

Accelerated Energy Program Newsletter

August - September 2014



PROGRAM UPDATES:

AEP Progress (through August 2014):

Underway: 436 sites

Completed: 174 sites

Remaining: 90 sites

DCAMM has launched the *Clean Energy Innovative Technology Vendor Intake Portal*, which allows emerging technology companies to highlight their innovative products and services. The simple web-based entry form feeds a database for state agencies to access the latest in energy saving goods and technologies. For more information, visit:

www.mass.gov/energy/techintake

Gardner projects lead state's energy efforts by example



Bill Isaksen (L) of National Grid presents AEP Deputy Director Jenna Ide (R) with the ceremonial rebate check for the Gardner District Court energy project.



Representatives from DCAMM and Constellation presented DOC and NCCI officials with the AEP Certified Plus certificate for the completed energy project at the facility.

State and local officials gathered in Gardner on September 17th to celebrate the successes of recently completed AEP projects at the Gardner District Court and North Central Correctional Institution (NCCI).

Renovations at the courthouse included weatherization, new energy management systems, and lighting upgrades. The \$98,000 project is **expected to save 23% in annual energy costs, over \$9,000 per year!**

In addition to saving energy and money, the project is also improving occupant health and comfort. Gardner District Court Judge Arthur Haley noted that his allergies no longer bother him now that the HVAC improvements have been made.

The energy project at NCCI included the elimination of 690,000 gallons of #6 fuel oil by converting the prison's boilers to natural gas.

The work at NCCI also included the installation of two wind turbines, which are expected to pay for themselves in seven years. The turbines are producing more electricity than the prison needs, according to Jeffrey Quick, Director of the Division of Resource Management for the Department of Correction.

The energy generated by the turbines and additional upgrades are saving the prison \$2.4 million each year! The 80% reduction in annual energy costs, 97% reduction in oil use, and 50% reduction in energy usage earned the site AEP Certified Plus designation.

Gardner Mayor Mark Hawke echoed the overall message of the day, stating that these projects and the AEP are "saving a lot of money and creating jobs." These projects are a small sample of the state's commitment to reducing greenhouse gases and making the Commonwealth more energy efficient.

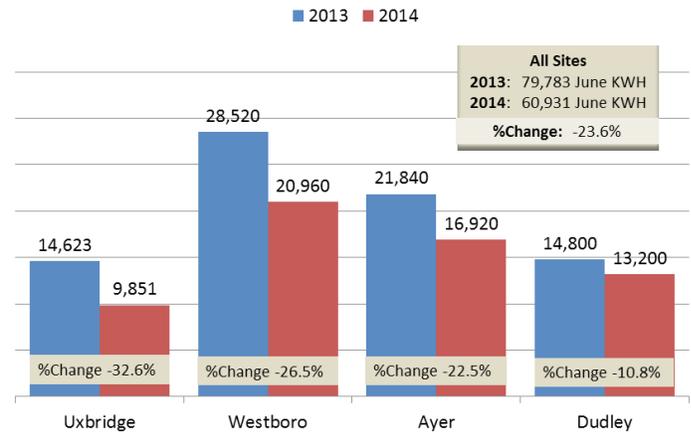
Courts projects show significant savings under the AEP

At the August AEP Leadership Steering Committee meeting, Massachusetts Trial Courts Director of Facilities John Bello lauded the AEP for generating his facilities significant electricity and cost savings.

Data provided by Trial Courts Facilities Management shows that the electricity usage across four completed court sites in the AEP has been reduced by nearly 24% from 2013 to 2014.

In addition to lighting savings, AEP projects at court facilities will save about \$1.2 million in energy costs annually! The amount of energy saved through these projects will be enough to power 1,300 Massachusetts homes and equivalent to taking 612 cars off the road!

Accelerated Energy Projects (AEP)



Graph showing the change in electricity usage (kWh) from 2013 to 2014 at selected AEP courts sites.

State's first Burner Booster installation proves technology's worth

Earlier this year, the AEP Innovative Technology Working Group was tasked with investigating new ways to create energy savings and reducing greenhouse gas emissions. A pilot installation of a new oil burning technology is proving to be worthy of future investment.

The Burner Booster™ is an innovative approach that allows the heating system to create the same amount of heat while using less oil and reducing harmful emissions. The system turns the typical spray of oil droplets into a fine mist, which allows for cleaner combustion of fuel. The system requires about 15%-25% less oil than traditional burners.

The 98-year-old Concord Armory is the first AEP facility to implement the innovative technology. As part of \$45,000 of upgrades at the site, **the Burner Booster™ is estimated to save 763 gallons of oil every year and over \$2500 in heating costs!**



The old heating unit at the Concord Armory (top) showed significant deposit buildup after only two years of service, reducing its efficiency. Installation of the Burner Booster (bottom) will provide a cleaner-burning HVAC system and greatly reduce emissions.

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