



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

Baseline Year is the year the facility began actively tracking energy use and reduction--but for the purpose of this application **can be no more than five (5) years ago (or 2015)**.

1.* Please enter the facility's **Baseline Year** for Energy data (2015-2020):

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. Learn more on how to define your **campus** (or which part of your campus is being included in your energy footprint).

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

Baseline Year Sq Ft	Previous Year Sq Ft	Current Year Sq Ft
2.*	3.*	4.*
<input type="text"/>	<input type="text"/>	<input type="text"/>

Enter the same value for all three years if the facility's **Gross Floor Area** has not changed. These values will populate on both the Water and Energy pages.

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.

5. Does your facility have an **onsite laundry**?

☒ Yes

☐ No

5.a Are the facility's laundry machines **EnergyStar-certified**?

☐ Yes

☐ No

5.b How much laundry is **processed onsite** annually? (Please enter the weight of laundry in **pounds**. If you have the weight in tons, multiply by 2000 to get pounds.)

The amount of laundry processed onsite annually is the total quantity of laundry that is processed every year. The quantity is expressed as a weight and should be a combined weight reflecting both linen and terry, if appropriate. Include all laundry processed, including laundry processed on behalf of other locations.

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

7.* Did the facility make changes to its **air handling protocols** to adapt to the COVID-19 pandemic?

☒ Yes

☐ No

7.a* Please indicate if the hospital implemented any of the following measures: (Please select all that apply.)

- ☒ Increase in outside air
- ☐ Increased number of air changes
- ☐ Discontinued use of HVAC setback
- ☐ Negative pressure rooms
- ☐ Negative pressure isolation rooms
- ☒ Other

7.a.a* Please indicate **where** outside air has been utilized:

- ☐ 100% outside air for entire facility
- ☐ By department or unit
- ☒ Other

7.a.a.a* Please describe other strategy for **use of outside air**:

8.* Did the facility undertake any activities in 2020 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

8.a* Please describe activities that may have increased energy use:

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 (2020) energy usage column. To receive maximum points on this page, please enter the facility's baseline and previous year (2019) data as well. The energy use reduction metric cannot be calculated unless both baseline and previous year data and units are provided.

If this is your first year of tracking energy data, you should enter your 2020 data in BOTH the baseline and current year columns and leave previous year blank. If last year (2019) was the facility's baseline year, enter it for both previous year and baseline year below. **If you do not use a particular energy type, please leave it blank. Do not enter zeros.**

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

For electricity use, please enter all non-renewable electricity purchased from the local utility grid in Table A1. If the facility **owns and retires RECs** for any portion of its electricity--the **renewable energy** can be tracked in Table B1. Be sure not to double count this energy use. Please ensure the amount of electricity entered in **Table A1. Conventional Energy Use** is the total electricity purchased **minus the RECs value**, where the **RECs** are then entered in **Table B1.** below. (E.g., purchased electricity+**RECs**=total electricity, with conventional kWhs entered in Table A1. while purchased **RECs** are entered 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 check that the data for any given fuel type (electricity, natural gas, etc.) is the same order of magnitude for all years, and check the units for each energy type for each year. Please provide data for any given fuel type (electricity, natural gas) for all 3 years (Baseline, Previous and Current).

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	Baseline Year Usage	Units (baseline)	Previous Year Usage	Units (previous)	Current Year Usage	Units (current)
Electricity	9.* <input type="text"/>	10.* Select an optio <input type="text"/>	11.* <input type="text"/>	12.* Select an optio <input type="text"/>	13.* <input type="text"/>	14.* Select an optio <input type="text"/>
Natural Gas	15.* <input type="text"/>	16.* Select an optio <input type="text"/>	17.* <input type="text"/>	18.* Select an optio <input type="text"/>	19.* <input type="text"/>	20.* Select an optio <input type="text"/>
Fuel Oil (#2)	21.* <input type="text"/>	22.* <input type="text"/>	23.* <input type="text"/>	24.* <input type="text"/>	25.* <input type="text"/>	26.* <input type="text"/>

		Select an option ▼		Select an option ▼		Select an option ▼
District Steam	27.* <input type="text"/>	28.* Select an option ▼	29.* <input type="text"/>	30.* Select an option ▼	31.* <input type="text"/>	32.* Select an option ▼
District Hot Water	33.* <input type="text"/>	34.* Select an option ▼	35.* <input type="text"/>	36.* Select an option ▼	37.* <input type="text"/>	38.* Select an option ▼
District Chilled Water- Electric Driven Chiller	39.* <input type="text"/>	40.* Select an option ▼	41.* <input type="text"/>	42.* Select an option ▼	43.* <input type="text"/>	44.* Select an option ▼
District Chilled Water- Absorption Chiller using Natural Gas	45.* <input type="text"/>	46.* Select an option ▼	47.* <input type="text"/>	48.* Select an option ▼	49.* <input type="text"/>	50.* Select an option ▼
District Chilled Water- Engine- Driven Chiller Natural Gas	51.* <input type="text"/>	52.* Select an option ▼	53.* <input type="text"/>	54.* Select an option ▼	55.* <input type="text"/>	56.* Select an option ▼
Diesel	57.* <input type="text"/>	58.* Select an option ▼	59.* <input type="text"/>	60.* Select an option ▼	61.* <input type="text"/>	62.* Select an option ▼
Propane	63.* <input type="text"/>	64.* Select an option ▼	65.* <input type="text"/>	66.* Select an option ▼	67.* <input type="text"/>	68.* Select an option ▼
69.* Other fossil fuel type <input type="text"/>	70.* <input type="text"/>	71.* <input type="text"/>	72.* <input type="text"/>	73.* <input type="text"/>	74.* <input type="text"/>	75.* <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).

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

The Power Profiler is **required** this year. If you cannot find your power profile at the website **US EPA's Power Profiler**, contact **awards@practicegreenhealth.org** for assistance.

Applicants in **Puerto Rico** should choose the SPP South grid. **British Columbia and Ontario** facilities should choose the WECC Northwest grid. **Other facilities outside US** please select grid MRO East, or contact **awards@practicegreenhealth.org** for assistance in selecting a region that more closely resembles your power mix.

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 (measured in **MTCO2e**)

Fuel Type	Baseline Year GHG Emissions by Energy Type	Previous Year GHG Emissions by Energy Type	Current Year GHG Emissions by Energy Type	Percent Change in Energy- Related GHG Emissions from Baseline Year	Percent Change in Energy- Related GHG Emissions from Previous Year
Electricity (location based)	77.* <input type="text"/>	78.* <input type="text"/>	79.* <input type="text"/>	80.* <input type="text"/>	81.* <input type="text"/>
Natural Gas	82.* <input type="text"/>	83.* <input type="text"/>	84.* <input type="text"/>	85.* <input type="text"/>	86.* <input type="text"/>
Fuel Oil (#2)	87.* <input type="text"/>	88.* <input type="text"/>	89.* <input type="text"/>	90.* <input type="text"/>	91.* <input type="text"/>
District Steam	92.* <input type="text"/>	93.* <input type="text"/>	94.* <input type="text"/>	95.* <input type="text"/>	96.* <input type="text"/>

District Hot Water	97.* 0	98.* 0	99.* 0	100.* 0	101.* 0
District Chilled Water-Electric Driven Chiller	102.* 0	103.* 0	104.* 0	105.* 0	106.* 0
District Chilled Water-Absorption Chiller using Natural Gas	107.* 0	108.* 0	109.* 0	110.* 0	111.* 0
District Chilled Water-Engine-Driven Chiller Natural Gas	112.* 0	113.* 0	114.* 0	115.* 0	116.* 0
Diesel	117.* 0	118.* 0	119.* 0	120.* 0	121.* 0
Propane	122.* 0	123.* 0	124.* 0	125.* 0	126.* 0
127.* 0	128.*	129.*	130.*	131.*	132.*
Scope 1 (Direct) Energy-related GHG Emissions Total	133.* 0	134.* 0	135.* 0	136.* 0	137.* 0
Scope 2 (Indirect) Energy-related GHG Emissions Total	138.* 0	139.* 0	140.* 0	141.* 0	142.* 0

143.* Did you enter data for calendar year (Jan 1- Dec 31)?

- ☐ Yes
☒ No

The facility will not get credit for the energy reduction metric if it does not enter data for the calendar year Jan 1- Dec 31.

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

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

If your facility is not currently purchasing or generating **renewable energy**, what are the key barriers to moving forward with cleaner energy projects?

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

Yes

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** through its utility, be sure to enter that here and deduct it from the conventional energy consumption. If your utility bill shows one value for electricity and you are purchasing **RECs** to cover some or all of the total kWh consumed, then ensure the amount of electricity entered in **Table A1 Conventional Energy Use** is the total electricity minus the energy you are covering with **RECs**, and then enter the energy covered by your purchased **RECs** in the **renewable energy** section (**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.)

The facility must own and retire the RECs for any renewable energy in order to make any renewable energy claims in Table B1 below. Ensure you select Own/Retire **RECs** in the last column of Table B1 or points will be removed.

Facilities **cannot claim renewable energy from their utility grid mix**. Please ensure you have checked to ensure that your **renewable energy** project has retained ownership of the associated **RECs** or the facility has purchased replacement **RECs** before claiming

the energy as renewable below in Table B1. 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	Baseline Year Usage	Units (baseline)	Previous Year Usage	Units (previous)	Current Year Usage	Units (current)	Own/Retire RECs?
145.a* Type 1: Generated On-site <div>Select an o ▾</div>	145.b* <div></div>	145.c* <div>Select an o ▾</div>	145.d* <div></div>	145.e* <div>Select an o ▾</div>	145.f* <div></div>	145.g* <div>Select an o ▾</div>	145.h* <div>Select an o ▾</div>
145.i* Type 2: Generated Off-site <div>Select an o ▾</div>	145.j* <div></div>	145.k* <div>Select an o ▾</div>	145.l* <div></div>	145.m* <div>Select an o ▾</div>	145.n* <div></div>	145.o* <div>Select an o ▾</div>	145.p* <div>Select an o ▾</div>
145.q* Type 3: Generated Off-site <div>Select an o ▾</div>	145.r* <div></div>	145.s* <div>Select an o ▾</div>	145.t* <div></div>	145.u* <div>Select an o ▾</div>	145.v* <div></div>	145.w* <div>Select an o ▾</div>	145.x* <div>Select an o ▾</div>
145.y* Type 4: Purchased RECs /certificates <div>Select an o ▾</div>	145.z* <div></div>	145.aa* <div>Select an o ▾</div>	145.ab* <div></div>	145.ac* <div>Select an o ▾</div>	145.ad* <div></div>	145.ae* <div>Select an o ▾</div>	145.af* <div>Select an o ▾</div>

Please Note: If the facility has claimed renewable energy above and have NOT indicated they own and have retired the associated RECs, Practice Greenhealth will remove points for this metric.

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

Total	Baseline Year	Previous Year	Current Year
Total Renewable Energy Use (kBtus)	145.ag* <div>0</div>	145.ah* <div>0</div>	145.ai* <div>0</div>
Total Avoided GHG emissions (MTCO2e) from renewable energy generation:	145.aj* <div>0</div>	145.ak* <div>0</div>	145.al* <div>0</div>

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.

146. Has the facility put a **combined heat and power/cogeneration** project in place in the last 5 years?

- ☒ Yes
☐ No

146.a Please describe the cogen project:

Please share estimated annual energy and cost savings from cogen project:

Energy Savings from Cogen	Units	Cost Savings from Cogen
146.b <div></div>	146.c <div></div>	146.d <div></div>

Current Energy Costs

Type	Total Cost (\$) Current
Conventional Energy Categories	

Electricity (fossil fuel)	147. <input type="text"/>
Natural Gas	148. <input type="text"/>
Fuel Oil #2	149. <input type="text"/>
District Steam	150. <input type="text"/>
District Hot Water	151. <input type="text"/>
District Chilled Water- Electric Driven Chiller	152. <input type="text"/>
District Chilled Water- Absorption Chiller using Natural Gas	153. <input type="text"/>
District Chilled Water- Engine-Driven Chiller Natural Gas	154. <input type="text"/>
Diesel	155. <input type="text"/>
Propane	156. <input type="text"/>
Renewable Energy Categories	
157. Type 1: Generated On-Site <input type="text"/>	158. <input type="text"/>
159. Type 2: Generated Off-Site <input type="text"/>	160. <input type="text"/>
161. Type 3: Generated Off-Site <input type="text"/>	162. <input type="text"/>
163. Type 4: Purchased <u>Renewable Energy</u> / <u>Renewable Energy</u> Credits <input type="text"/>	164. <input type="text"/>
Total Energy Costs	165. <input type="text"/>
Energy Rebates or Incentives (any energy types)	
Type of Project	Please enter positive number in \$ and net costs will show below.
166. <input type="text"/>	167. <input type="text"/>
168. <input type="text"/>	169. <input type="text"/>

170.	171.
172.	173.
Total Rebates	174.
	0
New Cost (Cost - Rebates)	175.
	0

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 (Baseline)	kBtus (Previous)	kBtus (Current)	Percent of Total Usage (Current)	Percent of Total Cost (Current)
Conventional Electricity (Fossil Fuel or Nuclear)	176.*	189.*	202.*	203.*	228.*
	0	0	0	0	0
Natural Gas	177.*	190.*	204.*	205.*	229.*
	0	0	0	0	0
Fuel Oil #2	178.*	191.*	206.*	207.*	230.*
	0	0	0	0	0
District Steam	179.*	192.*	208.*	209.*	231.*
	0	0	0	0	0
District Hot Water	183.*	196.*	216.*	217.*	235.*
	0	0	0	0	0
District Chilled Water-Electric Driven Chiller	180.*	193.*	210.*	213.*	232.*
	0	0	0	0	0
District Chilled Water-Absorption Chiller using Natural Gas	181.*	194.*	211.*	214.*	233.*
	0	0	0	0	0
District Chilled Water-Engine-Driven Chiller Natural Gas	182.*	195.*	212.*	215.*	234.*
	0	0	0	0	0
Diesel	184.*	197.*	218.*	220.*	236.*
	0	0	0	0	0
Propane	185.*	198.*	219.*	221.*	237.*
	0	0	0	0	0
Onsite Renewable Energy	186.*	199.*	222.*	223.*	238.*
	0	0	0	0	0
Offsite Renewable Energy	187.*	200.*	224.*	225.*	239.*
	0	0	0	0	0
Total	188.*	201.*	226.*	227.*	240.*
	0	0	0	0	0

241.* 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 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) Note: EUI values should be the same order of magnitude for all three years.

Current Year kBtus	Baseline Year kBtus	Previous Year kBtus	% Change from Baseline kBtus	% Change from Previous kBtus
242.*	243.*	244.*	245.*	246.*
0	0	0	0	0
Current Year EUI	Baseline Year EUI	Previous Year EUI	% Change from Baseline EUI	% Change from Previous EUI
247.*	248.*	249.*	250.*	251.*
0	0	0	0	0

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

- ☐ Yes
☐ No

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

- ☒ Yes
☐ No

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

- ☐ Yes
☒ No

253.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**.

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

- ☒ Yes
☐ No

253.b.a* Please indicate **Energy Star score** for 2020:

253.b.b* Please indicate the facility's **Site EUI** for 2020 according to Portfolio Manager:

253.b.c* Please indicate the facility's **Weather-Normalized Site EUI** for 2020 according to Portfolio Manager:

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

- ☒ Yes
☐ No

254.a Please attach written plan to reduce energy use:

Plan must be attached to get full credit for this question.

254.b Name of person accountable for energy use plan:
254.c Title of person accountable for energy use plan:
254.d Email of person accountable for energy use plan:
255. Has the facility developed a **Strategic Energy Master Plan (SEMP)**?☒ Yes☐ No**255.a** Please attach **Strategic Energy Master Plan (SEMP)****256.** Has the facility conducted a **baseline energy audit** for the institution in the past five years?☐ Yes☐ No**257.** Has the facility engaged a **retrocommissioning firm** to **optimize building performance**?☐ Yes☐ No**258.** Has the facility conducted **continuous commissioning**?☐ Yes☐ No**259.** Does the facility **utilize submeters** to better monitor energy efficiency opportunities?☒ Yes☐ No**259.a** Please indicate which **areas or equipment** have been submetered (e.g. by department, certain pieces of equipment etc.).
Energy Efficient Equipment**260.** Has the facility **purchased energy-efficient equipment** in 2020 that is **EnergyStar-labeled**?

Yes

Provide the Top 3 **EnergyStar-labeled product purchases** by dollars spent last year

Product	Spend (\$)
260.a	260.b
<input type="text"/>	<input type="text"/>
260.c	260.d
<input type="text"/>	<input type="text"/>
260.e	260.f
<input type="text"/>	<input type="text"/>

261. When an **EnergyStar** label is not available for a given technology, does the hospital consider **energy performance** as a part of cost of operation for the product?☒ Yes☐ No

261.a Please provide example and description of how energy performance was considered as part of the cost of operation for products in 2020:

Energy Efficiency Project Data

Please list the biggest **energy-saving projects** implemented in 2020 in Table E. List savings as a positive number (dollars).

Table E. Energy Efficiency Project Data

Project Description	Project Category	Energy Saved in 2020	Units	kBtus Saved in 2020	Dollar Savings (\$)
262. <input type="text"/>	263. Select an option... ▼	264. <input type="text"/>	265. Select an option... ▼	266. 0 <input type="text"/>	267. <input type="text"/>
268. <input type="text"/>	269. Select an option... ▼	270. <input type="text"/>	271. Select an option... ▼	272. 0 <input type="text"/>	273. <input type="text"/>
274. <input type="text"/>	275. Select an option... ▼	276. <input type="text"/>	277. Select an option... ▼	278. 0 <input type="text"/>	279. <input type="text"/>
280. <input type="text"/>	281. Select an option... ▼	282. <input type="text"/>	283. Select an option... ▼	284. 0 <input type="text"/>	285. <input type="text"/>
286. <input type="text"/>	287. Select an option... ▼	288. <input type="text"/>	289. Select an option... ▼	290. 0 <input type="text"/>	291. <input type="text"/>
Totals				292. 0 <input type="text"/>	293. 0 <input type="text"/>

Other Energy Program Successes

Please describe any additional **projects, savings, 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.

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

295.* Optional Attachment:

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

297.* Optional Attachment:

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