

Maryland Hospitals for a Healthy Environment Monthly News Roundup

June • 2014



MD Healthcare Sustainability Leadership Meeting

JUNE 18TH

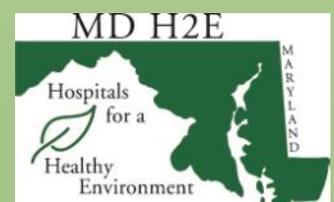
8 AM – 10 AM

MARYLAND HOSPITAL ASSOCIATION

RSVP to [Barb Colleran](#)

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www.mdh2e.org

MD H2E announces winners of the 2013 Trailblazer Awards

Congratulations to [GBMC](#), [Medstar Franklin Square Hospital](#), [University of Maryland Medical Center](#) and [Upper Chesapeake Medical Center](#) for winning the 2013 Trailblazer awards. Read on for write-ups on the great sustainability programs these hospitals implemented last year.



From L-R: Gene Corrado, Don Allik (Upper Chesapeake), Jeff Rivest (UMMC), Larry Strassner, Juan DeJesus (Franklin Sq.), John Chesare (GBMC), Joan Plisko (MD H2E), Jeff Pargament (MHA)

Congratulations to Maryland's Practice Greenhealth award winners!

Top 25 Award

Bon Secours Hospital System—
Baltimore

Emerald Partner for Change

Johns Hopkins Hospital
Levindale Hebrew Geriatric Center and
Hospital
Sinai Hospital of Baltimore
University of Maryland Medical Center
Greater Baltimore Medical Center

Champion for Change

Maryland Hospitals for a Healthy
Environment

Greening the OR

University of Maryland Medical Center

Greenhealth Partner for Change

MedStar Franklin Square Medical
Center
MedStar Good Samaritan Hospital
MedStar Harbor Hospital
MedStar Montgomery Medical Center
MedStar Union Memorial Hospital
Northwest Hospital
Kaiser Foundation Health Plan of the
Mid-Atlantic States

Mercury Free Award

MedStar Union Memorial Hospital

MD H2E and Maryland Hospitals chosen as Environmental Leaders

[Environmental Leader](#) included MD H2E as one of 104 industry experts sharing valuable information regarding environmental, energy and sustainability programs. The website offers online green business and corporate sustainability news, and recently published the fourth edition of its [Insider Knowledge Report](#). To read more about the report, or download it from the EL website, click [HERE](#). MD H2E can be found on page 25.

University of Maryland Upper Chesapeake Medical Center: Combined Heat and Power

University of Maryland Upper Chesapeake Medical Center (UMC) is constructing a 2 MW Combined Heat and Power (CHP) system that will provide electric power, heating, and cooling to their Bel Air campus—all with no upfront costs to the hospital. UMC partnered with Baltimore Gas and Electric (BGE), Clark Financial Services Group, TMR Engineering, and Clark Construction Group to for this new system which increases efficiency, provides electricity for UMC's base load, and supplies a thermal base load for both steam and chilled water, making it significantly more efficient than the conventional method of electricity generation. The system will also provide backup power to ensure operations during an emergency or natural disaster.

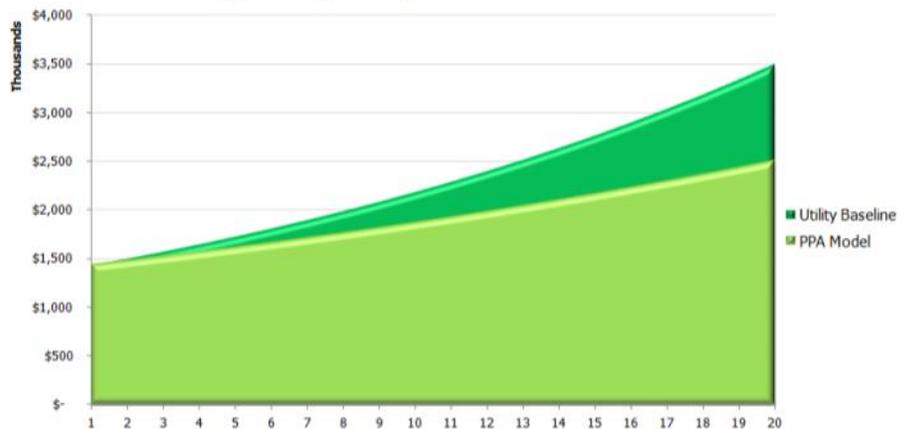
UMC is the first hospital Maryland to qualify for the [BGE EmPower Maryland Incentive](#), receiving close to **\$2 million** for the system's construction.

UMC chose the CHP system because of its ability to provide cleaner more efficient primary power as well as serve as a significant backup power source during a prolonged grid outage. The existing diesel generators at the hospital only serve the critical care loads but the new system will power more than 60% of the hospital's electrical load. In light of recent natural disasters, such as Superstorm Sandy, UMC leadership determined that additional sources of backup power were a top priority to ensure the hospital could operate during an emergency.

UMC will realize significant environmental benefits from this system, expecting to reduce its CO₂ emissions (by more than 40 percent) and its NO_x emissions. Implementing this system is the equivalent of permanently removing over 2,200 cars from our highways.

The UMC CHP plant will consume significantly less water than typical power generation facilities. This system will generate over **13 million kWh** of power on-site. By utilizing the heat generated from the system, the hospital will save nearly 1 million kWh through the new absorption chiller. In addition, steam/hot water savings will total over **27,000 MMBtu** in natural gas savings.

Energy Savings Projections – 20 Year Analysis



Projected savings with the Power Purchase Agreement



Natural Gas Fed Generator Set—2 MW

The project addressed several key healthcare-related concerns that are applicable to other hospitals, such as the need to separate critical care loads from other power needs. UMC is projected to save over **\$9 million** over the system's expected service life relative to purchasing this power off the electric grid. Through the third-party financing, design, construction, operations and maintenance of the project, UMC is blazing a trail for other hospitals to take advantage of this unique business model.

Contact [Don Allik](#), Facilities Manager at UMC, for more information.