# Water

## Introduction

Water is a critical resource for community health and well-being. Because of the artificially low pricing of water in most of the country, it can be challenging to get water efficiency and conservation prioritized. However, water efficiency and conservation remains a vital part of a strong environmental stewardship program. Tracking and measuring the amount of direct water used is the first step a hospital should take to begin its water management and minimization program.

## Water Use Demographics

Learn more about Practice Greenhealth's **Less Water Goal**. See the **Less Water Toolkit** for more information and guidance on water reduction strategies.

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

Baseline Year is the year the facility began actively tracking water use and reduction--and can be no more than **five (5) years ago** (or 2016).

## Water Usage

Please indicate the facility's **total water use in Table A.** below. Please **include irrigation water** if applicable in these totals. All applicants are required to complete the **Current Year** (2021) water consumption data. If 2021 was your facility's Baseline Year, please provide the 2021 water consumption data in **both Current and Baseline Year**, and leave Previous Year blank. **Do not enter zeros.**

For **Gross Floor Area**, please 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.**

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.

**Cleanable Square Feet**: Gross square footage refers to all measurable space contained within the walls and under the roof of any individual facility. Cleanable square footage only counts the actual space that the Environmental Services (EVS) staff clean. Consequently, it excludes locations such as electrical or maintenance closets, inner space between walls, courtyards or patios and parking garages. The engineering or facilities department may be a good place to acquire this information, as well as contracts for housekeeping services if your facility outsources EVS. To calculate **Cleanable Square Feet** when a measured value is not available, the facility can estimate that **Cleanable Square Feet** = Gross Square Feet minus walls (1.5% of gross square feet) minus square footage of non-cleanable areas (i.e., electrical closets, mechanical rooms, storage rooms).

**Table A. Total Water Consumption**

| | Baseline Year | Units | Previous Year | Units | Current Year | Units |
|---|---|---|---|---|---|---|
| **Gross Floor Area** | 2.* | Square Feet | 3.* | Square Feet | 4.* | Square Feet |
| **Cleanable Area** | | | | | 5.* | Square Feet |
| **Annual Water Consumption** | 6.* | 7.* Select an optio | 8.* | 9.* Select an optio | 10.* | 11.* Select an optio |
| **Annual Water Consumption** | 12.* 0 | Gallons | 13.* 0 | Gallons | 14.* 0 If this number is zero, please select units in Question 11. | Gallons |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Gallons per square foot** | **15.*** 0 | Gallons / square foot | **16.*** 0 | Gallons / square foot | **17.*** 0 | Gallons / square foot |

Learn more about calculating **cleanable square feet**.

**18.*** Was irrigation water included as part of overall water consumption in Table A above?

- ○ Yes
- ◉ No

Practice Greenhealth asks that facilities include irrigation water in the totals above. Irrigation water will be broken out separately below for calculation of more precise water use metrics.

**18.a*** Please add irrigation water into totals in Table A if you can. Otherwise, please explain barriers to providing this data:

**19.*** Please provide the Annual Costs ($) for Current Year Water Consumption:

**20.*** Is the facility actively working to reduce water use in alignment with Practice Greenhealth's **Less Water Goal**?

- ○ Yes
- ○ No

**21.*** Has the facility set **measurable goals** for the reduction of water use?

- ◉ Yes
- ○ No

**21.a*** What is the facility's water reduction goal?

**22.*** Does your facility irrigate any landscape areas?

- ◉ Yes
- ○ No

**22.a*** Please provide the **Irrigated Area** for the hospital campus (in square feet):

There are 43,560 square feet in an acre. To convert acres to square feet, multiply acres by 43,560.

**22.b*** Does your facility **separately meter irrigation water** versus other water used for the facility?

- ◉ Yes
- ○ No

**22.b.a*** Please indicate the **gallons** of water used for **irrigation** in 2021 (actual):

**22.b.c*** Based on the data above, the facility's (actual) indoor water use for 2021 is:

0

**22.c*** Based on the data above, the facility's **Irrigation Water Use** for 2021 is:

0

This number will be used for calculation of Gallons of Water Use per Irrigated Square Foot.

**22.d*** The facility's metric for **Gallons of Water Use per Irrigated Square Foot** is:

0

**22.e*** The facility's **Indoor Water Use** for 2021 is:

0

This number will be used for calculation of Indoor Water Use Metrics in Table C.

Based on the data above, your facility's normalized **water use metrics** for Indoor Water Use are presented in Table C. below.

For indoor gallons per square foot, the 2021 median was 31 gallons per Square Foot ; values generally ranged from 28 to 50.
For indoor gallons per cleanable square foot, values generally ranged from 38 to 54.
For indoor gallons per FTE, values generally ranged from 17,500 to 60,000.

**Table C. Indoor Water Use Metrics**

| 28.* Indoor Gallons per Square Foot | 29.* Indoor Gallons per Cleanable Square Foot | 30.* Indoor Gallons per FTE |
|---|---|---|
| 0 | 0 | 0 |

Given the data you provided in Table A, your facility's normalized **water use metrics** for Total Water Use are presented in Table B1 below.

Table B2 highlights the facility's normalized **water use reduction metrics**.

For total gallons per square foot, he 2021 median was 39.4 gallons per Square Foot; values generally ranged from 16 to 75.
For total gallons per cleanable square foot, the 2021 median was 51 gallons per Cleanable Square Foot; values generally ranged from 19 to 83.
For total gallons per FTE, the 2021 median was 25,777 gallons per FTE; values generally ranged from 10,000 to 70,000.

**Table B1. Total Water Use Metrics (Current Year)**

| 23.* Total Gallons per Square Foot | 24.* Total Gallons per Cleanable Square Foot | 25.* Total Gallons per FTE |
|---|---|---|
| 0 | 0 | 0 |

**Table B2. Water Use Reduction Metrics**

| Percent Total Water Use Reduction from Baseline Year | Percent Total Water Use Reduction from Previous Year |
|---|---|
| 26.* 0 | 27.* 0 |
| This is the percent change between total gallons per square foot in Current Year and Baseline Year. A negative number indicates an increase in consumption. | This is the percent change between total gallons per square foot in Current Year and Previous Year. A negative number indicates an increase in consumption. |

## Water Conservation

**31.*** Does the facility **submeter** any departments and/or individual pieces of equipment?

- (●) Yes
- ( ) No

**31.a*** Please indicate which of the following departments or equipment are submetered for water use:

- [ ] Boilers
- [ ] Chillers
- [ ] Compressed air systems
- [ ] Cooling towers
- [ ] Dialysis
- [ ] Irrigation
- [ ] Laundry
- [ ] Operating rooms
- [ ] Therapy pools
- [x] Other

**31.a.a*** Please describe other submetered equipment or areas:

**32.*** Does the facility have a **written plan** to **reduce water use** over time?

- (●) Yes
- ( ) No

**32.a*** Please attach written plan to reduce water use:

**33.*** Has the facility conducted a **water audit**?

- ( ) Yes

○ No

**34.*** Does the facility **benchmark water usage**?

◉ Yes
○ No

**34.a*** What **tool or company** does the organization utilize to benchmark water usage?

**35.*** Has the facility purchased any of the following **US EPA WaterSense-labeled** devices and equipment? (Please select all that apply.)

☐ Bathroom sink faucets/accessories
☐ Flushing urinals
☐ Flushometer valve toilets
☐ Irrigation controllers
☐ Pre-rinse spray valves
☐ Showerheads
☐ Spray sprinkler bodies
☐ Toilets

**36.*** Has the facility implemented any of the following strategies or technologies for the **reuse of non-potable water**?

☐ Boiler blow-down collection for reuse
☐ Condensate collection for reuse
☐ Gray water reuse system
☐ Rainwater harvesting system
☐ Use of non-potable water for laundry
☑ Other

**36.a*** Please describe any other efforts to reuse non-potable water:

**37.*** Does the facility use any alternative landscaping methods that **reduce the need for irrigation**?

◉ Yes
○ No

**37.a*** If yes, please describe alternative landscaping for irrigation reduction:

**37.b*** Include **water savings** realized from alternative landscaping methods in 2021 (in gallons):

Please list the biggest **water-saving projects** implemented in 2021 in Table E. A minimum of three projects is suggested if possible.

Consider using the following guidance from Energy Star Porfolio Manager to calculate water savings projects: **Less Water Toolkit**

Note: Your overall water use reduction is calculated above through percent water reduction from baseline, where you will get 'credit' for older water reduction projects. This table is ONLY for **projects completed in the past year.**

**Table E: Water Reduction Projects**

| Project Description | Category | Water Savings (in gallons/year) | Annual Savings in USD $ (real or calculated) |
|---|---|---|---|
| 38.* | 39.* Select an option... | 40.* | 41.* |
| 42.* | 43.* Select an option... | 44.* | 45.* |
| 46.* | 47.* Select an option... | 48.* | 49.* |
| | | | |

| | | | |
|---|---|---|---|
| **50.*** | **51.*** Select an option... | **52.*** | **53.*** |
| **54.*** | **55.*** Select an option... | **56.*** | **57.*** |
| **Total** | | **58.** 0 | **59.** 0 |

## Other Water Program Successes

Please describe any additional **projects, savings, successes or innovations** in the water 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.

**60.*** Water Success 1: Please describe or attach any additional documentation.

**61.*** Optional Attachment:

**62.*** Water Success 2: Please describe or attach any additional documentation.

**63.*** Optional Attachment:

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