



The Commonwealth of Massachusetts
Accelerated Energy Program
2012-2014
www.mass.gov/DCAM/aep



Governor Deval Patrick
Lt. Governor Timothy P. Murray

Secretary Glen Shor
Commissioner Carole Cornelison

Division of Capital Asset Management and Maintenance



Secretary Richard K. Sullivan
Commissioner Mark Sylvia



QUARTERLY REPORT – Q(201&



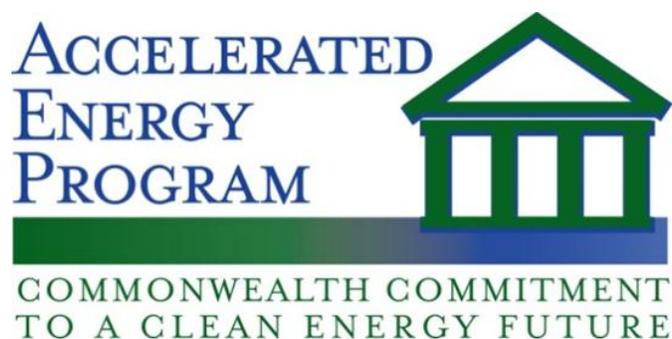
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Introduction

The Commonwealth of Massachusetts is recognized as a national leader in energy and water efficiency for its establishment of clean energy policies and its implementation of innovative, sustainable, and economical energy and water solutions.

In 2012, for the second consecutive year, the Commonwealth was ranked the top state in the nation for energy-efficiency policies and programs by the American Council for an Energy-Efficient Economy (ACEEE). This distinction recognizes many initiatives in Massachusetts, including the investment and savings in energy efficiency for residential, low income, commercial and industrial electric and natural gas customers, delivered through the Mass Save® program. The Leading By Example (LBE) program is also a key factor in this ranking. LBE was established in April 2007 by Governor Patrick's Executive Order No. 484, which set aggressive energy and greenhouse gas reduction goals and renewable energy goals for state government operations.

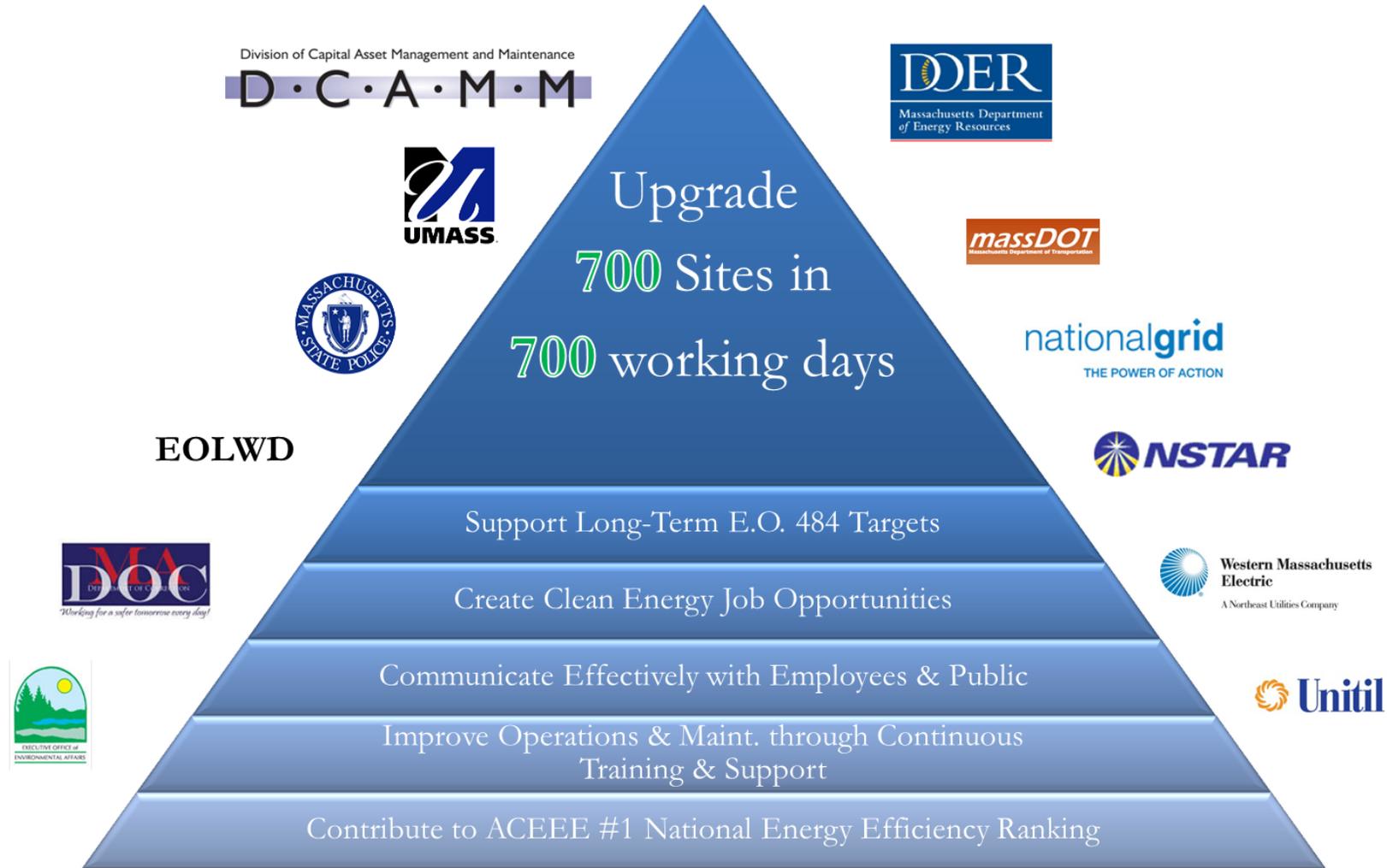


In December 2011, The Accelerated Energy Program (AEP) was established to accelerate the implementation of energy and water projects across the Commonwealth and help the Commonwealth comply with Executive Order 484. The AEP aims to reduce energy consumption by 20-25% over 700 state sites, creating about 4,000 clean energy jobs and saving the Commonwealth an estimated \$43 million annually.

AEP will significantly reduce the current annual consumption of more than 800 million kilowatt hours of electricity, 12 million gallons of heating oil, 55 million therms of natural gas, and emissions of more than 800,000 tons of greenhouse gases, which represent more than 4,000 buildings and 58 million square feet. The program will save an estimated 135,000 metric tons of greenhouse gases annually, the equivalent of removing 26,000 vehicles from the road per year.

Program Goals & Objectives

DCAMM and DOER are working with a number of partners, agencies and utilities, to accomplish the six main objectives of the AEP:



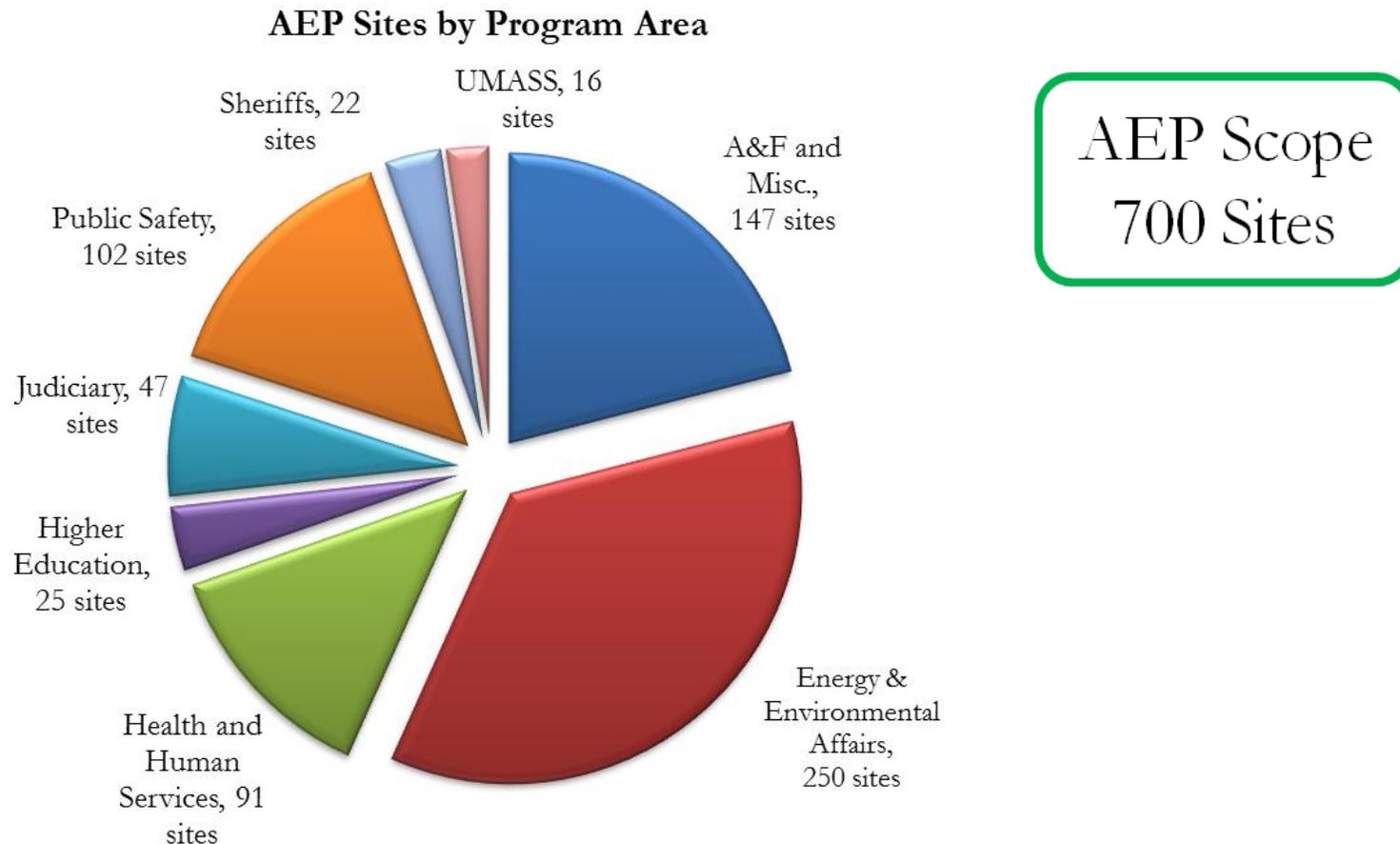
¹AEP Metrics are provided in Appendix A.

²ACEEE is the American Council for an Energy Efficient Economy.

Program Planning & Definition

There are a total of 818 sites in the Commonwealth's capital asset inventory. Of the 818 sites, 700 sites are being retrofitted in the AEP. There are 118 sites excluded from the AEP because they are currently not in use, implemented energy efficient through prior projects, or do not consume energy.

The graphic below shows an overview of AEP sites by Program Area. There have been no changes since the Q3 1012 report.

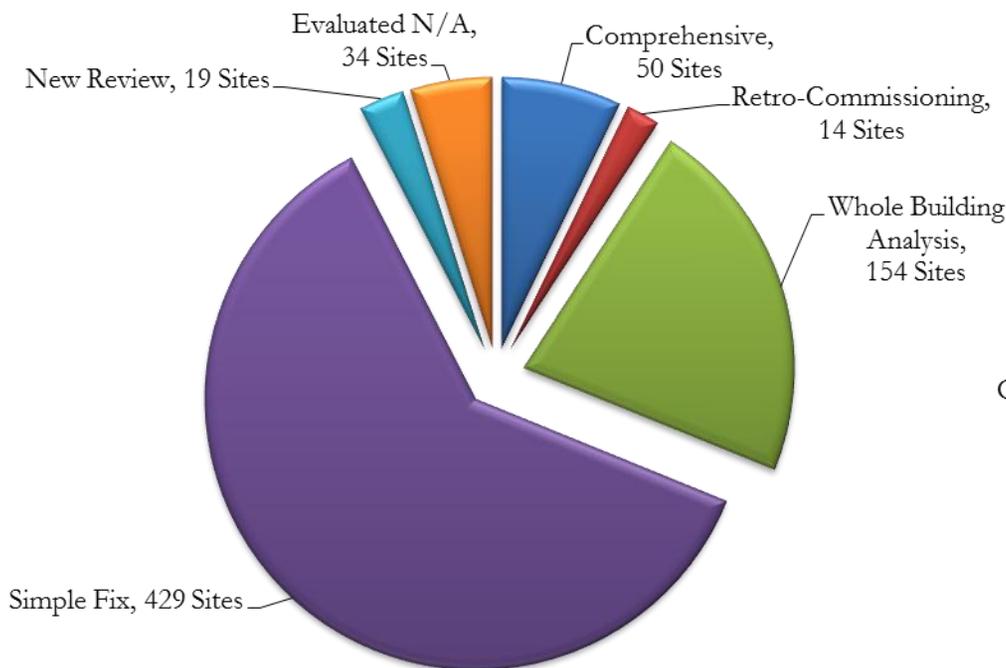


AEP Certified Groups

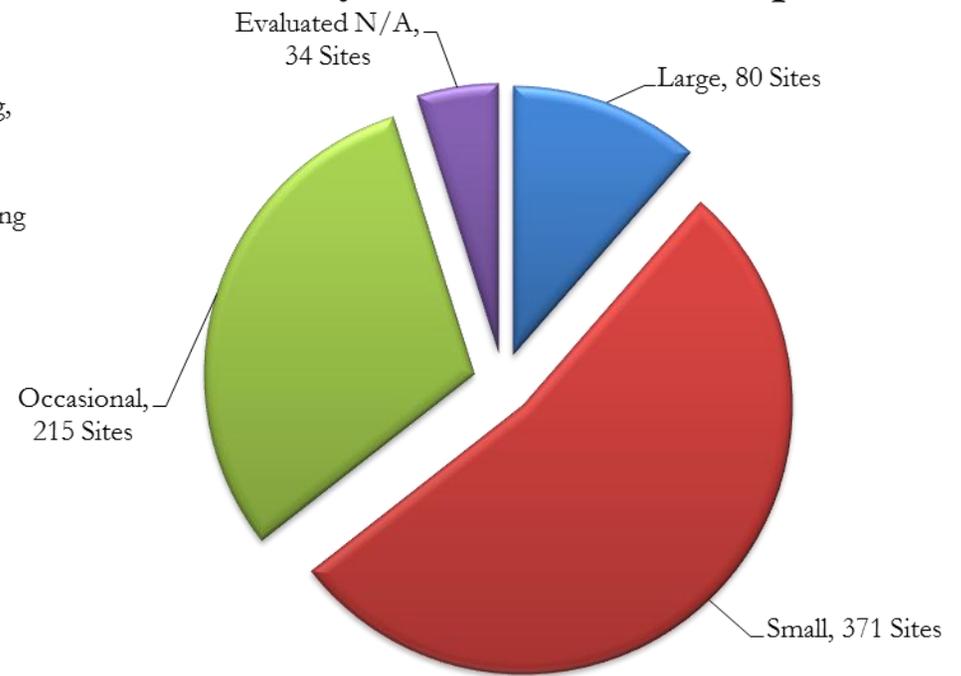
In Q4 2012, DCAMM and DOER finalized an AEP Certification system for recognizing sites that achieve a significant level of energy reduction. Across the entire AEP portfolio of 700 sites, DCAMM and DOER target a 25% reduction in energy consumption, greenhouse gas emissions, and energy costs. The reduction requirements for individual sites to achieve AEP Certified designation vary based on site size and type – for instance, larger sites with comprehensive projects can typically expect deeper measures and greater savings than smaller sites that are addressed through utility vendor projects.

For ease of communication, the AEP team is now using these new AEP Certified groupings (seen in the bottom right pie chart), as opposed to implementation groups (bottom left), to classify sites. The rest of the Quarterly Report and future AEP reporting will primarily use the new designations. The AEP Certified system is explained in detail later in the report.

Sites by Implementation Group



Sites by AEP Certified Group



Summary of Major Accomplishments

The Division of Capital Asset Management and Maintenance (DCAMM) is working with the Department of Energy Resources (DOER) and other partners to implement the AEP. DCAMM continued to build upon the hard work and progress made on the AEP throughout 2012 by achieving some significant successes in the fourth quarter. Some notable achievements are summarized below :

AEP Press Release and Kick-Off Event

On January 15th the AEP Launch was held at Springfield Technical Community College in conjunction with the quarterly Implementation Committee Meeting. The event featured leadership from the Executive Office of Administration & Finance and the Executive Office of Environmental Affairs. The Boston Globe, San Francisco Chronicle, Springfield Republican, and other news outlets carried the story.

AEP Certification Designation

DCAMM and DOER leadership developed criteria and language for AEP Certified and AEP Certified Plus designations for sites in the AEP portfolio. The certification designation will be one of the primary means of recognizing the significant energy achievements as a result of the program.

Innovative Utility Vendor Contracting

With support from DOER, DCAMM has created an innovative contracting solution with utilities to retrofit hundreds of small and occasional use sites across the Commonwealth. Under the authority provided by the Green Communities Act, DCAMM created a new procurement approach that involves direct contracting with utility-approved vendors. These contracts will use pricing already negotiated by utility companies. In Q4 2012, DCAMM signed a contract with a utility vendor (RISE Engineering) for 15 courts. In Q1 2013, DCAMM will be reaching out to ALL utility vendors to invite participation in the program.

Ramping Up Energy Efficiency Audits

In Q4 2012, energy efficiency audits were conducted at 76 small and occasional use sites, including 67 DCR sites across the Western, Southeastern and Central Regions. Standardized audit template and processes were created to enable DCAMM to codify all energy efficiency opportunities across sites and streamline the implementation of measures.

Survey Results

In October 2012, the AEP team collected 114 completed surveys from 1,300 facility contacts statewide. The results of the initial survey indicate that nearly two-thirds of the respondents believe their facility is not efficient in energy and water usage. A more detailed questionnaire will be issued, and on-site visits with facilities will be conducted to better tailor the AEP to their needs.

The following sections of the AEP Quarterly Report contain detailed updates on these major accomplishments as well as other information such as profiles of several AEP sites, an overview of each Working Group, and a list of sites that have been initiated or completed.

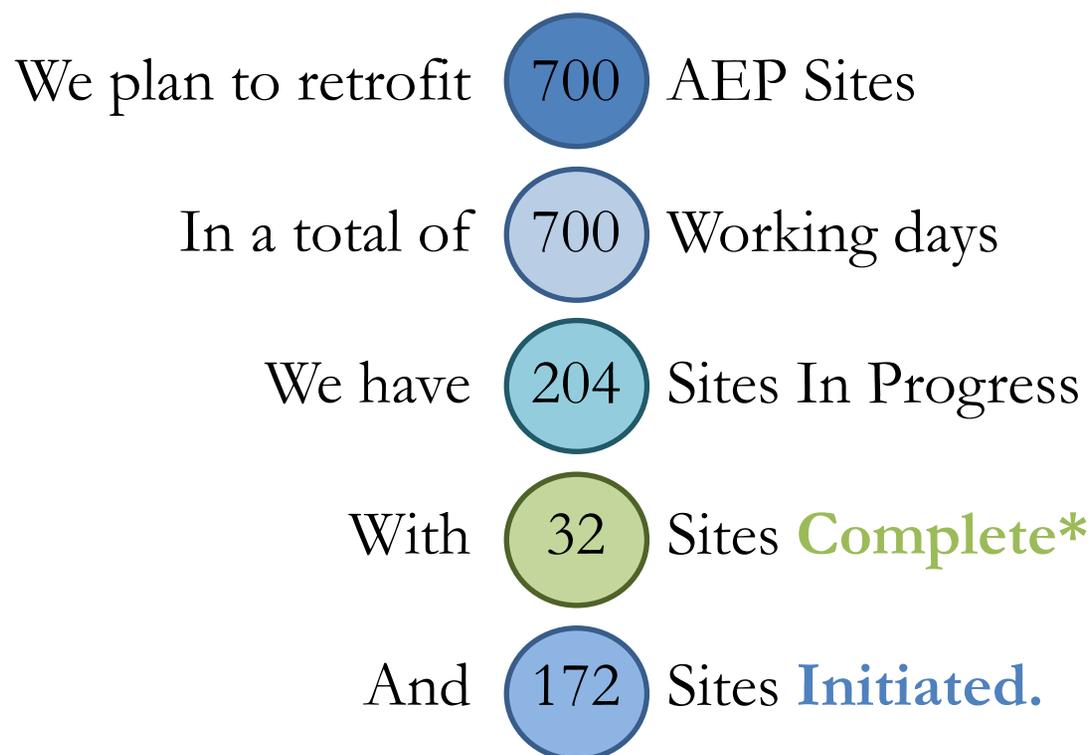


Commissioner Cornelison & Commissioner Sylvia announcing the AEP to the public on January 15th, 2013.

Program Status

DCAMM and partners plan to retrofit 700 sites encompassing more than 4,800 buildings throughout the Commonwealth. The AEP has 700 working days from March 1, 2012 to December 31, 2014.

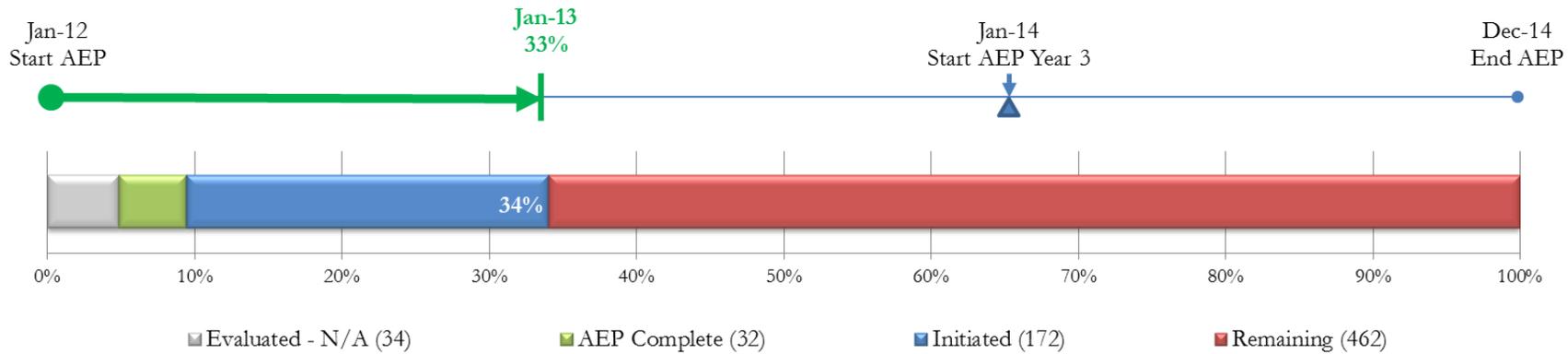
By the end of Q4 2012, projects at a total of 204 of the 700 sites have been initiated or completed. A total of 32 sites are AEP completed (see footnote) and 172 sites are initiated. In addition, 34 sites were evaluated and determined to have already been retrofitted prior to the commencement of the AEP or are no longer in use.



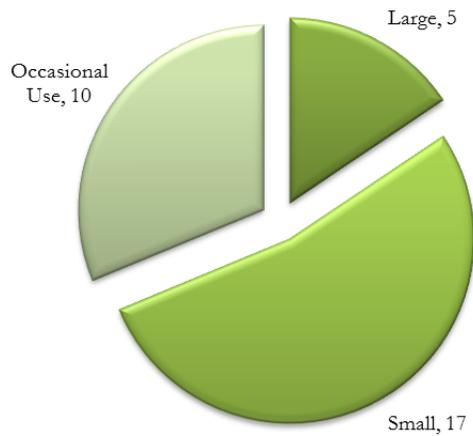
*In order to achieve AEP Completion, small projects must complete construction, large comprehensive projects must enter construction, and new review projects must complete an energy audit.

Schedule Status

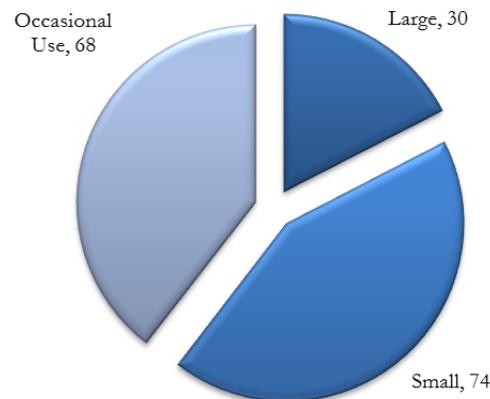
As of the end of Q4 2012, DCAMM and DOER have been working on the AEP for 12 months, which equates to 33% of the total duration of the three year program. A total of 238 sites have been completed, initiated or evaluated and determined to be not applicable for additional retrofitting, which equates to 34% of the total AEP sites.



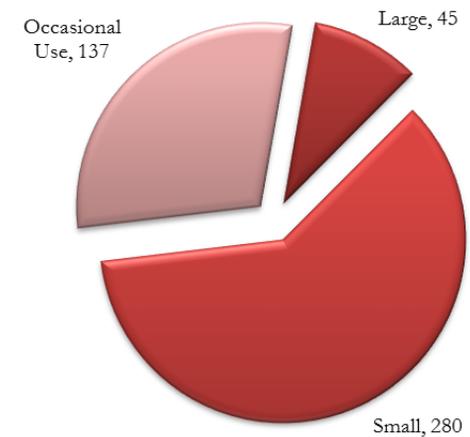
AEP Complete (32)



Initiated (172)



Remaining (462)

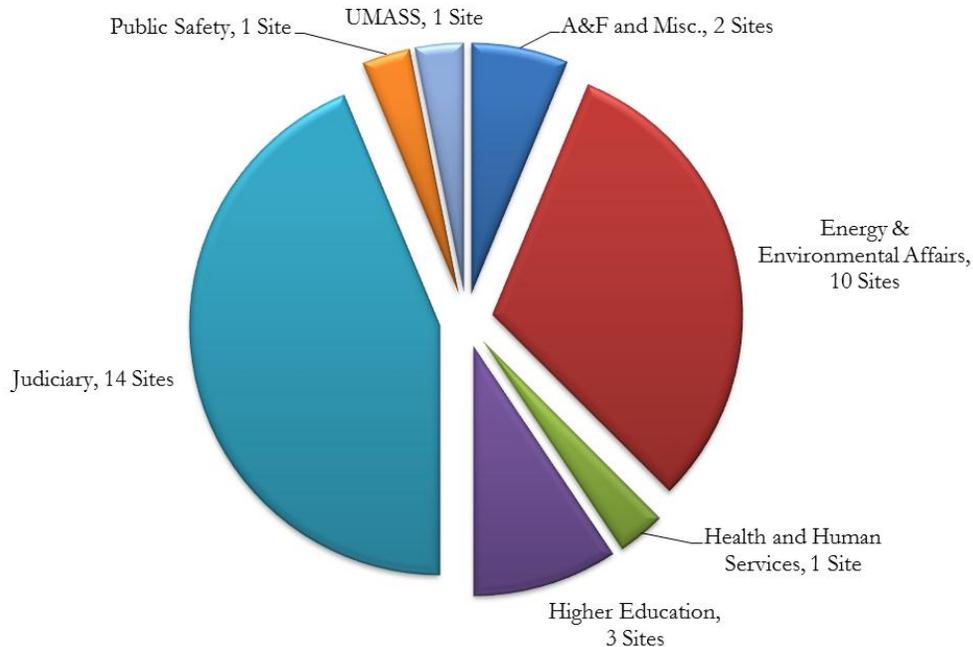


AEP Complete Sites

A summary of the AEP Completed sites is shown below, more detailed information is provided in Appendix B.

AEP Complete: 32 Sites

(Includes 12 sites that have completed construction and 20 sites in construction)

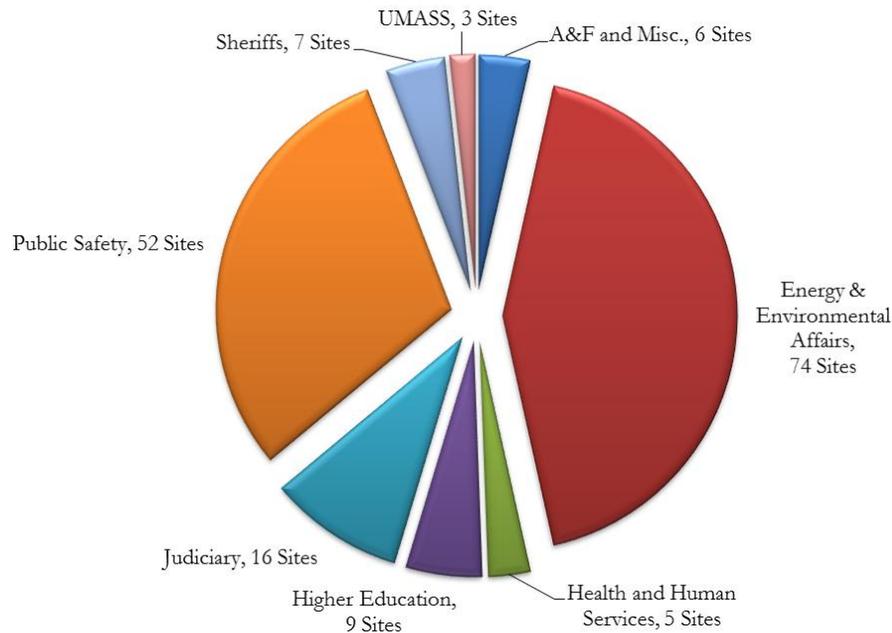


In Construction		
Agency	Site Name	Municipality
Bureau of State Buildings	STATE HOUSE	BOSTON
Division of Employment and Training	JOB CENTER - TAUNTON	TAUNTON
Dept. of Conservation and Recreation	WALDEN POND STATE RESERVATION	CONCORD
Dept. of Conservation and Recreation	NANTASKET BEACH RESERVATION	HULL
Dept. of Conservation and Recreation	WOMPATUCK STATE PARK	HINGHAM
Dept. of Conservation and Recreation	MOUNT TOM RESERVATION	HOLYOKE
Dept. of Conservation and Recreation	OTTER RIVER STATE FOREST	TEMPLETON
Dept. of Youth Services	DYS - TAUNTON	TAUNTON
Northern Essex Community College	N ESSEX COMM COLLEGE-HAVERHILL	HAVERHILL
Northern Essex Community College	N ESSEX COMM COLLEGE-LAWRENCE	LAWRENCE
UMASS Amherst	UMASS - AMHERST	AMHERST
Trial Courts	CHICOPEE DISTRICT COURT	CHICOPEE
Trial Courts	HOLYOKE COURTHOUSE	HOLYOKE
Trial Courts	PALMER DISTRICT COURT	PAXTON
Trial Courts	HAMPSHIRE COUNTY COURT	NORTHAMPTON
Trial Courts	SPRINGFIELD HOUSING/JUVENILE COURTS	SPRINGFIELD
Trial Courts	PITTSFIELD DISTRICT	PITTSFIELD
Trial Courts	PITTSFIELD SUPERIOR	PITTSFIELD
Trial Courts	PITTSFIELD PROBATE AND FAMILY	PITTSFIELD
Trial Courts	SPRINGFIELD COURT COMPLEX	SPRINGFIELD

Construction Complete		
Agency	Site Name	Municipality
Dept. of Conservation and Recreation	RINK/CHARLESTOWN MEMORIAL	BOSTON
Dept. of Conservation and Recreation	RINK/DEVINE MEMORIAL	BOSTON
Dept. of Conservation and Recreation	RINK/BAJKO MEMORIAL	BOSTON
Dept. of Conservation and Recreation	MARINE PARK RESERVATION	BOSTON
Dept. of Conservation and Recreation	POOL & RINK/CONNELL MEMORIAL	WEYMOUTH
Dept. of State Police	MILTON POLICE BARRACKS	MILTON
Middlesex Community College	MIDDLESEX COMMUNITY COLLEGE	BEDFORD
Trial Courts	DORCHESTER DISTRICT COURT	BOSTON
Trial Courts	FRAMINGHAM DISTRICT COURT	FRAMINGHAM
Trial Courts	SOMERVILLE DISTRICT COURT	SOMERVILLE
Trial Courts	WALTHAM DISTRICT COURT	WALTHAM
Trial Courts	WOBURN DISTRICT COURT	WOBURN

Initiated Sites

AEP Initiated: 172 Sites



DCAMM has initiated work at 172 sites, including some highlighted Q4 progress as follows:

- Issued an RFP for the largest energy and water conservation project to date in the AEP (estimated at \$24 million) to retrofit the Erich Lindemann and John W. McCormack buildings in Boston.
- Conducted energy audits at 76 small and occasional use facilities, including DCR parks, forests, fisheries, beaches and maintenance facilities.
- Initiated work with utility vendors on 27 sites at trial courts and military sites.
- Issued a boiler feasibility study and preliminary design project at DPH Institute of Labs in Jamaica Plain.
- Initiated a study at Holyoke Community College, which includes 571,036 square foot of building space.



John W. McCormack and Erich Lindemann buildings.

AEP Certification

Across the entire AEP portfolio of 700 sites, DCAMM and DOER are targeting a 25% reduction in energy consumption, greenhouse gas emissions, and energy costs. DCAMM and DOER are pursuing reductions targets at all individual sites as well. Sites may be able to achieve two levels of recognition:

- **AEP Certified** – An individual site must achieve a minimum reduction in two of the following three categories: site energy use, greenhouse gas emissions, and energy costs. The required level of reduction varies depending on the site category (large, small, occasional use).
- **AEP Certified Plus** – Sites must implement additional cost-effective clean energy measures to achieve higher reductions than under the AEP Certified level. Additionally, sites must establish staff training and preventive maintenance programs.

Consistent with statewide goals, the AEP team will prioritize energy efficiency in project scopes. Water conservation will be included at all applicable sites, and on-site clean energy generation may be used to achieve AEP Certified and Certified Plus levels. A site may become AEP Certified and then achieve an AEP Certified Plus designation at a later date. The specific criteria to become AEP Certified or AEP Certified Plus are:

	Large Sites (i.e. hospitals, colleges, prisons)	Small Sites (i.e. police barracks, career centers)	Occasional Use Sites (i.e. ice rinks, state parks)
AEP Certified	<ol style="list-style-type: none"> 1. Achieve a 25% reduction in at least 2 of the following categories: site energy use, greenhouse gas emissions, energy costs. 2. Energy consumption must be reduced by at least 10% 	<ol style="list-style-type: none"> 3. Achieve a 20% reduction in at least 2 of the following categories: site energy use, greenhouse gas emissions, energy costs. 4. Energy consumption must be reduced by at least 10% 	Meet the reduction threshold for small sites or implement at least three energy/water conservation measures.
	Large and Small Sites		Occasional Use Sites
AEP Certified Plus	<ol style="list-style-type: none"> 1. Achieve a 50% reduction in at least 2 of the following categories: site energy use, greenhouse gas emissions, energy costs; 2. Energy consumption must be reduced by at least 20% 3. Establish energy and facility maintenance training program for staff; and 4. Develop plan for preventative maintenance to keep systems operating at optimum efficiency. 		Not eligible

AEP Certification Examples

Below are sample AEP Certification calculations for three sites in the AEP. Springfield Technical Community College, a large site undergoing a comprehensive retrofit, is expected to achieve significant enough energy, cost, and GHG emissions savings to qualify for AEP Certification. The Taunton Career Center, a small site, also expects to achieve major reductions above the target threshold and will receive AEP Certified designation. Salisbury Beach State Park is seasonal and so must implement at least three energy or water conservation measures to qualify. Since eight measures have been identified for implementation, it also will achieve AEP Certification. An overall analysis of progress towards AEP Certification can be found in Appendix E.

Large Site

Springfield Technical Community College

Current Status: *RFP Issued*

On schedule to achieve AEP Certification from a reduction of over 25% in energy use, energy cost, and GHG emissions.

	Energy Use (MMBtu)	Energy Cost	GHG Emissions (metric tons)	No. of ECMs
Baseline	856,298	\$1,645,121	6,859	N/A
Savings	401,495	\$447,862	1,782	N/A
Reduction	47%	27%	26%	N/A
AEP Certified	✓	✓	✓	N/A

Small Site

Taunton Career Center

Current Status: *In Construction*

Will achieve AEP Certification upon construction completion (January) for reaching reduction of over 20% in all three categories.

	Energy Use (MMBtu)	Energy Cost	GHG Emissions (metric tons)	No. of ECMs
Baseline	1,939	\$32,917	136	N/A
Savings	1,174	\$16,480	75	N/A
Reduction	61%	50%	55%	N/A
AEP Certified	✓	✓	✓	N/A

Occasional Use Site

Salisbury Beach State Park

Current Status: *Audit Complete*

The energy audits of the site identified eight (8) ECMs that, upon implementation, will enable the site to achieve AEP Certification.

	Energy Use (MMBtu)	Energy Cost	GHG Emissions (metric tons)	No. of ECMs
Baseline	2,027	\$50,250	202	N/A
Savings	235	\$6,528	19	8
Reduction	12%	13%	10%	N/A
AEP Certified	X	X	X	✓

AEP Spotlight – Partners

Each quarter, DCAMM and DOER recognize individuals and organizations for their contribution to the success of the AEP. This quarter DCAMM and DOER recognize **Paul Antoniewicz** from the Court Capital and Facilities Management Office of the Trial Courts.

Paul has provided outstanding efforts in energy efficiency leadership, and we are grateful for his contributions and optimism. Some of his contributions include:

- Key contact for Trial Courts East and West Energy Efficiency Projects and Worcester Trial Court Retro-Commissioning Project, impacting a total area of over 920,000 square feet and 10 sites.
- Representative for pilot utility vendor procurement project at Trial Courts – an area of 425,000 square feet over 15 sites.
- Agency representative leading demand response programs, installation of meters, lighting retrofits, single-stream recycling, and LEED recognition.

Thank you Paul for your dedicated efforts!



Plymouth Trial Courthouse, Plymouth, MA

(First building in MA to receive EnergyStar label, with a rating of 90)

AEP Spotlight – Small Site

Department of Conservation and Recreation

Energy Audits of DCR Pools and Rinks

Buffone Memorial Skating Rink – Worcester, MA

Status: Draft Audit Complete

Active Contractor: Energy Engineering & Design (EE&D)

Project Overview:

The Buffone Rink maintains the ice year around. Rink personnel have already implemented some important energy conservation measures including low-e ceilings, T-5 lighting over the rink, variable speed drives on pumps, premium efficiency motors, lighting controls, and the use of an electric Zamboni ice resurfacer.

In Q4 2012, a facility advisor (EE&D) completed a draft audit of the Buffone Rink and submitted the report for DCAMM review and approval. The energy audit recommended the following energy conservation measures (ECMs):

- Lighting upgrades
- Building controls upgrades
- Building envelope improvements
- Realice Vortec water treatment
- Rainwater harvesting and other water upgrades

Implementation of these ECMs is estimated to yield a cumulative savings of approximately \$39,000 annually with a payback of 3.9 years.



Buffone Memorial Skating Rink

AEP Spotlight – Occasional Use Site

Fisheries, Wildlife & Environmental Law Enforcement

Energy Audits of DCR Parks, Forests & Fisheries

Plum Island Fishery – Newburyport, MA

Status: Draft Audit Complete

Active Contractor: SourceOne

Project Overview:

The Plum Island Fishery consists of one 4,366 square foot building constructed in the 1930's. The building is a two story steel frame warehouse type structure with large filtration tanks for storing and cleaning commercially harvested shellfish. The building also includes offices, bathrooms, labs and a workshop.

In Q4 2012, a facility advisor (SouceOne) completed the draft audit of the Plum Island Fishery and submitted the report for DCAMM review and approval. The energy audit recommended the following energy conservation measures (ECMs):

- Lighting upgrades
- Electric Motors
- Retro-Commissioning

Implementation of these ECMs is estimated to yield a cumulative savings of approximately \$2,000 annually. The project qualifies for utility incentives of \$75 per vapor tight fixture upgrade and \$20 per LED Exit Sign.



Existing Lighting Conditions in Warehouse

AEP Spotlight – Large Site

Department of Public Health

Massachusetts State Laboratory

Jamaica Plain, MA

Implementation Group: Comprehensive

Status: Boiler Feasibility Study and Preliminary Design

Active Contractor: Kling Stubbins

Project Overview:

The MSL campus is located at 305 South Street in Jamaica Plain and occupies approximately seven acres. The campus buildings are comprised of three primary structures: the Tower Building, the Biologics Building (which is used for the manufacture of vaccines) and the Stable Building.

Kling Stubbins completed the study of the Mass State Lab. The energy study evaluated the use of several energy efficiency measures including:

- Boiler replacement
- Additional VAVs
- Exterior window replacement
- Installation of solar panels
- Provide energy recovery system
- BAS upgrades
- High efficiency plumbing fixtures

In Q4 2012, DCAMM issued a Notice To Proceed (NTP) for the boiler feasibility study and preliminary design.



Massachusetts State Laboratory Building known as “The Tower”

AEP Spotlight – Large Site

Sheriff's Department Essex

Sheriff's Department Essex Middleton, MA

Implementation Group: Retro-Commissioning

Status: In Study

Active Contractor: Sebesta Blomberg

Project Overview:

The Essex Sheriff's Department in Middleton is a 237,543 square foot site with 12 buildings.

DCAMM issued a Notice to Proceed (NTP) for a retro-commissioning study to a facility advisor (Sebesta Blomberg) to examine the site for possible energy and water conservation upgrades including:

- Operational refinements, updating control sequences
- Variable Frequency Drives
- HVAC System upgrades
- Building Envelope upgrades
- Kitchen hood controls
- Renewable energy opportunities

The project is estimated to cost \$2.5 million and save nearly \$175,000 annually in energy costs. In addition to saving energy, the project is expected to upgrade poor systems and provide maintenance savings.



Sheriff's Department Essex



AEP Spotlight – Large Site

Higher Education

Springfield Technical Community College

Springfield, MA

Implementation Group: Comprehensive

Status: RFP Issued

Active Contractor: TBD

Project Overview:

Springfield Technical Community College is the largest community college in the Commonwealth at over 1.1 million square feet and an enrollment of over 9,000 students annually.

DCAMM issued an RFP in December for a new decentralized heating system and a centralized cooling system. The projects will replace existing boilers, chillers, and cooling towers that serve the campus with energy efficient equipment at the central plant and throughout the campus. Proposals are due in January and the new cooling system will be in place in the spring.

The project has a total investment of \$12 million and will save an estimated \$448,000 annually in energy costs.



Springfield Technical Community College

Program Exposures

The AEP has a wide variety of stakeholders and contributors that work to ensure its success. Given the AEP's complexity, the identification and mitigation of risks becomes an important factor in successful program management. In Q4 2012, the AEP team was able to mitigate many risks identified in the previous quarterly report.

The table below lists the AEP's remaining risks, the defined response and risk owner. Risks are categorized by the area of the program affected (i.e. planning, data management, communications). Each risk is scored as a combination of the probability of the risk being realized and the risk's potential impact on the AEP.

Risk Identifier	Risk	Impact Description	Risk Score (1=Low 6=High)	Timeline	Risk Response	Risk Owner (Working Group)
Implementation Planning						
IP-R1	All requested funding not in place (bond bills, utility rebates, etc.)	Not enough funds to complete program	5	Near term	Develop a spending plan and project prioritization list based on highest return on investment or critical needs.	Procurement / Data & Performance Management
IP-R2	Site implementation grouping changes throughout program.	Communication and implementation problems	2	Near term	Finalize all site implementation groupings during planning and include contingency in estimated costs.	Data & Performance Management / Procurement
IP-R3	Additional sites requested to be included in AEP by Agencies may not receive funding.	Schedule and funding impacts to overall program.	2	Near term	Finalize AEP scope and coordinate with facility managers through survey. Prioritize AEP sites for implementation.	PMO / Simple Fix

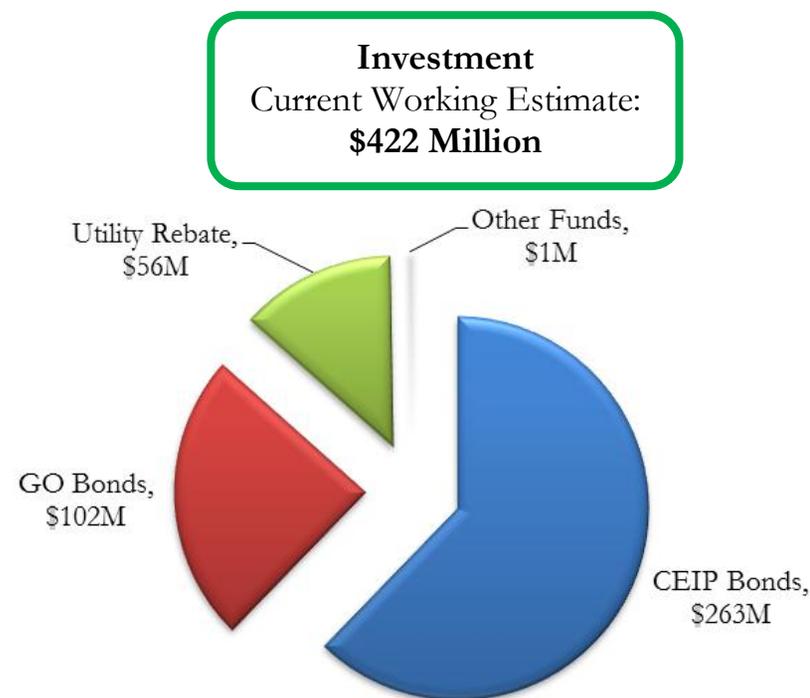
Risk Identifier	Risk	Impact Description	Risk Score (1=Low 6=High)	Timeline	Risk Response	Risk Owner (Working Group)
Project Management						
PM-R1	Negotiation of utility vendor contracts fails to result in agreement.	Delay of program	2	Near term	Develop alternative delivery methods for small and occasional use sites.	Simple Fix
PM-R2	Utility rebate programs do not meet funding requirements.	Not able to fund all projects	3	Mid-term	Identify alternate sources of funding.	Simple Fix / Audits
PM-R3	Capacity shortfall to audit, review and implement work at all small sites.	Delay of program	4	Mid-term	Develop alternative implementation methods and personnel.	Simple Fix
PM-R4	Audit review process takes longer than anticipated.	Delay of program	2	Mid-term	Streamline audit process with templates and process improvement focus.	Simple Fix / Audits
INReach						
IN-R1	Lack of building occupant training participation.	Full energy saving potential not realized	3	Long term	Coordinate with IFM/MAFMA/CFAC to incentivize building occupants to adopt new	"Inreach" & Technical Support
Data & Performance Management						
DM-R1	AEP Database & Dashboard not operational.	Program reporting increased level of effort, delays	6	Near Term	Develop alternative tools for project tracking and reporting.	Data & Performance Management
DM-R2	Collection of site-level energy consumption data does not occur.	Difficulty with validating ECMs and improvements	2	Mid-term	Identify and assess the data collection and energy accounting system.	Data & Performance Management

Financial Management

Investment

AEP retrofits will be funded by a combination of CEIP Bonds, G.O. Bonds, utility rebates and other funding sources.

- CEIP bonds are an innovative investment approach created by the Patrick-Murray administration in which debt service is repaid through energy savings. CEIP bonds are expected to fund \$263 million or 62% of the total AEP.
- Utility rebates are estimated at \$56 million based on a review of past DCAMM, DOER, and utility projects. Smaller projects are eligible for higher rebates because of quick payback and ease of implementation.
- G.O. Bonds and Other Funds are expected to fund the remaining \$104 million.
- Since last quarter, the current working estimate has decreased by approximately \$48 million, because many sites were determined to need only small retrofits. The budget will remain the same to allow for contingency.

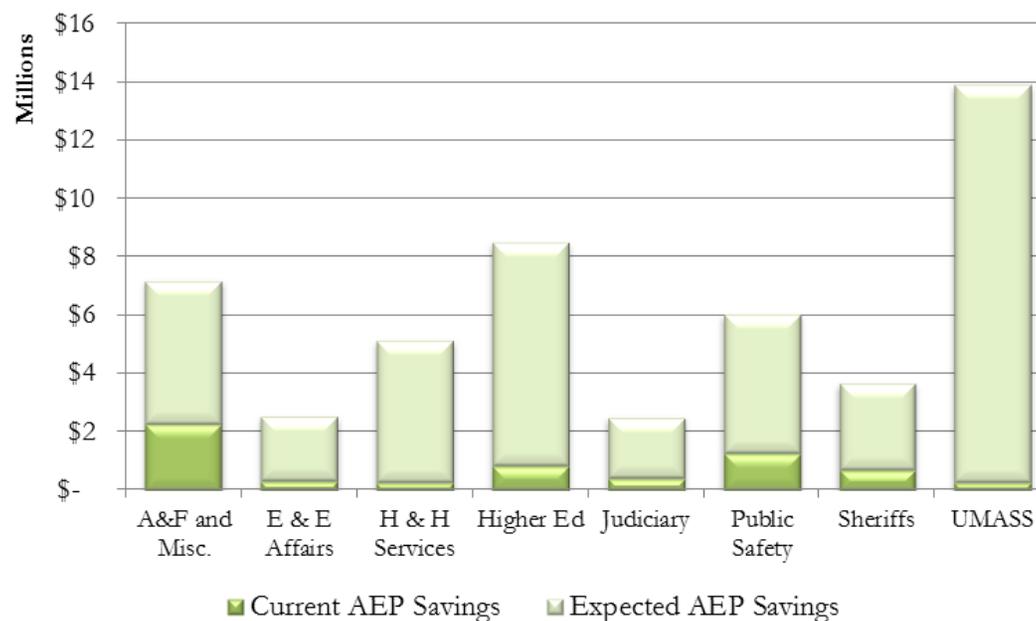


Implementation Group	Est. AEP Investment	CEIP Bonds	GO Bonds	Percentage Utility Rebate	Utility Rebate	Other Funds
Large Sites	\$348,115,983	\$223,748,176	\$88,101,620	24%	\$35,698,493	\$567,695
Small Sites	\$49,788,094	\$29,161,451	\$8,725,930	34%	\$11,298,132	\$602,581
Occasional Use Sites	\$24,153,151	\$9,933,977	\$5,641,147	34%	\$8,578,027	\$-
Evaluated N/A	\$-	\$-	\$-	0%	\$-	\$-
Current Working Estimate	\$422,057,229	\$262,843,605	\$102,468,697	28%	\$55,574,651	\$1,170,276
Contingency	\$47,733,564					
AEP Budget Total	\$469,790,793					

Annual Energy Cost Reductions

- Annual energy costs for AEP sites are estimated at \$185 million.
- Investment in retrofits is expected to generate \$43 million in annual energy cost savings. Currently 112 sites have had an audit completed (of the 175 initiated sites), for a total estimated annual savings of over \$6 million per year. This corresponds to 15% of the anticipated savings total, with 16% of sites having completed audits.
- Since most audits already performed are for small sites and large sites typically see much larger savings, the overall savings numbers are expected to increase significantly as projects at large sites move forward and more accurate energy audit information is collected.
- Total savings estimates were calculated using historical data from hundreds of prior retrofit projects, and current savings are from energy audits.

Total Target Savings:
\$43 Million



Program Area	Total AEP Sites	Sites with Audits Complete	Percent of Audits Complete	Expected AEP Savings	Audited AEP Savings	Percent of Savings Goal
A&F and Misc.	147	5	3%	\$ 4,930,485	\$ 2,271,566	46%
E & E Affairs	250	53	21%	\$ 2,211,009	\$ 332,624	15%
H & H Services	91	3	3%	\$ 4,868,228	\$ 267,143	5%
Higher Ed	25	8	32%	\$ 7,685,970	\$ 818,850	11%
Judiciary	47	11	23%	\$ 2,092,363	\$ 420,469	20%
Public Safety	102	28	27%	\$ 4,792,255	\$ 1,247,906	26%
Sheriffs	22	2	9%	\$ 2,989,273	\$ 687,056	23%
UMASS	16	2	13%	\$ 13,612,983	\$ 285,240	2%
Grand Total	700	112	16%	\$ 43,182,566	\$ 6,330,855	15%

AEP Working Groups' Accomplishments

The Implementation Committee Working Groups made significant accomplishments during Q4 2012. The table below highlights the accomplishments in Q4 2012 and planned goals in Q1 2013:

AEP Working Group Accomplishments and Goals

	Q4 2012	Q1 2013
Communications	Developed AEP logo and media kit	AEP Public launch
Small Sites	Finalized and signed utility vendor contract, initiated work at 38 small sites	Initiate work at MassDOT sites, sign additional utility vendors
Audits & RCx	Developed standardized scope of work and initiated new Retro-Commissioning project	Develop standard scope of work for large project audits
Outreach & Tech Support	Collected and analyzed site survey results	Follow-up with facility managers, update website, and send out AEP letter
Building Codes	Developed roadmap for building codes	Distribute building codes checklist for small energy projects for feedback
Data & Performance	Developed spending and encumbrance plan based on AEP financial plan	Investigate AEP Database & Dashboard
Procurement	Explored innovative procurement options with utilities, comptroller, and DCAMM contractors	Develop procurement tracking processes for small sites
Leasing	Identified all spaces leased to Agencies by public and private landlords.	Develop prioritized list of leased spaces
Labor & Workforce	Developed process for ensuring M/WBE participation on small project procurement	Create and implement an AEP Workforce Development Strategy

Communications Working Group

Kicking Off the AEP with a Press Launch

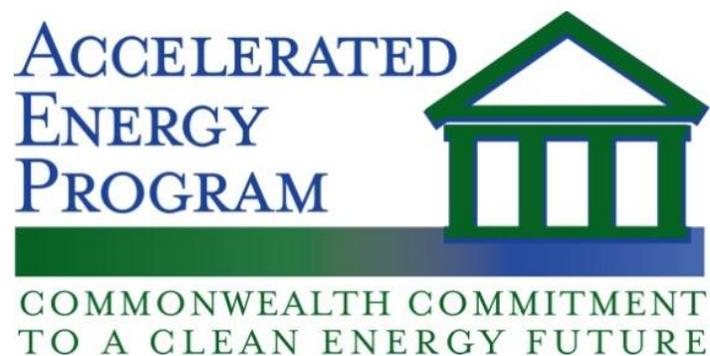
The Communications working group developed and organized a kickoff event for the AEP with the press.

Patrick-Murray Administration Announces Accelerated Energy Program

Innovative Program Sets Ambitious New Energy Goals to Reduce Energy Consumption at 700 State Sites; Will Save Massachusetts \$43 Million Annually; Create Up to 4,000 Jobs

On January 15th the AEP Launch was held at Springfield Technical Community College in conjunction with the quarterly Implementation Committee Meeting. The event featured leadership from the Executive Office of Administration & Finance as well as the Executive Office of Environmental Affairs.

At the press event, the AEP Communications group unveiled the AEP logo and branding identity.



Working Group Objectives:

- Collaborate with Associations and Leadership Councils
- Outreach to Building Occupants
- Promote AEP to Employees and the Public



ANF Secretary Shor



E&EA Secretary Sullivan

Small Sites & Audits Working Group

Ramping Up Audit Activity

DCAMM continued to ramp up energy efficiency audits at small and occasional use sites.

In Q4 2012, energy audits were conducted at **76 small and occasional use sites**, including 67 DCR sites across the Western, Southeastern and Central Regions. DCAMM and DCR held multiple meetings to assess potential retrofit plans and collaborate on how best to implement. Simple Fix measures have been identified across all DCR sites, with an average of \$25,000 investment and \$4,000 annual savings in energy costs at each site.

DCAMM worked closely with the Courts to advance the goals of the Accelerated Energy Program. Specifically, a number of meetings were held to discuss paths forward with the smaller courts and their integration into the Utility Vendor Program. In addition, a number of meetings were held to discuss the results of the retro-commissioning recommendations and potential ECMs at the Worcester Trial Court building.

DCAMM also met on a number of occasions with representatives from the Military and MassDOT. These meeting addressed identifying sites to be audited, selection of potential vendors to perform the audits and potential schedules for audits in Q1-2013.



Working Group Objectives:

- Plan and lead retrofit of all small facilities sites (Simple Fix Working Group)
- Plan and lead implementation of audits and retro-commissioning (Audits Working Group)



DCAMM and DCR coordination meeting at Nantasket Beach Reservation in Hull, MA.



Standardizing Energy Efficiency Audits

In Q4 2012, the Small Sites and Audit Working Groups developed a standardized set of criteria to review audit reports. The criteria establish minimum standards for audit reports, provide guidelines for content, and establish threshold values for ECM cost and savings results. The DCAMM E-Team piloted the audit review criteria and process when reviewing the audit reports submitted by the Facility Advisors.

A total of 76 energy and water conservation audits were completed by DCAMM-

approved facility advisors and audit reports were submitted using the DCAMM designed Audit Template. Preliminary review of the audit results will continue into Q1 2013 after which an implementation plan will be developed.

Accelerated Energy Program
Audit Review QC
ECM Checklist

Small Site ECMs	(Action Items)	DCAMM ECM No.												
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Lighting	1.0													
Lighting Controls	2.0													
Motors	3.0													
Boiler Reset Control	4.0													
Energy Management Systems	4.0													
Programmable Thermostats	4.0													
Commercial Kitchen Spray Valves	5.0													
Domestic Water Heating Systems	5.0													

Structuring Retro-Commissioning (RCx)

Retro-commissioning is a process that seeks to improve how building equipment and systems function together.

In Q4 2012 DCAMM completed the development of a standardized request for services for retro-commissioning sites in the Accelerated Energy Program.

Using this standardized document and approach, DCAMM issued an RFP for Retro-commissioning and audit services at the DYS Central Youth Service Center in Westborough to three potential vendors. DCAMM staff met with the site staff to discuss the approach of the RCx activities in the Program and have scheduled a preliminary walk through of the site with the three potential vendors in early January 2013.



DYS Central Youth Service Center - Westborough

Procurement Working Group

Throughout Q4 2012, the Procurement Working Group continued to support the AEP project managers with utility program planning, Minority and Woman Business Enterprise strategy development, access and opportunity initiatives, expansion of the DCAMM Consultant Pool, and Lean process improvements for project procurement.

Innovative Utility Vendor Contracting

In Q4 2012, DCAMM created an innovative utility vendor contracting solution to address hundreds of small and occasional use sites in the AEP.

Members of the Procurement Working Group held several meetings with investor-owned utilities and utility-approved vendors to further develop a new contracting approach for the AEP. As the quarter progressed, the working group members, with the feedback from other stakeholders, finalized the parameters of a utility vendor contract. The contract allows DCAMM to directly engage with utility vendors for projects at the smaller sites. DCAMM will continue to work directly with the utilities for larger, more complex projects.

In December 2012, RISE Engineering became the first vendor to execute the new DCAMM Utility Vendor contract.

A total of 38 sites were assigned to utility vendors in Q4 2012. DCAMM signed a contract for fifteen (15) courts with RISE Engineering (a division of Thielsch Engineering, Inc.). DCAMM anticipates signing contracts with additional utility vendors for armories and MDOT in Q1 2013.

Working Group Objectives:

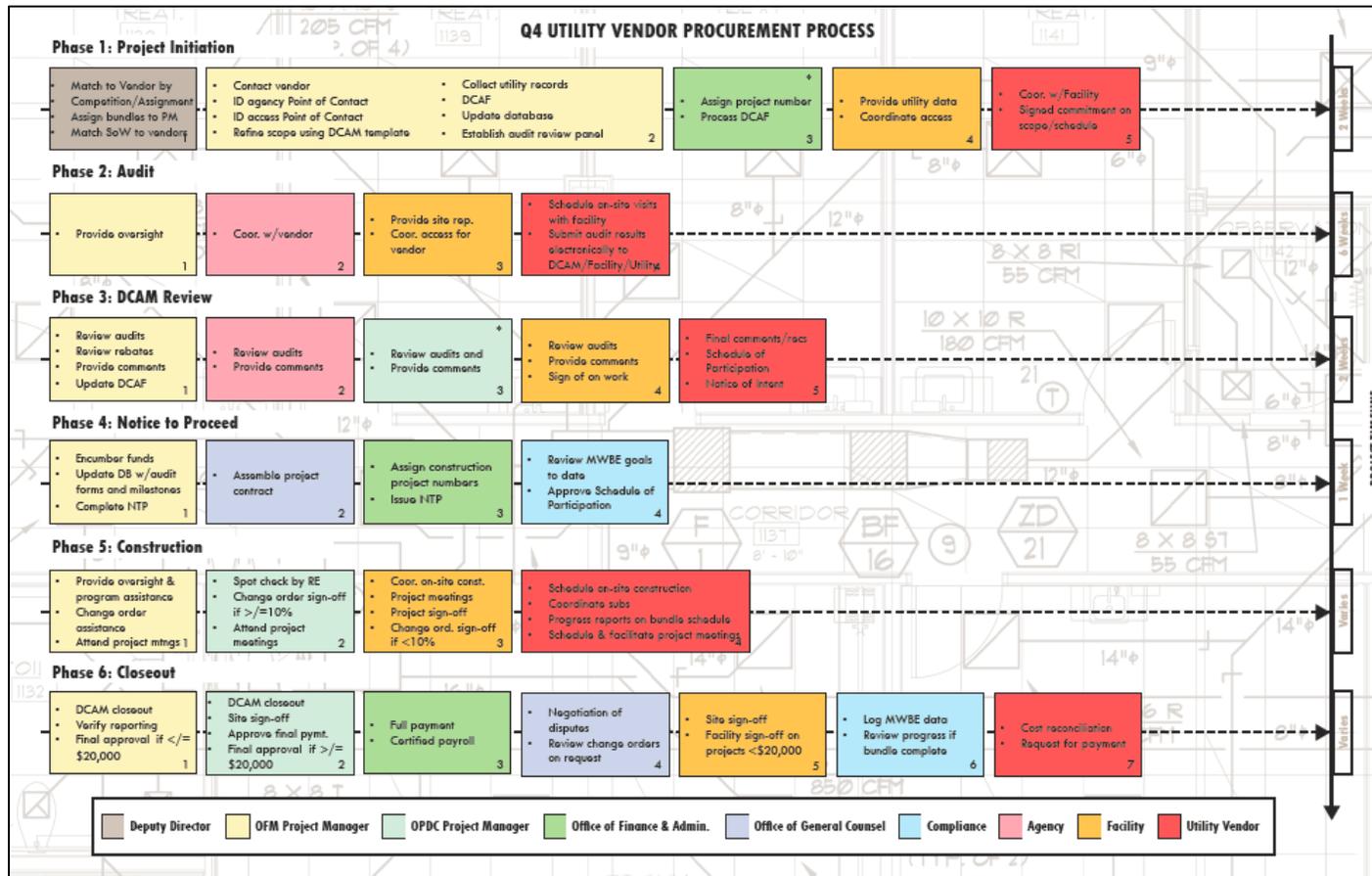
- Create new procurement processes with utilities and Job Order Contracting
- Improve existing processes using Lean
- Meet Access & Opportunity goals (M/WBE)



Deputy Commissioner Sandra Duran congratulates Thielsch's Vice-President Vin Graziano on becoming a DCAMM approved Utility vendor

Creating New Procurement Processes

The working group mapped out the new utility vendor contracting process that includes new steps and activities across all phases of the project implementation. The graphic below highlights the new utility vendor procurement process.



Meeting Access & Opportunity Goals

In Q4 2012, the working group achieved consensus and received approval from DCAMM’s Compliance office, allowing vendors to aggregate projects up to awarded contract values for a number of projects. This is particularly important for projects at smaller sites where the investment value may be as small as a few thousand dollars and the work can be accomplished in one day. Aggregation allows the vendors to utilize M/WBE resources to a greater degree and comply using a strategic approach.

“Inreach” Working Group

Issuing AEP Monthly Newsletters

In Q4 2012, the “Inreach” working group produced two newsletters which provide concise updates on the progress of the AEP. The newsletters typically contain the following highlights:

- Current project updates
- Major milestones accomplished
- Program level progress updates

Collaborating with Facility Managers

DCAMM issued a survey to facility managers to help the AEP team determine and prioritize the types of projects that are included in the AEP. The secondary purpose was to verify the information in CAMIS and update data where possible.

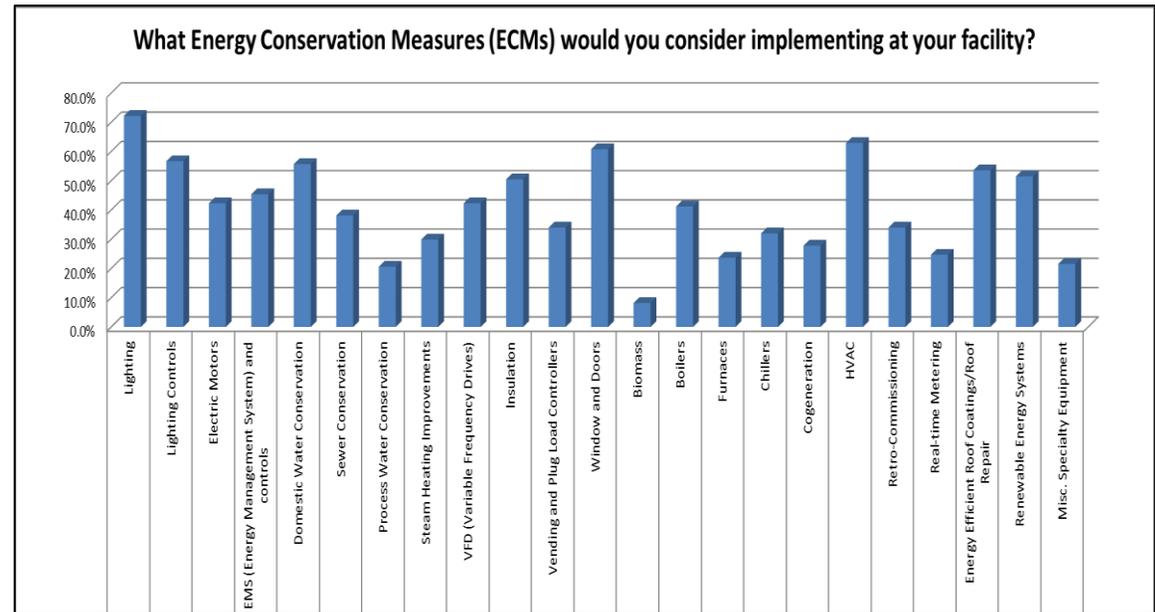
Working collaboratively with DCAMM’s IFM team, the AEP’s “Inreach” working group developed a survey that we would meet DCAMM’s data needs without putting undue demands on the facility managers’ time.

Initial results of the survey indicate that energy conservation measures (ECMs) are needed at most facilities to improve the water and energy usage and address deferred maintenance and long-term sustainability.

The “Inreach” working group will coordinate a second, more detailed survey and personal follow-up with facility managers to capture more comprehensive information about each facility. The team plans to coordinate this effort with DCAMM’s CAMIS & IFM initiatives.

Working Group Objectives:

- Develop specifications, guidelines, training through a new Resource Center
- Manage content on AEP internal website
- Deliver outreach and support



Sample of the feedback received from the survey to facility managers

Conducting Outreach Meetings

In Q4 2012, the AEP team held and participated in many outreach meetings including the following:

October

- National Grid Meeting (October 3, 2012)
- MassDOT Accelerated Bridge Program/AEP Meeting (October 10, 2012)
- Facility Advisor Drop-In Meeting (October 12, 2012)
- DCR Coordination Meeting (October 17, 2012)

November

- Leadership Steering Committee Meeting (November 2, 2012)
- Meeting at Mass Clean Energy Center (November 14, 2012)
- DCAMM / MassDOT Coordination Meeting (November 15, 2012)
- Utility Vendor Meeting with RISE Engineering (November 16, 2012)
- Utility Vendor Meeting with NXEGEN (November 26, 2012)
- Utility Vendor Meeting with Prism (November 29, 2012)
- AEP Certification Meeting (November 29, 2012)

December

- Utility/DCAMM/DOER Coordination Meeting (December 3, 2012)
- DCAMM/MassDOT Coordination Meeting (December 13, 2012)

Labor & Workforce Development Working Group

The AEP can have a positive and important impact on the labor market, and there are a number of metrics in the AEP designed to create sustainable job opportunities across the Commonwealth. The Labor & Workforce Development Working Group plans to cultivate these opportunities and address potential challenges.

In Q4 2012, the working group initiated conversations and meetings with numerous organizations and individuals including:

- Executive Office of Labor and Workforce Development
- YouthBuild Boston
- David Cedrone from Department of Higher Education – Rapid Response Grant Program
- Les Warren, Director of BHCC Workforce Development
- Mass Community College Business and Industry Directors (MassBID)
- Tamika Jacques from Mass Clean Energy Center
- Leslie Hoffman from Mass Green Initiative based out of STCC
- Kevin Doyle from the New England Clean Energy Council

In addition, the working group worked with DCAMMs Office of Compliance to develop a process for ensuring M/WBE participation goals are met on all small projects.

In Q1 2013, the working group will create and implement an AEP Workforce Development Strategy which includes the following key next steps:

- Perform a workforce needs assessment of the AEP project portfolio
- Develop a draft workforce strategy document
- Identify potential employers
- Develop a scope of work for AEP worker training and/or certification
- Work with unions to develop an approach for AEP pre-apprenticeship
- Schedule a vendor fair to introduce the AEP and elicit involvement
- Coordinate with DCAMM IFM Initiative for training facilities personnel

Working Group Objectives:

- Develop programs to assist in the development of skills for a younger population of workers aged 18-24.
- Develop an AEP Certification program.
- Partner with labor unions to develop pre-apprenticeship training programs based on existing models.



Building Codes Working Group

There are many codes and regulations that govern the retrofit of sites in the AEP. It is important for DCAMM to educate facility managers and direct contractors to adhere to all codes and regulations.

Creating a Building Codes Checklist

In Q4 2012, DCAMM staff with the assistance of the Board of Building Regulations and Standards (BBRS) completed an information resource called the “Building Codes Checklist for Small Energy Conservation Projects”. This checklist is intended to help non-code officials (facility managers and energy auditors) identify codes and regulations that will likely be encountered in the installation of energy conservation measures. The working group is in discussion about how to distribute the checklist with the next round of energy audits.

Members of the working group consulted with the Simple Fix working group to recommend adding energy conservation measures (ECMs) to the checklist. The completed list includes the recommended additions based on the experience of the first two rounds of energy audits completed at small sites by the Simple Fix group.

The completed Building Codes Checklist for Small Energy Conservation Projects will be shared with the Audits Group to assist the work of energy auditors looking for guidance for codes issues that may be encountered. In the future, the checklist will be made available as part of the Resource Center for guiding facility managers.

Working Group Objectives:

- Incorporate repairs & improvements in AEP projects
- Define relevant building code requirements
- Leverage deferred maintenance funds where appropriate.

Measures to be included in Smaller Site Audits	DCAM ECM No.	Potential Existing Conditions	Potential ECMs
Lighting		Incandescent, older fluorescent lights with manual controls	CFLs, new fluorescent technologies, LEDs, sensors,
Bulbs, Fixtures, Ballasts, Exit Signs	1.0	Incandescent, older fluorescent lights,	CFLs, new fluorescent technologies, LEDs, Sensors, Timers, etc.
Controls	2.0	Older Controls, manual switches, inoperable controls	
Motors	3.0	Standard efficiency motors	VFDs, VSDs, ECMs,
Windows	12.0	Single pane, old, cracked, inoperable	E-Star Window
Doors	12.0	Hollow or cracked, poor alignment, broken, does not fully close, inoperable	New insulated door, proper fit
Overhead door	12.0	Uninsulated, no seals, poor alignment	New insulated overhead door, new seals
Air Sealing	10.0	Drafts around windows, doors, through walls, joints, corners	Air sealing ECMs (Blower door guided air sealing, foam, seals,
Energy Management System	4.0	Inoperable or no EMS	Reprogram or Install EMS
Toilets & Urinals	5.0	Standard, large volume flush toilets and urinals	Low-flow toilets and urinals
Faucets	5.0	Older, standard faucets with no flow restrictors	Faucet aerators, actuated faucets, flow restrictors
Showers	5.0	Standard, older showerheads	Low-flow shower heads
Commercial Kitchen Pre-rinse Spray Valves	5.0	Standard, >2 gpm pre-rinse spray valves	Low-flow pre-rinse spray valves
Thermostats	4.0	Manual or older mechanical thermostats	Programmable thermostats
Boiler Reset Control	4.0	Reset control not functioning or does not exist	Boiler Reset Control
Water Heater	5.0	Stand alone tank type or "everhot"	Indirect tank or on-demand
Heating Systems		Oil	Convert to natural gas or pellet
Boilers	14.0	Standard efficiency forced hot water or steam	Appropriately sized, condensing (FHW only) or new steam
Furnaces	17.0	Standard efficiency	Condensing furnace with Electronically commutated motor
Unit Heaters	17.0	Standard efficiency or steam	Condensing Unit Heater or Infrared tube
Other	17.0		Heat pumps
Cooling Systems			
Rooftop	17.0	Standard efficiency rooftop unit	High SEER rooftop unit
Window	17.0	Standard efficiency or older unit	E-Star rated unit
Pipe Insulation			
Water heater	10.0	Broken or no insulation on hot water	Pipe Insulation
Heating distribution	10.0	Broken or no insulation on steam or water distribution pipes	Pipe Insulation

List of DCAMM's ECMs and Potential Existing Conditions from the Building Codes Checklist

Data & Performance Management Working Group

In Q4 2012, the data and performance management working group played an integral role in the refinement of the AEP implementation plans as well as the development of data and reporting tools.

The following represent some of the working group's notable accomplishments:

- Refined the Program Definition
- Created spending plan and encumbrance
- Developed monthly reports and updates
- Developed initial dashboard application plan

Development of the AEP Spending Plan

AEP retrofits will be funded by a combination of CEIP Bonds, G.O. Bonds, utility rebates and other funding sources. In addition, there are multiple G.O. Bonds specific to executive offices and agencies.

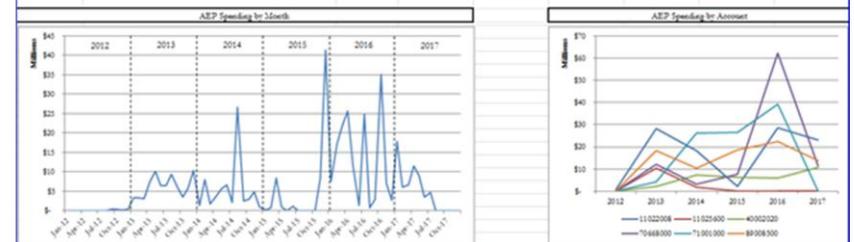
DCAMM developed a projected spending plan for the retrofit of all sites in the AEP that is based on actual or projected milestones in an implementation schedule. DCAMM then integrated these plans with the funding sources to assess viability of the plan and identify any shortfalls in funding.

Based on this interactive spending plan tool, DCAMM updated the phasing of the sites to accommodate funding source constraints to better phase the program.

Working Group Objectives:

- Plan and prioritize projects
- Manage data for all WGs
- Establish QA/QC & project controls
- Conduct performance management, tracking and reporting

	10/8/12	11/8/12	12/8/12	1/8/13	2/8/13	3/8/13	4/8/13	5/8/13	6/8/13	7/8/13	8/8/13	9/8/13	10/8/13	11/8/13	12/8/13
SPRINGFIELD TECHNICAL COLLEAGNY COLLEGE	\$ 10,871,200	\$ -	\$ 1,097,120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WELLSFILD STATE COLLEGE	\$ 3,207,148	\$ -	\$ -	\$ 820,733	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WORCESTER STATE COLLEGE	\$ 4,516,624	\$ -	\$ 651,662	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Higher Education Total	\$ 96,738,828	\$ -	\$ 12,046,968	\$ 3,248,929	\$ 7,749,414	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Judicial															
TRIAL COURT	\$ 12,334,679	\$ -	\$ 273,434	\$ 10,314,718	\$ 1,748,548	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Judicial Total	\$ 12,334,679	\$ 273,434	\$ 10,314,718	\$ 1,748,548	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Safety															
CRIMINAL JUSTICE TRAINING COUNCIL	\$ 177,209	\$ -	\$ -	\$ 377,508	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DEPARTMENT OF CORRECTIONS	\$ 41,040,374	\$ -	\$ 3,227,541	\$ 2,366,841	\$ 15,886,718	\$ 6,994,781	\$ 12,583,134	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DEPARTMENT OF FIRE SERVICES	\$ 477,442	\$ -	\$ 477,442	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DEPARTMENT OF STATE POLICE	\$ 2,446,312	\$ 210,273	\$ 2,435,938	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EMERGENCY MANAGEMENT AGENCY	\$ 210,792	\$ -	\$ 210,792	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MILITARY DIVISION	\$ 3,332,253	\$ 6,113	\$ 3,326,140	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OFFICE OF THE CHIEF MEDICAL EXAMINER	\$ 178,567	\$ -	\$ 178,567	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
REGISTRY OF MOTOR VEHICLES	\$ 197,042	\$ -	\$ 197,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Safety Total	\$ 48,269,895	\$ 256,486	\$ 10,230,974	\$ 2,366,941	\$ 11,886,778	\$ 6,994,781	\$ 12,583,134	\$ -							
Health															
SHERIFFS DEPARTMENT BARNSTABLE	\$ 1,045,236	\$ -	\$ 1,045,236	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT BERKSHIRE	\$ 2,703,198	\$ -	\$ 133,160	\$ 133,160	\$ -	\$ 1,216,430	\$ 1,216,430	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT BRISTOL	\$ 5,445,262	\$ -	\$ 226,681	\$ 5,218,701	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT DUNES	\$ 26,860	\$ -	\$ 26,860	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT ESSEX	\$ 3,054,577	\$ -	\$ 79,000	\$ 2,263,575	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT FRANKLIN	\$ 1,251,007	\$ -	\$ -	\$ 125,101	\$ 1,125,906	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT HALDORN	\$ 381,679	\$ -	\$ 381,679	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT MIDDLESEX	\$ 2,012,400	\$ -	\$ 648,244	\$ -	\$ -	\$ 1,364,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT NORFOLK	\$ 1,669,774	\$ -	\$ 23,899	\$ 163,728	\$ 1,473,549	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT PLYMOUTH	\$ 7,840,546	\$ -	\$ 966,348	\$ -	\$ -	\$ 6,874,399	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT SUFFOLK	\$ 6,821,536	\$ -	\$ 678,770	\$ 34,232	\$ -	\$ 6,108,934	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SHERIFFS DEPARTMENT WORCESTER	\$ 10,023,200	\$ -	\$ 10,023,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sheriffs Total	\$ 42,277,061	\$ -	\$ 14,901,684	\$ 7,942,495	\$ 2,399,435	\$ 11,544,327	\$ 1,216,430	\$ -							
UMASS															
UNIVERSITY OF MASSACHUSETTS AT ANDOVER	\$ 22,237,131	\$ 10,423	\$ 99,634	\$ 22,828,472	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UNIVERSITY OF MASSACHUSETTS AT BOSTON	\$ 20,744,312	\$ -	\$ 7,774	\$ 3,091,631	\$ -	\$ 27,690,927	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UNIVERSITY OF MASSACHUSETTS AT LOWELL	\$ 29,374,004	\$ -	\$ 2,863,940	\$ 234,606	\$ 26,675,458	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	\$ 12,949,732	\$ -	\$ 5,284,973	\$ -	\$ -	\$ 11,654,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UMASS Total	\$ 96,333,199	\$ 10,423	\$ 4,339,323	\$ 26,134,709	\$ 26,675,458	\$ 29,331,686	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grand Total	\$ 422,617,279	\$ 1,054,468	\$ 71,379,806	\$ 66,949,647	\$ 41,364,191	\$ 118,626,330	\$ 19,079,807	\$ -							



The AEP Spending Plan addresses availability of funding to help prioritize and phase implementation of retrofits.

Leasing Working Group

Identification of Leased Spaces

In Q4 2012, the leasing working group identified all leased spaces in privately owned sites and is currently developing a prioritization strategy for ECM implementation in leased spaces. This is beyond the 700 sites in the AEP.

Preliminary review indicates that the majority of the sites are in use by the following agencies:

- Trial Courts – 370,351 Sq. Ft.
- Department of Children & Families – 215,733 Sq. Ft.
- Department of Public Health – 186,749 Sq. Ft.

Prioritization of Leased Spaces

In 2013, the working group will prioritize sites that pay their own utility bills in leased spaces larger than 15,000 square feet and have a substantial amount of time remaining on the term of the lease.

Working Group Objectives:

- Develop plan to retrofit leased space in buildings and third-party facilities being leased by state agencies



DEP Boston leased space

Quarterly Report Q4 2012

Appendix A

Performance Metrics

(as of December 30, 2012)

Performance Metrics

Goal	Metrics	Target	Q4 Actuals*
Accelerate delivery of energy projects to 3 years and maximize energy and water conservation.	Sites In Construction + Construction Complete (Total #)	700	32
	<i>Large Sites (over 100,000 Sq. Ft.) In Construction + Complete</i>	79	5
	<i>Small Sites (under 100,000 Sq. Ft.) In Construction + Complete</i>	373	17
	<i>Occasional Use Sites In Construction + Complete</i>	214	10
	<i>Evaluated N/A Sites</i>	34	34
	Energy Projects Completed (Total #) by Agency, Utility & DCAM		
	<i>Energy Studies Initiated</i>		172
	<i>Energy Assessments (Audits) Completed</i>		113
	<i>Energy Installation Initiated</i>		32
	<i>Energy Installation Complete</i>		12
	Investment in Energy Projects (Total \$)	\$427M	\$269M committed**
	Annual Energy & Water Savings (Total \$)	> \$43M	\$23M audited**
	Average Payback on Total Investment	≤ 10 Years	~ 11 Years
Communicate progress and encourage full participation.	Public Website with Quarterly Updates	Quarterly	Updated
	Total # of Unique Visitors per Month (Public Website)		
Create clean energy job opportunities across the Commonwealth.	Workforce / Jobs Created (Total)		TBD
	- <i>AEP Certified Laborers (Total #)</i>		
	- <i>Voc Tech School / Community College Jobs Created (Total #)</i>		
	Workforce / Jobs Created		TBD
	- <i>Minorities</i>	15.3%	
	- <i>Women</i>	6.9%	
M/WBE Participation (Project Commitment / Awards)			TBD
	- <i>Design Contracts</i>	17.9%	
	- <i>Construction Contracts</i>	10.4%	

LBE Target



*Q4 actuals represent complete sites.

**Based on investment at 204 sites initiated or completed

Quarterly Report Q4 2012

Appendix B

Initiated and AEP Complete Sites

(as of December 30, 2012)

Initiated and AEP Complete Sites

Complete 
On Hold 

Completed this Quarter 
Planned next Quarter 

Site Information				AEP Program Status												
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End	
AEP Complete				Total 32												
A&F and Misc.	Bureau of State House	BOSTON	STATE HOUSE	DCAMM	State House Lighting Upgrades	Dagle	●	●	●	●	●	●	●	●	○	
	Div. of Employment and Training	TAUNTON	JOB CENTER - TAUNTON	DCAMM	Retrocommissioning of the BAS at the Taunton Career Center.	EE&D	●	●	●	●	●	●	●	●	○	
Energy & Environmental Affairs	Dep. Of Conservation & Recreation	BOSTON	RINK/CHARLESTOWN MEMORIAL	DOER	Ceiling Upgrades	NStar	●	●	●	●	●	●	●	●	●	
		BOSTON	RINK/DEVINE MEMORIAL				●	●	●	●	●	●	●	●		
		BOSTON	RINK/BAJKO MEMORIAL				●	●	●	●	●	●	●	●		
		BOSTON	MARINE PARK RESERVATION				●	●	●	●	●	●	●	●		
		WEYMOUTH	POOL & RINK/CONNELL MEMORIAL				●	●	●	●	●	●	●	●		
		CONCORD	WALDEN POND STATE RESERVATION	DCR	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	EE&D	●	●	●	●	●	●	●	●	●	
		HULL	NANTASKET BEACH RESERVATION				●	●	●	●	●	●	●	●		
		HINGHAM	WOMPATUCK STATE PARK				●	●	●	●	●	●	●	●		
HOLYOKE	MOUNT TOM RESERVATION	●	●	●	●	●	●	●	●	●						
TEMPLETON	OTTER RIVER STATE FOREST	●	●	●	●	●	●	●	●	●						
Health and Human Services	Department of Mental Health	TAUNTON	DYS - TAUNTON	DCAMM	Lighting Controls, Motors, Mech Water, Sewer, Steam, VFD Fans and Pumps, Insulation, Weatherstripping, HVAC, Kitchen Hood Controls, Metering Audit	EE&D	●	●	●	●	●	●	●	○		
Higher Education	Northern Essex Community College	HAVERHILL	N ESSEX COMM COLLEGE-HAVERHILL	DCAMM	Equipment Design Build Energy/Water Savings Performance Contract Project for campus wide retrofit including 8 buildings- electric to gas heat conversion, EMS upgrades, HW Boiler replacement, and other energy efficiency measures.	Enterprise Equipment Company, Inc.	●	●	●	●	●	●	●	●	●	
		LAWRENCE	N ESSEX COMM COLLEGE-LAWRENCE				●	●	●	●	●	●	●	●	●	
	Middlesex Community College	BEDFORD	MIDDLESEX COMMUNITY COLLEGE	DCAMM	Feasibility study and development of a GSHP system.	Coneco	●	●	●	●	●	●	●	●	●	
		AMHERST	UMASS - AMHERST	DCAMM	Lighting upgrades and controls, fume hood controls, chiller optimization, CHP optimization.	Thielsch Engineering	●	●	●	●	●	●	●	●	○	

Site Information				AEP Program Status											
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End
AEP Complete				Total		32									
Judiciary	Trial Courts	CHICOPEE	CHICOPEE DISTRICT COURT	DCAMM	Western Trial Courts. ECMs include lighting replacement, lighting occupancy sensors, EMS, domestic water conservation, VFDs, vending meters replacing boilers at Hampshire County Courthouse, Holyoke District Courthouse, and Chicopee District Court, new boiler controls at Palmer District Court, replacing the chiller at Hampshire County Court, and upgrading the existing chiller at Springfield HOJ.	B-G Mechanical	●	●	●	●	●	●	●	●	○
		HOLYOKE	HOLYOKE COURTHOUSE												
		PAXTON	PALMER DISTRICT COURT												
		NORTHAMPTON	HAMPSHIRE COUNTY COURT												
		SPRINGFIELD	SPRINGFIELD HOUSING/JUVENILE COURTS												
		PITTSFIELD	PITTSFIELD DISTRICT												
		PITTSFIELD	PITTSFIELD SUPERIOR												
		PITTSFIELD	PITTSFIELD PROBATE AND FAMILY												
		SPRINGFIELD	SPRINGFIELD COURT COMPLEX												
		BOSTON	DORCHESTER DISTRICT COURT				DOER	Indoor Lighting	Nstar	●	●	●	●	●	●
FRAMINGHAM	FRAMINGHAM DISTRICT COURT														
SOMERVILLE	SOMERVILLE DISTRICT COURT														
WALTHAM	WALTHAM DISTRICT COURT														
WOBURN	WOBURN DISTRICT COURT														
Public Safety	Dep. Of State Police	MILTON	MILTON POLICE BARRACKS				●	●	●	●	●	●	●	●	

Complete 
On Hold 

Completed this Quarter 
Planned next Quarter 

Site Information				AEP Program Status											
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End
Initiated Sites				Total 172											
A&F and Misc.	Bureau of State Buildings	BOSTON	HURLEY BUILDING	DCAMM	Study of fire protection combined with energy improvements; emphasis on upgrading implementation plan by expanding swing space options to reduce number of temporary moves.	TBD	●	●	●	●	●	●			
		BOSTON	MCCORMACK BUILDING	DCAMM	Energy and Water Conservation Measures	Kling Stubbins	●	●	●	●	●	●	○		
		BOSTON	LINDEMANN BUILDING												
		PITTSFIELD	PITTSFIELD STATE OFFICE SITE	OPDC	HVAC and general building conditions improvements.	ARUP	●	●	●	●					
	Capital Asset Management and Maintenance	BOSTON	STATE TRANSPORTATION BUILDING	DCAMM	Feasibility Study: Comprehensive Energy and Water Upgrades	ARUP	●	●	●	●	○				
		SPRINGFIELD	SPRINGFIELD STATE OFFICE DWIGHT ST	DCAMM	Deferred Maintenance and some ECMs. Managed by OPDC and assisted by E-team.	ARUP	●	●	●	○	○	○			
Energy & Environmental Affairs	Dep. Of Conservation & Recreation	WORCESTER	BENNETT FIELD POOL	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	EE&D	●	●	●	●	●	○	○	○	
		CLINTON	CLINTON POOL												
		FTTCHBURG	FTTCHBURG POOL												
		GARDNER	GARDNER SKATING RINK												
		LEOMINSTER	LEOMINSTER STATE POOL												
		MILFORD	SENATOR P. EUGENE CASEY STATE POOL												
		SOUTHBRIDGE	PETRO MEMORIAL POOL												
		WORCESTER	VERNON HILL PLAYGROUND/POOL-												
		WORCESTER	WORCESTER RINK												
		GARDNER	GARDNER HERITAGE STATE PARK												
		WINCHENDON	LAKE DENNISON RECREATION AREA												
		WESTMINSTER	LEOMINSTER STATE FOREST												
		HUBBARDSTON	WARE RIVER WATERSHED												
		CLINTON	WACHUSETT RESVR WATERSHED												
		CLINTON	WACHUSETT RESERVOIR WATERSHED												
		PAXTON	MOORE STATE PARK												
		CLINTON	REGIONAL HEADQUARTERS												
		RUTLAND	RUTLAND STATE PARK												
	PRINCETON	WESTMINSTER STATE FOREST													
	PRINCETON	MOUNT WACHUSETT RESERVATION													
	ASHBY	WILLARD BROOK STATE FOREST													
	Fisheries Wildlife & Environmental Law Enforcement	AYER	AYER GAME FARM				●	●	●	○	○	○			

Site Information				AEP Program Status											
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End
Initiated Sites				Total 172											
Energy & Environmental Affairs	Dep. Of Conservation & Recreation	UXBRIDGE	BLACKSTONE HERITAGE STATE PARK	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	TRC	●	●	●	●	●	○	○	○	
		DOUGLAS	DOUGLAS STATE FOREST												
		SUTTON	PURGATORY CHASM STATE RESERVATION												
		WORCESTER	QUINSIGAMOND STATE PARK												
		SPENCER	SPENCER STATE FOREST												
		UPTON	UPTON STATE FOREST												
		STURBRIDGE	WELLS STATE PARK												
		LAWRENCE	LAWRENCE POOL												
		LAWRENCE	HIGGINS POOL												
		HAVERHILL	VETS MEMORIAL SKATING RINK-HAVERHIL												
		LYNN	RINK/WILLIAM CONNERY MEMORIAL												
		NEWBURYPORT	HENRY GRAF SKATING RINK												
		PEABODY	SKATING RINK - PEABODY												
		ROCKPORT	HALIBUT POINT STATE RESERVATION												
	REVERE	MDC MYSTIC DIST/BAIT SHOP													
Energy & Environmental Affairs	Dep. of Conservation & Recreation	NAHANT	LYNN/NAHANT BEACH	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	EE&D	●	●	●	●	●	○	○	○	
		REVERE	REVERE BEACH RESERVATION												
		SAUGUS	BREAKHEART RESERVATION												
		HAMILTON	BRADLEY PALMER STATE PARK-TOPSFIELD												
		GLOUCESTER	ANNISQUAM RIVER MARINE FISHERY STN												
		AGAWAM	AGAWAM STATE POOL- AGAWAM												
		CHICOPEE	SARAH JANE MEMORIAL POOL												
		GREENFIELD	COLLINS-MOYLAN RINK												
		HOLYOKE	RINK/HENRY J FITZPATRICK												
		LUDLOW	JOHN THOMPSON POOL												
		NORTH ADAMS	VIETNAM MEMORIAL SKATING RINK												
		SPRINGFIELD	THOMAS MEMORIAL SWIM POOL-SPRINGFIE												
		SPRINGFIELD	SMEAD SKATING RINK - SPRINGFIELD												
		SOUTH HADLEY	BUTTERY BROOK MEMORIAL POOL												
	METHUEN	GREYCOURT STATE PARK													
Energy & Environmental Affairs	Dep. of Conservation & Recreation	NORTH ANDOVER	HAROLD PARKER STATE FOREST	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	Source One	●	●	●	●	●	○	○	○	
		LAWRENCE	LAWRENCE HERITAGE STATE PARK												
		NEWBURYPORT	MAUDSLAY STATE PARK												
		SALISBURY	SALISBURY BEACH STATE RESERVATION												
		IPSWICH	WILLOWDALE STATE FOREST												
		NEWBURYPORT	PLUM ISLAND FISHERY												

Site Information				AEP Program Status											
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End
Initiated Sites				Total 172											
Energy & Environmental Affairs	Dep. of Conservation & Recreation	BRIMFIELD	BRIMFIELD STATE FOREST	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	Nxegen	●	●	●	●	●	○	○	○	
		CHESTER	CHESTER/BLANDFORD STATE FOREST												
		CHICOPEE	CHICOPEE STATE PARK												
		CHICOPEE	CONNECTICUT GREENWAY STATE PARK												
		WESTFIELD	HAMPTON PONDS STATE PARK												
		HOLYOKE	HOLYOKE HERITAGE STATE PARK												
		SPRINGFIELD	LAKE LORRAINE STATE PARK												
	AGAWAM	ROBINSON STATE PARK - AGAWAM													
	Dep. of Food & Agriculture Fisheries Wildlife & Environmental Law Enforcement	WEST SPRINGFIELD	EASTERN STATES EXPOSITION GROUNDS												
Energy & Environmental Affairs	Dep. of Conservation & Recreation	REVERE	RINK/PAUL CRONIN MEMORIAL	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	Sebesta	●	●	●	●	●	○	○	○	
		NAHANT	NAHANT DIVISION MAINT FACILITY	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	EE&D	●	●	●	●	●	○	○	○	
		REVERE	ELIOT HOUSE												
		REVERE	REVERE DIVISION MAINT FACILITY												
	Dep. of Environmental Protection Fisheries Wildlife & Environmental Law Enforcement	SPRINGFIELD	STATE MATERIAL RECOVERY FACILITY	DCAMM	Lighting, lighting and HVAC controls, water conservation, and door and window weatherization.	Nxegen	●	●	●	●	●	○	○	○	
		NEW BRAINTREE	WMA WINNIMUSETT												
Health and Human Services	Dep. Of Public Health	BOSTON	LEMUEL SHATTUCK HOSPITAL	DCAMM	Retrocommissioning, lighting, water, EMS, solar thermal and mechanical upgrades.	Nxegen	●	●	●	●	○	○			
		WESTFIELD	WESTERN MASS HOSPITAL - WESTFIELD												
Health and Human Services	Dep. Of Youth Services	WESTBOROUGH	CTRL YOUTH SERVICE CTR-WESTBOROUGH	DCAMM	Investigation of the function of the HVAC, EMS, and Lighting systems, implementation of operational upgrades by the facility, and recommendation of quick payback ECMs for the implementation phase.	TBD	●	●	○	○					
Health and Hum	Dep. of Developmental Services	TEMPLETON	TEMPLETON DEVELOPMENTAL CENTER	DCAMM	MET TOWER: Wind Energy Feasibility Study	UMASS CEERE	●	●	●	●					

Site Information				AEP Program Status												
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End	
Initiated Sites				Total 172												
Higher Education	Bristol Community College	FALL RIVER	BRISTOL COMMUNITY COLLEGE	DCAMM	Wind turbine installation, commissioning, and maintenance.	Architectural Engineers	●	●	●	●	●	●	○			
	UMASS	LOWELL	UMASS - LOWELL- LOWELL	DCAMM	Campus wide Energy & Water improvement project.	RMF Engineering	●	●	●	●	○					
	Springfield Tech Community College	SPRINGFIELD	SPRINGFIELD TECH COMMUNITY COLLEGE	DCAMM	Energy Design Build project to decentralize the central boiler plant system and redesign the central plant chiller system. ECMs include VFDs, controllers, new boilers, chillers, and cooling tower.	TBD	●	●	●	●	●	●	○			
	Massachusetts College of Liberal Arts	NORTH ADAMS	MASS COLLEGE OF LIBERAL ARTS	DCAMM	Lighting, HVAC, steam system improvements, biomass, PV.	ARUP	●	●	●	●	○					
	Holyoke Community College	HOLYOKE	HOLYOKE COMMUNITY COLLEGE	DCAMM	Energy study to identify energy and water conservation measures and energy generation projects utilizing solar and wind power.	TBD	●	●	○							
Health and Human Services	Dep. of Public Health	CANTON	MASS HOSPITAL SCHOOL	DCAMM	Solar Thermal Pool Installations at Satewide Facilities	ARUP	●	●	●	●						
Higher Education	Bridgewater State University	ATTLEBORO	BRIDGEWATER STATE UNIVERSITY													
	Fitchburg State College	FITCHBURG	FITCHBURG STATE UNIVERSITY													
	Mass Maritime Academy	BOURNE	MASSACHUSETTS MARITIME ACADEMY													
	Mt. Wachusett Community College	GARDNER	MOUNT WACHUSETT COMMUNITY COLLEGE													
UMASS	UMASS-Boston UMASS-Medical School	BOSTON BOSTON	UMASS - BOSTON UMASS MEDICAL CENTER-JAMPL	DCAMM	ECMs included: 1.1 (Lighting), 1.2 (Lighting Controls), 4 (EMS Upgrade), 4.11 (Energy Recovery System), 5 (Efficient Plumbing Fixtures), 9 (Replace hot water pumps), 12.4 (apply window film), 14.2 (Boiler Replacement Option C), 16 (CHP), 17 (Replace AHU coils with 2 way valves), 17.8 (Replace 220 VAV Boxes)	TBD	●	●	●	●						

Site Information				AEP Program Status											
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End
Initiated Sites				Total 172											
Higher Education	Salem State University	SALEM	SALEM STATE UNIVERSITY	DCAMM	Comprehensive energy performance contract with Meier Hall lighting fully specified in the RFP and other suggested ECMs to be audited upon award including lighting, EMS, and water conservation.	Constellation New Energy	●	●	●	●	●	●	○	○	
Judiciary	Trial Court	AYER CLINTON CONCORD DUDLEY EAST BROOKFIELD FITCHBURG FITCHBURG GARDNER GREENFIELD LYNN MALDEN MARLBOROUGH MILFORD UXBRIDGE WESTBOROUGH	AYER DISTRICT COURT CLINTON DISTRICT COURT DISTRICT COURT MIDDLESEX DIVISION DUDLEY DISTRICT COURT EAST BROOKFIELD DISTRICT COURT FITCHBURG DISTRICT COURT FITCHBURG PROBATE/FAMILY/HOUSING COURT GARDNER DISTRICT COURT GREENFIELD COURTHOUSE LYNN DISTRICT COURT MALDEN DISTRICT COURT MARLBOROUGH DISTRICT COURT MILFORD DISTRICT COURT UXBRIDGE DISTRICT COURT WESTBOROUGH DISTRICT COURT	DCAMM	The utility contractor will perform an energy audit and recommend energy and water conservation measures.	RISE	●	●	○	○	○	○			
Judiciary	Trial Court	WORCESTER	WORCESTER COURTHOUSES	DCAMM	Investigation of the function of the HVAC, EMS, and Lighting systems, implementation of operational upgrades by the facility, and recommendation of quick payback ECMs for the implementation phase.	Strategic Building Solutions	●	●	●	●	●	●			

Site Information				AEP Program Status											
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End
Initiated Sites				Total 172											
Public Safety	Military Division	BOURNE	ARMORY - BOURNE	DCAMM	The utility contractor will perform an energy audit and recommend energy and water conservation measures.	Nxegen	●	●	○	○	○	○			
		BRAINTREE	ARMORY - BRAINTREE												
		CAMBRIDGE	ARMORY - CAMBRIDGE												
		FRAMINGHAM	ARMORY - FRAMINGHAM												
		HINGHAM	ARMORY - HINGHAM												
		LEXINGTON	ARMORY - LEXINGTON												
		MIDDLEBOROUGH	ARMORY - MIDDLEBOROUGH												
		NATICK	MASS NATIONAL GUARD SUPPLY DEPOT												
		NEWTON	ARMORY - NEWTON												
		QUINCY	ARMORY - QUINCY												
		SANDWICH	CAMP EDWARDS - OTIS ANGB												
		BOSTON	ARMORY - DORCHESTER												
		AYER	ARMORY - AYER	DCAMM	The utility contractor will perform an energy audit and recommend energy and water conservation measures.	Prism	●	●	○	○	○	○			
		DANVERS	ARMORY - DANVERS												
		GARDNER	ARMORY - GARDNER												
		HUDSON	ARMORY - HUDSON												
		LEOMINSTER	ARMORY - LEOMINSTER												
		LYNN	ARMORY - LYNN												
		MELROSE	ARMORY - MELROSE												
		METHUEN	ARMORY - METHUEN												
NEWBURYPORT	ARMORY - NEWBURYPORT														
NORTHBRIDGE	ARMORY - NORTHBRIDGE														
WARE	ARMORY - WARE														
Public Safety	Dep. Of Corrections	GARDNER	NORTH CENTRAL CORRECTIONAL INSTITUT	DCAMM	Replace high pressure steam oil boilers with low pressure steam natural gas boilers and modify the steam distribution system as necessary. Convert steam dryers to natural gas. Install attic insulation in 16 buildings. Install water conservation fixtures. Upgrade windows at Thompson Hall.	Kling Stubbins	●	●	●	●	●	●	○		
		FRAMINGHAM	MCI - FRAMINGHAM	DCAMM	Comprehensive energy project includes rebuilding a new power plant.	TBD	●	●	○						
		FRAMINGHAM	SOUTH MIDDLESEX CORRECTIONAL												

Site Information				AEP Program Status												
Program Area	Agency	City	Site Name	Leading Org.	Project Description	Active Consultant / Contractor	Site(s) Selected / Facility Engaged	Funding Approved	Scope of Work Issued for Audit	Audit Underway	Audit Complete	Final Audit Reports Received	Construction Contract Signed / Final Design Start	Construction Start	Construction End	
Initiated Sites				Total 172												
Public Safety	Dep. Of State Police	BOSTON	S. BOSTON STATE POLICE- 125 WJD	DCAMM	Lighting, occupancy controls, EMS, boilers and water conservation.	Constellation New Energy	●	●	●	●	●	○	○	○		
		DANVERS	DANVERS STATE POLICE BARRACKS													
		MEDFORD	MEDFORD STATE POLICE BARRACKS													
		BOSTON	SPECIAL OPERATIONS MARINE DIVISION													
		ANDOVER	ANDOVER STATE POLICE BARRACKS													
		ATHOL	ATHOL STATE POLICE BARRACKS													
		BOURNE	BOURNE STATE POLICE BARRACKS													
		BROOKFIELD	BROOKFIELD STATE POLICE TROOP C													
		CHESHIRE	CHESHIRE STATE POLICE STATION													
		CONCORD	CONCORD STATE POLICE BARRACKS													
		FOXBOROUGH	FOXBOROUGH STATE POLICE BARRACKS													
		HOLDEN	HOLDEN STATE POLICE TROOP C													
		LEE	LEE STATE POLICE BARRACKS													
		LEOMINSTER	LEOMINSTER STATE POLICE BARRACKS													
		MIDDLEBOROUGH	MIDDLEBORO STATE POLICE BARRACKS													
		NEWBURY	NEWBURY STATE POLICE STATION													
		NORTHAMPTON	NORTHAMPTON STATE POLICE BARRACKS													
		NORWELL	NORWELL STATE POLICE BARRACKS													
		OAK BLUFFS	OAK BLUFFS STATE POLICE BARRACKS													
		RUSSELL	RUSSELL STATE POLICE BARRACKS													
SHELBURNE	SHELBURNE STATE POLICE BARRACKS															
SPRINGFIELD	SPRINGFIELD STATE POLICE BARRACKS															
STURBRIDGE	STURBRIDGE STATE POLICE BARRACKS															
SUDBURY	STATE POLICE CRIME LAB															
YARMOUTH	YARMOUTH STATE POLICE BARRACKS															
REVERE	REVERE STATE POLICE BARRACKS															
Sheriffs	Sheriff's Department Berkshire	PITTSFIELD	SHERIFF'S DEPT-BERKSHIRE-NEW	DCAMM	Energy study looking at multiple ECMs including a ground mounted solar PV system.	Bales Energy Associates	●	●	●	●	●	○				
	Sheriff's Department Essex	LAWRENCE	SHERIFF'S DEPT-ESSEX-LCAC	DCAMM	Retro-Commissioning Project at Sheriff Dept. Essex.		●	●	●	●	○	○				
		SALISBURY	SHERIFF'S DEPT-ESSEX-SALISBURY													
	Sheriff's Department Middlesex	BILLERICA	SHERIFF'S DEPT-MIDDLESEX-BILLERICA	DCAMM	Energy and water conservation retrofit project including lighting, hvac, and water controls.	TRC	●	●	●	●	○	○	○			
	Sheriff's Department Plymouth	PLYMOUTH	SHERIFF'S DEPT-PLYMOUTH-MAIN	DCAMM	Wind, water, and other energy conservation measures.	TRC	●	●	●	●	●	○				
	Sheriff's Department Suffolk	BOSTON	SHERIFF'S DEPT-SUFFOLK-COUNTY JAIL	DOER	Energy and Water Conservation Measures	TBD	●	●	●	●	●	●	●	●	○	
Sheriff's Dep. Of Worcester		WEST BOYLSTON	SHERIFF'S DEPT-WORCESTER-W BOYLSTON	DCAMM	Wind Feasibility Study	Architectural Engineers	●	●	●	●	○					

Quarterly Report Q4 2012

Appendix C

Financial Management

(as of December 30, 2012)

Financial Management

The following table provides a schedule of AEP spending by funding source. The current AEP cost estimate of \$422,057,229 is a combination of known costs for projects in progress or completed and estimate projections for future projects. The cost estimate and the remaining contingency will change as projections are replaced by known costs.

In Construction / Construction Complete	Total Project Cost	FY12	FY13	FY14	FY15	FY16	FY17
CEIP Funds	\$ 22,085,396	\$ 223,763	\$ 4,046,608	\$ 688,400	\$ 3,064,626	\$ 10,811,856	\$ 3,250,143
GO Bond Funds	\$ 3,738,808	\$ 6,447	\$ 425,456	\$ -	\$ 2,104,676	\$ 1,202,229	\$ -
Utility Rebates	\$ 4,104,647	\$ 140,784	\$ 1,542,070	\$ 76,489	\$ 614,367	\$ 1,369,810	\$ 361,127
Other Funding Sources	\$ 916,351	\$ 16,724	\$ 225,426	\$ -	\$ 360,000	\$ 314,202	\$ -
Subtotal In Construction / Const. Complete	\$ 30,845,202	\$ 387,718	\$ 6,239,560	\$ 764,889	\$ 6,143,669	\$ 13,698,096	\$ 3,611,270

Initiated	Total Project Cost	FY12	FY13	FY14	FY15	FY16	FY17
CEIP Funds	\$ 145,360,420	\$ 185,485	\$ 18,820,827	\$ 27,100,489	\$ 31,606,253	\$ 57,578,042	\$ 10,069,324
GO Bond Funds	\$ 66,608,927	\$ 159,800	\$ 19,084,802	\$ 3,311,120	\$ 8,453,829	\$ 31,810,487	\$ 3,788,889
Utility Rebates	\$ 28,307,412	\$ 216,638	\$ 9,307,046	\$ 3,327,236	\$ 3,984,631	\$ 9,932,059	\$ 1,539,801
Other Funding Sources	\$ 235,343	\$ 23,534	\$ 211,809	\$ -	\$ -	\$ -	\$ -
Subtotal Initiated	\$ 240,512,103	\$ 585,458	\$ 47,424,484	\$ 33,738,845	\$ 44,044,714	\$ 99,320,588	\$ 15,398,014

Remaining	Total Project Cost	FY12	FY13	FY14	FY15	FY16	FY17
CEIP Funds	\$ 95,397,788	\$ 56,254	\$ 14,330,030	\$ 20,023,189	\$ 6,917,007	\$ 32,311,812	\$ 21,759,497
GO Bond Funds	\$ 32,120,962	\$ 1,512	\$ 1,262,043	\$ 5,123,322	\$ 2,695,061	\$ 8,735,052	\$ 14,303,973
Utility Rebates	\$ 23,162,592	\$ 23,668	\$ 5,906,967	\$ 7,298,402	\$ 1,365,740	\$ 4,560,763	\$ 4,007,053
Other Funding Sources	\$ 18,582	\$ 1,858	\$ 16,724	\$ -	\$ -	\$ -	\$ -
Subtotal Remaining	\$ 150,699,924	\$ 83,292	\$ 21,515,764	\$ 32,444,912	\$ 10,977,808	\$ 45,607,626	\$ 40,070,523

Total	Total Project Cost	FY12	FY13	FY14	FY15	FY16	FY17
CEIP Funds	\$ 262,843,605	\$ 465,503	\$ 37,197,465	\$ 47,812,077	\$ 41,587,887	\$ 100,701,710	\$ 35,078,964
GO Bond Funds	\$ 102,468,697	\$ 167,759	\$ 20,772,301	\$ 8,434,442	\$ 13,253,566	\$ 41,747,767	\$ 18,092,862
Utility Rebates	\$ 55,574,651	\$ 381,090	\$ 16,756,084	\$ 10,702,127	\$ 5,964,738	\$ 15,862,631	\$ 5,907,981
Other Funding Sources	\$ 1,170,276	\$ 42,116	\$ 453,958	\$ -	\$ 360,000	\$ 314,202	\$ -
Current Working Estimate Total	\$ 422,057,229	\$ 1,056,468	\$ 75,179,807	\$ 66,948,646	\$ 61,166,190	\$ 158,626,310	\$ 59,079,807

AEP Budget (Approved by A&F)	\$ 427,082,539
AEP Contingency (10%)	\$ 42,708,254
Total	\$ 469,790,793

Quarterly Report Q4 2012

Appendix D

Implementation Plan by Quarter

(as of December 30th, 2012)

Comprehensive
Retro-Commissioning
Simple Fix/Whole Building Analysis

Implementation Plan by Quarter

Program Area	Project Number	Site Name / Bundle	Responsible Party	Town	IFM Region	Status
Q3, 2012						
Administration & Finance	BSB1204 ST1	Hurley Building	OPDC	Boston	Metro Boston	Study
	DCP1228 FS1	Springfield State Office Dwight Street	OPDC	Springfield	Western	Study
Health and Human Services	DMH0902 ES1	DYS - Taunton	OFM	Taunton	Southeast	Construction
Higher Education	NEC0901 EC1	North Essex Community College - Haverhill	OFM	Haverhill	Northeast	Construction
		North Essex Community College - Lawrence	OFM	Lawrence	Northeast	Construction
Public Safety	DOC1301E ES1	MCI - Framingham	OFM	Framingham	Northeast	Study
		South Middlesex Correctional Center	OFM	Framingham	Northeast	Study
	NAC1102 ES1	North Central Correctional Institute	OFM	Gardner	Central	RFP
		Northeastern Correctional Center	OFM	Acton	Northeast	Study
UMASS	DCP1224 ES1	UMass Lowell	OFM	Lowell	Northeast	Study
Administration & Finance	EELW1300 RX1	Job Center - Taunton	OFM	Taunton	Southeast	Study
Judiciary	TRC1211 ES1	Worcester Courthouses	OFM	Worcester	Central	Study
Energy & Environmental Affairs	EEA1302E ES1	9 Small Sites	OFM	Various	Central	Study
	EEA1303E ES1	14 Small Sites	OFM	Various	Central	Study
	EEA1304E ES1	9 Small Sites	OFM	Various	Central	Study
	EEA1305E ES1	7 Small Sites	OFM	Various	North Shore	Study
	EEA1306E ES1	10 Small Sites	OFM	Various	North Shore	Study
	EEA1307E ES1	7 Small Sites	OFM	Various	North Shore	Study
	EEA1308E ES1	9 Small Sites	OFM	Various	Western	Study
EEA1309E ES1	11 Small Sites	OFM	Various	Western	Study	
Q4, 2012						
Administration & Finance	DCP1021 ES1	Lindemann Building	OFM	Boston	Metro Boston	RFP

		McCormack Building	OFM	Boston	Metro Boston	RFP
Higher Education	HCC1301 ES1	Holyoke Community College	OFM	Holyoke	Western	Study
	MCC0901 EC2	Middlesex Community College	OFM	Bedford	Northeast	Study
	SSA1101 ES1	Salem State University	OFM	Salem	Northeast	Construction
	STC1381E ES1	Springfield Tech Community College	OFM	Springfield	Western	RFP
UMASS		UMass Medical Center - Jamaica Plain	OFM	Boston	Metro Boston	Study
Health and Human Services	DYS1302E RX1	Central Youth Service Center - Westborough	OFM	Westborough	Central	Study
Sheriffs	SDE1301E RX1	Sheriff's Department - Essex - Middleton	OFM	Middleton	Northeast	Study
Judiciary	AEP1301E UT1	15 Small Sites	OFM	Various	Various	Study
Public Safety	AEP1302E UT1	12 Small Sites	OFM	Various	Various	Study
	AEP1303E UT1	11 Small Sites	OFM	Various	Various	Study
Q1, 2013						
Higher Education	DCP1224 ES1	Fitchburg State University		Fitchburg	Central	Study
		Worcester State University		Worcester	Central	Study
Sheriffs	SDB1201 ES1	Sheriff's Department - Berkshire -New		Berkshire	Western	RFP
	SDM1202 ES1	Sheriff's Department - Middlesex - Billerica		Billerica	Northeast	RFP
	SDP1202 ES1	Sheriff's Department - Plymouth - Main		Plymouth	Southeast	RFP
UMASS	DCP1224 ES1	UMass Boston		Boston	Metro Boston	Study
Sheriffs		Sheriff's Department - Bristol - New Bedford		Dartmouth	Southeast	Study
Energy & Environmental Affairs		62 Small Sites		Various	Various	Study
Sheriffs		11 Small Sites		Various	Various	Study
Q2, 2013						
Health and Human Services	DMH0902 ES1	Taunton State Hospital		Taunton	Southeast	Construction
Higher Education	NAC1102 ES1	Mass College of Liberal Arts		North Adams	Western	RFP
	WSC0901 ES1	Westfield State University		Westfield	Western	Study
Sheriffs		Sheriff's Department - Suffolk House of Corrections		Boston	Metro Boston	Study
Administration & Finance		Wang Building		Boston	Metro Boston	Study
Health and Human Services		Western Youth Service Center		Springfield	Western	Study
Administration & Finance		2 Small Sites		Various	Various	Study
Judiciary		14 Small Sites (Previously Q4, 2012)		Various	Various	Study

Public Safety		32 Small Sites (Previously Q4, 2012)		Various	Various	Study
Department of Transportation		65 Small Sites		Various	Various	Study
Health and Human Services		10 Small Sites		Various	Various	Study
Higher Education		2 Small Sites		Various	Various	Study
Q3, 2013						
Administration & Finance	BSB1201 EC1	State House		Boston	Metro Boston	RFP
	BSB1205 ES1	State Transportation Building		Boston	Metro Boston	RFP
Health and Human Services	DMH0902 ES1	Brockton Mental Health Center		Brockton	Southeast	Construction
	DMH0902 ES1	Cape Cod / Islands Mental Health Center		Bourne	Southeast	Construction
	DMH0902 ES1	Corrigan Mental Health Center		Fall River	Southeast	Construction
	DMH0902 ES1	DMH Western Mass Area Office		Northampton	Western	Construction
	DMH0902 ES1	Harry C. Solomon Mental Health Center		Lowell	Northeast	Construction
	DMH0902 ES1	Quincy Mental Health Center		Quincy	Metro Boston	Construction
	DCP1224 ES1	Solomon Carter Fuller Mental Health		Boston	Metro Boston	Construction
	DMH0902 ES1	Worcester State Hospital		Worcester	Central	Construction
Higher Education	DCP1224 ES1	Mass Maritime Academy		Bourne	Southeast	Study
Sheriffs		Sheriff's Department - Berkshire - Old		Pittsfield	Western	Study
Judiciary		Lawrence Trial Court (Fenton Center)		Lawrence	Northeast	Study
Sheriffs		Sheriff's Department - Bristol - North Dartmouth		Dartmouth	Southeast	Study
Energy & Environmental Affairs		94 Small Sites		Various	Various	Study
Q4, 2013						
Health and Human Services		Chelsea Soldiers Home		Chelsea	Metro Boston	Study
	DCP1224 ES1	Mass Hospital School		Canton	Southeast	Study
	DMH0902 ES1	Western Mass Hospital - Westfield		Westfield	Western	Study
Higher Education		Berkshire Community College		Pittsfield	Western	Study
		Mass College of Art and Design		Boston	Metro Boston	Study
Public Safety		MCI - Concord		Concord	Northeast	Study
		MCI - Shirley Medium		Shirley	Central	Study
		Souza Baranowski Correctional Center		Lancaster	Central	Study
Higher Education		Greenfield Community College		Greenfield	Western	Study
Sheriffs		Sheriff's Department - Norfolk - Dedham		Dedham	Southeast	Study
Administration & Finance		2 Small Sites		Various	Various	Study

Department of Transportation		57 Small Sites		Various	Various	Study
Economic Affairs		3 Small Sites		Various	Various	Study
Health and Human Services		3 Small Sites		Various	Various	Study
Q1, 2014						
Administration & Finance		Mass Information Technology Center		Chelsea	Metro Boston	Study
Higher Education		Cape Cod Community College		Barnstable	Southeast	Study
		Roxbury Community College		Boston	Metro Boston	Study
Administration & Finance		State Archives Building - Boston		Boston	Metro Boston	Study
Sheriffs		Sheriff's Department - Franklin		Greenfield	Western	Study
Administration & Finance		3 Small Sites		Various	Various	Study
Department of Transportation		7 Small Sites		Various	Various	Study
Health and Human Services		19 Small Sites		Various	Various	Study
Higher Education		9 Small Sites		Various	Various	Study
Q2, 2014						
Health and Human Services		37 Small Sites		Various	Various	Study

Quarterly Report Q4 2012

Appendix E

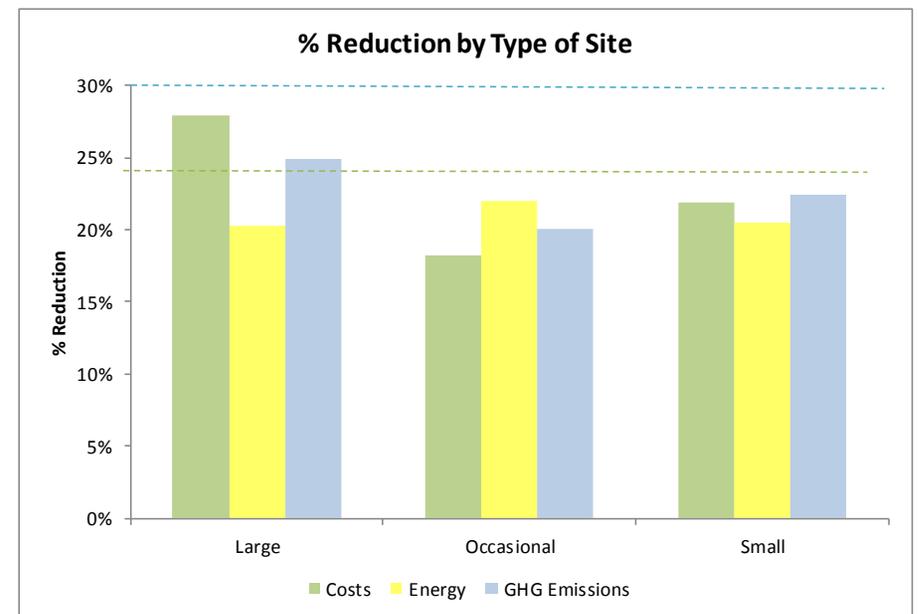
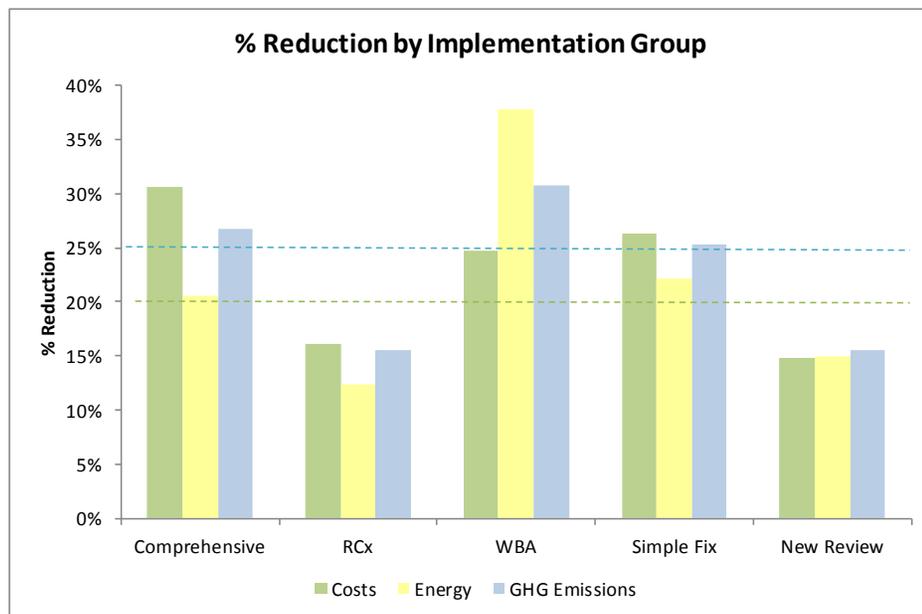
AEP Site Certification Verification

(as of December 30th, 2012)

AEP Site Certification

Implementation Group	# Sites	Audit Data Available	Baseline			Costs		Energy		GHG Emissions	
			Estimated Annual Energy Costs	Estimated Consumption (MMBtu)	Estimated Annual GHG Emissions (tonnes)	Estimated Annual Savings	% Reduction	Consumption Reduction (MMBtu)	% Reduction	GHG Emissions Reduction (tonnes)	% Reduction
Comprehensive	31	24	\$ 14,348,602	603,223	43,094	\$ 4,385,609	31%	123,942	21%	11,515	27%
Retro-Commissioning	6	5	\$ 2,641,910	84,199	8,577	\$ 425,780	16%	10,410	12%	1,332	16%
Whole Building Analysis	2	2	\$ 975,516	46,113	3,830	\$ 240,600	25%	17,392	38%	1,177	31%
Simple Fix	89	52	\$ 940,721	33,668	2,901	\$ 247,948	26%	7,465	22%	732	25%
New Review	48	34	\$ 1,722,016	58,275	5,596	\$ 255,071	15%	8,688	15%	867	15%
Total	176	117	\$ 20,628,765	825,477	63,998	\$ 5,555,009	27%	167,896	20%	15,624	24%

Type of Site	# Sites	Audit Data Available	Baseline			Costs		Energy		GHG Emissions	
			Estimated Annual Energy Costs	Estimated Consumption (MMBtu)	Estimated Annual GHG Emissions (tonnes)	Estimated Annual Savings	% Reduction	Consumption Reduction (MMBtu)	% Reduction	GHG Emissions Reduction (tonnes)	% Reduction
Large	33	25	\$ 17,464,141	668,259	52,674	\$ 4,878,564	28%	135,396	20%	13,126	25%
Occasional	82	44	\$ 441,332	16,964	1,551	\$ 80,459	18%	3,730	22%	311	20%
Small	61	48	\$ 2,723,291	140,253	9,774	\$ 595,986	22%	28,770	21%	2,187	22%
Total	176	117	\$ 20,628,765	825,477	63,998	\$ 5,555,009	27%	167,896	20%	15,624	24%



Site Code	Site Name	Facility Advisor / Utility Vendor	Audit Status	Meets AEP Certified Criteria	# ECMs	Baseline			Costs		Energy		GHG Emissions	
						Estimated Annual Energy Costs	Estimated Consumption (MMBtu)	Estimated Annual GHG Emissions (tonnes)	Estimated Annual Savings	% Reduction	Consumption Reduction (MMBtu)	% Reduction	GHG Emissions Reduction (tonnes)	% Reduction
Total					401	\$ 20,628,765	825,477	63,998	\$ 5,555,009	27%	167,896	20%	15,624	24%
Large Sites					168	\$ 17,464,141	668,259	52,674	\$ 4,878,564	28%	135,396	20%	13,126	25%
TRC47	SPRINGFIELD COURT COMPLEX	WMECO	Received	No	3	\$ 734,701	20,831	2,236	\$ 70,645	10%	847	4%	108	5%
TRC52	WORCESTER COURTHOUSES	National Grid	Received	Yes	20	\$ 942,599	44,174	3,694	\$ 224,120	24%	16,218	37%	1,102	30%
BSB03	STATE HOUSE	NSTAR	Received	No	1	\$ 1,090,119	35,240	3,228	\$ 179,904	17%	4,722	13%	604	19%
BSB01	MCCORMACK BUILDING	NSTAR	Received	Yes	27	\$ 3,020,887	85,559	8,855	\$ 784,106	26%	22,503	26%	2,277	26%
BSB06	LINDEMANN BUILDING	NSTAR	Received	Yes	31	\$ 692,593	26,020	2,200	\$ 198,912	29%	4,634	18%	584	27%
UMA00	UMASS - AMHERST	WMECO	Received	No	11	\$ 1,574,292	38,368	4,911	\$ 281,177	18%	6,614	17%	847	17%
BRC00	BRISTOL COMMUNITY COLLEGE	National Grid	Received	No	1	\$ 1,067,618	45,832	3,666	\$ 144,603	14%	3,795	8%	486	13%
DCP02	STATE TRANSPORTATION BUILDING	NSTAR	Received	No	19	\$ 1,827,295	42,965	5,409	\$ 1,092,164	60%	707	2%	-	0%
SDP00	SHERIFF'S DEPT-PLYMOUTH-MAIN	NSTAR	Received	No	1	\$ 586,193	15,385	1,969	\$ 189,399	32%	-	0%	-	0%
BSC00	BRIDGEWATER STATE UNIVERSITY	National Grid	Received	No	2	\$ -	-	-	\$ 31,626	-	1,894	-	149	-
FSC01	FITCHBURG STATE UNIVERSITY	UNITIL	Received	No	2	\$ -	-	-	\$ 1,746	-	163	-	9	-
MMA00	MASSACHUSETTS MARITIME ACADEMY	NSTAR	Received	No	2	\$ -	-	-	\$ 22,422	-	1,868	-	99	-
MWC00	MOUNT WACHUSETT COMMUNITY COLLEGE	National Grid	Received	No	2	\$ -	-	-	\$ 29,410	-	836	-	107	-
DCP15	SPRINGFIELD STATE OFFICE DWIGHT ST	WMECO	Received	No	1	\$ -	-	-	\$ 62,270	-	1,459	-	186	-
DMH02	SOLOMON CARTER FULLER MENTAL HEALTH	NSTAR	Received	No	2	\$ 1,184,103	50,498	3,838	\$ 13,321	1%	833	2%	44	1%
DMH32	TAUNTON STATE HOSPITAL	Municipal	Received	No	1	\$ 910,000	39,451	3,263	\$ -	-	-	-	-	-
DMH34	WESTBOROUGH STATE HOSPITAL	National Grid	Received	No	1	\$ 131,858	9,020	538	\$ -	-	-	-	-	-
DMH37	WORCESTER STATE HOSPITAL	National Grid	Received	No	1	\$ 1,592,166	95,360	6,792	\$ -	-	-	-	-	-
DOC06	NORTH CENTRAL CORRECTIONAL INSTITUT	National Grid	Received	Yes	8	\$ 1,927,174	110,902	1,861	\$ 1,012,752	53%	55,039	50%	5,404	290%
DPH00	LEMUEL SHATTUCK HOSPITAL	NSTAR	Received	No	1	\$ 2,097,835	99,096	7,268	\$ -	-	-	-	-	-
DPH02	MASS HOSPITAL SCHOOL	NSTAR	Received	No	2	\$ -	-	-	\$ 26,232	-	2,185	-	116	-
MCC00	MIDDLESEX COMMUNITY COLLEGE	NSTAR	Received	No	1	\$ 1,126,707	31,458	3,012	\$ 6,524	1%	539	2%	29	1%
NAC00	MASS COLLEGE OF LIBERAL ARTS	National Grid	Received	No	30	\$ 990,177	93,755	5,709	\$ 183,280	19%	5,271	6%	580	10%
SDB00	SHERIFF'S DEPT-BERKSHIRE-NEW	WMECO	Received	Yes	14	\$ 699,683	27,274	2,086	\$ 497,657	71%	13,672	50%	1,060	51%
LOW02	UMASS - LOWELL- LOWELL	National Grid	Received	No	2	\$ -	-	-	\$ 4,063	-	248	-	20	-
Small Sites					175	\$ 2,723,291	140,253	9,774	\$ 595,986	22%	28,770	21%	2,187	22%
DES04	JOB CENTER - TAUNTON	Municipal	Received	Yes	1	\$ 32,917	1,939	136	\$ 16,480	50%	1,174	61%	75	55%
MIL11	ARMORY - CONCORD	Municipal	Received	Yes	1	\$ 35,592	1,431	107	\$ 19,327	54%	812	57%	59	55%
TRC66	PITTSFIELD PROBATE AND FAMILY	WMECO	Received	No	3	\$ 64,444	2,400	210	\$ 7,204	11%	188	8%	24	11%
TRC65	PITTSFIELD SUPERIOR	WMECO	Received	Yes	3	\$ 20,551	421	54	\$ 4,121	20%	132	31%	17	31%
TRC64	PITTSFIELD DISTRICT	WMECO	Received	No	2	\$ 72,842	4,526	277	\$ 3,063	4%	669	15%	86	31%
TRC63	SPRINGFIELD HOUSING/JUVENILE COURTS	WMECO	Received	No	3	\$ -	-	-	\$ 14,032	-	576	-	74	-
TRC60	HAMPSHIRE COUNTY COURT	National Grid	Received	Yes	7	\$ 135,111	5,365	474	\$ 56,787	42%	1,470	27%	153	32%
TRC59	NORTHAMPTON PROBATE & FAMILY COURT	National Grid	Received	No	2	\$ 64,387	2,513	217	\$ 6,691	10%	274	11%	35	16%
TRC15	CHICOPEE DISTRICT COURT	Municipal	Received	No	3	\$ 67,516	2,218	217	\$ 13,200	20%	467	21%	52	24%
TRC41	PALMER DISTRICT COURT	Municipal	Received	Yes	2	\$ 37,596	1,721	169	\$ 9,403	25%	361	21%	46	27%
TRC28	HOLYOKE COURTHOUSE	Municipal	Received	No	4	\$ 73,137	2,875	264	\$ 11,203	15%	444	15%	37	14%
POL06	CONCORD STATE POLICE BARRACKS	Municipal	Received	Yes	3	\$ 10,784	441	34	\$ 3,693	34%	85	19%	11	32%
POL24	STATE POLICE CRIME LAB	NSTAR	Received	Yes	15	\$ 241,787	5,269	669	\$ 42,832	18%	1,444	27%	140	21%
POL31	DANVERS STATE POLICE BARRACKS	Municipal	Received	Yes	8	\$ 49,996	2,261	161	\$ 21,973	44%	687	30%	69	43%
POL27	REVERE STATE POLICE BARRACKS	National Grid	Received	Yes	10	\$ 39,782	1,574	124	\$ 10,916	27%	292	19%	26	21%
POL32	MEDFORD STATE POLICE BARRACKS	NSTAR	Received	Yes	8	\$ 26,961	1,102	84	\$ 9,013	33%	348	32%	29	35%
POL16	NEWBURY STATE POLICE STATION	National Grid	Received	Yes	2	\$ 9,462	388	30	\$ 3,531	37%	80	21%	10	35%
POL01	ANDOVER STATE POLICE BARRACKS	National Grid	Received	No	2	\$ 8,987	367	28	\$ 321	4%	4	1%	0	2%
POL29	S. BOSTON STATE POLICE- 125 WJD	NSTAR	Received	Yes	6	\$ 37,426	1,530	117	\$ 8,734	23%	332	22%	26	22%
POL33	SPECIAL OPERATIONS MARINE DIVISION	NSTAR	Received	Yes	4	\$ 11,216	458	35	\$ 18,233	163%	649	142%	54	152%
POL17	NORTHAMPTON STATE POLICE BARRACKS	National Grid	Received	Yes	9	\$ 44,713	1,688	137	\$ 33,475	75%	592	35%	82	60%

Site Code	Site Name	Facility Advisor / Utility Vendor	Audit Status	Meets AEP Certified Criteria	# ECMs	Baseline			Costs		Energy		GHG Emissions	
						Estimated Annual Energy Costs	Estimated Consumption (MMBtu)	Estimated Annual GHG Emissions (tonnes)	Estimated Annual Savings	% Reduction	Consumption Reduction (MMBtu)	% Reduction	GHG Emissions Reduction (tonnes)	% Reduction
POL11	HOLDEN STATE POLICE TROOP C	Municipal	Received	Yes	7	\$ 44,354	1,625	135	\$ 10,376	23%	278	17%	31	23%
POL25	YARMOUTH STATE POLICE BARRACKS	NSTAR	Received	No	6	\$ 24,942	1,020	78	\$ 4,231	17%	174	17%	14	18%
POL14	MIDDLEBORO STATE POLICE BARRACKS	Municipal	Received	No	6	\$ 49,453	2,122	157	\$ 8,707	18%	233	11%	26	16%
POL18	NORWELL STATE POLICE BARRACKS	National Grid	Received	No	2	\$ 13,262	494	41	\$ 2,567	19%	56	11%	7	17%
POL08	FOXBOROUGH STATE POLICE BARRACKS	National Grid	Received	No	2	\$ 20,911	853	65	\$ 4,102	20%	90	11%	11	18%
POL03	BOURNE STATE POLICE BARRACKS	NSTAR	Received	Yes	4	\$ 20,733	853	65	\$ 4,657	22%	125	15%	14	22%
POL19	OAK BLUFFS STATE POLICE BARRACKS	NSTAR	Received	No	5	\$ 18,620	689	57	\$ 2,183	12%	73	11%	7	12%
POL22	SPRINGFIELD STATE POLICE BARRACKS	WMECO	Received	Yes	3	\$ 7,864	321	25	\$ 3,947	50%	90	28%	12	47%
POL20	RUSSELL STATE POLICE BARRACKS	Municipal	Received	Yes	3	\$ 17,560	720	55	\$ 4,101	23%	93	13%	12	22%
POL12	LEE STATE POLICE BARRACKS	WMECO	Received	Yes	6	\$ 11,852	495	37	\$ 2,860	24%	108	22%	9	25%
POL05	CHESHIRE STATE POLICE STATION	National Grid	Received	Yes	6	\$ 9,843	387	31	\$ 3,604	37%	112	29%	11	37%
POL21	SHELBURNE STATE POLICE BARRACKS	WMECO	Received	No	4	\$ 17,819	728	56	\$ 1,980	11%	50	7%	6	10%
POL02	ATHOL STATE POLICE BARRACKS	National Grid	Received	No	4	\$ 22,766	1,129	81	\$ 1,266	6%	62	5%	4	4%
POL13	LEOMINSTER STATE POLICE BARRACKS	National Grid	Received	No	4	\$ 22,832	840	70	\$ 3,340	15%	76	9%	9	13%
POL04	BROOKFIELD STATE POLICE TROOP C	National Grid	Received	Yes	3	\$ 7,983	450	27	\$ 2,315	29%	54	12%	7	25%
POL23	STURBRIDGE STATE POLICE BARRACKS	National Grid	Received	No	4	\$ 18,744	794	59	\$ 2,870	15%	69	9%	8	14%
DMH05	CAPE COD/ISLANDS MENTAL HEALTH CTR	NSTAR	Received	No		\$ 116,750	4,536	391	\$ -	-	-	-	-	-
DMH06	BROCKTON MENTAL HEALTH CTR	National Grid	Received	No		\$ 154,982	6,626	541	\$ -	-	-	-	-	-
DMH11	CORRIGAN MENTAL HEALTH CTR	National Grid	Received	No		\$ 146,701	6,695	535	\$ -	-	-	-	-	-
DMH16	HARRY C. SOLOMON MNTL HEALTH CENTER	National Grid	Received	No		\$ 130,845	6,841	500	\$ -	-	-	-	-	-
DMH26	QUINCY MENTAL HEALTH CENTER	National Grid	Received	No		\$ 119,068	3,161	405	\$ -	-	-	-	-	-
DMH40	DMH WESTERN MA AREA OFFICE	National Grid	Received	No		\$ 106,157	7,438	490	\$ -	-	-	-	-	-
DYS15	DYS - TAUNTON	Municipal	Received	No	8	\$ 1,203,670	84,167	4,926	\$ 227,590	19%	16,021	19%	932	19%
MDCA6	RINK/PAUL CRONIN MEMORIAL	National Grid	Received	No	5	\$ 104,880	2,080	266	\$ 5,090	5%	502	24%	35	13%
MDC83	NAHANT DIVISION MAINT FACILITY	National Grid	Received	No	7	\$ -	-	-	\$ 5,619	-	206	-	14	-
MDCA2	ELIOT HOUSE	National Grid	Received	No	3	\$ -	-	-	\$ 1,493	-	72	-	4	-
EQE01	STATE MATERIAL RECOVERY FACILITY	WMECO	Received	No	2	\$ -	-	-	\$ 2,577	-	63	-	8	-
Occasional Use Sites					58	\$ 441,332	16,964	1,551	\$ 80,459	18%	3,730	22%	311	20%
BFPL3	BENNETT FIELD POOL	National Grid	Received	Yes	5	\$ -	-	-	\$ 4,605	-	174	-	10	-
CLNT3	CLINTON POOL	National Grid	Received	Yes	7	\$ -	-	-	\$ 17,011	-	715	-	46	-
FITP3	FITCHBURG POOL	UNITIL	Received	Yes	4	\$ -	-	-	\$ 3,057	-	549	-	36	-
GDRK4	GARDNER SKATING RINK	National Grid	Received	Yes	8	\$ -	-	-	\$ 25,538	-	845	-	69	-
LMPL3	LEOMINSTER STATE POOL	National Grid	Received	Yes	6	\$ -	-	-	\$ 29,144	-	1,019	-	56	-
MLP3	SENATOR P. EUGENE CASEY STATE POOL	National Grid	Received	Yes	4	\$ -	-	-	\$ 3,411	-	157	-	9	-
SBPL4	PETRO MEMORIAL POOL	National Grid	Received	Yes	3	\$ -	-	-	\$ 3,323	-	165	-	10	-
VHPL3	VERNON HILL PLAYGROUND/POOL-WORCEST	National Grid	Received	Yes	4	\$ -	-	-	\$ 4,327	-	159	-	9	-
WRRK3	WORCESTER RINK	National Grid	Received	Yes	7	\$ 66,638	3,007	259	\$ 39,395	59%	1,793	60%	137	53%
MDC1B	WARE RIVER WATERSHED	National Grid	Received	Yes	4	\$ -	-	-	\$ 1,758	-	71	-	5	-
WELL4	WELLS STATE PARK	National Grid	Received	Yes	3	\$ 4,766	74	9	\$ 413	9%	4	5%	0	5%
GSPL2	LAWRENCE POOL	National Grid	Received	No	2	\$ -	-	-	\$ 702	-	25	-	3	-
MDC73	RINK/WILLIAM CONNERY MEMORIAL	National Grid	Received	Yes	5	\$ 57,000	2,086	185	\$ 9,690	17%	426	20%	39	21%
PBRK2	SKATING RINK - PEABODY	Municipal	Received	Yes	4	\$ 86,300	3,459	302	\$ 4,080	5%	363	10%	28	9%
HVRK2	VETS MEMORIAL SKATING RINK-HAVERHIL	National Grid	Received	Yes	7	\$ 46,670	1,550	168	\$ 3,320	7%	290	19%	23	14%
NWRK2	HENRY GRAF SKATING RINK	National Grid	Received	Yes	5	\$ 75,000	2,495	247	\$ 2,250	3%	256	10%	21	8%
HALB2	HALIBUT POINT STATE RESERVATION	National Grid	Received	Yes	6	\$ -	-	-	\$ 6,333	-	171	-	16	-
MDCA7	BREAKHEART RESERVATION	National Grid	Received	Yes	9	\$ -	-	-	\$ 12,222	-	131	-	17	-
BRAD2	BRADLEY PALMER STATE PARK-TOPSFIELD	National Grid	Received	Yes	7	\$ -	-	-	\$ 29,879	-	536	-	54	-
MDC82	LYNN/NAHANT BEACH	National Grid	Received	Yes	3	\$ -	-	-	\$ 2,361	-	38	-	5	-
MDCA4	REVERE BEACH RESERVATION	National Grid	Received	Yes	4	\$ -	-	-	\$ 5,030	-	83	-	11	-
FWE21	PLUM ISLAND FISHERY	National Grid	Received	Yes	3	\$ 22,183	668	70	\$ 2,329	10%	46	7%	7	10%
SALB2	SALISBURY BEACH STATE RESERVATION	National Grid	Received	Yes	8	\$ 50,250	2,027	202	\$ 6,528	13%	235	12%	19	10%

Site Code	Site Name	Facility Advisor / Utility Vendor	Audit Status	Meets AEP Certified Criteria	# ECMs	Baseline			Costs		Energy		GHG Emissions	
						Estimated Annual Energy Costs	Estimated Consumption (MMBtu)	Estimated Annual GHG Emissions (tonnes)	Estimated Annual Savings	% Reduction	Consumption Reduction (MMBtu)	% Reduction	GHG Emissions Reduction (tonnes)	% Reduction
GCSP2	GREYCOURT STATE PARK	National Grid	Received	Yes	6	\$ 1,134	28	4	\$ 673	59%	16	58%	2	58%
HARP2	HAROLD PARKER STATE FOREST	National Grid	Received	Yes	4	\$ 16,148	841	53	\$ 2,852	18%	95	11%	8	15%
LWHP2	LAWRENCE HERITAGE STATE PARK	National Grid	Received	Yes	5	\$ -	-	-	\$ 5,988		198		19	
MAUD2	MAUDSLAY STATE PARK	National Grid	Received	Yes	6	\$ -	-	-	\$ 1,185		40		4	
AGAP4	AGAWAM STATE POOL- AGAWAM	WMECO	Received	Yes	4	\$ -	-	-	\$ 817		32		3	
CHPL4	SARAH JANE MEMORIAL POOL	Municipal	Received	Yes	4	\$ -	-	-	\$ 2,992		83		9	
GRRK4	COLLINS-MOYLAN RINK	WMECO	Received	Yes	6	\$ -	-	-	\$ 2,561		76		8	
HKRK4	RINK/HENRY J FITZPATRICK	Municipal	Received	Yes	7	\$ -	-	-	\$ 9,931		138		20	
LDPL4	JOHN THOMPSON POOL	WMECO	Received	Yes	4	\$ -	-	-	\$ 6,295		143		18	
NARK5	VIETNAM MEMORIAL SKATING RINK	National Grid	Received	Yes	7	\$ -	-	-	\$ 19,868		388		46	
SFPL4	THOMAS MEMORIAL SWIM POOL-SPRINGFIE	WMECO	Received	Yes	6	\$ 15,244	730	53	\$ 8,930	59%	206	28%	26	49%
SFRK4	SMEAD SKATING RINK - SPRINGFIELD	WMECO	Received	Yes	5	\$ -	-	-	\$ 9,464		105		13	
AGR01	EASTERN STATES EXPOSITION GROUNDS	WMECO	Received	Yes	3	\$ -	-	-	\$ 1,728		30		4	
BRIM4	BRIMFIELD STATE FOREST	National Grid	Received	Yes	3	\$ -	-	-	\$ 1,291		29		4	
CHBL5	CHESTER/BLANDFORD STATE FOREST	Municipal	Received	No	1	\$ -	-	-	\$ 3		0		0	
CHIP4	CHICOPEE STATE PARK	Municipal	Received	Yes	5	\$ -	-	-	\$ 1,342		31		4	
CRGW4	CONNECTICUT GREENWAY STATE PARK	National Grid	Received	Yes	3	\$ -	-	-	\$ 732		22		2	
FWE27	ROGER REED SALMON HATCHERY	National Grid	Received	No	2	\$ -	-	-	\$ 769		17		2	
HAMP4	HAMPTON PONDS STATE PARK	Municipal	Received	Yes	4	\$ -	-	-	\$ 1,285		23		3	
HHSP4	HOLYOKE HERITAGE STATE PARK	Municipal	Received	Yes	4	\$ -	-	-	\$ 3,370		77		10	
ROBN4	ROBINSON STATE PARK - AGAWAM	WMECO	Received	Yes	3	\$ -	-	-	\$ 1,103		26		2	