



HACKENSACK MERIDIAN HEALTH - HACKENSACK UNIVERSITY
MEDICAL CENTER — no.3767451

Partner for Change - 2018: Water

This application is being viewed in read-only mode.

Data imported from previous year application highlighted in yellow.

Introduction

Water is a critical resource for community health and well-being. Because of the artificially low pricing for water, it can be challenging to get this program prioritized. However, water 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

Practice Greenhealth introduced its [Less Water Goal](#) in 2016. See the [Less Water Toolkit](#) for more information and guidance on water reduction strategies.

1. Please enter the facility's Baseline Year:

2012

Baseline Year is the year the facility began actively tracking water use or initiated a water conservation program. Practice Greenhealth uses this data to assess organizational progress over time.

2. Please indicate the number of **hemodialysis treatments** the facility performs annually (both at bedside and inpatient unit):

6288

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** water consumption data. If 2017 was your facility's Baseline Year, please provide the water consumption data for 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. Click here for the definition of **Gross Floor Area**.

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 ES 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. (Cite: **Health Facilities Management**) 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	3. 2504408	Square Feet	4. 2504408	Square Feet	5. 2,504,408	Square Feet
Cleanable Area					6. 2399608	Square Feet
Annual Water Consumption	7. 137781021	8. Water-U S Ga <input type="checkbox"/>	9. 107072179	10. Water-U S Ga <input type="checkbox"/>	11. 122164867	12. Water-U S. Ga <input type="checkbox"/>

13. Your Current Year total annual water consumption (in US gallons) is:

122164867

If this number is zero, please check that you have selected units in the table above.

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

- No Answer
- 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.

15. Please provide the Annual Costs (\$) for Current Year Water Consumption:

821006.89

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

- No Answer
- Yes
- No

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

Our goal was to reduce water consumption by 5%. We are looking to revamp our water conservation program in 2018. Our Manager of Plant Operations that oversees water will be taking a goal of implementing water conservation initiatives.

17. Does your facility irrigate any landscape areas?

- No Answer
- Yes
- No

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

43560

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

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

- No Answer
- Yes
- No

17.b.b Please estimate the gallons of water used for irrigation in 2017:

30169676

17.b.d Based on the data above, the facility's (estimated) indoor water use for 2017 is:

91995191.0

17.c Based on the data above, the facility's **Irrigation Water Use** for 2017 is:

30169676.0

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

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

692.60

17.e The facility's **Indoor Water Use** for 2017 is:

91995191.0

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.

Table C. Indoor Water Use Metrics

<p>23. Indoor Gallons per Square Foot (The 2017 median was 44.5 gal/ sq foot; values generally ranged from 5 to 200)</p> <p>36.73</p>	<p>24. Indoor Gallons per Cleanable Square Foot</p> <p>38.34</p>	<p>25. Indoor Gallons per FTE</p> <p>17334.69</p>
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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. For comparison, data for Total Water Use from the 2017 award winners is presented in parentheses. If your consumption is out of the range presented, please review your **water consumption** and **square footage** data entered in Table A above.

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

Table B1. Total Water Use Metrics

<p>18. Total Gallons per Square Foot (The 2017 median value was 46.9, values generally ranged from 6.8 to 218):</p> <p>48.78</p>	<p>19. Total Gallons per Cleanable Square Foot (The 2017 median value was 54.1, values generally ranged from 9 to 253):</p> <p>50.91</p>	<p>20. Total Gallons per FTE (The 2017 median value was 20,635, values generally ranged from 3,100 to 155,400)</p> <p>23019.57</p>
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Table B2. Water Use Reduction Metrics

Percent Total Water Use Reduction from Baseline Year	Percent Total Water Use Reduction from Previous Year
<p>21.</p> <p>11.3</p>	<p>22.</p> <p>-14.1</p>
<p>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.</p>	<p>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.</p>

Water Conservation

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

No Answer

Yes

No

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

No Answer

Yes

No

28. Has the facility contracted with a **third party** to conduct **water audits**?

No Answer

Yes

No

28.a Name of water audit firm:

Gotham360

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

No Answer

Yes

No

29.a What **software program, tool or company** did the organization utilize to benchmark water usage?

Gotham360

29.b Please indicate your **preferred metric** for measuring/normalizing water use:

Gallons/Square Feet

29.c Please indicate the last year in which water usage was last benchmarked:

2017

30. Does the facility purchase **US EPA WaterSense-labeled** devices and equipment?

No

31. Has the facility made any efforts to reuse non-potable water?

- No Answer
- Yes
- No

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

- No Answer
- Yes
- No

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

Our landscaper since 2014 only utilizes drought tolerant and native plants in all areas of the campus with the exception of the front island (which from time to time has extremely colorful plants that are definitely not native).

32.b Include water savings realized from alternative landscaping methods (in gallons):

0

Please list the biggest water-saving projects implemented in 2017 in Table E. A minimum of three projects is suggested if possible.

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)
33. 30 Sensor Sinks ETC	34. Faucets <input type="checkbox"/>	35. 0	36. 0
37. Steris 1327 Cart Wash	38. Sterile processing equipment <input type="checkbox"/>	39.	40.
41. 2 new washers in OR Prep	42. Other <input type="checkbox"/>	43.	44.
45.	46. Select an option... <input type="checkbox"/>	47.	48.

49. <input type="text"/>	50. Select an option... <input type="checkbox"/>	51. <input type="text"/>	52. <input type="text"/>
Total		53. 0	54. 0

Successes

Please describe water reduction projects in Table E immediately above, or share other successful or innovative water projects / programs at your facility in 2017. Please feel free to provide commentary and/or attach a file.

55. Water Reduction Successes : (Please describe)

Other than equipment installations water has been a weakness. In 2018 the operations manager in Plant Operations has taken a water conservation goal. The numbers are being determined by our energy/water consultant Gotham360. Steris 1327 Washer installed in Sterile Processing; Statement from Website: More Green Provides the lowest water consumption per fill of any washer on the market Recycles 70% of water each cycle (excludes instrument cycle) 10 minute cycles allow for low utility consumption

56. Please attach any additional documentation (optional) for Water Reduction Successes:

 [tech data sheet for vision washers.pdf](#) (tech data sheet for vision washers.pdf) (198.48 KB)

57. Please describe any lessons learned from water reduction projects:

Many of our leaks are in aging parts of our campus that were built in the early 1900's. As our facilities team began to dig and get closer to the sources of the leaks we ran into challenges that caused the price of the projects to balloon. From a cost perspective it became difficult to justify continuing to move forward especially considering the construction would disrupt patient care. We maintain an active log of lists where leaks are and have mitigated the ones that we are able to. The cost of water in our region still has not reached near the true cost that we should be paying.

58. Please attach any additional documentation (optional) for lessons learned or water reduction projects:

No file uploaded.