



Climate

Introduction

According to the Lancet Commission, “Tackling climate change could be the greatest global health opportunity of the 21st century.” Climate change is the most serious and pressing environmental issue and emerging threat to human health. Practice Greenhealth looks forward to learning about and celebrating your climate change mitigation, resilience, and communication efforts to date.

Greenhouse Gas Emissions

Addressing climate change is a multi-step process that includes understanding the facility's impact, tracking the facility's impact, and mitigating the facility's impact. This section of the application will help you understand different greenhouse gas emissions reporting categories relevant to health care. Practice Greenhealth has developed a [Greenhouse Gas Reduction Toolkit](#) to walk you through this process.

Practice Greenhealth is autocalculating your facility's energy-related greenhouse gas (GHG) emissions from the Energy page and has entered them in the appropriate Scope Emissions tables below. Practice Greenhealth autocalculates the facility's GHG emissions from mobile fuel combustion from fleet vehicles below--current year only-- and waste anesthetic gases, brought over from the Greening the OR page. If you have questions about GHG calculations and conversion factors, please refer to our [Guidance on Greenhouse Gas \(GHG\) Emission Calculations](#)

Practice Greenhealth is now calculating the percent reduction in GHGs from baseline and previous year for your facility. In order to be included in the percent reduction from baseline calculation for Scope 1 emissions, the facility must enter a baseline year value for that category. Please direct questions on GHG calculations or data entry to [Lauren Koch](#), Associate Director of the Climate program.

Please enter your facility's annual **GHG emissions** in **Tables A1 through A3**. Please enter all data in **Metric Tons of Carbon Dioxide Equivalents (MTCO₂e)**.

Table A1. Scope 1 Greenhouse Gas Emissions

Scope 1	Baseline Year (metric tons CO ₂ e)	Previous Year (metric tons CO ₂ e)	Current Year (metric tons CO ₂ e)	Percent Reduction from Baseline	Percent Reduction from Previous
Stationary Combustion of Fuels (E.g. Boilers, generators, onsite incinerators, etc.)	<u>1.</u> 0	<u>2.</u> 0	<u>3.</u> 0	<u>4.</u> 0	<u>5.</u> 0
Mobile Fuel Combustion by Fleet Vehicles	<u>6.</u>	<u>7.</u>	<u>8.</u> 0	<u>9.</u> 0	<u>10.</u> 0
Refrigerants (Fluorinated Gases)	<u>11.</u>	<u>12.</u>	<u>13.</u>	<u>14.</u> 0	<u>15.</u> 0
Waste Anesthetic Gases (Process Emissions)	<u>16.</u> 0	<u>17.</u> 0	<u>18.</u> 0	<u>19.</u> 0	<u>20.</u> 0
Total Scope 1 Emissions	<u>21.</u> 0	<u>22.</u> 0	<u>23.</u> 0	<u>24.</u> 0	<u>25.</u> 0

GHG emissions from stationary fuel combustion, mobile fuel combustion and waste anesthetic gases are autocalculated from data received in other areas of the application.

Practice Greenhealth modeled its GHG reporting categories on [The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard \(GHG Protocol\)](#) by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD).

The GHG Protocol recommends quantifying two different Scope 2 emissions totals, using a **location-based method** and a **market-based method**. The organization should quantify and report both totals if conducting its own comprehensive GHG inventory. Practice Greenhealth autocalculates the facility's **Scope 2 GHG** emissions using the **location-based method**. For examples from different hospitals, see the Practice Greenhealth's [Conducting a GHG Inventory](#) or the [Addendum for Location and Market-Based Methodologies](#).

Table A2. Scope 2 Greenhouse Gas Emissions (Location-based)

Scope 2 (location-based)	Baseline Year (metric tons CO ₂ e)	Previous Year (metric tons CO ₂ e)	Current Year (metric tons CO ₂ e)	Percent Reduction from Baseline Year	Percent Reduction from Previous Year
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Purchased Electricity	26. 0	27. 0	28. 0	29. 0	30. 0
District Steam	31. 0	32. 0	33. 0	34. 0	35. 0
District Hot Water	36. 0	37. 0	38. 0	39. 0	40. 0
District Chilled Water	41. 0	42. 0	43. 0	44. 0	45. 0
Total Scope 2 Emissions	46. 0	47. 0	48. 0	49. 0	50. 0

51. Is the facility tracking **market-based Scope 2 GHG** emissions? (optional)

- ☒ Yes
☐ No

For more information on tracking Market-Based Scope 2 Emissions, see Practice Greenhealth's [Greenhouse Gas Reduction Toolkit](#). The market-based approach is a more comprehensive carbon accounting process for Scope 2 emissions than location-based method. If the facility is unsure if it is tracking **market-based Scope 2 emissions**, please reply No to this question. **Market-based Scope 2 emissions will not be included in auto-calculations for total GHG emissions.**

Scope 2 Greenhouse Gas Emissions (Market-Based)

Scope 2 (market-based)	Current Year (metric tons CO2e)
Purchased Electricity	51.a 0
District Steam	51.b 0
District Hot Water	51.c 0
District Chilled Water	51.d 0
Total Scope 2 (market based) Emissions	51.e 0

Table A3. Scope 3 Greenhouse Gas Emissions

Scope 3	Baseline Year (MTCO2e)	Previous Year (MTCO2e)	Current Year (MTCO2e)	Percent Reduction from Baseline	Percent Reduction from Previous
Purchased Goods or Services	52. 0	53. 0	54. 0	55. 0	56. 0
Capital Goods	57. 0	58. 0	59. 0	60. 0	61. 0
Fuel and Energy-Related Activities (not in Scope 1 or 2)	62. 0	63. 0	64. 0	65. 0	66. 0
Transportation and Distribution	67. 0	68. 0	69. 0	70. 0	71. 0
Waste Generated in	72. 0	73. 0	74. 0	75. 0	76. 0

Operations				0	0
Business Travel	<u>77.</u> 0	<u>78.</u> 0	<u>79.</u> 0	<u>80.</u> 0	<u>81.</u> 0
Employee Commuting	<u>82.</u> 0	<u>83.</u> 0	<u>84.</u> 0	<u>85.</u> 0	<u>86.</u> 0
End of Life Treatment of Sold Goods	<u>87.</u> 0	<u>88.</u> 0	<u>89.</u> 0	<u>90.</u> 0	<u>91.</u> 0
Leased Assets	<u>92.</u> 0	<u>93.</u> 0	<u>94.</u> 0	<u>95.</u> 0	<u>96.</u> 0
Other Scope 3	<u>97.</u> 0	<u>98.</u> 0	<u>99.</u> 0	<u>100.</u> 0	<u>101.</u> 0
Total Scope 3 Emissions	<u>102.</u> 0	<u>103.</u> 0	<u>104.</u> 0	<u>105.</u> 0	<u>106.</u> 0

Please Note: Table A3. does not include all categories of **Scope 3 GHG** emissions. If the organization is generating and tracking **Scope 3 GHG** emission categories other than those listed, please enter this value (in MTCO2e) in the box for Q. 104 above. To learn more about the suggested categories to start with in Scope 3, see the Practice Greenhealth GHG Toolkit section on **Conducting an Inventory**.

Total GHG Emissions and Percent Reduction

	Baseline Year (metric tons CO2e)	Previous Year (metric tons CO2e)	Current Year (metric tons CO2e)	Total Percent Reduction in GHG Emissions from Baseline	Total Percent Reduction in GHG Emissions from Previous Year
Total GHG Emissions	<u>107.</u> 0	<u>108.</u> 0	<u>109.</u> 0	<u>110.</u> 0	<u>111.</u> 0

112. Is the facility purchasing **carbon offsets**?

☒ Yes

☐ No

112.a Please indicate **carbon offsets** in MTCO2e:

Carbon offsets should be entered as a **positive** number.

112.b Please indicate if carbon offsets are **green-e certified** or from what other mechanism these offsets are derived:

In **Table B**, please list the three (or more) top emission reduction efforts in the past year. Reduction metrics must be in **metric tons of CO2e**. Examples of mitigation programs could include energy efficiency projects, **renewable energy** installations, alternative transportation programs, **recycling**, composting, meat reduction, water reduction activities, and waste anesthetic gas minimization.

Please carefully select the appropriate Scope for your emissions reductions projects below. If you are unsure what Scope the project falls under, please review the tables above or select **Don't know**.

Table B. Current Year GHG Emission Reductions

Project Description	Scope Emissions	CO2e Savings(metric tons)	Dollar Savings (list total savings (+) or expenditure (-))
<u>113.</u> <input type="text"/>	<u>114.</u> Select an option... ▾	<u>115.</u> <input type="text"/>	<u>116.</u> <input type="text"/>
<u>117.</u> <input type="text"/>	<u>118.</u> Select an option... ▾	<u>119.</u> <input type="text"/>	<u>120.</u> <input type="text"/>

121.	122.	123.	124.
	Select an option...		
125.	126.	127.	128.
	Select an option...		
129.	130.	131.	132.
	Select an option...		
Total		133.	134.
		0	0

Demonstrating Climate Leadership

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

Yes

Please note that this question pulls directly from the Energy page of the application and cannot be edited on this page.

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

0

Please note that this question pulls directly from the Energy page of the application and cannot be edited on this page.

136. Renewable energy has a significantly different **carbon footprint** than conventional energy and is an important strategy for climate change mitigation. Based on the data entered in the Energy section of this application, the **percentage of the facility's energy portfolio from renewable sources** is:

0

Please note that this question pulls directly from the Energy page of the application and cannot be edited on this page.

137. Has the hospital or health system set either a **GHG reduction** or **renewable energy goal**?

☒ Yes

☐ No

Please note that this question pulls directly from the Energy page of the application and cannot be edited on this page.

Please indicate in the table below if the organization has set a **goal related to climate** and indicate which scope the goal applies to, the target year for reductions, the baseline year for the goal, and the projected annual reductions in metric tons of CO₂e.

Goal Type	Goal applies to:	Percent reduction (if applicable)	Target Year	Baseline Year	Projected Annual Reductions in GHGs (in MTCO ₂ e)
Carbon Net Positive	137.a Select an option...	137.b	137.c	137.d	137.e
Carbon Neutral	137.f Select an option...	137.g	137.h	137.i	137.j
Greenhouse Gas Reduction	137.k Select an option...	137.l	137.m	137.n	137.o
Renewable Energy	137.p Select an option...	137.q	137.r	137.s	137.t
Aggressive Energy Reduction	137.u Select an option...	137.v	137.w	137.x	137.y
Other	137.z Select an option...	137.aa	137.ab	137.ac	137.ad

138. Has the facility made a formal external commitment to climate change or signed a commitment?

- ☒ Yes
☐ No

138.a Please select all that apply:

- ☐ Climate Registry
☐ Divestment from or frozen future investments in fossil fuels
☐ Health Care Climate Challenge
☐ Health Care Climate Council
☐ Local/state/regional commitment
☐ The Presidents' Climate Leadership Commitment
☐ We Are Still In
☒ Other

For more information on different public climate change commitments, see the [Health Care Climate Challenge](#), the [Health Care Climate Council](#), the [Presidents' Leadership Commitment](#), and [We Are Still In](#).

To learn more about divestment from fossil fuels and investment in clean technologies for health care institutional investors, see [Divestment & Investment](#).

138.a.b Please indicate which other climate commitment the facility has signed onto.

Points will not be awarded for having a climate commitment unless the specific commitment information is provided.

139. Has the facility advocated for or promoted policies or regulations that **protect public health from the causes of climate change** (e.g. testifying or submitting comments at public hearings, OpEds, sign-on letters/statements, meeting with public officials to educate or lobby)?

- ☒ Yes
☐ No

139.a Please select all that apply:

- ☐ At the local level
☐ At the state level
☐ At the federal level

139.b Please describe any advocacy work around climate and health and/or provide links or attachments below.

139.c Please attach any supporting documentation.

140. Has the facility provided **education** on the connection between climate and health to its staff, patients, clinicians and/or the community?

- ☒ Yes
☐ No

140.a Please select all that apply:

- ☐ Staff
☐ Patients
☐ Community
☐ Physicians
☐ Nurses
☐ Other Health Professionals
☐ None of the above

140.b Please attach examples of material used for **climate and health education** (e.g., presentations, brochures, fact sheets, posters).

141. Has the facility provided **Green Employee Benefits** to support climate change solutions for their employees at home? Please select all that apply:

- ☐ Employee Home Solar Discounts
☐ Electric Bicycle Discounts
☐ CSAs

- ☐ Fossil Fuel Free Retirement Options
☐ Alternative Transportation Discounts/Stipends
☒ Other
☐ None of the above

Learn more about [Green Employee Benefits](#).

141.a Please describe other Green Employee Benefits offered:

142. Has your facility incorporated climate change language or a [connection to climate change](#) in activities of the **Community Health Needs Assessment** process for community benefit?

- ☒ Yes
☐ No

142.a Please describe:

143. Does the facility/health system's CEO or Board of Directors identify climate change as a business risk by requiring regular reporting on climate change mitigation and preparedness?

- ☐ Yes
☐ No

Climate Resilience

Please indicate how the facility has been working on **protecting infrastructure and building community resilience initiatives** around climate change:

Analyzed local disaster risks due to climate change and its role in addressing them.	144. Select an option...
Reviewed the evidence of health risks from climate change (from local public health epidemiology/vulnerability assessments: e.g. migration of vector borne diseases, extreme heat, etc.) that may impact its community.	145. Select an option...
Participated in city, regional, or state climate resilience planning efforts.	146. Select an option...
Acted on one or more of top vulnerabilities to improve the resilience of building infrastructure, energy, water, and food systems.	147. Select an option...
Engaged in long term activities that restore and improve functioning ecosystem services in order to foster more resilient communities (e.g. working to preserve or restore ecosystem services - forests, coastal zones, wetlands, river basins, fisheries).	148. Select an option...
Developed a plan and included climate risks in both facility and regional emergency preparedness planning and implementation for addressing key health care service delivery needs during or following extreme weather events such as cold or heat waves, hurricanes, droughts, wildfires.	149. Select an option...
Completed an assessment tool (such as the Building Health Care Sector Resilience Toolkit , and developed an action plan to address climate change-related building and infrastructure vulnerabilities.	150. Select an option...

Learn more with the Climate Resilience toolkit from the US Department of Health & Human Services: [Primary Protection: Enhancing Health Care Resilience for a Changing Climate](#) or the HCWH and PwC report [Safe Haven in the Storm: Protecting lives and margins with climate-smart health care](#).

Transportation

The transportation sector generates the largest share of greenhouse gas emissions in the United States, and is a major contributor to hazardous air pollution. Decreasing the emissions from transportation is critical to achieving US greenhouse gas reduction goals, improving air quality and community health, strengthening community relationships by collaborating with municipal transit networks, and engaging employees by encouraging them to choose healthier, more active transit alternatives. Transportation strategies in the areas of employee commute, fleet vehicle management, supply chain practices, facility siting, and building considerations are all instrumental to reduce the environmental impact of hospital transportation practices.

Learn more in Practice Greenhealth's [Transportation Toolkit](#).

151. Is the facility actively working to reduce the impact of transportation on the environment and the local community, in alignment with Practice Greenhealth's [Transportation Goals](#)?

- ☐ Yes
☐ No

152. Does the facility conduct an annual survey to collect mode of transportation by employees commuting to work?

- ☒ Yes
☐ No

See a [sample employee commute survey](#).

Understanding how employees travel to and from work via an employee commute survey is the first step in setting a target for reducing this Scope III emission source. Employee commute surveys and data collection may be self-administered or administered by local, regional and state transit authorities, non-profit organizations, and business partners. These are acceptable sources for reporting and tracking employee single occupancy vehicle rate (SOV), and vehicle miles traveled (VMT). See a [Sample Employee Commute Survey](#) as a starting point.

In **Table C.** below, please enter the total number of drive alone (or single occupancy vehicle--SOV) trips identified from the employee commute survey for 2019. Then enter the total number of ALL commute trips identified from the employee commute survey in 2019. This allows Practice Greenhealth to calculate the **Percent Reduction in SOV Commute Trips** for the facility.

Table C. Employee Commute: Single Occupancy Vehicle (SOV) Commute Rate

Annual Number of Commute Trips	Baseline Year	Previous Year	Current Year
Single occupancy/drive alone commute trips	152.a <input type="text"/>	152.b <input type="text"/>	152.c <input type="text"/>
Total commute trips	152.d <input type="text"/>	152.e <input type="text"/>	152.f <input type="text"/>
Single occupancy vehicle/drive alone rate	152.g <input type="text"/>	152.h <input type="text"/>	152.i <input type="text"/>

Percent Reduction in SOV Commute Trips from Baseline Year	Percent Reduction in SOV Commute Trips from Previous Year
152.j <input type="text"/>	152.k <input type="text"/>

152.l Does the facility's employee commute survey include tracking estimated **vehicle miles traveled (VMT)** and/or **vehicle type** for employees commuting to work?

- ☐ Yes
☐ No

Practice Greenhealth can assist the facility in extrapolating and calculating GHG emissions from employee commute (Scope 3) if survey data captures [VMT and vehicle type](#).

152.m Please attach supporting documentation for employee commute survey results.

153. Does the facility purchase **green* vehicles** for fleet use?

Select an option... ▾

For more information on definitions used by Practice Greenhealth's for *green vehicles--or [low-emitting](#) and [fuel-efficient](#) vehicles, and [alternate fuel vehicles](#) (AFV), please see: [Transportation Definitions](#).

Many hospitals and health systems own, lease, or outsource fleet vehicles – including passenger and courier vehicles, ambulances, shuttles, vans, buses, light duty, medium- and heavy-duty trucks, and helicopters – used to move patients, employees, and materials around health system network facilities. Transitioning fleet vehicles away from conventional fossil fuels beginning with diesel -- the worst offender in terms of hazardous airborne particulate matter and soot -- toward low/zero-emission, fuel-efficient, and alternative fuel vehicles is a key strategy for reducing air pollution as well as fuel and maintenance costs.

Please identify **all fleet vehicles** (conventional and green) in Table D. Practice Greenhealth will auto-calculate the GHG emissions from mobile fuel combustion from fleet vehicles. You **MUST** select qualifying criteria to have the vehicles count toward the **percent green fleet** metrics. Please **do**

not select conventional AND another qualifying criteria. Conventional means the vehicle does not qualify as low-emitting, fuel-efficient or alternative fuel.

Table D. Fleet Vehicle GHG Emissions

Vehicle Type	Fuel Type	Number of Vehicles	Criteria	Annual Gallons of Fuel Used	Annual Fuel Cost (in \$)	GHG Emissions from Mobile Fuel Combustion (in MTCO _{2e})
154. Select an option. ▾	155. Select an option. ▾	156. <input type="text"/>	157. Select all that apply: <input type="checkbox"/> Conventional <input type="checkbox"/> Low-emitting <input type="checkbox"/> Fuel-efficient <input type="checkbox"/> Alternative Fuel Vehicle	158. <input type="text"/>	159. <input type="text"/>	160. 0 <input type="text"/>
161. Select an option. ▾	162. Select an option. ▾	163. <input type="text"/>	164. Select all that apply: <input type="checkbox"/> Conventional <input type="checkbox"/> Low-emitting <input type="checkbox"/> Fuel-efficient <input type="checkbox"/> Alternative Fuel Vehicle	165. <input type="text"/>	166. <input type="text"/>	167. 0 <input type="text"/>
168. Select an option. ▾	169. Select an option. ▾	170. <input type="text"/>	171. Select all that apply: <input type="checkbox"/> Conventional <input type="checkbox"/> Low-emitting <input type="checkbox"/> Fuel-efficient <input type="checkbox"/> Alternative Fuel Vehicle	172. <input type="text"/>	173. <input type="text"/>	174. 0 <input type="text"/>
175. Select an option. ▾	176. Select an option. ▾	177. <input type="text"/>	178. Select all that apply: <input type="checkbox"/> Conventional <input type="checkbox"/> Low-emitting <input type="checkbox"/> Fuel-efficient <input type="checkbox"/> Alternative Fuel Vehicle	179. <input type="text"/>	180. <input type="text"/>	181. 0 <input type="text"/>
182. Select an option. ▾	183. Select an option. ▾	184. <input type="text"/>	185. Select all that apply: <input type="checkbox"/> Conventional <input type="checkbox"/> Low-emitting <input type="checkbox"/> Fuel-efficient <input type="checkbox"/> Alternative Fuel Vehicle	186. <input type="text"/>	187. <input type="text"/>	188. 0 <input type="text"/>
		189. 0 <input type="text"/>			190. 0 <input type="text"/>	191. 0 <input type="text"/>

Please Note: Data for vehicles using **compressed natural gas (CNG)** should enter quantity of fuel in **standard cubic feet (SCF)** rather than gallons. GHGs from electricity use as a fuel is not currently calculated to avoid double-counting, because it is assumed that electric fleet vehicles are recharging onsite and that electricity is already being reported in Scope 2 emissions.

192. Are all of the facility's **fleet vehicles** (conventional and green) captured in the table above?

- ☐ Yes
☒ No

Please check the list of **included/excluded vehicle types** above before providing the number of total vehicles in the facility's fleet in Table D.

192.a Please explain:

Fleet Metrics

Current Year GHG Emissions from Mobile Fuel Combustion	Total Number of Green Fleet Vehicles	Percent Green Fleet
193. 0 <input type="text"/>	194. 0 <input type="text"/>	195. 0 <input type="text"/>

Please Note: These are NOT scored metrics in 2019.

196. Does the facility **participate in** or has the facility **implemented** any of the following:

- ☐ Monitor air quality and notify vulnerable patient populations
- ☐ Participate in regional transportation planning and/or maintain membership in a transportation management association
- ☐ Provide vouchers or subsidies for public transit, ride- and bike-sharing services
- ☐ Provide preferred parking for carpool participants and low-emission, fuel-efficient vehicles (hybrids, smart cars)
- ☐ Provide bike racks, bike paths, walkways, and shower facilities for alternative commuters
- ☐ Install electric vehicle charging stations
- ☐ Provide or outsource shuttle/vanpool, carpool or ride-sharing services
- ☐ Pay employees daily/monthly stipend for using alternative transit modes
- ☐ Offer telework, compressed work schedules to reduce employee commuting
- ☐ Adopt engine idling reduction practices and policies
- ☐ Encouraged or required suppliers to become an EPA SmartWay Shipper Partner to drive down Scope 3 GHGs from freight transportation
- ☒ Other

196.a Please describe other transportation programs in place:

Other Climate Program Successes

Please describe any other successes or innovations in the Climate program or projects at your facility in 2019 in the spaces provided below. Please feel free to provide commentary and/or attach a file.

197. Climate Program Success 1: Please describe

198. Please attach any additional documentation (optional) for Climate Program Success 1:

199. Climate Program Success 2: Please describe

200. Please attach any additional documentation (optional) for Climate program Success 2:

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