



Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

The Johns Hopkins Hospital



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http://sustainability.jhu.edu/campuses_and_contacts/johns_hopkins_hospital/

Hospital

Member since November 2015

Management and Leadership

Environmental Team

The Johns Hopkins Hospital Green Team has representatives from numerous departments and offices within the hospital to stay up to date on all sustainability initiatives. As a team, we coordinate guest speakers to provide a new and exciting twist on sustainability; such as beekeepers, furniture recycling, tours of our kitchen bio-digester, and an environmental-based grant organization. We average about 20 attendees in person, with a large list serve whom receive our monthly Sustainability Newsletters. We post information on our Johns Hopkins Green Team Facebook to promote Farmers Market, guest speakers, upcoming meetings and events.

This past year, we promoted a 'Green Office Certification Program.' This program continues the grassroots efforts of strengthen sustainability into our employees everyday actions; it's an online survey for any and all nursing units and offices. This program promotes recycling is implemented throughout the office, sharing our internal Sustainability Newsletter with co-workers, partaking in the Farmers Market, and purchasing recycled content office supplies. We've certified over 15 offices so far in 2015!

The hospital also has a Greening the OR team with, nurses, anesthesiologists, surgical purchasing, and techs that focus on sustainability programs specific to the ORs. Additionally, the Johns Hopkins Health System Executive Sustainability Leadership Council comprised of representatives from each hospital in the JHHS that are responsible for embedding sustainability into decision making, planning, and actions of individuals within the institution. The hospital

also participates with the Johns Hopkins Sustainability Network that was created by the Johns Hopkins University.

Waste

Solid Waste Reduction and Reuse

JHH implemented a pilot project in 2014 that used vaporized hydrogen peroxide technology to successfully bio-decontaminate over \$90,000.00 worth of supplies from isolation patient rooms. Previously, supplies from these isolation rooms, when unopened, were discarded after patient discharge. As a result of this project, the JHH materials management team captured and returned to inventory and circulation over 4,000 pounds of materials otherwise destined for the landfill.

Recycling

This past year, we recycled over 2,700,000 pounds of material! We continue to increase recycling from less than 2% in 2011 to over 18% in 2014. We are excited by our progress thus far and continue to identify areas of opportunity that will reduce our negative environmental impacts such as implementing the collection of additional waste streams (see below). Through consistent education, such as presenting at New Employee Orientation, in-services throughout our nursing units, ORs, pathology labs, kitchens, and offices we strive to spread the word to our employees so they know what items are recyclable throughout Johns Hopkins Hospital.

The following 18 waste streams listed include our recycling streams and/or waste diversion streams in an effort to continue to reduce the total waste sent to the landfill.

- *Single-Stream Recycling*
- *Confidential & Non-Confidential Paper*
- *Cooking Oil*
- *Medical Equipment*
- *Medical Supplies*
- *Office Furniture*
- *Reprocessed Medical Devices*
- *Wood Pallets*
- *Eye Glasses*
- *Batteries*
- *Light Bulbs*
- *X-Rays*

- *Paint*
- *Cell Phones*
- *Writing Utensils*
- *Printer Toners & Cartridges*
- *Re-usable Sharps Containers*
- *Scrap Metal*

Energy

Energy Efficiency

A recent focus has been retrofitting our lighting to LEDs in elevator lobbies, patient care areas, and our ORs. We have also been integrating cogeneration technology to help improve overall energy efficiency. Over the past two years we estimate a reduction of 500,993,572 kBtus, for an estimated savings of \$5,685,635.00!

Our cogeneration turbines became fully operational in 2013 with an estimated 500,000,000 kBtus saved. The OR LED lighting project converted five-hundred 100w fixtures to 12.5w LED lights. We have LED lights in 33 of our ORs allowing us to save an estimated \$64,847.00 each year. Furthermore, we have cut back the ac/hr. in the ORs over the past several years. Of the 65 ORs, 56 of them have had airflows cut back until they were closer to the recommended ac/hr.

Water

Stormwater Management and Site Design

We have 65,000 square feet of green roofing to decrease storm-water runoff (see picture as last photo here). Additionally, we have implemented storm water retention and conditioning, sustainable landscape with indigenous plants that do not require irrigation, where irrigation is needed we try to use drip irrigation when possible for plants that need a water source, and lastly we have a high percentage of pervious areas in the renovation of our Nelson Harvey Building in 2014 (equivalent to LEED Silver standards).

Other

- We continue to lead the way in terms of sustainability both locally and nationally. Most recently, The Johns Hopkins Hospital was named one 2015's "50 Greenest Hospitals in America" by Becker's Hospital Review.*

We have also been honored for outstanding performance in health care sustainability in the area of 'Greening the OR' by Practice Greenhealth, the nation's leading health care community that empowers its members to increase their efficiencies and environmental stewardship while improving patient safety and care through tools, best practices and knowledge. In addition, we have won two consecutive Emerald Awards, a very competitive award that recognizes health care facilities that have achieved improvements in their mercury elimination, waste reduction, and recycling and source reduction programs.

Lastly this past year, we were awarded a Maryland Hospitals for a Healthier Environment 'Trailblazer Award' for our pilot project that captured and returned to inventory over 4,000 pounds and \$90,000 worth of materials otherwise destined for the landfill.



Help build a greener, more sustainable Maryland through voluntary practices that reduce environmental impacts and save money.

Learn more at www.green.maryland.gov/registry

