



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

1. Please enter the facility's **Baseline Year** for Energy data:

Baseline Year is the year the facility began actively tracking energy use and reduction.

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** below:

Baseline Year Sq Ft	Previous Year Sq Ft	Current Year Sq Ft
2. <input type="text"/>	3. <input type="text"/>	4. <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. Do you have an **onsite laundry**?

- ☐ Yes
☐ No

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

7. 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

7.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 (2019) energy usage column. To receive maximum points on this page, please enter the facility's baseline and previous year (2018) 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 2019 data in BOTH the baseline and current year columns and leave previous year blank. If last year (2018) 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 electricity purchased from the local utility grid in Table A1. If the facility has purchased and retired RECs for any portion of its electricity--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 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	8. <input type="text"/>	9. Select an option. ▾	10. <input type="text"/>	11. Select an option. ▾	12. <input type="text"/>	13. Select an option. ▾
Natural Gas	14. <input type="text"/>	15. Select an option. ▾	16. <input type="text"/>	17. Select an option. ▾	18. <input type="text"/>	19. Select an option. ▾
Fuel Oil (#2)	20. <input type="text"/>	21. Select an option. ▾	22. <input type="text"/>	23. Select an option. ▾	24. <input type="text"/>	25. Select an option. ▾
District Steam	26. <input type="text"/>	27. Select an option. ▾	28. <input type="text"/>	29. Select an option. ▾	30. <input type="text"/>	31. Select an option. ▾
District Hot Water	32. <input type="text"/>	33. Select an option. ▾	34. <input type="text"/>	35. Select an option. ▾	36. <input type="text"/>	37. Select an option. ▾
District Chilled Water- Electric Driven Chiller	38. <input type="text"/>	39. Select an option. ▾	40. <input type="text"/>	41. Select an option. ▾	42. <input type="text"/>	43. Select an option. ▾
District Chilled Water- Absorption Chiller using Natural Gas	44. <input type="text"/>	45. Select an option. ▾	46. <input type="text"/>	47. Select an option. ▾	48. <input type="text"/>	49. Select an option. ▾
District Chilled Water- Engine-Driven Chiller Natural Gas	50. <input type="text"/>	51. Select an option. ▾	52. <input type="text"/>	53. Select an option. ▾	54. <input type="text"/>	55. Select an option. ▾
Diesel	56. <input type="text"/>	57. Select an option. ▾	58. <input type="text"/>	59. Select an option. ▾	60. <input type="text"/>	61. Select an option. ▾
Propane	62. <input type="text"/>	63. Select an option. ▾	64. <input type="text"/>	65. Select an option. ▾	66. <input type="text"/>	67. Select an option. ▾
68. Enter Other fossil fuel type <input type="text"/>	69. <input type="text"/>	70. <input type="text"/>	71. <input type="text"/>	72. <input type="text"/>	73. <input type="text"/>	74. <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).

75. 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	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)	<u>76.</u> 0	<u>77.</u> 0	<u>78.</u> 0	<u>79.</u> 0	<u>80.</u> 0
Natural Gas	<u>81.</u> 0	<u>82.</u> 0	<u>83.</u> 0	<u>84.</u> 0	<u>85.</u> 0
Fuel Oil (#2)	<u>86.</u> 0	<u>87.</u> 0	<u>88.</u> 0	<u>89.</u> 0	<u>90.</u> 0
District Steam	<u>91.</u> 0	<u>92.</u> 0	<u>93.</u> 0	<u>94.</u> 0	<u>95.</u> 0
District Hot Water	<u>111.</u> 0	<u>112.</u> 0	<u>113.</u> 0	<u>114.</u> 0	<u>115.</u> 0
District Chilled Water-Electric Driven Chiller	<u>96.</u> 0	<u>97.</u> 0	<u>98.</u> 0	<u>99.</u> 0	<u>100.</u> 0
District Chilled Water-Absorption Chiller using Natural Gas	<u>101.</u> 0	<u>102.</u> 0	<u>103.</u> 0	<u>104.</u> 0	<u>105.</u> 0
District Chilled Water-Engine-Driven Chiller Natural Gas	<u>106.</u> 0	<u>107.</u> 0	<u>108.</u> 0	<u>109.</u> 0	<u>110.</u> 0
Diesel	<u>116.</u> 0	<u>117.</u> 0	<u>118.</u> 0	<u>119.</u> 0	<u>120.</u> 0
Propane	<u>121.</u> 0	<u>122.</u> 0	<u>123.</u> 0	<u>124.</u> 0	<u>125.</u> 0
<u>126.</u> 0	<u>127.</u>	<u>128.</u>	<u>129.</u>	<u>130.</u>	<u>131.</u>
Scope 1 (Direct) Energy-related GHG Emissions Total	<u>132.</u> 0	<u>133.</u> 0	<u>134.</u> 0	<u>135.</u> 0	<u>136.</u> 0
Scope 2 (Indirect) Energy-related GHG Emissions Total	<u>137.</u> 0	<u>138.</u> 0	<u>139.</u> 0	<u>140.</u> 0	<u>141.</u> 0

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

- ☒ Yes
☐ No

142.a Did you ensure previous year data was updated to calendar year as well?

- ☐ Yes
☐ No

Otherwise the facility **will not get credit for the energy reduction metric**--as it needs previous year data to be in same 12 month period as current year.

142.b Did you ensure baseline year data was updated to calendar year as well?

- ☐ Yes
- ☐ No

Otherwise the facility **will not get credit for the energy reduction metric**--as it needs baseline year data to be in same 12 month period as current year.

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

Yes

143.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	Baseline Year Usage	Units (baseline)	Previous Year Usage	Units (previous)	Current Year Usage	Units (current)	Retain/Retire RECs?
143.c Type 1: Generated On-site <input type="text"/>	143.d <input type="text"/>	143.e <input type="text"/>	143.f <input type="text"/>	143.g <input type="text"/>	143.h <input type="text"/>	143.i <input type="text"/>	143.j <input type="text"/>
143.k Type 2: Generated Off-site <input type="text"/>	143.l <input type="text"/>	143.m <input type="text"/>	143.n <input type="text"/>	143.o <input type="text"/>	143.p <input type="text"/>	143.q <input type="text"/>	143.r <input type="text"/>
143.s Type 3: Generated Off-site <input type="text"/>	143.t <input type="text"/>	143.u <input type="text"/>	143.v <input type="text"/>	143.w <input type="text"/>	143.x <input type="text"/>	143.y <input type="text"/>	143.z <input type="text"/>
143.aa Type 4: Purchased RECs/certificates <input type="text"/>	143.ab <input type="text"/>	143.ac <input type="text"/>	143.ad <input type="text"/>	143.ae <input type="text"/>	143.af <input type="text"/>	143.ag <input type="text"/>	143.ah <input type="text"/>

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

Total	Baseline Year	Previous Year	Current Year
Total Renewable Energy Use (kBtus)	143.ai <input type="text"/>	143.aj <input type="text"/>	143.ak <input type="text"/>
Total Avoided GHG emissions (MTCO2e) from renewable energy generation:	143.al <input type="text"/>	143.am <input type="text"/>	143.an <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.

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

☒ Yes

☐ No

144.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
144.b	144.c	144.d
<input type="text"/>	<input type="text"/>	<input type="text"/>

Current Energy Costs

Type	Total Cost (\$) Current
Conventional Energy Categories	
Electricity (fossil fuel)	145. <input type="text"/>
Natural Gas	146. <input type="text"/>
Fuel Oil #2	147. <input type="text"/>
District Steam	148. <input type="text"/>
District Hot Water	149. <input type="text"/>
District Chilled Water- Electric Driven Chiller	150. <input type="text"/>
District Chilled Water- Absorption Chiller using Natural Gas	151. <input type="text"/>
District Chilled Water- Engine-Driven Chiller Natural Gas	152. <input type="text"/>
Diesel	153. <input type="text"/>
Propane	154. <input type="text"/>
Renewable Energy Categories	
155. Type 1: Generated On-Site Select an option... ▾	156. <input type="text"/>
157. Type 2: Generated Off-Site Select an option... ▾	158. <input type="text"/>
159. Type 3: Generated Off-Site	160. <input type="text"/>

Select an option...	
161. Type 4: Purchased Renewable Energy / Renewable Energy Credits Select an option...	162. <input type="text"/>
Total Energy Costs	163. 0 <input type="text"/>

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)	164. <input type="text"/>	177. <input type="text"/>	190. <input type="text"/>	191. <input type="text"/>	216. <input type="text"/>
Natural Gas	165. <input type="text"/>	178. <input type="text"/>	192. <input type="text"/>	193. <input type="text"/>	217. <input type="text"/>
Fuel Oil #2	166. <input type="text"/>	179. <input type="text"/>	194. <input type="text"/>	195. <input type="text"/>	218. <input type="text"/>
District Steam	167. <input type="text"/>	180. <input type="text"/>	196. <input type="text"/>	197. <input type="text"/>	219. <input type="text"/>
District Hot Water	171. <input type="text"/>	184. <input type="text"/>	204. <input type="text"/>	205. <input type="text"/>	223. <input type="text"/>
District Chilled Water-Electric Driven Chiller	168. <input type="text"/>	181. <input type="text"/>	198. <input type="text"/>	201. <input type="text"/>	220. <input type="text"/>
District Chilled Water-Absorption Chiller using Natural Gas	169. <input type="text"/>	182. <input type="text"/>	199. <input type="text"/>	202. <input type="text"/>	221. <input type="text"/>
District Chilled Water-Engine-Driven Chiller Natural Gas	170. <input type="text"/>	183. <input type="text"/>	200. <input type="text"/>	203. <input type="text"/>	222. <input type="text"/>
Diesel	172. <input type="text"/>	185. <input type="text"/>	206. <input type="text"/>	208. <input type="text"/>	224. <input type="text"/>
Propane	173. <input type="text"/>	186. <input type="text"/>	207. <input type="text"/>	209. <input type="text"/>	225. <input type="text"/>
Onsite Renewable Energy	174. <input type="text"/>	187. <input type="text"/>	210. <input type="text"/>	211. <input type="text"/>	226. <input type="text"/>
Offsite Renewable Energy	175. <input type="text"/>	188. <input type="text"/>	212. <input type="text"/>	213. <input type="text"/>	227. <input type="text"/>
Total	176. <input type="text"/>	189. <input type="text"/>	214. <input type="text"/>	215. <input type="text"/>	228. <input type="text"/>

229. 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) 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
230. <input type="text"/>	231. <input type="text"/>	232. <input type="text"/>	233. <input type="text"/>	234. <input type="text"/>
Current Year EUI	Baseline Year EUI	Previous Year EUI	% Change from Baseline EUI	% Change from Previous EUI
235. <input type="text"/>	236. <input type="text"/>	237. <input type="text"/>	238. <input type="text"/>	239. <input type="text"/>

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

- ☐ Yes
☐ No

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

- ☒ Yes
☐ No

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

- ☐ Yes
☒ No

241.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**.

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

- ☒ Yes
☐ No

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

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

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

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

- ☒ Yes
☐ No

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

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

242.b Name of person accountable for energy use plan:

242.c Title of person accountable for energy use plan:

242.d Email of person accountable for energy use plan:

243. Has the facility developed a **Strategic Energy Master Plan (SEMP)**?

☒ Yes

☐ No

243.a Please attach **Strategic Energy Master Plan (SEMP)**

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

☐ Yes

☐ No

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

☐ Yes

☐ No

246. Has the facility conducted **continuous commissioning**?

☐ Yes

☐ No

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

☒ Yes

☐ No

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

Energy Efficient Equipment

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

Yes



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

Product	Spend (\$)
248.a	248.b
<input type="text"/>	<input type="text"/>
248.c	248.d
<input type="text"/>	<input type="text"/>
248.e	248.f
<input type="text"/>	<input type="text"/>

249. 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

249.a Please provide example and description of how energy performance was considered as part of the cost of operation for products in 2019:

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
<u>250.</u> <input type="text"/>	<u>251.</u> Select an option... ▾	<u>252.</u> <input type="text"/>	<u>253.</u> Select an option... ▾	<u>254.</u> 0 <input type="text"/>	<u>255.</u> <input type="text"/>
<u>256.</u> <input type="text"/>	<u>257.</u> Select an option... ▾	<u>258.</u> <input type="text"/>	<u>259.</u> Select an option... ▾	<u>260.</u> 0 <input type="text"/>	<u>261.</u> <input type="text"/>
<u>262.</u> <input type="text"/>	<u>263.</u> Select an option... ▾	<u>264.</u> <input type="text"/>	<u>265.</u> Select an option... ▾	<u>266.</u> 0 <input type="text"/>	<u>267.</u> <input type="text"/>
<u>268.</u> <input type="text"/>	<u>269.</u> Select an option... ▾	<u>270.</u> <input type="text"/>	<u>271.</u> Select an option... ▾	<u>272.</u> 0 <input type="text"/>	<u>273.</u> <input type="text"/>
<u>274.</u> <input type="text"/>	<u>275.</u> Select an option... ▾	<u>276.</u> <input type="text"/>	<u>277.</u> Select an option... ▾	<u>278.</u> 0 <input type="text"/>	<u>279.</u> <input type="text"/>
Totals				<u>280.</u> 0 <input type="text"/>	<u>281.</u> 0 <input type="text"/>

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.

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

283. Optional Attachment:

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

285. Optional Attachment:

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