

ENERGY UPDATE

SPRING 2014

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Message from Kristin Barbato - Deputy Commissioner



DCAS Energy Management is off to a great start for 2014. Already this year, we have made terrific strides in several program areas focusing on innovation, maximizing our cost-saving investments, improving infrastructure and empowering agencies to reduce their energy usage and build a greener and greater city. We rolled out several new programs including Innovative Demonstrations for Energy Adaptability (IDEA) to enable new energy products and services to be demonstrated in City facilities. This program will help agencies' operations and promote faster growth of the technologies in the New York City market. In addition to IDEA, we rolled out another successful round of the Accelerated Conservation and Efficiency Program (ACE). For our second round of ACE we

allocated almost \$40M in projects that will save \$5.56M in energy usage costs and 15,543MT in CO₂e. We are so grateful to our Agency partners who work with us on all our programs and we look forward to continued success for this year! We are also thrilled to welcome our new agency Commissioner, Stacey Cumberbatch, to the DCAS family. Commissioner Cumberbatch brings vast experience in City government, sharp business acumen, and enthusiasm for our ambitious energy programs and projects.

1 Centre Street LED Lighting Upgrade

As part of the City's plan to reduce greenhouse gas emissions 30% by 2017, DCAS is implementing an exterior LED lighting upgrade at 1 Centre Street. LED lighting fixtures are being installed in the illuminating tower and in the main archway. The lighting upgrade for 1 Centre Street involves the replacement of 150 watt Metal Halide fixtures in the illuminating tower of the building and the archway with 58 watt LED high-efficiency fixtures. This work is being funded by DCAS Energy Management's Expenses for Conservation and Efficiency Leadership (ExCEL) program. The lighting upgrade will result in the efficient use of energy and it will reduce the City's costs by lowering the building's energy consumption. The initiative is expected to yield a savings of 3687 kWh of electricity and over a metric ton of greenhouse gas emissions annually. For more information about the strategies to reduce the greenhouse gas emissions in government operations, visit www.nyc.gov/energy-conservation.



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QUICK FACTS!

Energy Management Institute (EMI)

- * Over 2200 City employees participated in energy courses
- * DEM has invested \$4.5 million in energy education
- * Over 50 courses were offered to City employees

Equipment Lending Library

Equipment is available for loan to facilities personnel through CUNY. Info: <http://www.cunybpl.org/resources/technology-lending-library-a-public-resource/>



NYPD Cryogel Ice Storage Cooling System

As part of an energy retrofit project at the NYPD's Applicant Processing Division on 4th Avenue in Brooklyn, a highly innovative Cryogel Ice Storage Cooling System was installed to improve the building's Cooling Plant operations and supplement the existing chiller system. The Cryogel Ice storage system allows for ice making capabilities during off-peak operating hours. During the day when electrical costs are the highest, the system uses the cooling energy stored in the ice storage to handle the load, saving electrical energy in not having to supply the cooling needs through the operation of a chiller. **Energy cost savings of \$51,208 per year** are expected as a result. The removal of the existing 230-ton, gas-fired absorption chiller will completely eliminate the facility's reliance on natural gas for cooling. The new 90-ton electric chiller and a supplemental 300-ton-hr ice storage tank will have the capacity to provide cooling for the entire facility. With the new equipment in place, the NYPD Applicant Processing Division facility will be able to enjoy reliable cooling at significantly reduced costs.



Demand Response Update

Enrollment in DCAS Energy Management's Demand Response program is moving forward at full speed! Congratulations to DEP, DCAS, HHC and DSNY for participating in the summer 2013 capability period. Winter 2013/14 enrollment has topped 9.1 MW across all City Agencies. Summer 2014 enrollment is ongoing and **is expected to exceed 35 MW in the first full summer of the program, almost doubling peak committed capacity** of previous years. Demand Response programs offer many benefits. During times of peak electricity demand or during an emergency, buildings participating in Demand Response programs are paid to shed electric load in order to reduce the strain on New York City's electricity grid. Facilities meet the required reduction in electric demand by turning off discretionary equipment and lighting, raising space temperatures, or running back-up generators. In return, customers are paid for each kilowatt reduced. As a participant in demand response programs, the City is helping to prevent brownouts and blackouts, generating revenue, and ensuring continued health, safety, and comfort for all New Yorkers. In 2013 DEM contracted with NuEnergy to administer the program. To find out more, please contact Sergey Shabalina at (212) 669-8715 or sshabalin@dcas.nyc.gov.

