

Probo.CI



CEC_HOSPITAL — no.3532653

Partner Recognition - 2018: Energy

Introduction

The generation of energy from fossil fuels emits a range of different pollutants, in addition to being the largest contributor to greenhouse gas emissions. Air pollutants from energy sources can cause asthma, respiratory disease and other ailments in the community. Please use this section of the application to enter your energy data and report on energy conservation successes. This section of the application is tied to the Climate section, due to energy's contribution to an organization's carbon footprint.

Energy Use Demographics

PGH uses Energy Star Portfolio Manager's definition of **Gross Floor Area**. If the facility uses Portfolio Manager, you can cut and paste the value for **Gross Floor Area** into the application.

Please enter the facility's **Gross Floor Area** in Square Feet:

Square Feet
<u>2.</u>
<input type="text"/>

Energy Usage

All energy data MUST be provided for a 12-month **CALENDAR YEAR**, meaning we are seeking data from January 1st through December 31 for Current Year.

The reason for this requirement is that in order to appropriately compare energy performance, Practice Greenhealth has to utilize weather normalization. To use weather normalization appropriately, there is a need for data from the **same 12-month period** (e.g. we need to see energy use in an especially cold February (or extreme heat waves in the summer) for all sites for an accurate comparison--not just those who typically utilize a calendar year for reporting.)

Please provide details on energy usage at your facility.

2. Do you have an **onsite laundry**?

- ☒ Yes
☐ No

3. Please indicate the number of **MRI machines** at your facility:

- 4.** Did the facility have any activities in 2017 that might have significantly **increased** its energy use (for example: the introduction of new major medical equipment, mobile equipment or plugs, equipment failure mitigation; or major renovation/construction load)?"

Please indicate the facility's CALENDAR YEAR energy use in **Table A** below. Every applicant is required to complete the CURRENT YEAR USAGE (2017) column.

If you do not use a particular TYPE of energy, please leave it BLANK. Please DO NOT enter zeros.

PGH would like your facility to properly identify **energy used to power parking lots/structures** (lighting, HVAC, etc) and **remove this data** from your entries for energy use in Table A below. **The first row of data in Table A should not include parking kWh.**

- 5.** Do you **submeter** your **parking** lots/structures?

☒ Yes
☐ No

- 5.a** Are you therefore able to separate out (and subtract) parking lot/parking structure energy use from energy use totals?

☐ Yes
☒ No

- 5.a.a** What is the amount of energy, in kilowatt hours (kWh) used for your parking structures annually?

Facilities should provide **calendar year data** for energy use (January 1st- December 31st).

Please only include **building energy use**--DO NOT INCLUDE energy use for fleet vehicles, such as diesel or fuel oil for vehicles. If you cannot separate building and vehicle use for a certain fuel type, please check with Awards Technical Assistance for guidance.

Energy Categories	Current Year Usage	Units (current)
Electricity (fossil fuel)	6. <input type="text"/>	7. <input type="text" value="Select an option..."/>
Natural Gas	8. <input type="text"/>	9. <input type="text" value="Select an option..."/>
Fuel Oil (#2)	10. <input type="text"/>	11. <input type="text" value="Select an option..."/>
Steam	12. <input type="text"/>	13. <input type="text" value="Select an option..."/>
Chilled Water	14. <input type="text"/>	15. <input type="text" value="Select an option..."/>
Purchased Hot Water	16. <input type="text"/>	17. <input type="text" value="Select an option..."/>

Diesel	18. <input type="text"/>	19. <input type="text" value="Select an option..."/>
Propane	20. <input type="text"/>	21. <input type="text" value="Select an option..."/>
22. Enter Other fossil fuel type <input type="text"/>	23. <input type="text"/>	24. <input type="text"/>

25. Did you enter data for calendar year (Jan 1, 2017-Dec 31, 2017)?

- ☒ Yes
☐ No

26. Please describe any barriers or challenges to providing data in calendar year format. Please be specific:

27. Is the hospital using **hydropower** as its primary source of electricity?

- ☒ Yes
☐ No

27.a Does the hydropower being used for electricity meet the definition of "low-impact" hydropower, as defined by the **Low-Impact Hydropower Institute (LIHI)**?

- ☐ Yes
☒ No

In order to be considered "low-impact" hydropower (and qualify as **renewable energy**), the utility must be **certified by LIHI** or meet the **criteria for certification** by LIHI. Please contact **Iqbal Mian, Member Engagement Manager** if you have questions about whether your utility qualifies.

Please enter the amount of electricity generated using **high-impact** (or non-certified/non-certifiable by LIHI) hydropower in **Table A1. Electricity from High-Impact Hydropower Electricity** below.

In order to be considered "low-impact" hydropower (and qualify as **renewable energy**), the utility must be **certified by LIHI** or meet the **criteria for certification** by LIHI. Please contact **Iqbal Mian, Member Engagement Manager** if you have questions about whether your utility qualifies.

Table A1. High-Impact Hydropower Electricity

Energy Category	Current Year Usage	Units (current)
High-Impact Hydropower Electricity	27.a.a <input type="text"/>	27.a.b <input type="text" value="Select an option..."/>

28. Does the facility generate or purchase **renewable energy**?

28.a Please describe the organization's work around adding renewables to its energy portfolio.

Please enter the facility's **renewable energy** use into **Table B. Renewable Energy Use** (including onsite generation or **renewable energy** purchases/RECs).

If the hospital is purchasing **renewable energy** credits (RECs) through its utility, be sure not to double count this energy use. If your utility bill shows one value for electricity and RECs are a **subset** of that total kWh, then ensure the amount of electricity entered in **Table A. Fossil Fuel-Based Energy Use** is the total electricity minus the RECs value, where the RECs are then entered in **Table B.** below. (E.g., conventional electricity+RECs=total electricity, with conventional kWhs entered in Table A. while purchased RECs are entered in Table B.)

Table B. Renewable Energy Use (generated onsite or purchased)

Renewable Energy	Current Year Usage	Units (current)
28.c Type 1: Generated On-site <input type="text" value="Select an option..."/>	28.d <input type="text"/>	28.e <input type="text" value="Select an option..."/>
28.f Type 2: Generated Off-site <input type="text" value="Select an option..."/>	28.g <input type="text"/>	28.h <input type="text" value="Select an option..."/>
28.i Type 3: Generated Off-site <input type="text" value="Select an option..."/>	28.j <input type="text"/>	28.k <input type="text" value="Select an option..."/>
28.l Purchased Renewable Energy/ Renewable Energy Credits <input type="text" value="Select an option..."/>	28.m <input type="text"/>	28.n <input type="text" value="Select an option..."/>

This table **auto-calculates the facility's Energy Use Portfolio** (percent energy usage and cost by energy type) and is based on values entered in Table A (and Table B if applicable).

Table C. Current Energy Use Portfolio

Category	kBtus (Current)	Percent of Total Usage (Current)
Conventional Electricity (Fossil Fuel or Nuclear)	29. <input type="text" value="0"/>	30. <input type="text" value="0"/>
Natural Gas	31. <input type="text" value="0"/>	32. <input type="text" value="0"/>
Fuel Oil	33. <input type="text" value="0"/>	34. <input type="text" value="0"/>
Steam	35. <input type="text" value="0"/>	36. <input type="text" value="0"/>
Chilled Water	37. <input type="text" value="0"/>	38. <input type="text" value="0"/>
Purchased Hot Water	39. <input type="text" value="0"/>	40. <input type="text" value="0"/>
Diesel	41. <input type="text" value="0"/>	44. <input type="text" value="0"/>

Propane	42. 0	45. 0
Hydroelectric (conventional)	43. 0	46. 0
Onsite Renewable Energy	47. 0	48. 0
Offsite Renewable Energy	49. 0	50. 0
Total	51. 0	52. 0

53. Based on this data, the below % of your facility's energy portfolio is from renewable sources.

0

Energy Performance Metrics : Energy Use Intensity (EUI)

Table D auto-calculates and summarizes your **energy performance metrics** based on values entered in **Table A** above. If your EUI (kBtus/sq ft) is **less than 100 or greater than 500**, please review your energy data and **gross floor area** for errors. The median data from 2017 hospital award winners was **227 kBtus/sq ft** (and was 142 kBtus/sq ft for Long Term Care facilities in 2016).

Table D. Energy Use Intensity (EUI) Note: EUI values should be the same order of magnitude for both baseline and current years. Percent change from baseline should generally be less than +/- 30%. If this is not true of your data in Table D, please review your energy data in Table A and **gross floor area** above).

Current Year kBtus
54. 0
Current Year EUI
55. 0

56. Is your facility participating in the **Healthier Hospitals Leaner Energy Challenge**?

- ☒ Yes
☐ No

56.a Please indicate **which challenge level** your organization is striving for?

- ☐ 3% reduction
☐ 5% reduction
☐ 10% reduction

57. Does the facility have an **energy manager**?

- ☒ Yes

☐ No

58. Does the facility use **Energy Star Portfolio Manager**?

☒ Yes
☐ No

58.a Has the facility **shared access to its energy data through Portfolio Manager** with Practice Greenhealth (through the Healthier Hospitals program)?

☐ Yes
☒ No

58.a.a Are you willing to **share read-only access to your Portfolio Manager account** with Practice Greenhealth so your member engagement liaison can provide customized support on energy performance and metrics?

☒ Yes
☐ No

If you respond Yes to this question, Christopher Bodkin from the Practice Greenhealth Sector Performance team will contact you to follow-up on how to **share read-only access to Portfolio Manager**.

58.b Has your facility benchmarked your facility using **EnergyStar's Portfolio Manager**?

☒ Yes
☐ No

58.b.a Please indicate most recent **Energy Star score**:

58.b.b Please indicate the facility's **Site EUI** for 2017 according to Portfolio Manager:

58.b.c Please indicate the facility's **Weather-Normalized Site EUI** for 2017 according to Portfolio Manager:

59. Does the facility have a **written plan to reduce energy use** over time with timelines and goals?

☒ Yes
☐ No

Please indicate who is accountable for the plan to reduce energy use:

59.a Name of person accountable for energy use plan:

59.b Title of person accountable for energy use plan:

59.c Email of person accountable for energy use plan:

60. Has the facility conducted a **baseline energy audit** for the institution in the past five years?

- ☒ Yes
☐ No

61. Has the facility engaged a **retrocommissioning firm** to **optimize building performance**?

- ☒ Yes
☐ No

62. Does the facility **utilize submeters** to better monitor energy efficiency opportunities?

- ☒ Yes
☐ No

62.a Please indicate which **areas** have been submetered (e.g. by department, certain pieces of equipment etc.).

62.b Is the hospital submetering specific **technologies** (such as MRI)?

- ☒ Yes
☐ No

63. Has the facility **collaborated** with the **Information Technology (IT) Department** to integrate energy efficiency measures?

- ☒ Yes
☐ No

64. Does the facility have an **onsite data center** that requires a constant power load of **75 kW** or more?

- ☒ Yes
☐ No

EPEAT

65. Does the facility **purchase energy-efficient equipment** that is **EnergyStar** labeled?

Yes

Energy Efficiency Project Data

Please list the biggest **energy-saving projects** implemented in 2017 in Table E.

Table E. Energy Efficiency Project Data

Project Description	Project Category	Energy Saved/Year	Units	kBtus Saved	Dollar Savings
66. <input type="text"/>	67. Select an option... ▾	68. <input type="text"/>	69. Select an option... ▾	70. <input type="text" value="0"/>	71. <input type="text"/>
72. <input type="text"/>	73. Select an option... ▾	74. <input type="text"/>	75. Select an option... ▾	76. <input type="text" value="0"/>	77. <input type="text"/>
78. <input type="text"/>	79. Select an option... ▾	80. <input type="text"/>	81. Select an option... ▾	82. <input type="text" value="0"/>	83. <input type="text"/>
84. <input type="text"/>	85. Select an option... ▾	86. <input type="text"/>	87. Select an option... ▾	88. <input type="text" value="0"/>	89. <input type="text"/>
90. <input type="text"/>	91. Select an option... ▾	92. <input type="text"/>	93. Select an option... ▾	94. <input type="text" value="0"/>	95. <input type="text"/>
Totals				96. <input type="text" value="0"/>	97. <input type="text" value="0"/>

Please describe any additional **successes or innovations** in the energy program or projects at your facility that you would like to share in the space provided below. Please feel free to provide commentary and/or attach a file.

98. Energy Success 1: Please describe or attach any additional documentation:

99. (optional) Attachment for Energy Success 1:

100. Energy Success 2: Please describe or attach any additional documentation.

101. (optional) Attachment for Energy Success 2:

102. Please describe any energy **lessons learned** that can be shared with other facilities.

