



**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.

Anne Arundel Medical Center

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www.askaamc.org

Non-profit, community hospital
Member since October 2011

Management and Leadership



Environmental Team

In June of 2007, Anne Arundel Medical Center (AAMC) formally launched its green team, the Environmental Action Relates To Health (E.A.R.T.H.) Advisors. This VP sponsored, multi-disciplinary team meets once a month, on a set date. The E.A.R.T.H. Advisors are dedicated to 3 primary principles:

- 1. Protecting the health of our building occupants.*
- 2. Protecting the health of our local environment.*
- 3. Protecting the health of our global community.*



Environmental Preferable Procurement

In 2004, AAMC converted 85% of the cleaning chemicals to Green Seal™ certified cleaners. In 2007, AAMC reduced the use of mercury containing instruments to near zero. We also have a restriction on paints and adhesives with high VOC (volatile organic compound) levels and we have successfully transitioned to micro fiber mops house wide which clean more effectively and require fewer cleaning products. In 2012, AAMC converted to formaldehyde free infant bath wash and more DEHP free tubing.

Waste

Solid Waste Reduction and Reuse

Historically, AAMC collects and disposes 3,200,000 pounds of trash annually. In 2010, AAMC accepted a charter designated to reduce waste improve air quality by decreasing the volume of waste sent to the incinerator while saving financial resources that can be used for quality patient care initiatives. It includes the following key programs:

1. *Remanufacturing & Reprocessing program*
2. *Reusable sharps containers*
3. *Waste segregation and recycling (described under Recycling)*

Remanufacturing & Reprocessing:

In January 2011, AAMC partnered with an FDA approved, 3rd party vendor to begin a remanufacturing and reprocessing program. Many items approved by the FDA for multiple use, but packaged by the manufacturer as “single use” are now collected. Over a third of our cost savings is in the collection and reprocessing of pulse oximeter probes! This program has reduced our waste, minimizing our environmental impact, while saving significant financial resources.

In 2012,

- *AAMC saved \$601,431 in reduced expenses*
- *AAMC has diverted 14,003 lbs from the landfill and/or harmful incineration.*

Reusable Sharps Containers:

Historically, AAMC annually sent over 35,000 pounds of plastic to the incinerator from our single use sharps containers. In March 2011, AAMC implemented a reusable sharps program. These reusable containers can be reused over 500 times, greatly reducing the amount of plastics being sent to the incinerator, and the air emissions, including dioxin, which are released when plastic is burned.

Recycling

In June 2011, AAMC implemented a waste segregation and recycling program.

Reports for 2012 consistently show:

- *Regulated Medical Waste has decreased from 50% of our waste in early 2011 to only 16.8%.*

- *Municipal Solid Waste has increased from 50% to 60% of our total waste.*
- *AAMC recycles over 24% of our waste, including blue wrap in the operating rooms!*

Hazardous Waste/Toxic Use Reduction

AAMC has a long history of recycling toxins, including alkaline and UPS (uninterruptible power supply) batteries and fluorescent lamps due to their mercury content. Annually, AAMC recycles about 2,100 lbs of alkaline batteries and 7,000 lbs of UPS batteries.

Through the use of battery testers, AAMC was able to provide a "Battery Give Away" in the month of December. Many alkaline batteries are switched out every 8 hours, per regulations and still have over 80% of juice them.

Energy

Energy Efficiency

AAMC has a long history of dedication to energy conservation. In 2001, AAMC installed exterior windows with a high glass glaze and high efficiency fluorescent light fixtures. These programs alone are estimated to reduce energy use by 14%.

The new Hospital South Tower is estimated to achieve an 18-20% reduction in energy consumption when compared to standard basic designs. The HVAC system includes high efficiency chillers and chiller plant controls. A high-efficiency dehumidification system (Cool Dry Quiet) was installed in the eight new operating rooms to ensure stringent conditions are met while minimizing energy use. The concrete used for the multi-level parking garage has a solar reflectance index (SRI) rating of 44, greater than the SRI 29 rating required by LEED and the roof surface is composed of a 16,700 square foot vegetative roof, as well as a heat-reflective, energy efficient roofing thermoplastic polyolefin (TPO) roofing system with an SRI of 78.

Water

Water Conservation

The new Hospital South tower was designed and built to achieve 33% increased water conservation than the baseline-calculated building. This will be achieved by incorporating low flow plumbing fixtures into all showers, toilets, faucets, and sinks ensuring water efficiency.

Stormwater Management and Site Design

Step ponds have been designed to treat storm water runoff and remove pollutants before they reach the Cowhide Branch; a stream alongside AAMC's campus that eventually leads to the Chesapeake Bay.

Our 16,700 square-foot green roof also offers hydrological benefits, including minimizing water runoff and filtering dust particles from the atmosphere before reentering the Chesapeake watershed. Eight nurseries provided over 24,000 plantings for the Anne Arundel campus and approximately 80% of the planting was grown within the local region.

To meet the parking needs of our growing campus, garages were constructed instead of flat, open parking lots, saving an additional 1.4 million square feet or 40 football fields of impervious surface.

Green Building

LEED Gold

AAMC is the first Maryland hospital to have a LEED certified acute care pavilion. AAMC completed a major expansion in April 2011 including new emergency rooms, eight operating rooms and multiple levels of in-patient care units. See more information about the environmental features of this expansion at <http://www.aahs.org/expansion/leed.php#home1>

Other

Maryland Hospitals for a Healthy Environment (MD H2E) 2010 Trailblazer Award for LEED design and construction.

Maryland Hospitals for a Healthy Environment (MD H2E) 2011 Trailblazer Award for Greening the Surgical Services.

United States Green Building Council of Maryland (USGBCMD) 2010 Wintergreen Award for New Construction

Profile Updated May 2013



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

