



HACKENSACK UNIVERSITY MEDICAL CENTER — no.1770710

Partner for Change - 2016: Water

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. But 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

1. Please enter the facility's Baseline Year:

2012

Baseline Year is the year the facility began actively tracking energy and utility use or initiated a water conservation program. If you provide this historic data, it is worth additional points—so PGH can get a better sense of the facility's organizational progress over time and assess performance metrics.

2. Please indicate the number of **commercial ice makers** at your facility:

73

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

5622

Water Usage

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**.

Please indicate the facility's **water use in Table A** below. Everyone is required to complete the CURRENT YEAR USAGE column. If 2015 was your baseline year, please enter the water totals in both the current and baseline year question, and leave previous year blank. Do not enter zeros.

Table A. Water Consumption

Table A. Water Consumption	Baseline Year	Units	Previous Year	Units	Current Year	Units

Gross Floor Area	4. 2504408	Square Feet	5. 2504408	Square Feet	6. 2504408	Square Feet
Cleanable Area					7. 2504408	Square Feet
Annual Water Consumption	8. 137781021	9. Water-U.S. Gallons	10. 112361568	11. Water-U.S. Gallons	12. 107398588	13. Water-U.S. Gallons

14. Your total annual water consumption in US gallons for 'Current Year' was:

107398588

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

730453.89

Given the data you provided in Table A, your facility's normalized **water use metrics** are presented below. For comparison, data from the 2015 award winners is presented in parentheses. If your consumption is out of the range presented, please review your **water consumption data and square footage**.

Water Use Metrics

16. Gallons per Square Foot (The 2015 median value was 42.9; values ranged between 5 and 110): 42.88	18. Adjusted Patient Days: 414492 From Facility Profile.	20. Number of Operating Rooms: 34 From Facility Profile.
17. Gallons per Cleanable Square Foot (The 2015 median value was 47.9; values ranged from 10 to 100): 42.88	19. Gallons per Adjusted Patient Day (The 2015 median value was 282, values ranged from 30 to 500): 259.11	21. Million Gallons per Operating Room (The 2015 median value was 2.2 million, values ranged from 0.4 to 5.2): 3.16

22. Gallons per **Operating Room:**

3158782.00

23. Water Use Reduction (% reduction compared to baseline using gallons / square foot):

22.1

%

Irrigated Landscape

Please enter square footage or acreage of **irrigated versus non-irrigated** landscape on the hospital campus in Table B. Please use the SAME units for both entries.

Table B. Irrigated vs Non-Irrigated Landscaping

Landscape Type	Campus Area	Units	% Total
Irrigated Landscape	24. 1	25. acres	26. 80.0
Non-Irrigated Landscape	27. .25	28. acres	29. 20.0
Total Landscape Area	30. 54450.00	Square Feet	100%

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

Yes
 No

31.a If yes, please describe:

At the end of 2013 we met with our landscaping contractor and requested that moving forward he install as many native and drought tolerant plants as he could so that we could reduce the amount of watering. Other than the front island of the hospital...all other areas utilize drought tolerant, native species.

31.b Include **water savings** realized from this effort (in gallons):

0

gallons

Water Conservation and Savings Project Data

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

Yes
 No

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

Yes
 No

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

- Yes
 No

34.a

Name of Firm:

United Water

34.b

Timeframe of Contract:

N/A

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

- Yes
 No

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

No

37.

Does the facility **benchmark water usage**?

- Yes
 No

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

Key Green

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

Gallons per square foot

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

2015

Please list the biggest **water-saving projects** implemented in 2015 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)
38. Vision Washer 1	39. Other	40. 618800	41. 4208.67
42. Vision Washer 2	43. Other	44. 618800	45. 4208.67
46. Cart Wash	47. Other	48.	49.
50. Scrub Ex	51. Laundry	52.	53. 32496.99
54.	55. Select an option...	56.	57.
Total		58. 1237600	59. 40914

Please share any other successful or innovative water projects or programs at your facility in 2015 in the space provided below. Please feel free to provide commentary and/or attach a file.

60. Success 1: Please describe

Operating Plant Based Initiatives Boiler/Steam: Steam Trap, by thoroughly surveying and then repairing/replacing traps that are blowing through; HUMC will see a reduced usage of natural gas and also boiler feed water. Installation of Boiler Economizer: the improvement of efficiency in the production of steam will lower water usage, also boiler feed water.

61. Please attach any additional documentation (optional):

62. Success 2: Please describe

Chiller Plant: The way the chillers operate has a huge impact not only on energy but also on water. The utilivisor training will help to inform staff how their operational decisions affect overall efficiency and cost. This training began in Q4 of 2015 and is continuing through 2016.

63. Please attach any additional documentation (optional):

64. Success 3: Please describe

Our Central Processing Department has recently installed a new cart washer and 2 new vision washers. The new vision washers utilize 28 gallons of water per cycle versus the 96 gallons of water per cycle that were used in the old washers. In the OR's they run an average of 175 cycle times a week. All of our instrument washers have been installed within the past 5 years and replaced washers that were over 25 years old.

65. Please attach any additional documentation (optional):
