



# Accelerated Energy Program

2012-2014

[www.mass.gov/dcam/aep](http://www.mass.gov/dcam/aep)



Governor Deval Patrick  
Lt. Governor Timothy P. Murray



Secretary Jay Gonzalez  
Commissioner Carole Cornelison



Secretary Richard K. Sullivan  
Commissioner Mark Sylvia



# Accelerated Energy Program (AEP)



We will “green” **700** Sites

In a total of **700** Working days

We have initiated work at **105** Sites in the AEP

And now have **99** Sites **In Progress**

And **6** Sites with **Completed** projects

# AEP Spotlight – Simple Fix

## Department of Conservation and Recreation

### Statewide Energy Efficiency Audits

Walden Pond State Reservation – Concord, MA

Wompatuck State Park – Hingham, MA

Mount Tom Reservation – Holyoke, MA

Nantasket Beach Reservation – Hull, MA

Otter River State Forrest – Templeton, MA

Status: **Audit Complete**

### Project Overview:

- Simple Fix energy audits were performed by Energy Engineering & Design (EE&D)
- Sites are located within Municipal Light Districts
- Energy audits recommended various ECMs including:
  - Lighting upgrades and controls
  - Building envelope improvements
  - Appliance upgrades
  - Water conservation measures
- Implementation of these ECMs at these sites yield a cumulative savings of over \$45k annually with an average payback of 3.2 years
- Facilities will be transferred funds and will implement projects with staff or vendors



*Nantasket Beach Reservation*



## Department of Conservation and Recreation

### Energy Efficient Skating Rinks

Murphy Memorial – South Boston, MA

Reilly Memorial – Brighton, MA

Daly Memorial – Brighton, MA

Devine Memorial – Dorchester, MA

Bajko Memorial – Hyde Park, MA

Connell Memorial – Weymouth, MA

Status: **In Construction / Complete**

#### Project Overview:

- DOER led project utilizing ARRA funds.
- Low-Emissivity ceilings at five ice rinks will reduce energy use and improve ice quality.
- After installation of new low-e material, rink managers measured a 20 degree temperature drop at ice level.
- New ceilings will reduce rink refrigeration loads by 25-40%.
- The project will yield an estimated 30%+ in total energy savings.



*Murphy Memorial Rink*



## Judiciary

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### Worcester Trial Court Worcester, MA

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Status: **Audit Initiated**

#### Project Overview:

- 420,000 square foot building was built in 2007.
- Audit will investigate function of HVAC, Energy Management System, and lighting systems.
- Depending on retro-commissioning results, operational upgrades and quick payback ECMs may be recommended for implementation.

#### Other Judiciary Sites:

- 26 other sites are bundled into larger projects that are currently in construction or study.



*Worcester Trial Courthouse*

## Higher Education

### Northern Essex Community College Haverhill, MA and Lawrence, MA

Status: **In Construction**

#### Project Overview:

- 422,111 total square feet at Haverhill and Lawrence sites.
- Comprehensive energy and water retrofit includes:
  - Lighting
  - Premium efficiency motors
  - Electric to gas heat conversion
  - Energy Management System upgrades
  - Building Insulation
  - Demand control ventilation
  - Replacement of hot water boiler
- Over \$350,000 expected annual savings.



*Northern Essex Community College*



## Green Communities Act

In 2008 Governor Patrick signed the Green Communities Act into law to encourage energy efficiency investment in the Commonwealth. The legislation includes a provision allowing DCAM to contract directly with utilities and their subcontractors without any bidding process on energy projects costing \$100,000 or less, which will enable us to efficiently implement measures at the hundreds of smaller sites in the AEP. We have met with both investor-owned and municipal utilities and four vendors to chart out plans for retrofitting smaller sites.

## AEP Planning Charrette

On August 8 and 9, the AEP team participated in a two-day planning Charrette in order to prioritize sites for implementation and develop a schedule for the 64 larger Comprehensive and Retro-Commissioning sites.



## Audit Template

The AEP team has created a template form for standardizing all audits performed for the AEP. The standardized form will ensure consistency between audits and allow us to track, manage, and report site data in a timely and accurate manner.

# Coming Soon

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## Agency Survey

DCAM and DOER have developed an electronic survey to obtain information that will help determine and prioritize the types of projects that will be included in the AEP. Please complete the survey or forward the link to appropriate facility staff.

To enable us to meet our ambitious schedule of initiating all projects by December 2012, please complete the survey by **September 28, 2012**.

We welcome and *need* your involvement to ensure that the AEP will be successful.

If you have any questions, please contact Hope Davis at [hope.davis@state.ma.us](mailto:hope.davis@state.ma.us)

