylights	Mechanical Equipment Efficiency	Mechanical Equipment Vintage	Fan Motor Efficiency	Economizer Usage	Service Water Heating Equipment
Personal knowledge based on building experience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Design plans/ documentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Building code or equipment standard from year built	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturing resource	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specifications from retrofit/renovation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inferred from vintage of building and materials used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Consultation with professional(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unable to collect the data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4b. If you answered Other for any of the building energy systems in question 4, please describe what resource(s) you used.

Data Gathering

5. How long did it take you to complete the data collection?

- 1-3 hours
- 4-5 hours
- 6-8 hours
- More than 8 hours

6. Did you experience any of the following data collection issues? (Choose all that apply.)

- Value is estimated because some documents (e.g., construction drawings, retrofit specifications, equipment specifications) are missing or I could not get firsthand knowledge from someone. (please specify data entry numbers) _____
- Accurate collection is cost prohibitive and/or time-consuming (please specify data entry numbers) _____
- I did not know how to make proper measurement (please specify data entry numbers) _____
- I did not understand what was being requested by the energy asset rating tool (please specify data entry numbers) _____

7. Is there data you were not asked to collect that you feel is important in assessing the energy asset rating of your building?

- No
- Yes (please specify) _____

Tool Use

8. What browser are you using? (If the version is unknown, leave blank.)

- Chrome (specify version) _____
- Firefox (specify version) _____
- Internet Explorer (specify version) _____
- Safari (specify version) _____
- Other (please specify browser and version) _____

9. What problems, if any, did you experience during data entry? (Choose all that apply.)

- Navigation problems
- Tool would not accept the data as entered
- Tool was slow
- Other problem (please specify) _____
- No problems, worked fine

10. Was there any specific data that you had trouble entering into the tool?

- No
- Yes (please specify) _____

11. How long did it take you to enter data into the tool?

- 1-3 hours
- 4-5 hours
- 6-8 hours
- More than 8 hours

18. Were there any potential upgrades that you thought you should see but did not receive?
 (Please provide information for each building you are piloting. If additional room is needed, attach additional pages.)

Building Name	Window	Wall	Roof	Lighting System	Heating System	Cooling System	Air Distribution System	Service Hot Water System
_____	<input type="checkbox"/>							
_____	<input type="checkbox"/>							
_____	<input type="checkbox"/>							
_____	<input type="checkbox"/>							
_____	<input type="checkbox"/>							

19. In your opinion, is the energy asset rating system helpful in making decisions about buying, leasing, retrofit, or other capital investments? (Choose all that apply.)

- No (please explain) _____
- Yes, I received useful recommendations showing economic value
- Yes, I gained insight into the current and potential energy asset value of a building
- Yes, I was motivated by a higher score

20. Do you think you will make any of the recommended upgrades to your building?

- Likely in the next year
- Likely in 1-3 years
- Likely in 4-10 years
- Not likely

21. Would you be willing to be contacted by Pacific Northwest National Laboratory for additional information about your experience and suggestions?

- Yes
- No