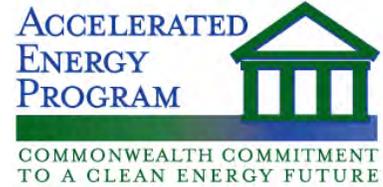


# Accelerated Energy Program Newsletter

## January - February 2014



### PROGRAM UPDATES:

- **AEP Progress (through February 2014):**
  - Underway:** 358 sites
  - Completed:** 96 sites
  - Remaining:** 246 sites

- Request for Proposals (RFP) issued for Energy Design-Build project at Essex County Sheriff facilities in Lawrence and Middleton
- Notice to Proceed (NTP) signed for Retro-Commissioning project at Department of Youth Services facility in Westborough

## Northern Essex Community College celebrates AEP Certification

An enthusiastic crowd of students and faculty from Northern Essex Community College (NECC) joined state leaders and DCAMM representatives to celebrate the completion of the first large AEP Certified project on January 29.

To receive AEP Certification, a large project must achieve at least a 25% reduction in two of three categories including site energy use, greenhouse gas emissions, and energy costs. Energy consumption must also be reduced by **at least 10%**. The \$6 million energy project across the Haverhill and Lawrence campuses achieved:

- a **33% reduction in annual energy costs**, producing an estimated savings of \$400,000 per year.
- **annual electricity consumption reduction of 40%**, enough to power 449 Massachusetts homes each year.
- **the annual elimination of 1,109 metric tons of GHG emissions (28%)**, equivalent to the emissions of 231 cars .

In addition to energy conservation on campus, the college is also committed to educating the community toward a sustainable future. NECC offers its students classes in environmental awareness and sustainability. The college also provides scholarships specifically for students interested in renewable energy and environmental issues.



(L-R) DOER Commissioner Mark Sylvia, NECC President Lane Glenn, and DCAMM Commissioner Carole Cornelison present the college's official AEP Certification at the event on January 29th.

### AEP Certified project sites substantially completed in last 6 months

#### *Division of Employment and Training*

- Taunton Job Center

#### *District Courts*

- Gardner
- Milford
- Uxbridge

#### *Armories*

- Agawam
- Ayer
- Danvers
- Gardner
- Leominster
- Lynn
- Northbridge
- **Pittsfield**
- Ware
- Westfield

Armories in Pittsfield (pictured) and Agawam achieved AEP Certified Plus designations through Utility Vendor projects at their respective sites.



## Innovative technology explored to reduce Commonwealth oil consumption



One of the major goals of the AEP is the reduction of oil use in state facilities to reduce greenhouse gas emissions (GHG). Although the state cannot completely eliminate oil use, the AEP Innovative Technology Working Group is looking at ways to improve efficiency of oil fired equipment across the Commonwealth by installing devices such as Burner Boosters.

The Burner Booster™ is a patented, higher-efficiency replacement oil pump and nozzle system that reduces oil usage and GHGs when added to existing burners. DCAMM is currently evaluating the feasibility of a Burner Booster installation at the Concord Armory, in addition to other energy conservation measures. The armory is the new site of the National Guard Museum and Archives, which houses valuable historical papers and military equipment.

The 36,500 square foot facility currently uses over 5,200 gallons of oil each year, costing the facility **almost \$17,000 annually**. When installed, **the facility will reduce its usage of oil by at least 783 gallons**, according to manufacturer specifications. If this installation proves successful, DCAMM will look to implement Burner Boosters at other oil-burning facilities.

## Toward Zero Net Energy (TZNE)

On February 26, DCAMM hosted a TZNE charrette at Holyoke Community College (HCC) to develop and implement a zero net energy program at the college. The day brought together HCC faculty, staff, students, as well as DCAMM, AEP and consultant team representatives to ensure commitment and involvement from all levels of stakeholders.



The charrette was held to develop a strategy that is in line with the college's existing Climate Action Plan and enhances HCC's mission. The day's events included an interactive brainstorming session to define the right team to champion the program.

HCC is one of 13 sites within the AEP selected to pilot TZNE retrofits that will achieve a 40% or more reduction in energy use and install renewable energy systems.

For more information on the AEP, contact:

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Division of Capital Asset Management and Maintenance

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