



Energy Updates

December 2010

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Heat, Light, Power Budget information needed

It's that time of year again when we need your help to plan ahead for the Heat, Light, and Power budget for fiscal year 2012. The required forms will be e-mailed to you in late December and will be available online at nyc.gov/energy-conservation. **ELOs, please work with your agency energy teams to complete and return the necessary forms by January 31, 2011.** DEM needs this information in a timely manner to provide agency energy budgets to OMB.

If you have questions, please contact Stuart Barth (sbarth@dcas.nyc.gov; 212 669-8722).

Steam management tips from ConEd

If your agency has facilities in Manhattan that use Con Edison steam heat, please download and distribute to building operators the Steam Management Tips available on the DEM website: nyc.gov/energy-conservation. Proper maintenance and operation of your facility's steam system can help the City reduce steam consumption this winter and save the City money.

Congratulations to Peak Load Management top performers

DCAS DEM extends congratulations to both the Department of Corrections (DOC) and the Department of Education (DOE) for winning Peak Load Management (PLM) awards. At its annual PLM Awards Luncheon in November, the New York Power Authority (NYPA) recognized DOE's Fiorello H. LaGuardia High School in Manhattan and DOC's Rikers Island as best performers among private and public organizations in reducing their peak loads during called events. During one of the hottest summers on record, the 65 City facilities participating in demand response programs curtailed electric consumption by 12 MW on peak load days. Reductions at Rikers Island alone accounted for 5.2 MW, and DOC received a payment of \$100,000 for their performance. Pictured below are the winning energy teams from DOC (left) and DOE (right).



Spotlight On: Comprehensive energy upgrades at 44 Beaver Street

DCAS DEM and the Department of Sanitation (DSNY) are working together to complete a comprehensive energy efficiency upgrade of a DSNY office building at 44 Beaver Street in Lower Manhattan. The 12-story building was built in 1920.



DSNY is upgrading the existing HVAC system, while DCAS DEM, through its contract with the New York Power Authority (NYPA), is retrofitting the lighting system and installing sensors. Together, the two projects are expected to reduce energy use and costs by approximately 430,000 kWh and \$66,000 annually, at a total project cost of \$2.3 million.

The HVAC upgrade will replace the existing constant volume air conditioning units and bypass air boxes with new AC units on each floor. The supply blowers and return fans on the new AC units will have variable frequency drives, and the temperature in each zone will be controlled by variable air volume (VAV) boxes. The new equipment will enable the system to adjust the amount of air delivered to each zone based on occupancy. The new system also will have an air site economizer that senses the temperature and humidity of outside air and distributes fresh, unconditioned air throughout the building when possible, which together with the other equipment will reduce overall energy

consumption and the building's energy bill. The upgrade will also replace existing pneumatic controls with electronic controls.

DCAS DEM and NYPA are replacing all existing lighting in the building with energy efficient lighting and will install occupancy sensors.

Both projects are now under construction and are expected to be complete by September 2011.