



## 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 use data and report on energy conservation and cleaner energy 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**:

<b>Square Feet</b>
1.
<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.

To appropriately compare energy performance, Practice Greenhealth has to utilize 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 undertake any activities in 2019 that might have significantly **increased** its energy use or square footage (e.g., the introduction of new major medical equipment, mobile equipment or plugs, major renovation/construction load, or a new bed tower opening, etc.)?

- ☒ Yes  
☐ No

4.a Please describe:

### Table A1. Conventional Energy Use:

Please indicate the facility's CALENDAR YEAR energy use in **Table A1.** below. Every applicant is required to complete the CURRENT YEAR USAGE (2019) column.

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

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

For electricity use, please enter all electricity purchased from the local utility grid in Table A1 **unless the facility has purchased and retired the associated renewable energy certificates (RECs)**--in which case the **renewable energy** can be tracked in Table B1. Facilities that have municipalities or utilities that generate **renewable energy** which is distributed through transmission lines **cannot claim the off-site renewable energy** as part of their portfolio mix unless the hospital owns and retires the associated RECs. Utility companies that generate

renewable electricity on behalf of their customers benefit their customers through reduced Scope 2 greenhouse gas (indirect) emissions--but the utility's renewable mix does not impact the hospital's percent **renewable energy** in its energy portfolio. See Table B1. for the complete definition and guidance on tracking RECs.

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)	5. <input type="text"/>	6. Select an option... ▴ ▾
Natural Gas	7. <input type="text"/>	8. Select an option... ▴ ▾
Fuel Oil (#2)	9. <input type="text"/>	10. Select an option... ▴ ▾
District Steam	11. <input type="text"/>	12. Select an option... ▴ ▾
Purchased Hot Water	13. <input type="text"/>	14. Select an option... ▴ ▾
District Chilled Water- Electric Driven Chiller	15. <input type="text"/>	16. Select an option... ▴ ▾
District Chilled Water- Absorption Chiller using Natural Gas	17. <input type="text"/>	18. Select an option... ▴ ▾
District Chilled Water- Engine-Driven Chiller Natural Gas	19. <input type="text"/>	20. Select an option... ▴ ▾
Diesel	21. <input type="text"/>	22. Select an option... ▴ ▾
Propane	23. <input type="text"/>	24. Select an option... ▴ ▾
25. Enter Other fossil fuel type <input type="text"/>	26. <input type="text"/>	27. <input type="text"/>

In order for the program to accurately calculate your **greenhouse gas (GHG) emissions**, go to **US EPA's Power Profiler** and enter the facility's zip code and click Enter (it takes a few seconds to run). Select your electric utility and click **"View Report"** to identify the name of your **geographic region** (the name is located above the map or immediately below the View Report button. (This also takes a few seconds to run).

**28.** Select your **geographic region** identified using **US EPA's Power Profiler**:

Select an option...  
▴ ▾

The following table shows the auto-calculated greenhouse gas emissions for each type of energy used, from data provided in Table A. above. For more information on how these values were calculated, refer to **Guidance on Greenhouse Gas (GHG) Emission Calculations**.

Table A2: Greenhouse Gas Emission by Energy Type

Fuel Type	Current Year GHG Emissions by Energy Type
Electricity (location based)	29. 0 <input type="text"/>
Natural Gas	30. 0 <input type="text"/>

Fuel Oil (#2)	31. 0
District Steam	32. 0
District Hot Water	36. 0
District Chilled Water- Electric Driven Chiller	33. 0
District Chilled Water- Absorption Chiller using Natural Gas	34. 0
District Chilled Water- Engine-Driven Chiller Natural Gas	35. 0
Diesel	37. 0
Propane	38. 0
39. 0	40.
Scope 1 (Direct) Energy-related GHG Emissions Total	41. 0
Scope 2 (Indirect) Energy-related GHG Emissions Total	42. 0

43. Did you enter data for calendar year (Jan 1, 2019-Dec 31, 2019)?

☐ Yes

☒ No

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

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

Yes



44.a Please describe the organization's work to add or increase the use of **renewable energy** sources within its energy portfolio.

Please enter the facility's **renewable energy** use into **Table B1. Renewable Energy Use** (including onsite or offsite **renewable energy** generation or purchased **renewable energy** certificates (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 purchased RECs are a **subset** of that total kWh, then ensure the amount of electricity entered in **Table A1. Conventional Energy Use** is the total electricity minus the RECs value, where the RECs are then entered in **Table B1.** below. (E.g., conventional electricity+RECs=total electricity, with conventional kWhs entered in Table A1. while purchased RECs are entered in Table B1.)

Facilities **cannot claim renewable energy from their utility grid mix** and **must own/retire the associated RECs** for any offsite **renewable energy** generation. Please see Practice Greenhealth's new **Guidance on Renewable Energy Usage** for more information on

REC retirement, sample use case scenarios and alignment with existing reporting frameworks.

**Table B1. Renewable Energy Use** (generated onsite or purchased)

Renewable Energy	Current Year Usage	Units (current)	Retain/Retire RECs?
<b>44.c</b> Type 1: Generated <b>On-site</b> Select an option...	<b>44.d</b> <input type="text"/>	<b>44.e</b> Select an option...	<b>44.f</b> Select an option...
<b>44.g</b> Type 2: Generated <b>Off-site</b> Select an option...	<b>44.h</b> <input type="text"/>	<b>44.i</b> Select an option...	<b>44.j</b> Select an option...
<b>44.k</b> Type 3: Generated <b>Off-site</b> Select an option...	<b>44.l</b> <input type="text"/>	<b>44.m</b> Select an option...	<b>44.n</b> Select an option...
<b>44.o</b> Type 4: Purchased RECs/certificates Select an option...	<b>44.p</b> <input type="text"/>	<b>44.q</b> Select an option...	<b>44.r</b> Select an option...

**Table B2. Total Avoided GHG Emissions from Renewables (in MTCO2e)**

	Current Year
Total Renewable Energy Use (kBtus)	<b>44.s</b> <input type="text"/>
Total Avoided GHG emissions (MTCO2e) from renewable energy generation:	<b>44.t</b> <input type="text"/>

**Avoided GHG Emissions** are dependent upon the facility owning and retiring the RECs. If the facility does not own/retire the associated RECs, there are no avoided emissions. Please see Practice Greenhealth's [Guidance on Greenhouse Gas \(GHG\) Emission Calculations](#) for more information on relevant conversion factors for energy types, direct and indirect emissions, and avoided GHG emissions.

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 A1 (and Table B1 if applicable).

**Table C. Current Energy Use Portfolio**

Category	kBtus (Current)	Percent of Total Usage (Current)
Conventional Electricity (Fossil Fuel or Nuclear)	<b>45.</b> <input type="text"/>	<b>46.</b> <input type="text"/>
Natural Gas	<b>47.</b> <input type="text"/>	<b>48.</b> <input type="text"/>
Fuel Oil	<b>49.</b> <input type="text"/>	<b>50.</b> <input type="text"/>
District Steam	<b>51.</b> <input type="text"/>	<b>52.</b> <input type="text"/>
District Hot Water	<b>59.</b> <input type="text"/>	<b>60.</b> <input type="text"/>
District Chilled Water- Electric Driven Chiller	<b>53.</b> <input type="text"/>	<b>56.</b> <input type="text"/>
District Chilled Water- Absorption Chiller using Natural Gas	<b>54.</b> <input type="text"/>	<b>57.</b> <input type="text"/>
District Chilled Water- Engine-Driven Chiller	<b>55.</b> <input type="text"/>	<b>58.</b> <input type="text"/>

Natural Gas	0	0
Diesel	61. 0	63. 0
Propane	62. 0	64. 0
Onsite Renewable Energy	65. 0	66. 0
Offsite Renewable Energy	67. 0	68. 0
Total	69. 0	70. 0

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

### Energy Performance Metrics : Energy Use Intensity (EUI)

**Table D** auto-calculates and summarizes your **energy performance metrics** based on values entered in **Table A1** above.

The median **Energy Use Intensity** (EUI) from hospital award winners is **222 kBtus/sq ft** and values range from 125 to 370. (The median EUI for long term care facilities is 171 kBtus/sq ft and ranges from 100 to 220; the median EUI for community health care centers is 117 and ranges from 85 to 220)

**Table D. Energy Use Intensity (EUI)**

Current Year kBtus
72. 0
Current Year EUI
73. 0

74. Does the facility have a dedicated **energy manager** role?

- ☐ Yes  
☐ No

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

- ☒ Yes  
☐ No

75.a Has the facility **shared access to its energy data through Portfolio Manager** with Practice Greenhealth?

- ☐ Yes  
☒ No

75.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**.

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

- ☒ Yes  
☐ No

**75.b.a** Please indicate **Energy Star score** for 2019:

**75.b.b** Please indicate the facility's **Site EUI** for 2019 according to Portfolio Manager:

**75.b.c** Please indicate the facility's **Weather-Normalized Site EUI** for 2019 according to Portfolio Manager:

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

- ☒ Yes  
☐ No

**76.a** Name of person accountable for energy use plan:

**76.b** Title of person accountable for energy use plan:

**76.c** Email of person accountable for energy use plan:

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

- ☐ Yes  
☐ No

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

- ☐ Yes  
☐ No

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

- ☒ Yes  
☐ No

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

**80.** What innovative practices or technologies have been implemented in coordination with Information Technology (IT)?

If none, please leave BLANK.

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

- ☐ Yes  
☐ No

## Energy Efficient Equipment

**82.** Has the facility **purchased energy-efficient equipment** in 2019 that is **EnergyStar-labeled**?

Select an option... ▾

## Energy Efficiency Project Data

Please list the biggest **energy-saving projects** implemented in 2019 in Table E.

**Table E. Energy Efficiency Project Data**

Project Description	Project Category	Energy Saved in 2019	Units	kBtus Saved in 2019	Dollar Savings
<b>83.</b> <input type="text"/>	<b>84.</b> <input type="text"/>	<b>85.</b> <input type="text"/>	<b>86.</b> <input type="text"/>	<b>87.</b> <input type="text"/>	<b>88.</b> <input type="text"/>

	Select an option...		Select an option...	0	
<b>89.</b>	<b>90.</b>	<b>91.</b>	<b>92.</b>	<b>93.</b>	<b>94.</b>
	Select an option...		Select an option...	0	
<b>95.</b>	<b>96.</b>	<b>97.</b>	<b>98.</b>	<b>99.</b>	<b>100.</b>
	Select an option...		Select an option...	0	
<b>101.</b>	<b>102.</b>	<b>103.</b>	<b>104.</b>	<b>105.</b>	<b>106.</b>
	Select an option...		Select an option...	0	
<b>107.</b>	<b>108.</b>	<b>109.</b>	<b>110.</b>	<b>111.</b>	<b>112.</b>
	Select an option...		Select an option...	0	
<b>Totals</b>				<b>113.</b>	<b>114.</b>
				0	0

### Other Energy Program Successes

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.

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

**116.** Optional Attachment:

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

**118.** Optional Attachment:

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