



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

Partner for Change - 2018: Green Building

This application is being viewed in read-only mode.

Data imported from previous year application highlighted in yellow.

Introduction

The built environment plays an important role in both the promotion of healing in patients and the health of building occupants. Hospitals understand that a high performance healing environment can make a substantive difference in their ability to provide high quality care as well as their ability to attract and retain outstanding employees. Please highlight your facility's accomplishments and strategies relative to Green Design, Renovation & Construction.

Green Design and Construction

1. Has the facility designed and built any projects (>1000 sq ft) in the last five (5) years?

- No Answer
- Yes
- No

Please highlight green elements in building projects in Table A below. We have populated this table in part from your responses last year however, if a project is now more than 5 years old, please remove it.

1.a If your building is not complete, please briefly describe your project in the space provided but do not fill out Table A.

The design and some of the prep work for our new Patient Pavilion began in 2017. This is a \$714.2 million that will be adding over 500,000 sq ft to our campus. It will include 34 newly renovated ORs, all new ICU rooms for Cardiac, Surgery, Critical Care and Medical Intensive Care Unit. It will also include an orthopedic institute and a rooftop garden.

Table A. Green Building Projects

Project Name:	1.b <input type="text"/>
Type of Project:	1.c Select an option... <input type="button" value="v"/>
Year Completed:	1.d <input type="text"/>
Square Feet:	1.e <input type="text"/>

Certification:	<p>1.f</p> <input type="text" value="Select an option ..."/>
Brief Project Story:	<p>1.g</p> <input type="text"/>
Project Name:	<p>1.h</p> <input type="text" value="Fitness and Wellness Center"/>
Type of Project:	<p>1.i</p> <input type="text" value="New build"/>
Year Completed:	<p>1.j</p> <input type="text" value="2013"/>
Square Feet:	<p>1.k</p> <input type="text" value="112,000"/>
Certification:	<p>1.l</p> <input type="text" value="Designed to LEED but not certified"/>
Brief Project Story:	<p>1.m</p> <p>Brownfield Site Redevelopment HackensackUMC and the New York Giants have been at the forefront of community health for more than a decade, leading their industries by creating alliances and programs to help keep their communities healthy. That effort now takes on a new dimension with the opening of HackensackUMC Fitness & Wellness Powered by the GIANTS. This new, state-of-the-art facility, brings together the combined expertise and trusted brands of HackensackUMC and the Giants to help patients and fans get fit and stay well. The 75,000-square-foot of fitness space opened December 30, 2013, and features an expansive fitness floor with state-of-the-art cardio and strength training equipment, three salt-water filtered pools, a large variety of group fitness classes, spacious group exercise studios with robust programming for people of all ages and fitness levels, a sports performance center featuring athletic workouts (some of which will be coordinated with the assistance of the New York Giants trainers), Pilates Reformer studio, BEYOND Day Spa, complimentary child care and Sal's Good Eats, a healthy café. The center also houses the Debra Simon Center for Integrative Medicine, a comprehensive wellness pavilion. The pavilion houses a myriad of health and wellness services, including physical therapy, the MOLLY Diabetes Education/Management Center for Adults and Children, nutritional counseling, a demonstration cooking studio, behavioral health services, a corporate health center, a women's health center offering mammography and bone density screenings, as well as pain management, acupuncture and chiropractic care.</p>
Project Name:	<p>1.n</p> <input type="text" value="Emergency Trauma Department Expansion"/>
Type of Project:	<p>1.o</p> <input type="text" value="Major renovation"/>
Year Completed:	<p>1.p</p> <input type="text" value="2015"/>
Square Feet:	<p>1.q</p> <input type="text" value="20,000"/>
Certification:	<p>1.r</p> <input type="text" value="Designed to LEED but not certified"/>
Brief Project Story:	<p>1.s</p>

To provide excellent quality care we had to renovate and expand our Emergency Department. Our old emergency department was outdated and unable to handle the volume of patients we were caring for.

1.t If responses were imported from a previous year application, have you verified that the projects in the table above were completed within the last five (5) years?

- No Answer
- Yes
- No

****Unfortunately PGH can only give credit for completed projects****

2. If the facility has completed more than three LEED projects in the last 5 years, please attach a file describing additional projects here or list in the successes section below.

No file uploaded.

Infrastructure for Green Design & Construction

3. Has the organization integrated any green/sustainable aspects into **Master Specifications** for all new buildings/renovations?

Yes

3.a Please explain which sustainable elements have been incorporated and where (department, project, etc):

PVC Free Hand Rails - Campus Wide (All new construction since 2007) Formaldehyde Free Insulation - Campus Wide (All new construction since 2007) All Green Cleaning - Campus Wide (All new construction since 2007) Zero-VOC Paints (All new construction since 2007) All Furnishings must meet Healthier Hospitals Healthy Interiors 2.0 (Since 2016)

3.b Please attach documentation for green attributes in Master Specifications:

 [FACILITY MASTERPLAN Clarification 1.pdf](#) (FACILITY MASTERPLAN Clarification 1.pdf) (109.21 KB)

4. Has the organization implemented a **facility policy or commitment** to design and construct all new buildings and/or major renovations to **LEED** (or another green building) design standard?

- No Answer
- Yes
- No

4.a Please indicate which design standard:

LEED Gold

4.b Please attach policy or commitment language related to LEED or other design standard.

 [FACILITY MASTERPLAN Clarification 1.pdf](#) (FACILITY MASTERPLAN Clarification 1.pdf) (109.21 KB)

5.

is the organization required to build to a certain minimum LEED standard (certifiable) due to municipal, state, region or federal legislative requirements?

- No Answer
- Yes
- No

6.

Does the organization require its designers, builders and contractors to have experience with LEED or other green building rating systems?

Yes

7.

Does the facility use an integrated design process for all new building and major renovation projects?

- No Answer
- Yes
- No

Integrated project delivery (IPD), is a collaborative alliance of people, systems, business structures and practices into a process that harnesses the talents and insights of all participants to optimize project results, increase value to the owner, reduce waste, and maximize efficiency through all phases of design.

8.

Has the organization added language to contract specifications that building contractors will follow LEED or GGHC requirements and provide documentation?

Yes

8.a

Please explain building contract specifications relating to LEED or GGHC requirements for contractors:

All contracts that are going out for the new patient pavilion specifically state that the project is committed to achieving LEED gold. It also states this in the RFP when proposals are going out.

9.

Does your facility track loss days/productivity within green buildings?

- No Answer
- Yes
- No

Innovative Green Building Elements

10.

Does the facility educate occupants on the benefits of its green building elements?

- No Answer
- Yes
- No

10.a

Please describe how the facility has educated occupants on the benefits of green building elements:

Throughout our Women and Children's hospital there are cutouts in the wall with information on the sustainable attributes of the building (PVC-Free Hand-Rails, Cotton Denim Jean Insulation, Interface Carpet Tiles, Nora Rubber Flooring). At new hire orientation we stress the health benefits of green building and our commitment to future construction building. When we converted

back to 3rd party certified floor cleaning products in the Women and Children's hospital we sent communication out to the nurse managers explaining the switch (which was advocated for by them). In all sustainability updates to the campus we stress the link between the environment and health.

11. Has the facility installed any garden and green spaces for patients, visitors and staff?

- No Answer
- Yes
- No

11.a Please indicate all types of green spaces that have been installed:

- Green or living roof
- Green or living wall
- Healing garden
- Food producing garden
- Flower garden
- Other

11.b Please attach description and a drawing, schematic or image of this green space.

 [HackensackUMC Healing Gardens \(2\).zip](#) (1.36 MB)

11.c Please describe the facility's green spaces.

We have green spaces throughout our campus all providing different purposes. Our most recent addition to our women and children's hospital was adding our beehives to the green roof that is located on the 4th floor separating mother baby east from west. Our Cancer Center garden grows herbs and spices and vegetables that are being used in the cooking studio located on the first floor. We have a new Executive Chef that is looking to increase the amount of food being grown. We are also looking at sprucing up current gardens and encouraging nurses to utilize these during their breaks to decrease burnout.

12.

Has the facility consciously selected flooring, wall coverings, paints, materials, finishes, furniture or exterior materials that avoid **chemicals of concern**?

Yes

Please complete Table B.

Table B. Avoiding Chemicals of Concern

Product Category	Chemicals Avoided	Included in Specifications?	Other Details
12.a Paints <input type="checkbox"/>	12.b Zero VOC	12.c Yes <input type="checkbox"/>	12.d We removed the Sherwin Williams Antimicrobial paint from our catalogue. Although it was not purchased, we do not want to even give people that option.
12.e Wall coverings <input type="checkbox"/>	12.f PVC, Formaldehyde	12.g Yes <input type="checkbox"/>	12.h
12.i	12.j	12.k	12.l

Furniture <input type="checkbox"/>	PVC, Formaldehyde, PFC's, Flame Retardants and Antimicrobials	Yes <input type="checkbox"/>	We were able to spread our standards throughout the Hackensack Meridian Health System
12.m Exterior materials <input type="checkbox"/>	12.n PVC, Formaldehyde, PFC's, Flame Retardants and Antimicrobials	12.o Yes <input type="checkbox"/>	12.p Expanded our healthy interior standards to any fabrics being selected throughout the medical center.
12.g Materials <input type="checkbox"/>	12.r PVC, Formaldehyde, PFC's, Flame Retardants and Antimicrobials	12.s Yes <input type="checkbox"/>	12.t Cubicle Curtains

13. Has the facility implemented a building and renovation strategy that **maximizes daylighting** for patients, employees, visitors?
 No Answer
 Yes
 No

13.a Please describe building strategy to maximize daylighting:

All patient rooms have windows. The John Theurer Cancer Center has large windows in all of the waiting areas with gardens that can be viewed throughout. On the fourth floor there is a garden in the middle of the nursing unit which has landscaping and direct sunlight. On the ground floor of our cancer center outside of our radiation department are gardens for the patients that are receiving radiation.

14. Has the facility installed energy systems that exceed ANSI/ASHRAE/IESNA Standard 90.1-2013?
 No Answer
 Yes
 No

15. Has the facility installed water saving measures that will substantially reduce potable water use or reuse non-potable water?
 No Answer
 Yes
 No

16. Has the facility integrated design elements that will **reduce or reuse process water**?
 No Answer
 Yes
 No

17. What innovation credits did the team pursue if using the LEED rating system? (Up to four from LEED checklists)

Sustainable Purchasing Policy Green Cleaning Program/Policy Sustainable Sourcing of Raw Materials Low Emitting Materials

18. Has the facility instituted other innovative green design and construction **elements**?

- No Answer
- Yes
- No

Construction & Demolition Debris

19. Does the facility recycle Construction & Demolition debris (C&D)?

- No Answer
- Yes
- No

Please enter your Construction and Demolition Debris data in the Table C below (Please do NOT include in Appendix A)

Table C. Construction & Demolition Debris

Construction & Demolition Debris	TONS per Year Current	Annual Costs Current	% of Total Tonnage
Disposed as Solid Waste	19.a 6.3	19.b 0	19.c 39.6
Recycled (segregated on site or offsite)	19.d 9.6	19.e 0	19.f 60.4
Total	19.g 15.90	19.h 0	100%

19.i According to the data in Table C, has the organization achieved a minimum of 80% recycling rate for C&D waste from renovations and new construction?

- No Answer
- Yes
- No

20. Is your facility participating in the Construction & Demolition Debris Recycling Goal of the Less Waste Challenge of the Healthier Hospitals program?

- No Answer
- Yes
- No

20.a Please describe any progress toward the Healthier Hospitals Construction & Demolition Debris Recycling Goal:

There was no major construction or renovations in 2017 due to the preparation for our major construction beginning in 2018. During our renovation projects in 2017 we were able to salvage a number of the building materials and redeploy elsewhere. This brought down our recycling rate; because we were able to reuse the materials. The equipment was sold through Centurion and also diverted from landfill.


Successes

Please describe any other successes or innovations in the green building program or projects at your facility in the space provided below such as a walking program, integration of public art, circadian lighting or biophilic designs. Please feel free to provide commentary and/or attach a file.

21. Green Building Success 1: Please describe

Our new Patient Pavilion tower is currently slotted to get 67 points achieving LEED gold. This project has been a battle going from LEED gold in the beginning, to no longer going LEED, to LEED silver and now back to LEED gold. I have attached the most recent point scale that was updated December of 2017. The construction meetings for this project began in the Summer of 2017. During this process our approach has been focused primarily on the Executive Team. The goal has been to change the conversation from 'how much more is LEED Gold going to cost' to 'we are going for LEED gold and its up to our team to figure out how to get it done'. We believe that when setting LEED gold as the goal, we have a talented enough team to figure it out. Attached is the most recent LEED matrix as of December 2017.

22. Please attach any additional documentation (optional) for Green Building Success 1:

 [HUMC - LEED Tracking Matrix_2017 1213 \(1\).pdf](#) (HUMC - LEED Tracking Matrix_2017 1213 (1).pdf) (181.96 KB)

23. Green Building Success 2: Please describe

In 2017 we began to work with the Healthy Building Network on our Healthy Flooring standards. To date we have not come up with a final list of acceptable floors but we have been meeting with multiple companies. After doing an initial review of documentation that the suppliers give us, we then connect with HBN for their input. At that point if there are questions that they have been unable to find out through their dialogues with the companies we ask it. For example...when working with Forbo flooring, HBN has been trying to find out if the coating was bpa based. We were able to find out that it is 'double layer crosslinked UV cured acrylic'. We have been requesting deeper levels of information than we have ever done before. Through this our entire design and construction team has been educated on why we are pushing for such transparency.

24. Please attach any additional documentation (optional) for Green Building Success 2:

No file uploaded.
