



AEP Phase I Report

December 31, 2014

The Commonwealth of Massachusetts

Accelerated Energy Program 2012-2014

www.mass.gov/DCAMM/aep



COMMONWEALTH COMMITMENT TO A CLEAN ENERGY FUTURE



DIVISION OF CAPITAL ASSET MANAGEMENT & MAINTENANCE





Acknowledgements

The AEP team extends its gratitude to the members of the AEP Leadership Steering Committee and Implementation Committee for lending their time and expertise to provide critical feedback and for their ongoing efforts to support clean energy and environmental initiatives across hundreds of state facilities. A list of these people is provided in *Appendix B*.

A special thanks goes to the many state officials who recognized the importance of leadership and provided critical support to Phase I of the AEP. These include former Executive Office for Administration and Finance Secretaries Jay Gonzalez and Glen Shor, former DCAMM Commissioner Carole Cornelison, as well as, former Energy and Environmental Affairs Secretaries Richard Sullivan and Maeve Vallely-Bartlett, former Undersecretary for Energy Mark Sylvia and former Acting Commissioner of DOER Meg Lusardi.

We would also like to acknowledge all former and current DCAMM staff for their dedicated efforts and steadfast commitment that resulted in the successful achievement of the ambitious goals of AEP Phase I, including the Energy Efficiency and Sustainable Buildings Group lead by Hope Davis and Jenna Ide. DOER's Leading By Example (LBE) team led by Eric Friedman was a collegial and collaborative partner, providing invaluable leadership and guidance over the entire three year duration. We thank the DCAMM staff from the offices of Finance, Legal, and Planning, Design, and Construction for their invaluable support of the AEP.

Finally, we would like to acknowledge the many current and former consultants, contractors, and advisors that have played a critical role in developing and implementing the AEP, including EE&D (team led by Dave Ward), Fort Hill (team led by Kevin Bernier), MOCA Systems, and NeCEC Institute (team led by Kevin Doyle).





About this Report

This Report is an expansion of the quarterly reports issued throughout the AEP Phase I. A list of related reports issued by the AEP team during Phase I is provided in *Appendix A*.

Accomplishments

This Report highlights the major accomplishments of DCAMM and DOER to achieve the six main goals of the AEP including initiating work at 700 sites. It provides details on the expected investment of \$470 million that will result in the saving of \$42.5 million a year in energy costs, which represents 19% reduction in energy use across the portfolio.

To best convey the complexity of the Program, this Report outlines the most significant 9 major challenges encountered over the first three years, the approaches used to overcome these challenges and the lessons learned.

Partnerships

The success of the AEP was made possible through partnerships established with the Department of Energy Resources (DOER), state agencies, campus personnel, and electric and gas utility companies. This Report describes the achievements made through these partnerships to implement energy and water savings projects across the Commonwealth.

AEP 2.0

Lastly, this Report touches upon the goals of the second phase of the AEP ("AEP 2.0"). Among the goals is to complete the retrofit projects that were initiated during AEP Phase I. The AEP team is also working to sustain the energy savings gains from these projects as well as advance the energy performance of state facilities through potential new projects, practices and technologies to achieve additional savings.

Feb. 27, 2015





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Introduction

The Commonwealth of Massachusetts has been 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 2014, for the fourth 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 Executive Order No. 484, which set aggressive energy and greenhouse gas reduction goals, as well as 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 savings projects across the Commonwealth and help the Commonwealth comply with Executive Order 484. The AEP aimed to reduce energy consumption by 20-25% over 700 state sites, creating over 4,000 clean energy jobs and saving the Commonwealth an estimated \$43 million annually.

The AEP Phase I was a three year initiative from January 2012 through December 31, 2015. DCAMM, in coordination with the Department of Energy Resources, partner state agencies, and utility companies, initiated the energy and water efficiency retrofits of 700 sites encompassing thousands of buildings throughout the Commonwealth. The AEP Phase I was executed in conjunction with other energy conservation and facility management initiatives across the Commonwealth and provided access and opportunity for small, minority, and women-owned businesses. By all accounts, AEP Phase I was a remarkable success.

The second phase of the AEP (called AEP 2.0) was started in January 2015, with a primary goal to implement the retrofit projects that were initiated during AEP Phase I and are still underway. Other work has been identified for AEP 2.0 to sustain the performance gains achieved during Phase I as well as advance facility energy performance.





Program Goals & Objectives

DCAMM and DOER worked with a number of partners, agencies and utilities to accomplish the six main objectives of the AEP. The program objectives and some example partners, agencies and utilities are represented in the graphic below.



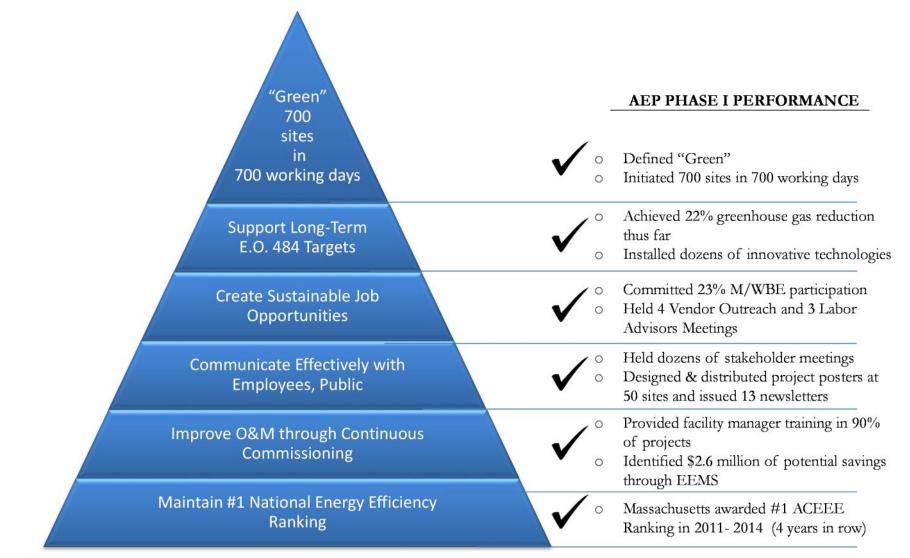
¹AEP Metrics are provided in *Appendix C*.





Summary of Performance

DCAMM and DOER achieved the six main objectives of the AEP, as summarized below. Additional details on AEP Phase I performance is provided in *Appendix C*.







Summary of Major Accomplishments

The AEP achieved some significant successes and achievements, as summarized below.



New gas boilers at NCCI Gardner replace inefficient oil-fired system. Site achieves \$2.4 *million annual cost reduction.*



Ceremonial rebate check from National Grid for Gardner District Court energy project



AEP quarterly implementation team meeting, held with DOER, at UMass Medical center.

INITIATED PROJECTS

- Completed 222 sites and started work at 478 sites
- Incorporated Deferred Maintenance, such as new boilers and chillers
- Included Code Upgrades, such as accessibility and electrical
- Developed Towards Zero Net Energy pilot projects, reaching over 50% reduction

RESULTS

- \$470 million investment projected with \$86 million invested thus far
- \$42.5 million annual savings projected with \$8 million committed thus far
- 25% average energy use reduction targeted with 19% achieved thus far
- \$24 million utility company incentives projected with \$4.4 million received thus far

PARTNERSHIPS

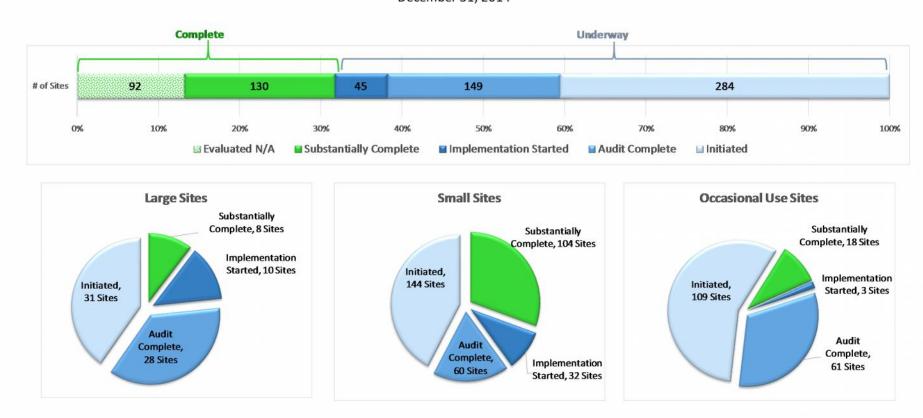
- Department of Energy Resources (DOER)
- Leadership Steering Committee (multiple agencies)
- Electric and Gas Utility Companies
- Energy Contractors and Business Representatives
- Public and Private Workforce Advisors





Summary of Progress

The chart below shows progress at the end of Phase I on December 31, 2014.



AEP Status December 31, 2014

* These pie charts show the status of sites by category. They do not include the 92 sites that were determined to have no potential to save energy (Evaluated - N/A).





Summary of Financials

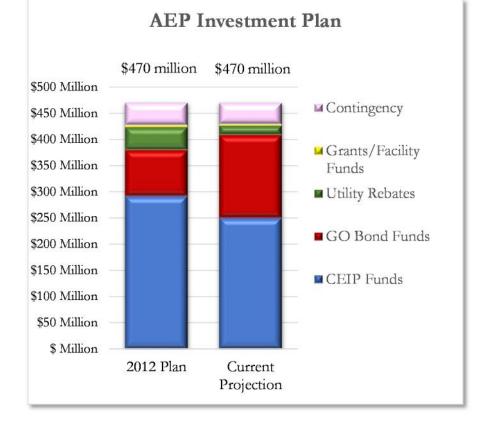
Investment Plan

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The AEP is budgeted at \$427 million with a 10% contingency which totals \$470 million. AEP projects are funded by a combination of CEIP ("off cap") Bonds, G.O. Bonds, utility incentives and other funding sources.

As highlighted in the chart to the right, the current AEP investment plan of \$470 million matches the original investment plan defined at the start of the AEP in 2012; however, the proportion of sources has changed.

Additional GO bond funds are needed to address significant deferred maintenance needs at several AEP sites. Addressing deferred maintenance needs is critical to the life cycle of facilities and the safety of its occupants. Furthermore, combining energy systems repairs with an energy savings project typically is more cost-effective than procuring such work as separate projects. While combining the project has an overall positive facility benefit, the energy savings payback is extended. Consequently, the proportion of GO bonds to CEIP funding for the program has increased. The availability of utility incentives is also affected by increased project payback.



Data represented in this report is as of 12/31/2014 unless otherwise indicated



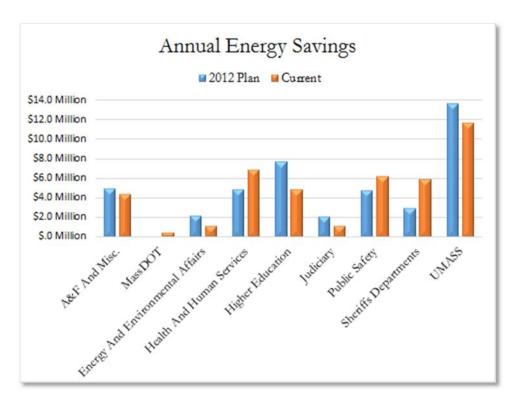
Annual Energy Savings

The AEP budget for energy and water conservation measures was developed and approved based on the estimated annual energy savings at each site.

The current AEP annual energy and water savings is projected to be \$42.5 million, which matches the financial plan defined at the start of the AEP in 2012 (\$43 million).

As highlighted in the chart to the right, the current AEP savings estimate has been adjusted by program area based on the specific opportunities identified at each site.

While the AEP identified more sites than expected that do not require an energy retrofit (92 sites designated as Evaluated – N/A), the AEP achieved deeper savings at select TZNE pilot sites and other sites to enable the Commonwealth to anticipate achieving the original savings goals. Note that the estimates are based on current prices and do not account for projected utility cost escalation.





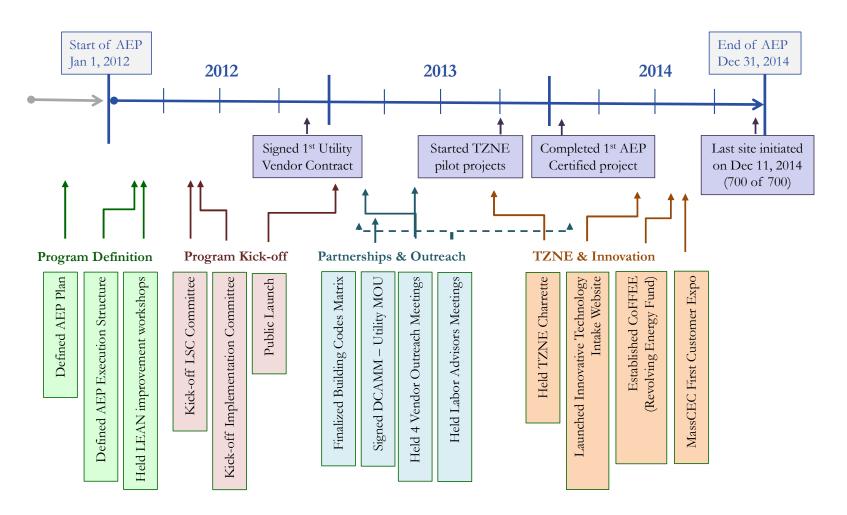




AEP Key Highlights

Phase I of the AEP was a complex program with many stakeholders and a variety of working groups. The timeline below displays some of the key highlights of the program. The AEP team initiated work at the first site immediately after the start of the AEP, even before the AEP was fully planned and defined, to be able to initiate work at all 700 sites before the end of the AEP in December 31, 2014.

A complete listing of reports issued by the AEP during Phase I is provided in Appendix A.







Program Challenges and Approach





Program Approach

Prior to the start of the AEP in December 2011, DCAMM had an established energy program and team that had worked in collaboration with state agencies to retrofit approximately **45%** of all Commonwealth facilities on a square footage basis over the prior decade. In those 10 years, DCAMM managed the investment of **\$213 million** in energy and water projects which had resulted in **\$18 million** in annual savings.

The AEP challenged DCAMM to accelerate its established Energy Program and greatly expand upon the Program's reach to include all facilities, large and small, throughout the Commonwealth.



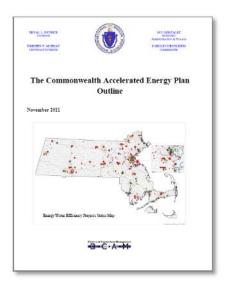
Prior to the start of the AEP, DCAMM installed new boilers and other ECMs at the Department of Development Services' Hogan and Wrentham Developmental Centers to reduce greenhouse gases by 58% and save \$2.5 million in annual energy costs.

The Plan

DCAMM, in coordination with its partners, responded to the challenge by developing and publishing the AEP Plan Outline in November 2011.

To implement the AEP, three key elements were pursued concurrently:

- 1. **People**: Strategic utilization of resources and regular, substantive communication between all stakeholders.
- 2. **Process**: Identification of high potential improvement areas and development of an alternative procurement plan.
- 3. **Tracking & reporting**: Improved and standardized metrics for tracking and for strategic reporting to various audiences.







Benchmarking Best Practices

Shortly after approval of the *AEP Plan Outline*, the AEP researched best practices from other organizations such as MassDOT (particularly, its Accelerated Bridge Program (ABP)), the United States Army Corps of Engineers, Harvard University, and Partners Healthcare.

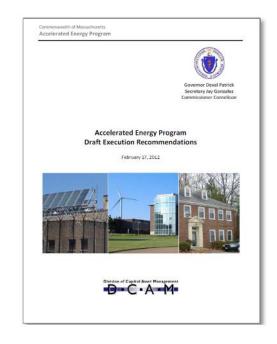


The AEP benchmarked how these organizations had launched and managed similar complex, aggressive and visible projects across a broad portfolio of assets. These organizations offered tremendous insight across a range of program dimensions including:

- Development of comprehensive implementation plans
- Structuring of organizational committees and responsibilities
- Management of retrofit projects
- Development of centers of excellence
- Creation of new standards and processes
- Management of energy data and program performance reporting

Execution Recommendations

Based on the insights garnered from assessment of best practices by these organizations and input from interagency charrettes, the AEP developed a blueprint for executing the program in the *AEP Draft Execution Recommendations* published in February 2012.





Program Implementation Challenges

AEP Phase I Report

The AEP was a bold initiative with significant challenges that needed to be addressed to successfully achieve the Program's objectives. A list of the major challenges is provided below. The approach developed to meet these challenges is provided on the following pages.

- 1. Engage and align a wide range of stakeholders
- 2. Translate goal of "greening" every facility into definable actions
- 3. Retrofit 445 small decentralized sites with new system
- 4. Complete program on-time (in 3 years)

installed while maintaining schedule

5. Ensure quality retrofits are

- 6. Promote access and opportunities for women / minority contractors and workers
- 7. Reveal program goals and results to employees and public
- 8. Achieve ambitious energy savings goals





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ACCELERA

NERGY





MELL Project Facts

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Challenge #1: Engage and align a wide range of stakeholders

People were the most important element in successfully creating and implementing the AEP Plan. To achieve the goals of the AEP, the team brought together personnel from DOER, facility managers, utility companies, vendors, and multiple DCAMM departments.

The AEP developed partnerships through structured committees and working groups, as well as through scheduled and ad hoc meetings. By clearly defining and structuring roles, the AEP team avoided the potential for strained relationships that could have resulted from the aggressive three year schedule.

Accelerated Energy Program Newsletter

PROGRAM UPDATES

All Progress [Record Amounts 2012]

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ACCESS AND OPPORTUNITY THROUGH THE AEF

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Approach: Establish and Cultivate Partnerships

- Department of Energy Resources (DOER)
- Leadership Steering Committee (100+ leaders from key agencies and utilities)
- Utility companies
- Energy contractors and business representatives
- Public and private advisors and consultants



ACCESS TO T



DCAMM Director Hope Davis presenting an overview of the AEP at the first Implementation Committee Meeting on March 2, 2012.

D·C·A·M·M

DDER

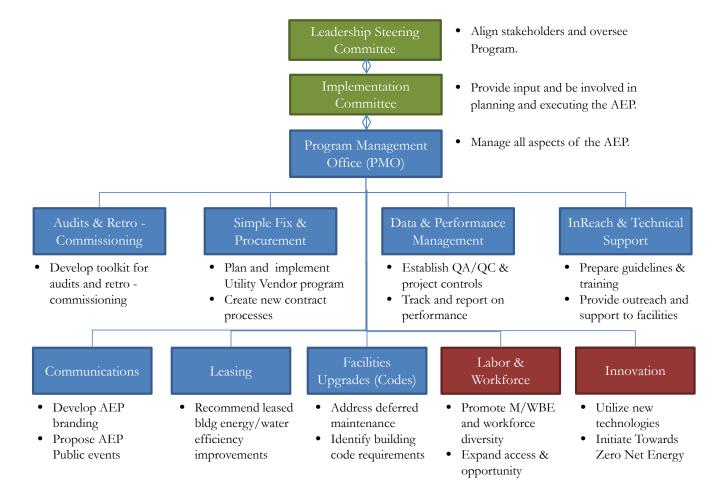






The AEP developed an organizational structure, regular meeting schedules and a reporting system to engage with the wide range of program stakeholders. A conceptual graphic of the program organization is highlighted below. At the nucleus of the AEP was the Program Management Office (PMO), established to manage and coordinate all aspects of the program.

DCAMM established a Leadership Steering Committee and an Implementation Committee to develop and promote a clear vision for the AEP as well as generate communication for outreach, training and employee motivation. A list of participants on these committees is provided in *Appendix B*. Working groups were established in identified areas that required new tools and practices or improved processes and capabilities. The two working groups highlighted in red color (Labor & Workforce and Innovation) were established after the start of the AEP, based on feedback and experience during program development and initial implementation.







LESSON LEARNED

Leverage Existing Programs to Align Goals

At the start of the AEP, there were many existing sustainability initiatives across the Commonwealth such as DOER's Leading By Example, MAFMA's annual training programs and the GreenDOT initiative. In addition, many of the community colleges and state universities had established sustainability programs focused on meeting the goals of their Climate Action Plans.

DCAMM learned to align the AEP with these initiatives as a complementary and supportive program to encourage stakeholder participation and leverage the momentum of these on-going initiatives. For example, the AEP held bi-monthly implementation committee meetings in conjunction with the LBE meetings because the same people tended to participate in both meetings.



Former DCAMM Commissioner Carole Cornelison engaging with the AEP Implementation Committee at a joint meeting held with DOER's LBE at the UMass Medical Center.





Challenge #2: Translate goal of "greening" every facility into definable actions

At the start of the AEP, DCAMM was completing a 5 year energy plan and scoping out the next set of projects. There was no master plan that identified all state-owned sites that would benefit from an energy retrofit. A systematic method for screening sites based on the facility's overall status (e.g., active, in use or demolished) was established to identify the sites that would benefit from an energy retrofit.

The AEP screened the sites as follows (more information is provided in *Appendix D*):

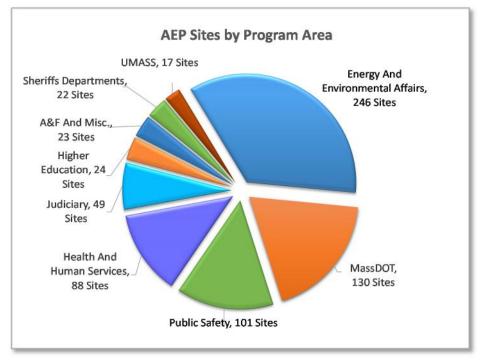
- 873 sites listed in CAMIS (The Commonwealth's Asset Management Information System which includes an inventory of properties in the state's portfolio)
- 818 sites were "active"
- 780 sites were "in use" (e.g., not vacant, not going to be demolished, not surplus, and not mothballed)
- 748 sites had not been retrofitted by an energy project since 2007 (in the prior 5 years)
- 700 sites consumed energy and would potentially benefit from an energy retrofit

The AEP targeted the 700 sites that would benefit from an energy retrofit. When the 700 sites were finalized in March 2012, there were approximately 700 working days left to initiate retrofits before the end of the AEP Phase I on December 31, 2014. As such, the program objective "700 sites in 700 days" was adopted.

In addition, the AEP created a monthly process for reviewing any additional sites identified by agencies or DCAMM that may be added to the pool of sites. A process map of the definition methodology is provided in *Appendix D*.

Approach: Identify sites to retrofit, define "green", and create AEP Certification levels

- Identified the sites that needed to be retrofitted.
- Designated sites by "Large", "Small" and "Occasional use" for targeting levels of retrofit, budgets and savings estimates.
- Defined "green" and AEP certification levels.



The graphic provides an overview of the 700 sites by Program Area.





What is "Green"?

A goal of the AEP was to "green" every facility, but there was no universally accepted, quantifiable measure of "green" to use to recognize achievement of the goal and track progress. Furthermore, the expectations for savings varied due to the size, function and condition of each site.

The AEP developed an approach as follows:

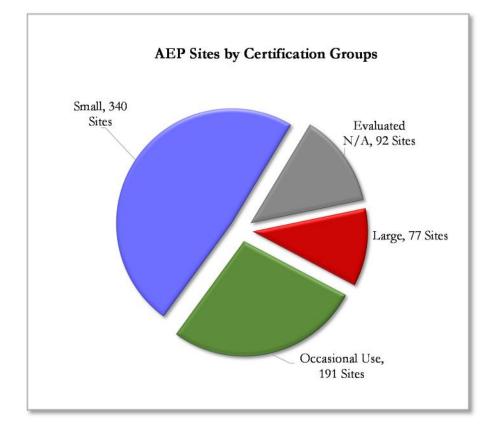
- 1. Evaluate all sites, and designate those sites that did not need a retrofit as Evaluated N/A.
- 2. Retrofit sites that would benefit from any cost effective energy conservation measures no matter how minimal the retrofit may be.
- 3. Encourage greater savings by creating AEP Certification designations with clear standards.

The AEP reporting and metrics include all of these types of sites.

AEP Certification Criteria

The AEP developed criteria and language for AEP Certified and AEP Certified Plus designations for sites in the AEP portfolio. The reduction requirements for individual sites to achieve AEP Certified designation varied 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. *Appendix F* provides a description of each type of project.

In addition, Large and Small sites are eligible for AEP Certified Plus designation with 50% reduction in at least 2 of the following categories: site energy use, greenhouse gas emissions, and energy costs. Additional details on AEP Certification criteria by type of site is provided in *Appendix E*.



The graphic provides an overview of the 700 sites by AEP Certification Groups.



AEP Certification Status

100%

90%

When a retrofit contract is approved by DCAMM with a final scope of ECMs and costs, the AEP finalizes the evaluation for AEP Certification.

Of the **156 sites** that have either been completed or have a signed contract as of December 31, 2014, **61 sites** achieved AEP Certification, including **11 sites** achieving AEP Certified Plus designation. The graphic below highlights the Certification Status by number of sites and square footage of building space.

Certification Status

15,672,860

1,280,014

156

11

80% 2,813,743 50 70% Certified Plus 60% Certified 50% 37 UNo Baseline - TBD 40% Not Certified 10,861,171 30% 20% 58 10% 0% # of Sites Sum of Sq Ft

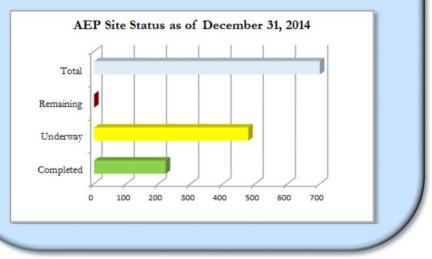
* The AEP does not have energy baseline information on 37 sites but is working with vendors to finalize the collection and documentation of baseline data to verify energy savings assumptions and finalize certification designations.

LESSON LEARNED

What Gets Measured, Gets Done!

Top-down goals such as "700 sites in 700 days" focused the AEP team on the speed of initiation. However, other metrics such as "achieving 25% savings" required more time and resources. Tradeoffs occurred on a daily basis to achieve the measured goals. The number of underway sites is not necessarily correlated with other important metrics such as jobs and savings.

As highlighted in the graph below, the primary measurement used to communicate with agency and administration leadership was the AEP Site Status which simplified a very complex process. The AEP team worked diligently to meet this goal while also trying to prioritize the other metrics that received less attention such as annual energy savings, project implementation, workforce development and facility staff training.









Challenge #3: Retrofit 445 small and decentralized sites with new system

The AEP required DCAMM to retrofit a large number of sites that it had rarely worked with before, such as Mass Highway depots, DCR campgrounds and Health and Human Services group homes.

With support from DOER, and under the authority of the Massachusetts Green Communities Act, DCAMM created an innovative contracting solution with utilities to retrofit hundreds of small and occasional use sites across the Commonwealth. The new procurement approach involved direct contracting with utility-approved vendors.

- In Q3 2012, DCAMM met with several utility vendors to gauge interest in participating in program.
- In Q4 2012, DCAMM signed the first contract with a utilityapproved vendor (RISE Engineering) for 15 court facilities.
- In Q1 2013, DCAMM reached out to ALL Project Expediter (PEX) vendors of utility companies to invite participation.
- In Q2 2013, DCAMM released a Simple Fix Toolkit that included all required documents for implementing utility vendor projects.
- By Q4 2014, DCAMM had initiated work at 445 sites through 13 vendors and 36 separate scopes of work (SOW).

Approach: Create NEW procurement method

- Created Utility Vendor Contracting (coordinating between DCAMM Legal, Finance, Contracts, and Construction business units)
- Developed new DCAMM internal processes (bundling, M/WBE, change orders, close out)
- Guided and supported new vendors (initial meetings, FAQs, follow up meetings)
- Assigned work based on successful implementations.



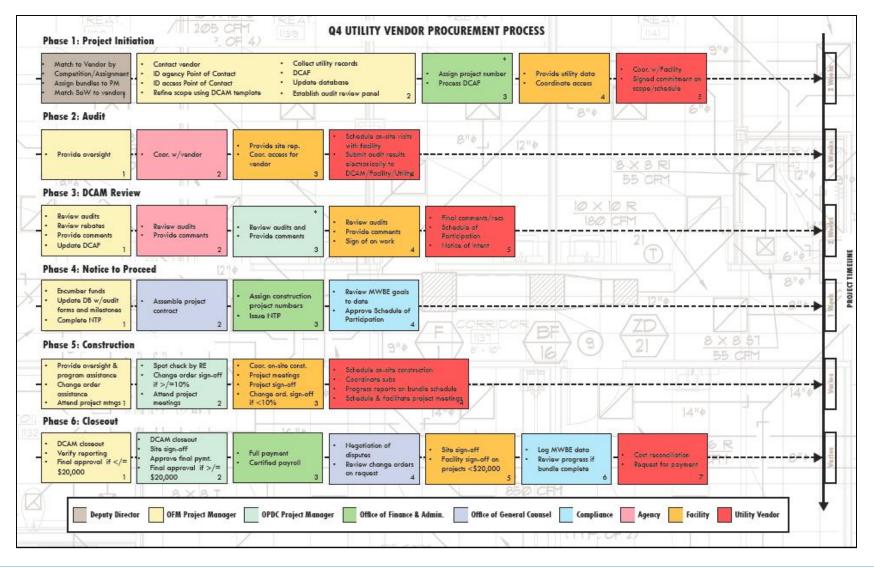
In Q4 2012, DCAMM and DCR held a coordination meeting at Nantasket Beach Reservation in Hull, MA to address the 212 small and occasional use sites managed by DCR.





Creating the NEW Procurement Processes

The AEP team, lead by the Simple Fix and Procurement Working Groups, mapped out an entirely new utility vendor contracting process that included new steps, activities and durations across all phases of project implementation. The graphic below highlights the new utility vendor procurement process and the roles assigned to each participant. Although this looks complex, a typical large energy project has 199 steps.





Division of Capital Asset Management and



LESSON LEARNED

Contractors don't always staff up for surge work

Vendors do not always ramp up staff to meet surge demand but instead level-load work which takes longer to complete. However, larger economic forces (the recession) potentially affected the willingness of vendors to hire.

One of the most formidable challenges of the AEP was the creation and implementation of an efficient method for retrofitting 445 small sites within 3 years.

A total of 36 separate scopes of work that sorted the 445 sites into larger bundles were issued to 13 different utility vendors, with an average of 3 bundles per vendor. While many of the vendors indicated they would staff up to complete the surge work in a short period of time, most of the vendors ended up using their existing staff which resulted in prolonging the time required to complete the surge work.

Steps that initially were expected to take 254 days ended up taking 505 days. The AEP team adjusted its original expectations of progress with revised schedules.



The National Guard Northbridge Armory was retrofitted through utility vendor contracting.





Challenge 4: Complete program on-time (within 3 years)

One of the most challenging aspects of the AEP was to complete the program on-time (within 3 years) by initiating work at 700 sites by December 31, 2014.

This required comprehensive planning and management of resources to orchestrate hundreds of projects and keep them on track. It was imperative that the AEP PMO identify problems before they occurred to effectively resolve them before they became crises and resulted in delays.

The AEP PMO established a centralized program controls team to structure and develop a program master schedule, program budget (spending plan) and risk register with mitigation plan. The program controls team updated the schedule, budget and risk mitigation plan on a monthly basis and provided reports to all stakeholders.



In August 2012, the AEP team participated in a two day planning and prioritization charrette. They segmented and prioritized sites for implementation by the end of 2014.

Approach: Establish program controls with transparent reporting

- Schedules
 - Prioritized work for implementation.
 - > Structured reportable milestones.
 - Streamlined work through LEAN process improvement workshops.
- Costs
 - Estimated budgets and set target milestone durations to predict spending durations.
 - Created financial plan incorporating multiple funding sources.
- Risks
 - Established risk register with mitigation plans and held meetings with subject matter experts to address risks.
- Reporting
 - Created new "site-based" data management solution to complement existing "project-based" system.
 - Issued Monthly PMO Reports and Quarterly Leadership Steering Committee Reports.

Program Controls Reporting

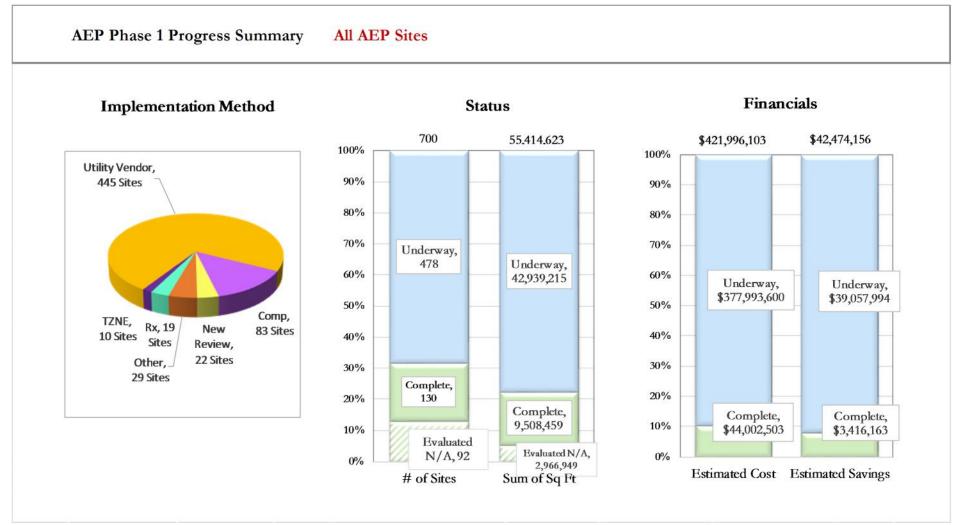
The AEP developed a budget and master schedule that enabled the program tracking and reporting across all projects based on updates from DCAMM project managers. The team standardized the way information was compiled, validated progress, and reported on status to internal and external stakeholders.





The graphic below is an example of how AEP data was used for program controls reporting. The AEP reviewed the data monthly. Adjustments were made regularly to ensure the program was on schedule and within budget.

A description of the procurement methods used to implement projects in the AEP is provided in *Appendix F*. An AEP summary by program area is provided in *Appendix H*.



Sites are categorized as "Completed" when energy projects at these sites are substantially completed or when the site has been evaluated and determined to not benefit from an energy project under the AEP because the site does not consume energy or is undergoing other plans (Evaluated N/A).





Reportable Schedule Milestones

The AEP used five different retrofit approaches to address the range in size and type of buildings in the AEP Portfolio. Different activities were required for each procurement method. A system was developed to identify common reportable milestones across all procurement methods with target durations between activities. The chart below represents the AEP master schedule template that notes target durations for each of the five procurement methods. The reportable milestones are highlighted in yellow.

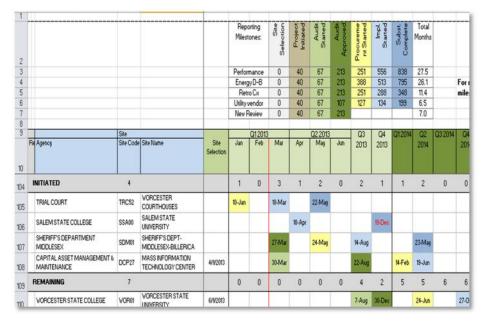
| | Per | formance Contr | ract | | En | ergy Design B | uild | | Re | tro-Commission | ing | | | Utility Vendor | | | Study | Only/New Re | view | |
|--|--|------------------------|------------------------------|------------|--|---------------------------|------------------------------|------------|--|-------------------------------------|------------------------------|------------|--|--|------------------------------|------------|--|------------------------|------------------------------|------------|
| Project Phase | Milestone | Common DCAM Process | Target Duration (days) | Total Days | Milestone | Common DCAM Process | Target Duration (days) | Total Days | Milestone | Common DCAM Process | Target Duration (days) | Total Days | Milestone | Common DCAM Process | Target Duration (days) | Total Days | Milestone | Common DCAM Process | Target Duration (days) | Total Days |
| | Site Selection | | 0 | 0 | Site Selection | | 0 | 0 | Site Selection | | 0 | 0 | Site Selection | Site Selection (Bundle) | 0 | 0 | Site Selection | | 0 | 0 |
| Planning | Facility Meeting/ Information Gathering | | 23 | 23 | Facility Meeting/ Information Gathering | | 23 | 23 | Facility Meeting/ Information Gathering | | 23 | 23 | Facility Meeting/ Information Gathering | Review "Intro Email" & Complete CAMIS building forms | 23 | 23 | Facility Meeting/ Information Gathering | | 23 | 23 |
| | Facility Approval | | 20 | 43 | Facility Approval | | 23 | 46 | Facility Approval | | 20 | 43 | Facility Approval | FM Approve Sites for Retrofit | 8 | 31 | Facility Approval | | 23 | 46 |
| | Project Initiated | DCAF Approved | 15 | 58 | Project Initiated | DCAF Approved | 15 | 61 | Project Initiated | DCAF Approved | 15 | 58 | Project Initiated | T&C Contract Signing at DCAMM | 9 | 40 | Project Initiated | DCAF Approved | 15 | 61 |
| | Scope of Work Audit/Study | Level 1 | 60 | 118 | Scope Of Work Audit/Study | Level I-II | 63 | 124 | Scope of Work Audit/Study | Rx Investigation | 60 | 118 | | Prepare "SOW Package" | 3 | 43 | Scope of Work Audit/Study | | 60 | 121 |
| | Audit Started | | 10 | 128 | Audit Started | | 10 | 134 | Audit Started | NTP Feasibility Study | 10 | 128 | Audit Started | Email "SOW Package to Team (Simple Fix WG, UV, FM) | 2 | 45 | NTP Issued for Audit / Study | | 10 | 131 |
| Audit / Study | Audit Drafted | | 105 | 233 | Audit Drafted | | 107 | 241 | Audit Drafted | Draft Feasibility Study | 105 | 233 | Audit Approved | Draft Audit uploaded | 115 | 160 | Audit Approved | | 107 | 238 |
| | Commonwealth Review | | 95 | 328 | Commonwealth Review | | 105 | 346 | Commonwealth Review | E-Team Review/ Compile | 95 | 328 | Review - Audit Approved | | | 160 | Commonwealth Review | | 105 | 343 |
| | Audit Approved | | 21 | 349 | Audit Approved | | 21 | 367 | Audit Approved | Feasibility Study Complete | 21 | 349 | Audit Approved | Pre-Approval e-mail Sent | 15 | 175 | Audit Approved | | 21 | 364 |
| | N/A | | 0 | 349 | Preliminary Design Complete | (BOD, Level III Audit) | 215 | 582 | N/A | | 0 | 349 | | | | 175 | | | | |
| | Procurement Started | Issue RFP | 45 | 394 | Procurement Started | Issue RFP | 58 | 640 | Procurement Started | NTP for Investigation | 85 | 434 | Procurement Started | Final Audit Approved | 75 | 250 | | | | |
| Procurement | Proposals Received | | 45 | 439 | Proposals Received | | 51 | 691 | Proposal Received for SOW | Draft Investigation Report | 40 | 474 | N/A | | | 250 | | | | |
| | Selected proposer approved | | 75 | 514 | Selected proposer approved | | 79 | 770 | N/A | Final Investigation | 30 | 504 | N/A | | | 250 | | | | |
| | Audit Contract Signed | | 40 | 554 | _ | | | | | | | | | | | | | | | |
| IGA | Audit/Preliminary Design Complete | | 75 | 629 | | Not Applicable | | | | Not Applicable | | | | Not Applicable | | | | | | |
| | IGA Approved | | 60 | 689 | | | | | | | | | | | | | | | | |
| | Implementation Starts | ESA Signed | 80 | 769 | Implementation Starts | ESA Signed | 82 | 852 | Implementation Starts | NTP for Implementation | 40 | 544 | Implementation Starts | NTP for Implementation (U-13) | 75 | 325 | | Not Applicable | | |
| | Final Design Complete | | 84 | 853 | Final Design Complete | | 84 | 936 | Facility ISA | N/A | | 544 | | | | 325 | | | | |
| Implementation | Construction Starts | | 2 | 855 | Construction Starts | | 51 | 987 | Facility Procurement | N/A | | 544 | | | | 325 | | | | |
| | Substantial Completion (80%) | | 219 | 1074 | Substantial Completion (80%) | | 219 | 1206 | Substantial Completion (80%) | Receive Implementation Report | 170 | 714 | Substantial Completion (80%) | | 135 | 460 | | | | |
| | Final Project Acceptance | | 60 | 1134 | Final Project Acceptance | | 142 | 1348 | Final Project Acceptance | | | 714 | Final Project Acceptance | Approval By Utility/Facility | 20 | 480 | | | | |
| | Performance Term Starts | | | 1134 | Post-Construction Starts | | 0 | 1348 | - | Not Applicable | | | | Not Applicable | | | | | | |
| Post-Construction /Performance Term | Ongoing M&V Reports | | | 1134 | Ongoing Maintenance | | 0 | 1348 | | | | | | | | | | | | |
| | Contract Closeout | | | 1134 | Contract Closeout | | 25 | 1373 | Contract Closeout | | 10 | 724 | Contract Closeout | | 25 | 505 | | | | |





Monthly Schedule

The AEP team produced a detailed program schedule each month to review status of projects and identify problem areas.



The graphic above is an example monthly AEP program schedule from a Monthly Controls Report. Each retrofit project is listed on a separate row, organized by project manager. The Reportable Schedule Milestones are highlighted in the column by date, annotated with a different color.

Risk Management

Given the AEP's complexity, the identification and mitigation of risks was an important factor in successful program management.

The table below lists a sample of the AEP's remaining risks for the completion of the initial phase of the AEP. The table includes the defined risk response and risk owner. Risks are categorized by the area of the program affected (i.e. planning, data management,

communications). Quarterly Reports contain these evolving risk tables.

| Risk Identifier | Risk | Impact Description | Risk Score (1=Low 6=High) | Timeline | Risk Response |
|--------------------|---|--|---------------------------------|-----------|---|
| Implement | ation Planning | | | | |
| IP-R3 | Additional sites requested to be included in AEP by Agencies may not receive funding. | Schedule and funding impacts to program. | 2 | Near term | Continue to coordinate v Facility Managers and Ag finalize AEP scope. Prio AEP sites for implement |
| IP-R4 | Ability to achieve an average of 25% savings in energy costs across AEP sites | | 5 | | Develop new procurema approach for "deep ener retrofits" or "towrard ne energy". |

In the example Risk Register highlighted above, each risk is scored as a combination of the probability of the risk being realized and the risk's potential impact on the AEP. This approach helped the AEP prioritize which risks were most important to address.





LEAN Workshops

The AEP particiapted in six LEAN workshops to shorten procurement durations of energy design-build and comprehensive performance projects. This was required to be able to complete the program ontime.





The top photo above shows the AEP team participating in a LEAN workshop to shorten project procurement durations. The bottom photo shows the AEP team participating in a LEAN Rapid Improvement Workshop (RIW) to identify a new data management solution to address the "site-based" requirements of the AEP.

LESSON LEARNED

Don't underestimate the multiple benefits of project controls and reporting

Robust program controls (cost, schedule and risk management) were needed to achieve the AEP's aggressive program schedule, coordinate hundreds of projects, and keep people informed.

As the AEP progressed, the PMO needed a way to track progress towards the 700 sites with more detail. To ensure that all 700 sites were initiated on-time, the team started to predict which sites would be initiated the next month and color code by likelihood of success. The team identified issues based on this report and tracked actions.

Without this control system, the AEP would not have initiated work at all 700 sites by December 31, 2014. It is important to note that controls take significant time and constant vigilance.

| Sites Remainin | g | | 96 | Quarters Re | emaining | 1 | L. | Plan |
|----------------------------|----------|------------------------------|------------------------|-------------|-------------------------|--------------------------------|--------------------|-------------------------|
| | | | | | | Risk E | lased Expectations | |
| Predicted Initi | ations f | or Q3 & Q4 | | # of Sites | # of NEW Initiations | Pessimistic Risk Assessment | # of Sites | # of NEW Initiations |
| | | Already Initiated | | 77 | 48 | 100% | 77 | 48 |
| | | In Good Shape | | -44 | 35 | 95% | 42 | 33 |
| | | Actions Needed to Complete | | -21 | 8 | 80% | 17 | 6 |
| | | Significant Actions Needed | | 9 | 5 | 50% | 5 | 3 |
| | | | | 151 | 96 | | 140 | 90 |
| Utility Vendor Projects | DCAF | | Utility Vendor | # of Sites | # Remaining | PM | 8/31 Schedule | Current Schedule |
| AEP1501E UT1 | ¥. | DCR - Southwart 1 & 3 | Graedan | 12 | 12 | Kaitiyn Menyo | 9/4/2014 | 9/4/2014 |
| AEP1412E UT1 | Y | DCR - Central 1 - Reinhauft | To Be | 16 | 1 | Jessica Brand | 7/31/2014 | 9/18/2014 |
| AEP1502E UT1 | Y | DCR - Central 2 & West 3 | RISE | 24 | 21 | Dave Lewis | 9/24/2014 | 10/5/2014 |
| AEP1503E UT1 | Y | DCR - Rinks 2 | Groom | 9 | 2 | Kaitlyn Menyo | 11/10/2014 | 11/4/2014 |
| AEP1504E UT1 | Ŷ | DMH - South/East & Sheciff 2 | Energy Connectation | - 6 | 0 | Kaitiyn Menyo | 11/10/2014 | 11/4/2014 |

D·C·A·M·M

The graphic above shows an excerpt from the AEP Predicted Site Initiation Report.





Challenge 5: Ensure quality retrofits are installed while maintaining schedule

To retrofit 700 sites, the AEP needed a large pool of facility advisors and vendors. Many of these vendors were new to DCAMM. The AEP team implemented a rigorous quality program to ensure every retrofit was "done right the first time".

The AEP established a centralized quality management team and hired a resident engineer to ensure utility vendor projects were executed in a consistent manner with regard to quality and cost effectiveness across all sites by various vendors. All large projects had 1-2 resident engineers assigned. An AEP Monthly Quality Report was produced to address and track issues identified.



The photo above was taken by the AEP Resident Engineer during a quality inspection of a retrofit by AEP utility vendor RISE at Uxbridge District Court.

Approach: Implement rigorous quality management

- Created Standardized Processes
 - o Building code checklist
 - o Audit data collection templates and reports
 - o Accessibility checklist
 - o Vendor Scopes of Work
- Performed Quality Control (QC) Checks
 - o Resident Engineer inspections on small projects
 - o Technical reviews
 - o Vendor pricing analysis

Standardized Processes

The AEP created a set of practices, principles and templates for managing projects in a standardized manner. The intent was to create successful and repeatable processes, yet continuously improve these processes. These quality assurance tools were used by DCAMM and vendors across all projects.

Adhering to Building Codes

To avoid potential problems that could result in project delays, and with assistance from the Board of Building Regulations and Standards (BBRS), the AEP developed a comprehensive building code checklist for addressing code issues across building and project types. The checklist was integrated into the standardized audit template and used by vendors during the performance of energy audits.





Standardizing Energy Audit Data Collection

The AEP developed a standardized audit template that includes a set of minimum standards for audit reports, including guidelines for content and threshold values for the costs and savings of identified ECMs.

| MUGIC Date | 5/19 | /2012 | | Site Co | ontact | - Name | John F | ore | | | |
|--|---|--|---------------------------------------|---|---|--|---|---|-----------------------------|---------|-----|
| MIS Site Code | WLD | N2 | | Site | Conta | t - Title | NE Re | gional | Supe | ervisor | |
| | | DEN POND STATE RESERVA | TION | · · · · · · · · · · · · · · · · · · · | | tact - # | | - | | | |
| Secretariat | Ener | gy & Environmental Affai | rs | Site C | ontact | - Email | | | | | 1 |
| Agency | DEPA | ARTMENT OF CONSERVATIO | ON AND RECREAT | | | | | | | | |
| Site Address | | | | | Audito | r Prime | EE&D | | | | |
| Site City | Cond | ord, MA | | | Audi | tor Sub | EE&D | 1 | | | |
| Site ZIP | | | 2 | Au | uditor | - Name | David | Ward | 9 | | |
| rim Elect Util | Mun | icipal | | | Audito | r - Title | Princi | uA Isq | ditor | () | |
| ject Number | DCP1 | 207 AD1 | | 1 | Auc | litor - # | 508-46 | 0-1946 | 5 | | |
| Data Source | Audi | t | | HD C | ontact | - Email | davef | ward | igma | il.com | |
| Date of NTP | 4/3/. | 2012 | | | | | S | _ | | | |
| | | | | | | | | Consi | umes | £ | |
| uilding Codes | | Building Name | Sq Ft | Audit | ted | In Use | Elect | Fot | ssil | Water | |
| Totals | | 14 | 9,404 | : | 13 | 13 | | 7 | 2 | 2 | 2 |
| DEM0401 | GALL | ERY SHED | 150 | Y. | | t | Ň | N | | N | |
| DEM0402 | GAR | AGE | 300 | Y | - 3 | 1 | N | N | - | Ń | |
| DEM0403 | NATI | URE CENTER SHED | 160 | Y | | ť | Y | N | | N | |
| | | | | | | | | | | | |
| DEM0780 | BAR | | te - Audit | Res | ult | | I.Y. | IN | 1 | N | 1. |
| Audit Site | Date Code Site | | te - Audit | Res | e Cont ite Cont Site | | me Joi itle NE - # 971 | n Fare | nalS | | sor |
| Audit Site Secret | Date Code Site tariat | 6/19/2012 WLDN2 WALDEN POND STATE RES | te - Audit | Res | e Cont ite Cont Site | S act - Na ntact - T Contact | me Joi itle NE - # 971 | n Fare | nalS | | sor |
| Audit Site Secret | Date Code Site tariat sency | 6/19/2012 WUDN2 WALDEN POND STATE RES Energy & Environmental J DEPARTMENT OF CONSER | te - Audit | Res | e Cont lite Co Site te Con | S act - Na ntact - T Contact | me Joi itle NE - # 97i nail | n Faro Regio 8-369-3 | nalS | | sor |
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| Audit Site Secret Ag Site Ad Site Site Frim Elec | Date Code Site tariat ency dress e City te ZIP c Util mber | Sit 6/19/2012 WUDN2 WALDEN POND STATE RES Energy & Environmental / DEPARTMENT OF CONSER 0 Concord, MA 0 Municipal DCP1207 AD1 | te - Audit | Res Site | e Cont lite Co Site te Con Au Audi Au | act - Na ntact - T Contact tact - En ditor Pri Auditor S tor - Na ditor - T Auditor | me Joi itle NE - # 97i nail me EEi ub EEi me Da itle Pri - # 50 | nn Faro Regio 8-369-3 8-369-3 8-0 8-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9 | ard Audi 1946 | iupervi | |
| Audit Site Ag Site Ad Site Site Prim Ele Project Nu Data So | Date Code Site tariat ency dress e City te ZIP c Util mber ource | Sit 6/19/2012 WUDN2 WALDEN POND STATE RES Energy & Environmental / DEPARTMENT OF CONSER 0 Concord, MA 0 Municipal DCP1207 AD1 | te - Audit | Res Site | e Cont lite Co Site te Con Au Audi Au | act - Na ntact - T Contact tact - En ditor Pri Auditor S tor - Na ditor - T | me Joi itle NE - # 97i nail me EEi ub EEi me Da itle Pri - # 50 | nn Faro Regio 8-369-3 8-369-3 8-0 8-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9 | ard Audi 1946 | iupervi | |
| Audit Site Ag Site Ad Site Site Prim Ele Project Nu Data So | Date Code Site tariat ency dress e City te ZIP c Util mber ource | Sit 6/19/2012 WUDN2 WALDEN POND STATE RES Energy & Environmental I DEPARTMENT OF CONSER 0 Concord, MA 0 MunicipsI DCP1207 AD1 Audit | te - Audit | Res Site | e Cont lite Co Site te Con Au Audi Au | act - Na ntact - T Contact tact - En ditor Pri Auditor S tor - Na ditor - T Auditor | me Joi itle NE - # 97i nail me EEi ub EEi me Da itle Pri - # 50 | nn Faro Regio 8-369-3 8-369-3 8-0 8-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9 | ard Audi 1946 | iupervi | |
| Audit Site Ag Site Ad Site Site Prim Ele Project Nu Data So | Date Code Site tariat ency dress e City te ZIP c Util mber ource | Sit 6/19/2012 WUDN2 WALDEN POND STATE RES Energy & Environmental I DEPARTMENT OF CONSER 0 Concord, MA 0 MunicipsI DCP1207 AD1 Audit | ERVATION Affairs VATION AND REC | Res Site | e Cont lite Co Site te Con Au Audi Au | act - Na ntact - T Contact tact - En ditor Pri Auditor S tor - Na ditor - T Auditor | me Joi itle NE - # 977 nait me EEi me Da itle Pri - # 500 nait da | nn Faro Regio 8-369-3 8-369-3 8-0 8-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9 | ard Audi 1946 rd@g | iupervi | |
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An extract of the Audit Template is shown above.

Meeting Accessibility Requirements

To ensure retrofits were in compliance with the American with Disabilities Act (ADA) and Massachusetts Architectural Access Board (MAAB) regulations, the AEP developed a new process and form to identify when an AEP project triggers compliance issues that may require additional accessibility upgrades.

The AEP established regular meetings with DCAMM's Office of Planning, Design and Construction (OPDC) and developed tracking reports to coordinate efforts.



Members of the AEP team visited sites and documented accessibility problems. Common issues, highlighted in the photos above, include non-compliant signage related to accessible restrooms and automatic door openers as well as a ramp to the accessible entrance that is missing a handrail.





Quality Control (QC) Checks

The AEP team conducted quality control checks at key stages of the retrofit process to alert the AEP PMO to any problems that may be occurring across vendors and procurement methods. The quality manager and resident engineer conducted technical reviews of audits and performed site evaluations and inspections on a sample of the projects during and following completion of the work. *Appendix G* provides a list of these sites.

The focus of the reviews was to identify any issues that were encountered on a single project, and to correct them at the program level. This helped to improve the consistency in quality across all projects in the program.

The AEP PMO met monthly to review the results of the QC checks and discuss follow up actions required to address shortfalls that may be occurring. Each month, a quality report was issued to document findings and actions agreed upon.



The photos above were taken during quality inspections at the Dudley District Court (shown right) and at the Lynn Armory (shown left).

Top QC Issues Identified & Resolved

- 1. Identified cost effective ECMs missed by auditors
- 2. Guided auditors to complete audits to meet ASHRAE Level II standards
- 3. Ensured utility vendor pricing to DCAMM matched their pricing contracted with utilities
- Helped to identify utility accounts and meters at sites and map to the Commonwealth's Massachusetts Energy Insight database (MEI)
- 5. Improved energy savings calculations
- 6. Created punch lists for work not completed as prescribed by vendors





LESSON LEARNED

Simple Projects are Not So Simple

At the Marlborough District Court shown in the picture below, the utility vendor hired by the AEP team proposed the implementation of a variable frequency drive (VFD). After installation and during start up, the team noted that the HVAC system was unbalanced.



While the installation of the VFD was relatively simple, the next task of investigating the reason for the imbalance in the system was complex and difficult. The utility vendor spent months working with a balancing company and expert advisors to finally determine that a pre-existing return air fan (RAF) was improperly installed. The team ultimately disconnected the RAF and balanced the system.

To get the work done in a high quality manner, the AEP team, facility manager and vendors need to be prepared to overcome unexpected challenges. Complexities like these in small, medium and large projects make it difficult to create realistic metrics for project completion.





Challenge 6: Promote access and opportunity for women / minority contractors and workers

An important objective of the AEP was to create sustainable job opportunities across the Commonwealth. To accomplish this goal, the AEP team connected with the larger labor and workforce community. The team developed a workforce strategy and partnered with DCAMM's Office of Compliance to develop a process for ensuring that M/WBE participation and workforce diversity goals were met.

Labor & Workforce Advisors

The AEP established a group of Advisors from state agencies, community colleges, job training programs, industry associations, and workforce advocacy groups. The AEP Workforce Advisors met three times to help develop an AEP workforce strategy, guide the implementation of actions throughout the AEP, and identify opportunities to expand efforts beyond the AEP to other DCAMM business units.

Approach: Make labor and workforce connections

- Created and met with Labor & Workforce Advisors
- Developed workforce strategy
- Hosted four regional vendor outreach events
- Implemented changes to project solicitations (Included link to listing of MWBE firms, added offering on-the-job training, directed contractors to State's "one-stop" employment centers to recruit potential workers)







The photos above show participants in the three (3) meetings with the Workforce Advisors.





Vendor Outreach Meetings

DCAMM held Vendor Outreach Meetings at four locations across the Commonwealth to attract a diverse pool of vendors, provide them with an opportunity to meet DCAMM staff from various offices, and learn how to do business with DCAMM. In addition, participants were given a chance to meet other potential business partners through an interactive expo forum.

A total of 243 people participated in the meetings, including 87 people representing small businesses, 31 representing WBE firms and 26 representing MBE firms. About half of the people who participated in the meetings represented firms that had not previously obtained DCAMM certification.

Expanded Pool of Vendors

At the start of the AEP, DCAMM analyzed the pool of consulting firms under contract and determined that a potential capacity shortfall existed that posed a risk to completing the AEP on-time.

To address the potential shortfall of consulting firms, DCAMM solicited additional proposals for qualified firms to become approved Facility Advisors under an existing statewide contract. In response to the solicitation, DCAMM added 32 new consulting firms, including 8 firms certified by the Supplier Diversity Office.

Updated language in RFPs

Proposers are encouraged to provide on-the-job training to prepare people for clean energy, energy efficiency and green building careers. A continually updated online directory of the programs offered through 4-year colleges, community colleges, vocational/technical schools, apprenticeships, and other job training programs can be found at www.cleanenergyeducation.org.

Please describe the degree to which the Proposer currently engages in on-the-job training, and any efforts the Proposer will pursue in providing such training if selected as the contractor for this project.

The language above was added to the RFP template for large energy conservation projects.



The photos above show participants at the four Vendor Outreach meetings held across the Commonwealth in 2013.



ACCELERATED ENERGY PROGRAM

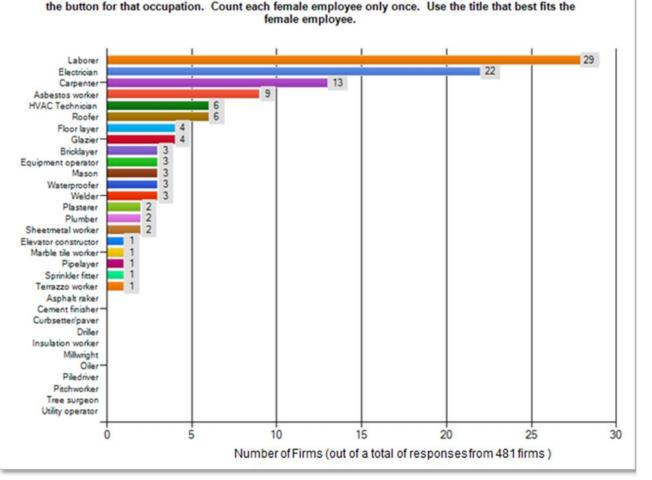
Contractor Survey of Women in Nontraditional Employment

One of the key workforce concerns of the AEP was the lack of consistent success in the ability of contractors to meet goals for direct employment of women¹.

To gather needed information about employment of women in selected trades and occupations and to learn about current outreach, recruitment and strategies used by contractors, DCAMM commissioned the New England Clean Energy Council Institute to conduct an online survey of contractors in many construction-related categories.

The survey was issued to 1,162 different contractors with responses from a total of 481 contractors (41% response rate). Results confirmed that there are not enough women in the "roster" of companies to meet goals.

¹ This workforce concern has been identified at DCAMM for all construction projects, not just AEP projects.



Does your firm currently employ any women, in Massachusetts, in either full-time or part-time positions, in any of the occupations below? If your firm has at least one woman employed in the occupation, click on

The graphic above represents responses from the 481 firms regarding employment of women in 22 construction occupations. Only 29 of the 481 firms that responded employ women as Laborers. Firms had fewer women employed in the other occupations, with no women employed in 11 occupations.





LESSON LEARNED

Workforce Development Takes Time

Increasing the involvement of women and people of color in non-traditional trades and occupations is a long-term effort requiring the active involvement of multiple stakeholders.

As demonstrated by the NECEC Institute survey of DCAMM contractors, the participation of women in many important trades and occupations is very low, and the number of contractors taking effective, independent action is also low.

The process of occupational selection and progress is a complex mix of cultural, personal, and economic factors. DCAMM and the AEP had limited independent ability to quickly affect the number of women and people of color in non-traditional occupations during the three year duration of the AEP Phase I.

DCAMM and other state agencies do have some leverage and can make use of this in coordination with others in the larger workforce development system. Some of these tools are detailed in the AEP Labor and Workforce Development summary report from the October 20, 2014 LWD Advisors' event, available at the following link. www.mass.gov/dcam/aep

| Metrics | Target | As of End of Phase I (Dec 31, 2014) |
|--------------------------|--------|---|
| Workforce (Construction) | | |
| - Minorities | 15.3% | 5.9% |
| - Women | 6.9% | 0.3% |
| M/WBE Participation | | |
| (Commitment / Awards) 3 | | |
| - Design Contracts | 17.9% | 12.7% |
| - Construction Contracts | 10.4% | 23.0% |

³ WBE participation is based on DCAMM Compliance data available on 26 projects in construction and 6 design contracts, which are currently the only ones reporting. This does not include DOER, Agency or Other projects.





Challenge 7: Reveal program goals and results to employees and public

To achieve the goals of the AEP, a partnership was established with facility managers. Facility managers were instrumental in selecting ECMs and coordinating implementation of ECMs and renewable energy systems at each site in collaboration with energy auditors and designers.

Collaborated with Facility Managers

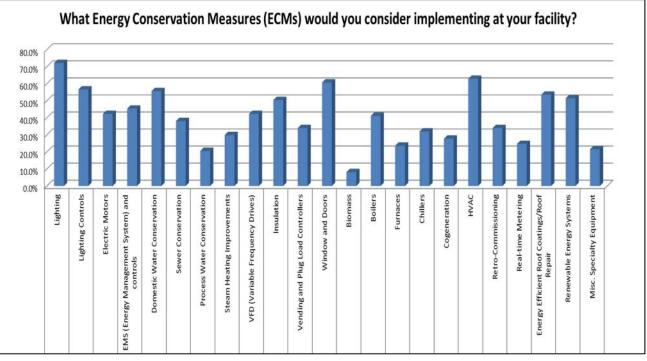
At the start of the AEP, DCAMM issued a survey to facility managers to help determine and prioritize the types of projects that would be included in the AEP. The secondary purpose was to verify the information in DCAMM's Capital Asset Management Information System (CAMIS) and update data where possible.

Issued AEP Newsletters

The AEP team produced thirteen (13) bimonthly newsletters which provided concise updates on the progress of the AEP, major milestones accomplished and other program highlights.

Approach: Establish an "InReach" program for facility managers

- Conducted survey to solicit needs of facility managers
- Provided AEP posters and certification plaques
- Supported broader communication of program including regional press events
- Develop training and ongoing measurement & verification (M&V) ideas



The graphic above represents responses from facility managers to one of the survey questions issued at the start of the AEP. Initial results of the survey indicated that energy conservation measures (ECMs) were needed at most facilities to improve the water and energy usage, correct deferred maintenance and improve long-term sustainability.





Provided AEP Kits to Help Facility Staff Communicate With Staff & Visitors

A comprehensive toolkit of information, FAQs, posters, certification plaques and awards was developed to help communicate AEP work at each site. The AEP rolled-out these materials with multiple agencies. Agencies were encouraged to work with the AEP team to customize the posters and include agency logos to convey the collaborative partnership between DCAMM and the client agencies. The AEP Welcome Package contained a welcome brochure, an example facility interest letter, an FAQ sheet and PowerPoint presentation. Posters were produced to notify occupants of the future work to be performed ("Coming Soon" posters), to communicate details of work being done ("Pardon Our Appearance" posters), and to celebrate achieving AEP Certification ("Certification" poster and plaque).



AEP Certification Plaques & Posters

The graphic above highlights the AEP Bi-monthly newsletters and some of the materials provided to facility managers in the AEP Kits.



Division of Capital Asset Management and Ms



Broader Communication of AEP

The AEP team supported the Commonwealth in the broader communication of the program by celebrating successes at individual facilities with the facility managers and agency leadership. Some of the notable events are highlighted below.

Northern Essex Community College (Haverhill) – Jan 2014

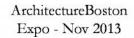




Pittsfield Armory - May 2014

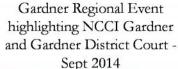


O'Neil Memorial Rink (Charlestown) - 2012

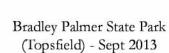




MASSBuys EXPO (Worcester) - May 2012









MAFMA's semi-annual meeting (Stow) - Nov 2013



Springfield Technical Community College - Jan 2013







LESSON LEARNED

Partnering with Facility Managers is Critical

While retrofitting MassDOT highway depots as shown in the picture below, an AEP utility vendor did not coordinate with the MassDOT facility manager to determine future uses of the buildings and equipment being evaluated, as required in an energy audit. As a result, the utility vendor specified replacement of lighting that was subsequently replaced by MassDOT as part of a separate project.

The AEP project was delayed and a change order was required, creating complexity that could have been avoided with engagement with the facility manager.

The AEP team has increased its outreach to different levels of facility staff to assist with coordination.



A highway depot as shown above is the base of highway operation for snow plowing, sign maintenance, and highway landscaping.





Challenge 8: Achieve Ambitious Energy Savings Goals

The Leading By Example (LBE) program was established in April 2007 by Executive Order No. 484, which set aggressive energy and greenhouse gas reduction goals and renewable energy goals for state government operations.

The AEP was established to accelerate the implementation of energy and water savings projects and help the Commonwealth comply with the goals.

The target of the AEP was to reduce energy consumption by 19% over 700 state sites. In the summer of 2013, which marked the half-way point of the AEP, DCAMM assessed the progress to date and concluded that current efforts were only producing an estimated 22% reduction. Higher targets for deeper savings were needed at select sites to achieve the LBE goals.

AEP Innovative Technology Vendor Intake Portal

New energy saving technologies were needed to achieve the desired energy savings.

The AEP team partnered with DOER and the Operational Services Division (the state's purchasing agency) to develop a processes for vetting, evaluating, piloting and procuring innovative, clean energy technologies.

The team published an online web intake form to funnel and screen potential vendors of innovative technologies. Thirty-seven (37) vendors have registered their products and services to date through the Portal.

Approach: Encourage Innovation and Introduce TZNE

- Innovation
 - o Published Innovative technology online web intake form
 - Piloted innovative technologies such as ground-source and air-source heat pumps
 - Participated in Massachusetts Clean Energy Center's (MassCEC) First Customer Expo
- Towards Zero Net Energy (TZNE)
 - o Held TZNE charrette
 - o Piloted 9 TZNE projects

| Mass.Gov state | Offices & Courts State | A-Z Topics State Form | s | No Active Alerts | Skip to main content | English |
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The web-based Innovative Technology Intake Form is shown above.





Implemented Innovative Technologies

The AEP partnered with facility managers to install innovative technologies that would achieve deeper energy savings. Some notable technologies are highlighted below.

Essex Sheriff's Department Demand Response and Custom Metalenclosed Switchgear



Sheriff's Departments. in Middlesex, Plymouth and Essex Automated water management system for lavaratories



Georges Island, DCR Off grid electricity with PV arrays with battery storage



Berkshire House of Correction Instantaneous water heater paired with condensing boilers and solar thermal



Concord Armory Burner Booster



Bristol Community College

ZNE lab with groundsource and air-source heat pumps







Towards Zero Net Energy (TZNE) Charrette

DCAMM and DOER determined that a new and innovative approach was required on select sites to achieve deeper energy savings.

The AEP leveraged the recommendations provided by the Massachusetts Zero Net Energy Task Force in 2009, to launch a new Towards Zero Net Energy (TZNE) retrofit approach. TZNE was defined as an approach to retrofitting facilities that, at a minimum, would achieve deeper energy retrofits (40% or more) and also would strive for zero net energy through the installation of renewable energy systems.

On September 13, 2013, the AEP hosted a charrette with 74 attendees from cross-functional disciplines including architects, energy engineers, planners, educators, and facility managers. This integrated team documented best practices from prior TZNE projects and made recommendations to DCAMM for specific actions to implement TZNE retrofits on DCAMM energy projects going forward. The *AEP TZNE Charrette Report* was issued to all participants.

TZNE Pilot Sites

The AEP piloted TZNE actions at nine sites across the Commonwealth, as follows:

- 1. Cape Cod Community College
- 2. Holyoke Community College
- 3. Greenfield Community College
- 4. Plymouth County Sheriff's Department
- 5. Essex Sheriff's Department (Lawrence and Middleton)
- 6. Georges Island
- 7. Lancaster Complex
- 8. North Central Correctional Institute
- 9. Soldiers' Home Chelsea

Actions recommended at the charrette were implemented at each site based on their specific dynamics and needs.



The AEP-hosted charrette, on September 13, 2013, brought together a group of 74 people from various disciplines to discuss how to implement Towards Zero Net Energy (TZNE) retrofits at state facilities.

TZNE "Just Do Its"

Some of the recommendations made to the DCAMM by the integrated team at the TZNE charette were actions that could be implemented without significant effort. These actions were called "Just Do Its". The following are the major categories of JDI actions

- 1. Assign the right team
- 2. Define TZNE goals and align with existing conditions
- 3. Get buy in at ALL levels
- 4. Establish integrated processes
- 5. Incorporate innovative solutions
- 6. Time retrofits with deferred maintenance
- 7. Manage post-project operations





Massachusetts as a First Customer Cleantech Expo

Purchasers and representatives from state agencies, authorities, and municipalities attended a half-day Massachusetts as a First Customer Cleantech Expo at the Bentley University Conference Center on October 1, 2014.

The Expo, sponsored by the Massachusetts Clean Energy Center, marked the launch of the Massachusetts as a First Customer Program, a pilot program that supports the introduction of cutting-edge commercially ready clean energy and water technologies into the marketplace.



As highlighted in the picture above, representatives from the AEP team and other public agencies explored innovative technologies with vendors at the Cleantech Expo.

LESSON LEARNED

Necessity is the catalyst for invention

Innovation across technologies, processes, and people is needed to achieve goals.

Similar to many of the community colleges in the Commonwealth, the majority of buildings at Holyoke Community College (HCC) were built with concrete structures without insulation.

HCC was a pilot TZNE site, and identifying an innovative solution to repair the structure and improve insulation is required to achieve significant energy use reduction. The AEP team has been researching solutions with support from a DOER Zero Net Energy grant.



The photo above shows the many concrete structures at HCC.





Challenge 9: Sustain the energy and water savings gains

Energy management has been an important part of the Commonwealth's Integrated Facility Management (IFM) initiative, because energy and water costs represent a considerable proportion of the operating costs of facilities. Energy accounts for as much as 10 percent of a local government's annual operating budget (U.S. DOE, 2005), a proportion that is likely to grow as energy prices rise.

In AEP Phase I, the Commonwealth had a goal to reduce annual energy costs by **\$43 million**, which is estimated to be a **25% reduction** in annual energy and water costs across the portfolio of facilities.

The AEP team, in collaboration with DCAMM's IFM initiative and facility managers, developed new methods of sustaining these impressive energy savings gains.

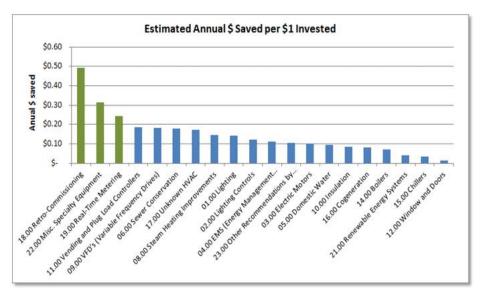
Information is Key

The most important step to maintaining savings is to effectively track and monitor annual energy and utility costs.

The key figure in this context is the energy usage performance metric of kBtu per square foot per year (kBtu/sqft-yr). This measurement enables the Commonwealth and facility managers to effectively assess a building's current energy efficiency relative to prior years as well as compared with other similar buildings.

Approach: Enhance Facility Energy Management Capabilities

- Mapped facility utility accounts to online energy reporting
- Developed site- or facility-based data management system
- Expanded training and new measurement and verification (M&V) approaches
- Increase participation in demand response programs



The AEP team analyzed energy savings gains and developed new M&V approaches. The graph above shows an analysis of energy savings based on data from DCAMM's energy project database.





On-line Tracking of Facility Energy Usage

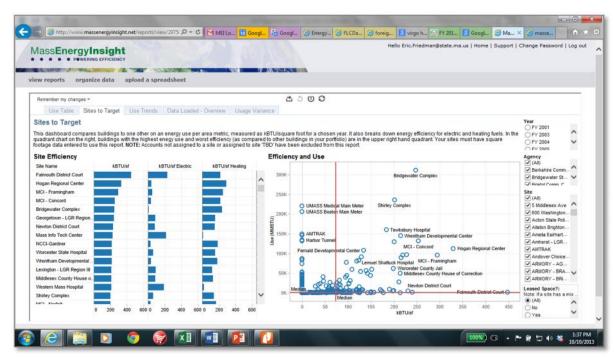
Through federal American Recovery and Reinvestment Act (ARRA) funding, DOER allocated almost \$10 million to install more than 1,300 energy meters across 25 million square feet of state buildings and transmit real-time energy consumption data to a central web-based portal. The Enterprise Energy Management System (EEMS), provides DCAMM, DOER and dozens of large state facilities and campuses with the ability to monitor in real-time how energy is being used on a building level. This technology has improved many sites' abilities to quickly respond to energy anomalies and react almost immediately to incorrect building schedules, helping to reduce energy use and costs.

At the start of the AEP, only **30%** of the facilities listed in CAMIS were mapped to Massachusetts Energy Insight (MEI), the web-based tool funded by DOER to provide online energy usage information by agency and site. A disconnect between the two tools made it difficult for service providers to define baseline energy usage that is necessary to calculate energy savings produced by potential ECMs. In addition, this disconnect made it nearly impossible for DCAMM to effectively track and monitor ongoing energy savings achieved from implementation of these ECMs.

Working closely with DOER and their vendor, Peregrine, the AEP team used information collected during energy audits performed during the AEP to map the utility accounts and meter information in MEI.

Through effective data management, DCAMM and DOER successfully mapped **70%** of the CAMIS site codes to utility account numbers in MEI, which represents **87%** of the energy usage across the AEP facility portfolio. This reflects an increase of approximately **57%** compared to the start of the AEP.

A new version of MEI was released during the AEP that provides webbased public access to utility account information linked to state facilities as listed in CAMIS.



The Massachusetts Energy Insight (MEI) dashboard provides users with analytic tools to compare buildings on an energy use per area metric.





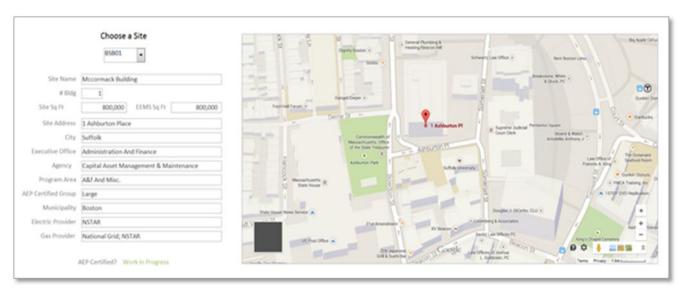
"Facility-based" Energy Data Management

The AEP needed a robust approach to manage data on a facility basis to identify energy savings opportunities as well as to track and report on project status and energy savings.

Prior to the start of the AEP, DCAMM's Energy team had been inputting energy data into a web-application called the Energy Project Database (EPDB), which was an effective approach to managing large comprehensive projects, the focus of DCAMM prior to the AEP.

To address the complex data management needs of the AEP, the team greatly expanded the existing energy data management capabilities to integrate data from multiple sources and create a "site-based" data structure and reporting solution.

After consultation with DCAMM's IT personnel, the AEP team developed functional upgrades to the EPDB and developed a new but temporary Facility Energy Database (FEDB). The long term solution is integration into the state's new CAMIS system.



The facility overview feature in the FEDB displays general information about a state facility and its location on a map.

Ongoing Performance Verification

Building systems and their controls change over time and tend to drift further and further away from the optimum condition. In addition, facility operators typically need training and support on new building systems to be able to effectively maintain them at the efficiency level intended.

As part of a TZNE pilot at the North Central Correctional Institution in Gardner, the AEP developed a new ongoing performance verification scope of work to verify that the building systems commissioned during the energy project implementation phase were performing at the level expected and documented during the design and construction phase of the project. DCAMM will compare actual weather-normalized energy usage of building systems to pre-installation energy usage to quantitatively determine if savings have been obtained and maintained.

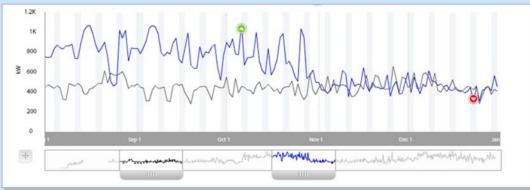




LESSON LEARNED

Energy Analytics Can Help Sustain Gains

Real-time facility energy usage data (EEMS) is available at 470 state buildings across 25 million square feet. Energy analytics performed on building usage can identify savings, as highlighted in the graph below.



UMass Lowell

| EEMS was used to analyze energy | Measure Type | # of Ident |
|---|--|------------|
| usage and identify measures to implement to reduce annual | Peak Demand and Usage Spikes | |
| energy costs. For example, the | Energy Intensity/Unexpected Usage | |
| energy usage at the Tsongas | Heating Optimization | |
| Center was 30% higher year over | Night Setback | |
| year. Based on this information, | Day-to-Day Comparison Extended Breaks | |
| the facility staff investigated the | Night Baseload | |
| situation, identified that the | Weekend Setback | |
| control system was not working | Delayed Start | |
| | Holidays | |
| properly and fixed the problem. | Total | |
| | | |

A list of common energy problems and estimated annual savings is listed in the table above.



Annual Savings

\$644,200

\$592,000

\$339,000

\$417,000

\$180,000

\$120,000

\$111,000

\$92.000

\$91,000

\$44,000

\$2,630,200

tified Measures

301

88

205

191

380

150

32

57

44

216

1,664



Summary

The table below provides a summary of the AEP challenges, approaches made by the AEP team to address these challenges, and the most important lessons learned as demonstrated through an example.

| | Challenge | Approach | Lessons Learned |
|----|--|--|--|
| 1. | Engage and align a wide range of stakeholdersa. A wide range of stakeholders needed to "buy in" to program as well as help with implementation of retrofits at 700 sites. | Establish and cultivate partnerships | Leverage existing programs to align goals |
| 2. | Translate goal of "greening" every facility into definable actions a. DCAMM did not know which sites owned by the Commonwealth needed to be retrofitted. b. There was a significant range of types and sizes of buildings and sites across the portfolio of 700 sites. c. DCAMM and DOER did not have a definition for "green" or "energy retrofit" to allow for r. d. In addition to the 700 owned sites, there were hundreds of sites leased from other owners that did not have a means to improve energy efficiency. | Identify sites to retrofit, defined "green", and create AEP Certification levels | What gets measured, gets done! |
| 3. | Retrofit 445 small and decentralized sites with new systema. Existing procurement methods would not enable DCAMM to meet timeline expectations. | Create NEW procurement method | Contractors don't always staff up for surge work |
| 4. | Complete program on-time (in 3 years) a. Needed to achieve goals within 3 years without knowing if it was possible. b. There were not enough existing vendors under contract to complete work. c. The existing durations for procurement of comprehensive energy projects for large sites would take too long. d. A financial plan was needed but the historic basis for estimating costs and schedule durations was not relevant to the new implementation methods to be utilized for the AEP. | Establish program controls with transparent reporting | Don't underestimate the multiple benefits of project controls and reporting |



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| e. There was no established program controls method for monitoring, tracking and reporting on project status across 700 sites on cost, schedule and risk. | | |
|---|--|---|
| 5. Ensure quality retrofits are installed while maintaining schedule a. The method for collecting energy audit data was not standardized or consistent across project types. b. Existing quality controls would not ensure quality of work and consistent pricing from all vendors across 700 sites. c. There was no method for identifying and addressing building codes and accessibility requirements that might need to be part of each retrofit. | Implement rigorous quality management | Simple projects are not simple: Marlborough District Court |
| 6. Promote access and opportunity for women / minority contractors and workers a. It was not clear if the AEP could achieve the M/WBE and workforce diversity participation goals. | Make labor and workforce connections | Workforce development takes time |
| 7. Reveal program goals and results to employees and public a. Needed to find a way to keep all parties informed of projects to enable timely decisions and to avoid duplication of efforts. | Establish an "InReach" program for facility managers | Partnering with facility managers is critical: MassDOT |
| 8. Achieve ambitious energy savings goals a. Utility accounts and meters were only known for 30% of sites, making it difficult to quantify potential annual energy savings and approve ECMs based on payback. b. Current approaches to energy retrofits would not achieve the targeted energy savings. c. There were many new and innovative clean energy technologies and solutions that were not being actively procured by vendors but could help achieve more energy savings. d. There were more cost effective approaches to finance small projects than using the model for large comprehensive projects. | Encourage innovation and introduce TZNE | Necessity is the catalyst for invention: Holyoke Community College |
| 9. Sustain the energy and water savings gains a. A new "Site-based" approach was needed to integrate data from multiple sources to enable AEP to assess energy usage performance, track savings and identify ECMs not implemented during initial work. b. Staff need to be trained to identify and respond to changes in energy and water consumption. | Enhance facility energy management capabilities | Energy analytics can help sustain gains: UMass Lowell |





AEP Going Forward (AEP 2.0)

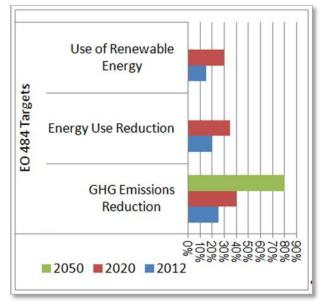




Leading By Example - 2020

Established in April 2007 through Executive Order No. 484 (EO 484), the Leading by Example Program (LBE) charges state government agencies to reduce its greenhouse gas emissions, cut energy consumption (per square foot and weather normalized), and increased use of renewable energy.

The graphic below highlights EO 484 Targets set for 2012, 2020 and 2050.



Great Progress... But More Work Required

DOER recently released a report titled, Executive Order 484: Toward Our Target that highlights progress achieved against the 2012 targets.

Overall, the Commonwealth met the goals for greenhouse gas reduction (**25% reduction** in 2012) with a 72% reduction in the use of heating oil between 2006 and 2013.

The Commonwealth now gets **15% of its electricity** from on-site generation from renewable energy sources and from natural gas powered combined heat and power (CHP) systems. A total of 7.7 MW of solar has been installed across state facilities, up from less than 100 kW in 2007, and there is 10.5 MW of installed wind power, up from 600 kW in 2007.

However, the Commonwealth has only achieved **3% energy use** reduction since 2004, well short of the 20% reduction target. The next phase of the AEP will focus on helping the Commonwealth achieve the 2020 target for energy use reduction of 35% as well as greenhouse gas reduction of 40%.

High Performance Buildings

Although much of the work associated with AEP has occurred at existing buildings, DCAMM and other agencies have been working to make sure that new buildings are constructed to high performance standards, helping to reduce the rate of growth in energy consumption and even reduce energy use over the long-term.

Since 2006, some 37 buildings have been certified to meet the Massachusetts LEED Plus standard. More impressively, 25 of these have been certified by the U.S. Green Building Council at the LEED Gold level (the 2nd highest rating), and 1 state facility has achieved the highest LEED platinum level.





Additionally, DCAMM has worked successfully to move beyond LEED, designing and constructing buildings that attempt to meet the zero net energy (ZNE) building standard. Two such ZNE buildings have been built, and there are others in various design and construction stages. These ZNE buildings will generate as much on-site energy from clean renewable sources as they consume over the course of a year.



The new Field Headquarters building for the Massachusetts Div. of Fisheries and Wildlife in Westborough achieved Net Zero Energy design through the implementation of a 290 kW rooftop PV system, geothermal heat pumps, radiant heating and cooling, high quality building envelope design and materials, storm water management, and a state of the art building management system.

How to Meet LBE 2020 Goals?

Work initiated by the AEP in Phase I is expected to achieve an energy use reduction of 25% across the portfolio of sites. This will greatly help the Commonwealth reach the 35% reduction goal, but more work will be required to achieve the goal.

As the AEP team implements projects that have been initiated during the AEP Phase I, the team is strategizing with DOER and others on how best to leverage the momentum established during Phase I of the AEP to focus AEP 2.0 on helping state government achieve the aggressive goals of LBE 2020.

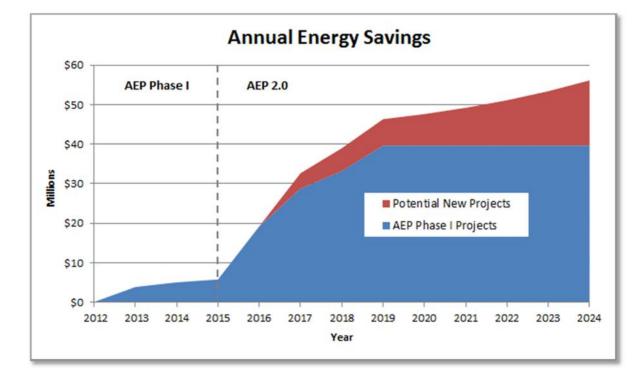


AEP 2.0 - Implementation of Ongoing Projects

DCAMM initiated work at 700 sites during Phase I of the AEP, and is in the process of completing the implementation of these ongoing projects. The Commonwealth is expected to save a total of \$40 million a year in energy costs from the implementation of these projects, which represents 25% reduction in energy use across the portfolio.

As highlighted in blue in the graph below, there is considerable work remaining to complete the implementation of these projects in AEP 2.0 and achieve the expected energy savings from projects initiated during AEP Phase I.

The AEP team is working diligently to implement these projects. In addition, the AEP team is working to sustain the energy savings gains from these projects as well as advance the performance of these facilities through potential new projects to achieve additional savings. The graph below highlights the potential new projects that will be implemented in red color.





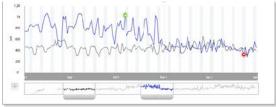


AEP 2.0

DCAMM, in partnership with DOER and state agencies, has initiated work going forward on AEP 2.0, as summarized below.



Weatherization at Uxbridge Court House



Data from Enterprise Energy Management System (EEMS) shows changes in energy use patterns



Burner Booster innovative technology to improve efficiency of oil systems. Installed at Concord Armory.

IMPLEMENT ONGOING PROJECTS

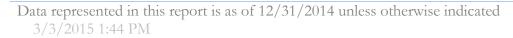
- Complete the 478 projects underway including 69 large comprehensive projects and retro-commissioning projects as well as 357 utility vendor projects
- Increase renewable energy projects
- Introduce more innovative technologies
- Implement retro-commissioning

SUSTAIN GAINS

- Increase use of metering and measuring
- Train facility managers & occupants
- Implement continuous commissioning
- Enhance communication and feedback

ADVANCE PERFORMANCE OF STATE BUILDINGS

- Develop additional project opportunities
- Deliver Towards Zero Net Energy Buildings
- Incorporate resiliency in new construction projects
- Offer additional creative financing, potentially using new partnerships and models such as power purchase agreements
- Model total cost of ownership





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Appendix A

Reports Issued by AEP

(as of December 31, 2014)



Documents Posted and Reports Issued by AEP

Documents posted on the DCAMM website:

Program Kick-Off

- AEP Implementation Committee Kick-off Meeting Presentation Mar 2, 2012
- AEP Leadership Steering Committee Kick-off Meeting Presentation – Mar 16, 2012

AEP Newsletters

- October 2012
- ➢ November 2012
- December 2012 / January 2013
- ➢ February /March 2013
- > April / May 2013
- ➢ June / July 2013
- August / September 2013
- October / November / December 2013
- ➢ January / February 2014
- ➢ April / May 2014
- ➢ June / July 2014
- ➢ August / September 2014
- October / November 2014

Leadership Steering Committee Quarterly Reports and Presentations

- ➢ 2012 Q2
- ➢ 2012 Q3
- ≻ 2012 Q4
- ➢ 2013 Q1
- ➢ 2013 Q2

- ➢ 2013 Q3
- ➢ 2013 Q4
- ➢ 2014 Q1
- ➤ 2014 Q2
- ➤ 2014 Q3

Partnerships & Outreach

- AEP Labor & Workforce Advisors Kick-off Meeting Presentation Jan 31, 2013
- Report from Jan 31, 2013 LWD Advisors Meeting
- Vendor Outreach Presentation Mar 5, 2013
- ➤ TZNE Charrette Report Sep 13, 2013
- Summary report from LWD Advisors Meeting of Apr 10, 2014
- ➢ Aiming Beyond Compliance case study Aug 2014
- Summary of LWD Advisors Meeting/Panels Dec 2014

Additional reports issued (please contact DCAMM for a copy):

Project Definition

- ▶ DCAMM Energy Team Report to Commissioner Oct 7, 2011
- Commonwealth Accelerated Energy Plan Report Nov 9, 2011
- Accelerated Energy Plan Outline & Presentation– Nov 2011
- AEP Conditions and Data Analysis Working Group Workbook Jan 12, 2012
- Data Collection and Analysis Report Feb 3, 2012
- LEAN Process Improvements for Energy Procurement Mar 9, 2012
- ➢ AEP: 700 facilities in 700 days − Apr 19, 2012
- Energy Usage Baseline Report Apr 19, 2012
- ➢ Evaluation of Consulting Firms for AEP − Jun 20, 2012





Supporting Research and Reports

- Summary of Contractor Interviews re: Diversity/MWBE use Dec 2013
- Results of Contractor Survey re: Employment of Women Dec 2014



Appendix B

AEP Leadership Steering Committee and Implementation Participants

(as of December 31, 2014)



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Members of LBE in Green, Members of Energy Efficiency and Sustainable Buildings group in Purple.

Leadership Steering Committee

Paul Antoniewicz (JUD) Scott Arneil (JUD) Carld Auguste (NStar) Mukiya Baker-Gomez (DCAMM) John Bello (JUD) Martin Benison (OSC) Kevin Bernier (Fort Hill) Celia Blue (RMV) Stephen Brown (DCR) Robert Cahill (DCAMM) Dana Clowes (ANF) Robert Coates (NU) Ned Codd (MassDOT) Deborah Coleman (EOHHS) Penelope Connor (NStar) Carole Cornelison (DCAMM) Hope Davis (DCAMM) Paul DiPaolo (DOC) Kevin Doyle (NECEC) John Duffy (UML) Sandra Duran (DCAMM) Anthony Duros (JUD) Mary Farrell (EHS) Kevin Flanigan (DCAMM) Bill Fogarty (Holyoke CC) Eric Friedman (DOER) Martha Goldsmith (DCAMM)

Jay Gonzalez (ANF) Anthony Granger (JUD) Taran Grigsby (DCAMM) Frank Gundal (NStar) Eileen Gunn (MassDOT) Katie Hammer (ANF) Col. Thomas Harrop (MAANG) Elizabeth Hemmond (CTR) Jenna Ide (DCAMM) Crystal Johnson (MassDOT) Scott Jordan (ANF) Rachel Kaprielian (EOLWD) Shirin Karanfiloglu (DCAMM) Meghan Kelly (ANF) Andrea Laing (DCAMM) Michael Lambert (DCAMM) Howard LaRosse (MassArt) James LeBlanc (ANF) Ken Lortie (DCAMM) Meg Lusardi (DOER) Erin McCabe (EHS) Ezra McCarthy (NGrid) Liz Minnis (DCAMM) BJ Mohammadipour (DCAMM) Col. Timothy Mullen (MAANG) Jack Murray (DCR) Joseph Naughton (RGT) Sean Nelson (RGT) Hongyan Oliver (MassDOT) Donald Pettey (MassDOT) Jeffrey Quick (DOC) Dolores Randolph (DCAMM) Sneha Sachar (NGrid)

Thomas Shack (CTR) Victoria Sheehan (MassDOT) Kathy Sheppard (CTR) Glen Shor (ANF) Luis Spencer (DOC) Mark Sylvia (EEA) Edward Terceiro (DHE) Patricia Vantine (EEA) Christina Wescott (EOLWD) Kevin Whalen (DCR) Carol White (Ngrid) Jules Williams (MassDOT)

Implementation Committee

Michael Abrahams (DCR) Ruth Alfasso (MDPH) Kevin Allen (DCR) Paul Antoniewicz (JUD) Dean Arnold (DCAMM) Carld Auguste (Nstar) Andy Backman (DCR) Mukiya Baker-Gomez (DCAMM) Andrew Bakinowski (DOC) Bob Barry (DCAMM) Kevin Bernier (Fort Hill) Ryan Bird (DCAMM) Celia Blue (RMV) Marco Brancato (MassBay CC) Erin Brault (DCAMM) Jessica Brand (DCAMM) Robbie Brown (DCAMM) Stephen Brown (DCR) Patrick Cahillane (HSD)



Scott Calisti (DCAMM) Dan Campbell (HCC) Kent Carlson (DCR) Jeremy Caron (DCAMM) AnPing Chi (DCAMM) Vincent Cirigliano (DCAMM) Robert Coates (NU) Penelope Conner (Nstar) John Crisley (DCAMM) Hope Davis (DCAMM) Doug Davis (DCAMM) Jillian DiMedio (DOER) Camila Dinamarca (DCAMM) Tony Dover (DCAMM) Kevin Doyle (NECEF) Kathy Driscoll (Mass Maritime) Beth Eromin (DCAMM) Ian Finlayson (DOER) James Freeley (DCAMM) Eric Friedman (DOER) Scott Gauthier (Quinsigamond CC) Alex Genereux (DCAMM) Jacob Glickel (MassPort) Martha Goldsmith (DCAMM) Richard Goulet (DCAMM) Trey Gowdy (DOER) Heidi Green (DCAMM) Christina Halfpenny (DOER) Bill Hanson (DCAMM) Ryan Harold (DCAMM) Bob Harvey (DCAMM) Mike Hayes (UMass/Dartmouth) Andrea Hessenius (DOER) Joanetta Hill (DOT) Joseph Hogan (DYS) Juanita Holler (UMass) Jenna Ide (DCAMM)

Jamieson Jacquart (UMass/Dartmouth) Dan Jarmolowicz (DCAMM) Jacqueline Johnson Yvonne Jones (DCR) Jack Keleher (DCAMM) Hugh Kelleher Charles Kelsey (DCAMM) Carol Kemp (DCAMM) Paul Hession (DOC) Brendan Kiley (DEP) Patrice Kish (DCR) Graham Knowland (DCAMM) Andrea Laing (DCAMM) James LeBlanc (ANF) John LeMay (Middlesex CC) David Lewin (DCAMM) Dave Lewis (DCAMM) Krista Lillis (DCAMM) Jay Linnehan (Middlesex CC) Nathanael Lloyd (DCR) James Malary (DCAMM) Michael Malia (DCAMM) Gretchen Manning (MCCEO) Lorraine Marchand-Barton (DCAMM) Maggie McCarey (DOER) Sean McGloin (NGrid) Christopher McIntosh (DCAMM) Kaitlyn Menyo (DCAMM) Rita Mercado (DCAMM) Barbara Meyer (DCAMM) Sally Miller (DCAMM) BJ Mohammadipour (DCAMM) Nicholas Moreno (DEP) Edward Nicosia (DCAMM) Dmitriy Nikolayev (OSD)

Steve O'Connor (DCAMM) John O'Donnell (DCAMM) Tom Paine (UMass/Dartmouth) Peter Pepe (DOC) Patricia Peterson (DCAMM) Elsie Petit-Frere (DCAMM) Robin Pfetsch (DCR) Paul Piraino (UMass/Lowell) Jeff Quick (MassDOT) Gilles Quintal (DCAMM) Stacey Quish (DCAMM) Edward Ransom (DCAMM) John Reardon (MEP/EEA) Michael Reinhardt (DCAMM) Richard Reney (Northshore CC) Mary Richmond (DCAMM) Tom Riley (DPS/BBRS) Gail Rosenberg (DCAMM) Erin Ross (DCAMM) Domenick Sacco (DCR) Arnold Sapenter (DEP) Ann Schiro (DCAMM/Courts) David Schmidt (MWCC) Victoria Sheehan (MassDOT) Raul Silva (DCR) John Sites (DDS) Michael Skinner (National Grid) Ezra Small (UMass) Maureen Socha (Springfield Tech CC) Raymond Soohoo (DCAMM) Ann Storer (DCAMM) Tom Tagan (DCAMM) Eric Teicholz Ruth Teixeira (DCR) Ed Terceiro (DHE) Bill Tivnan (DCAMM)

Data represented in this report is as of 12/31/2014 unless otherwise indicated 3/3/2015 1:44 PM

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David Tremblay (Fort Hill) Kanika Udomsay (DCAMM) Judith Underwood (Cape Cod CC) Maria Andrea Urrutia (DOER) Peter Walworth (MBTA) Dave Ward (EED) Al Weisz (DCAMM) Carol White (NGrid) Stephen White (DCAMM) Jamieson Wicks (MassArt) Allen Wiggin (DCAMM) PJ Wolf (BHCC) Julia Wolfe (OSD) Suzanne Wood (UMass Medical) Fred Yule (DCR) Donald Zanetti (BSH)



Appendix C

Performance Metrics

(as of December 31, 2014)





Performance Metrics

| Goal | Metrics | Target | As of End of Phase I (Dec 31, 2014) |
|--|--|---------------------|--|
| Accelerate delivery of energy projects to 3 years and maximize | Underway and Complete | 700 Sites | 700 Sites |
| energy and water conservation. | Large Sites (over 100,000 Sq. Ft.) | 77 | 77 |
| | Small Sites (under 100,000 Sq. Ft.) | 340 | 340 |
| | Occasional Use Sites | 191 | 191 |
| | Evaluated N/A Sites | 92 | 92 |
| | Investment in Energy Efficiency Measures (in \$ millions) | \$470 million | \$85.9 million |
| | Spending to date | | \$57.5 million ¹ |
| | Annual Energy & Water Savings (in \$ millions) | \$43 million | 5.8 million ² |
| | Average Payback on Total Contract Value (ECC) | ≤ 10 Years | 14.2 Years ⁶ |
| Communicate progress and encourage full participation. | DCAMM AEP Public Website Hits | 20% annual increase | Remained constant from initial quarter |
| | Issue bi-monthly newsletter (InReach) | Bi-Monthly | 13 Issued |
| Create clean energy job opportunities | Total Jobs Created ⁴ | 4,230 | 518 |
| across the Commonwealth. | - Total Construction Jobs (as reported) ⁵ | 2,115 | 122 |
| | Workforce (Construction) - Minorities - Women | 15.3% 6.9% | 5.9% 0.3% |
| | M/WBE Participation (Project Commitment / Awards) ³ | 0.970 | 0.370 |
| | - Design Contracts - Construction Contracts | 17.9% 10.4% | 12.7% 23.0% |

¹ Spending to date includes all sites that have been initiated.

² Actual includes all sites with a Status of "Implementation Started" or "Substantially Complete".

³ M/WBE participation is based on DCAMM Compliance data available on 26 projects in construction and 6 design contracts that are reporting. Does not include DOER, Agency or Other projects.

⁴ Total Jobs Created is estimated at 9 personnel per \$1 million spent and includes indirect jobs (administration, finance, etc.) employed by contractors (estimate developed by consultant for ARRA program.)

⁵ Construction Jobs Created is estimated at 4.5 personnel per \$1 million spent and only includes personnel assigned to construction jobs. This metric aligns with workforce jobs reported by contractor to DCAMM, which only include labor.

⁶ Average Payback on Total Contract Value includes Deferred Maintenance items which improve building condition but negatively affect Payback.





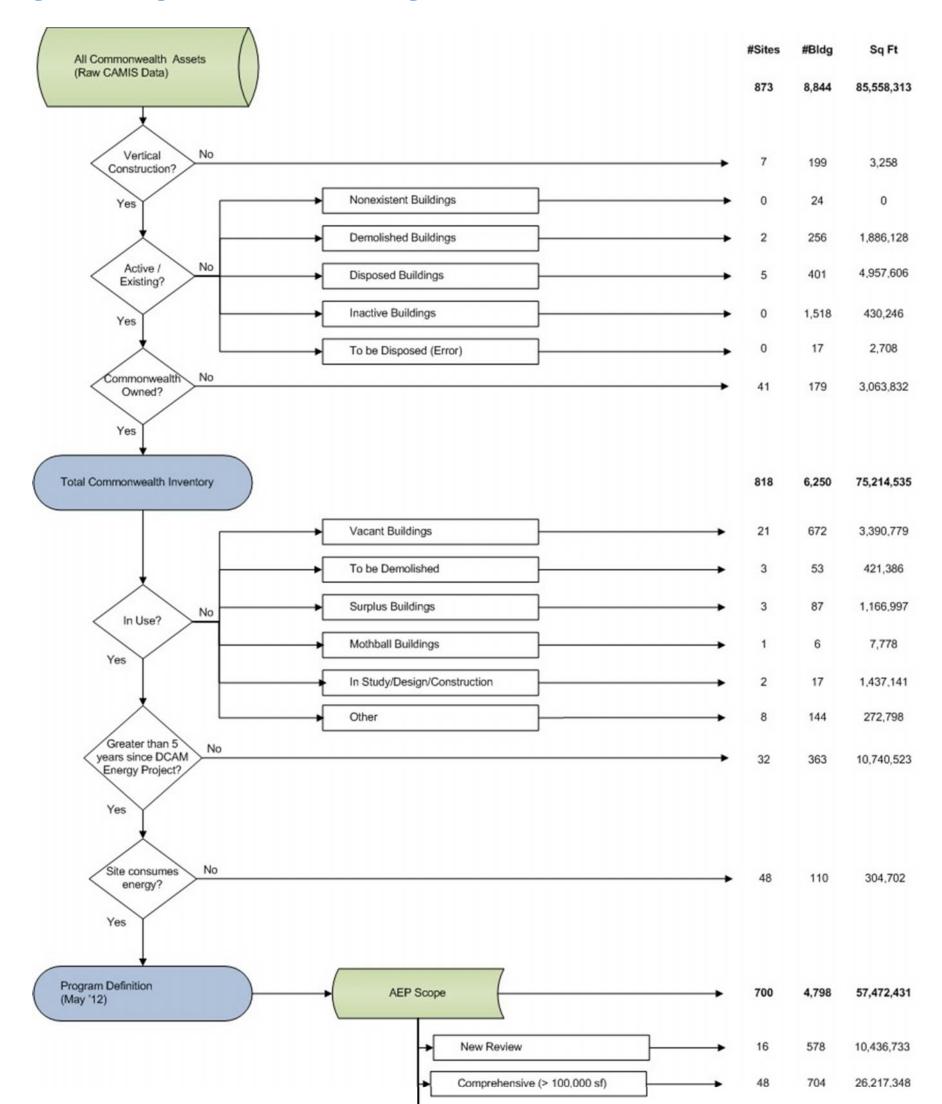
Appendix D

Initial Program Planning and Definition Methodologies

(as of December 31, 2014)



Program Planning and Definition Methodologies



| ► | Retro-Commission (>50,000 sf) |] → | 14 | 116 | 2,279,186 |
|----|-------------------------------|------------|-----|-------|-----------|
| ۰ | Whole Building Analysis |] | 162 | 661 | 7,604,509 |
| •[| Simple Fix |] → | 438 | 2,366 | 7,494,405 |
| ŀ | Evaluated N/A |]→ | 22 | 373 | 3,440,250 |



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Appendix E

AEP Certification Criteria

(As of December 31, 2014)



AEP Certification Criteria

The overall goal of the AEP is to reduce energy use, greenhouse gas emissions, and/or energy costs by 25% and to implement water retrofits at all feasible sites. Every effort will be made to achieve certification at individual sites.

| | 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 | Achieve a 25% reduction in at least 2 of the following categories: site energy use, greenhouse gas emissions, energy costs. Energy consumption must be reduced by at least 10% | Achieve a 20% reduction in at least 2 of the following categories: site energy use, greenhouse gas emissions, energy costs. If energy baseline unavailable, implement at least five energy conservation measures. Energy consumption must be reduced by at least 10% | Meet the reduction threshold for small sites or if baseline unavailable implement at least three energy conservation measures. |
| | Large and Small Sites | | Occasional Use Sites |
| AEP Certified Plus | Achieve a 50% reduction in at least 2 of the following categories: site energy use, greenhouse gas emissions, energy costs; Energy consumption must be reduced by at least 20% Establish energy and facility maintenance training program for staff; and Develop plan for preventative maintenance to keep systems operating at optimum efficiency. | | Not eligible |



Division of Capital Asset Management and Maintenance



Appendix F

Types of Energy Projects

(as of December 31, 2014)



Division of Capital Asset Management and Maintenance $D \cdot C \cdot A \cdot M \cdot M$



Types of Energy Projects

DCAMM and DOER have developed a comprehensive implementation strategy for sites in the AEP. The implementation strategy and conservation measures recommended are based on several site characteristics such as size, building usage, and energy usage intensity. This approach allows the Commonwealth to leverage existing retrofit programs with utilities and facility maintenance staff.

Towards Zero Net Energy Retrofits

The Massachusetts Zero Net Energy Buildings (ZNEB) Task Force issued recommendations in March 2009 to guide the Commonwealth on the delivery of ZNEBs. The guiding principle was that achieving the zero net energy performance goal may be infeasible for some buildings, but the broader state objective should be to reduce energy loads to the minimum practical level, produce onsite as much as the required energy as reasonable from renewable resources, and purchase locally generated renewable energy to satisfy remaining needs.

DCAMM and DOER are establishing a new innovative approach to retrofitting buildings and sites in the AEP that, at minimum, achieve deeper energy retrofits (40% or more in annual energy savings) and incorporate cost effective onsite renewable energy systems.

Comprehensive Retrofits

E.O. 484 requires that DCAMM retrofit all sites over 100,000 square feet. Comprehensive retrofit projects involve complex measures requiring longer construction durations and, in most cases, a design phase. These measures include the combination of major renovations such as HVAC systems, energy management systems, and building envelope improvements. Comprehensive projects will provide the greatest savings and improvements in energy efficiency across the state inventory.

Utility-Approved Vendor Contracting

This process will be used for the majority of the sites and buildings in the AEP, but only represents a small percentage of square footage in the AEP. These sites generally have less than 50,000 sq. ft. of facility space with relatively simple electrical equipment or HVAC systems. The majority of sites being retrofitted through this process are managed by the Department of Conservation and Recreation (DCR) and the Massachusetts Department of Transportation (MassDOT).

The majority of energy conservation measures will be lighting upgrades (bulbs, fixtures, lamps, LEDs), lighting controls, HVAC filters, resetting control set points, programmable thermostats, simple weatherization (weather stripping, caulking, window film, etc.) and water conservation.





Retro-Commissioning (RCx)

AEP Phase I Report

E.O. 484 requires that all buildings over 50,000 square feet be retro-commissioned; however, it is a recommended practice for any modern building with an energy management system. Retro-commissioning is the application of the engineering and operational analysis to existing buildings that improves how building equipment and systems function together, which is typically called the commissioning process. Depending on the age of the building, retro-commissioning can often resolve problems that occurred during design or construction, or address problems that have developed throughout the building's life. Retro-commissioning improves a building's operations and maintenance (O&M) procedures to enhance overall building performance.

Many of the sites that have a building with over 50,000 square feet of space include additional, smaller buildings on the same site. Typically, retrocommissioning of smaller buildings does not generate enough savings to justify an investment in detailed engineering analyses. As such, retrocommissioning is planned only for the larger buildings on these sites; other approaches will be pursued for the smaller buildings.

New Review

DCAMM retrofitted 16 sites between 2000 and 2007 that will be re-evaluated for additional savings as part of the AEP. DCAMM will review these sites, documenting results since the original retrofit and identifying additional energy savings potential since the last major improvement was completed. Savings will only be achieved if DCAMM identifies a viable project.

Other

There are sites in the AEP Portfolio that are being retrofitted by a project management team other than DCAMM's Energy Team. These sites are being retrofitted directly by the agency, DOER or through a major renovation project through DCAMM's Office of Planning, Design and Construction (OPDC).

Evaluated – N/A

There are sites in the AEP portfolio that do not consume energy resources or do not require energy retrofits because they have recently been retrofitted, or some sites were determined to have extremely low or no potential to save energy. This may be due to the fact that these sites are scheduled to close before the useful life of new measures is reached, they are slated for a major renovation, or their structures do not consume energy (fire towers, etc.).



Division of Capital Asset Management and Mainte

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AEP Phase I Report

Appendix G

Quality Control Checks Performed During Phase I

(as of December 31, 2014)



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Quality Control Sites for AEP Phase 1

| Project Number | Site Code | Site Name | Technical Review | Site Inspection | Construction Review |
|----------------------|-----------|----------------------------------|-------------------|-----------------|---------------------|
| Utility Vendor Sites | | | | | |
| AEP1301E UT1 | TRC21 | Fitchburg District Court | 20-Feb-09 | 1-May-10 | 21-May-10 |
| | TRC24 | Gardner District Court | 20-Feb-09 | 11-Jul-09 | 11-Nov-09 |
| AEP1407E UT1 | DPW28 | MacArthur Blvd Falmouth | 22-May-10 | NA | NA |
| | DPW64 | Falmouth Depot | 22-May-10 | NA | NA |
| AEP1302E UT1 | MIL05 | Braintree Armory | 9-Apr-09 | 17-Apr-09 | 3-Aug-10 |
| | MIL42 | Quincy Armory | 3-Apr-09 | 17-Apr-09 | Not Completed |
| AEP1303E UT1 | MIL39 | Northbridge Armory | 18-Jun-09 | 5-Nov-09 | 22-Sep-10 |
| | MIL27 | Melrose Armory | 6-Jun-09 | 28-Oct-09 | Not Completed |
| AEP1304E UT1 | DPW42 | Chelmsford Depot | 24-Jul-09 | 30-Mar-10 | 30-Mar-10 |
| | DPW86 | Lawrence Winthrop Ave | 11-Jun-09 | 30-Mar-10 | 30-Mar-10 |
| AEP1305E UT1 | UMA03 | Marine Biological Station | 4-Mar-10 | 30-Mar-10 | Not Completed |
| | UMA10 | Agricultural Research Station | 1-Apr-10 | NA | NA |
| AEP1306E UT1 | DPW96 | Medford Facility | 22-Jun-1 0 | 26-Jun-10 | Not Completed |
| | DPWC5 | Reading Depot | 23-Jun-1 0 | 26-Jun-10 | Not Completed |
| AEP1307E UT1 | MAUD2 | Maudslay State Park | 1-Jan-10 | 29-Jan-10 | Not Completed |
| | BRAD2 | Bradley Palmer State Park | 18-Aug-09 | 28-Oct-09 | Not Completed |
| | HALB2 | Halibut Point State Park | 1-Aug-09 | 27-Feb-09 | Not Completed |
| | WILB3 | Willard Brook State Forest | 27-Mar-10 | NA | NA |
| AEP1406E UT1 | MDC32 | Olsen Memorial Pool | 25-May-10 | NA | NA |
| AEP1411 UT1 | MDC47 | Bryan Memorial Rink | 3 0-Jul-10 | NA | NA |
| AEP1308E UT1 | VET01 | Vet Cemetery Whichenton | 19-Nov-09 | 19-Feb-10 | 29-Oct-10 |
| | FWE21 | Plum Island Fishery | 30-Dec-09 | 29-Jan-10 | 29-Oct-10 |
| AEP1310E UT1 | TRC96 | Falmouth District-Juvenile Court | 21-Sep-10 | NA | NA |
| AEP1414E UT1 | DPWG3 | Westford Depot | 22-Sep-10 | NA | NA |
| | DPWE4 | DOT Sturbridge Depot | 23-Nov-10 | NA | NA |
| AEP1309E UT1 | DMR11 | LGR Region II Grafton | 3 0-Jan-10 | 18-Feb-10 | Not Completed |
| AEP1402E UT1 | FREE1 | Freetown-Fall River State Forest | 25-Aug-10 | 27-Sep-10 | Not Completed |
| | MDC56 | Ponkapoag Golf Course | 21-Oct-10 | NA | NA |
| | WATS1 | Watson Pond State Park | 21-Dec-10 | NA | NA |



| Project Number | Site Code | Site Name | Technical Review | Site Inspection | Construction Review |
|---------------------|-----------|---------------------------------------|-------------------|----------------------|---------------------|
| AEP1311E UT1 | DMR01 | LGR Region 1 Amherst | 17-Jul-09 | 27-Jan-10 | 9-Dec-10 |
| | DMH29 | Gandara MH Center | 17-Jul-09 | 19-Feb-10 | 4-Dec-1 0 |
| | MIL40 | Pittsfield Armory | 31-Mar-1 0 | NA | NA |
| AEP1314E UT1 | FWE27 | Roger Reed Salmon Hatchery | 30-Apr-10 | 30-May-10 | Not Completed |
| | LWSP4 | Lake Wyola State Park | 9-Dec-10 | NA | NA |
| AEP1404E UT1 | DPW02 | Athol Depot | 27-Apr-10 | NA | NA |
| AEP1403E UT1 | CHPL4 | Sara Jane Sherman Pool | 21-Oct-10 | NA | NA |
| | SFPL4 | John H. Thomas Memorial Pool | 23-Nov-10 | NA | NA |
| AEP1312E UT1 | SDH02 | Sheriff's Hampden Springfield | 25-Jun-10 | 4-Dec-10 | Not Completed |
| | SDB01 | Sherif's Berkshire Old | 25-Jun-10 | NA | NA |
| | SDP01 | Sheriff's Department Plymouth | 25-Nov-10 | NA | NA |
| AEP1409E UT1 | DPW09 | MDH Becket Depot | 9-Dec-10 | NA | NA |
| AEP1405E UT1 | MDC81 | Ulin Memorial Rink | 25-May-10 | NA | NA |
| | MDCC8 | Dealtry Pool | 30-Apr-10 | NA | NA |
| AEP1401E UT1 | MDC33 | Bajko Memorial Rink | 31-Jul-1 0 | 30-Nov-10 | Not Completed |
| | HVRK2 | Veterans Memorial Rink | 31-Jul-1 0 | NA | NA |
| | MDC45 | Marine Park Reservation (Murphy Rink) | 22-Oct-10 | NA | NA |
| | MDC11 | Seriti Memorial Rink | 24-Nov-10 | NA | NA |
| Comprehensive Sites | | | | | |
| BSB1205 ES1 | DCP02 | State Transportation Building | 28-Aug-10 | Not Completed | Not Completed |
| DCP1329E ES1 | DCP27 | Mass Information Technology Center | 28-Jul-10 | NA | NA |
| NAC1102 EC1 | NAC00 | Mass College of Liberal Arts | 11-May-10 | 29-Jun-10 | Not Completed |
| TRC1401E ES1 | TRC31 | Lowell / Lawrence District Court | 28-Oct-10 | NA | NA |
| SDF1401E ES1 | SDF00 | Sheriff's Franklin | 16-Sep-10 | Not Completed | Not Completed |
| DCR1302E ES1 | MDCD9 | Georges Island | 22-Nov-10 | NA | NA |
| RCC1301E ES1 | RCC00 | Roxbury Community College | 11-Nov-10 | NA | NA |
| DOC1301E ES1 | DOC05 | MCI - Framingham | 30-Apr-10 | Not Completed | Not Completed |
| CHE1401E ES1 | CHE00 | Soldiers Home Chelsea | 17-Dec-10 | NA | NA |
| SSA1101 ES1 | SSA00 | Salem State University | 25-May-10 | Performance Contract | 18-Dec-10 |



| Project Number | Site Code | Site Name | Technical Review | Site Inspection | Construction Review |
|---------------------|-----------|-------------------------------|-------------------|-----------------|---------------------|
| Retro-Commissioning | g Sites | | | | |
| CME1501E RX1 | CME00 | Chief Medical Examiner Boston | Not Completed | Not Completed | Not Completed |
| DYS1302E RX1 | DYS03 | Central Youth Service Center | 4-Jun-09 | 24-Jun-09 | Not Completed |
| DES1401E RX1 | DES01 | Job Center Fall River | Not Completed | NA | NA |
| New Review Sites | | | | | |
| GCC1402E ES1 | GCC00 | Greenfield Community College | December 28, 2010 | Not Completed | NA |
| BSC1501E ES1 | BCC00 | Bridgewater State College | Not Completed | NA | NA |

"Not Completed" indicates QC Review could not be performed because site never reached this level of completion in AEP Phase 1.



AEP Phase I Report

Appendix H

Phase I Progress Status - Site Listing by Program Area

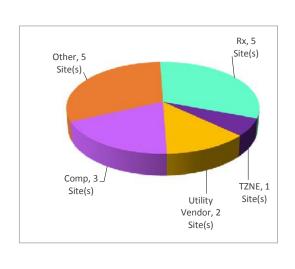
(as of December 31, 2014)

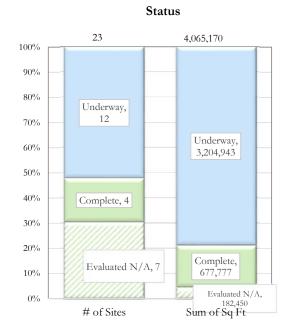


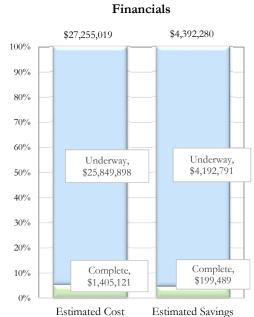
AEP Phase 1 Progress Summary

Implementation Method

A&F And Misc.





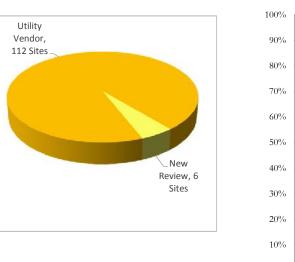


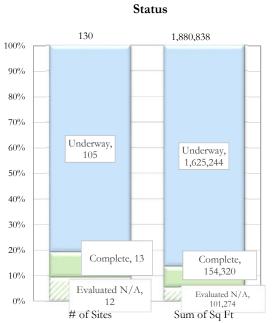


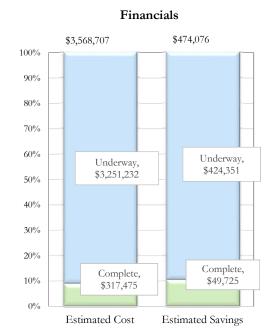
| | Site Information | | | | | А | EP Program Status | s | | | | AEP Certif | fication |
|-------------------------------------|-------------------------------------|-----------|---------------|-----------|----------------|-------------------------|---------------------------|----|--------------------------|----|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | rent Working Estimate | | Annual Savings | AEP Certified Group | AEP Certified |
| A&F And Misc. | | | | - | • | • | | | | • | | | |
| Capital Asset Ma | anagement & Maintenance | | | - | | | | | | | | | |
| BSB00 | Hurley Building | 1 | Boston | 347,022 | BSB1204 DC1 | Other | Audit Complete | \$ | - | \$ | 300,000 | Large | |
| BSB01 | McCormack Building | 1 | Boston | 800,000 | DCPTBD3 | Other | Initiated | \$ | - | \$ | 732,580 | Large | |
| BSB03 | State House | 1 | Boston | 650,000 | AEP1306E UT1 | Utility Vendor | Implementation Started | \$ | 22,341 | \$ | - | Large | |
| | State House | | | | BSB1201 EC1 | FA - Comp | Substantially Complete | \$ | 1,285,250 | \$ | 179,904 | Large | No |
| BSB03 | State House | 1 | Boston | 650,000 | BSB1402E EC1 | FA - Comp | Audit Complete | \$ | 6,514,750 | \$ | 377,143 | Large | |
| BSB04 | Pittsfield State Office Site | 1 | Pittsfield | 54,062 | DCP1417 HS2 | Other | Audit Complete | \$ | - | \$ | 41,717 | Small | |
| BSB05 | Springfield State Office Liberty St | 1 | Springfield | 21,000 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| BSB06 | Lindemann Building | 1 | Boston | 225,875 | DCP1021 ES1 | FA - Comp | Audit Complete | \$ | 4,468,736 | \$ | 198,912 | Large | |
| DCP02 | State Transportation Building | 1 | Boston | 901,000 | DCP1118 HS1 | Other | Audit Complete | \$ | - | \$ | 1,092,165 | Large | |
| DCP06 | 1010 Comm Ave | 1 | Brookline | 53,868 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| DCP10 | Lancaster Complex OSP | 21 | Lancaster | 176,822 | DCP1510E ES1 | TZNE | Initiated | \$ | 2,121,864 | \$ | 176,822 | Large | |
| DCP15 | Springfield State Office Dwight St | 1 | Springfield | 125,000 | DCP1228 FC1 | Other | Implementation Started | \$ | - | \$ | 116,855 | Large | |
| DCP18 | Oakdale Complex OSP | 4 | West Boylston | 41,530 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| DCP22 | Our Lady Of The Afflicted Rectory | 2 | Waltham | 5,412 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| DCP23 | North American Indian Affairs | 1 | Boston | 39,000 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| DCP24 | Old Grafton State Hospital OSP | 3 | Grafton | 2,660 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| DCP27 | Contor | 1 | Chelsea | 425,000 | DCP1329E ES1 | FA - Comp | Audit Complete | \$ | 11,216,764 | \$ | 1,051,706 | Large | |
| DCP30 | Surplus Medfield State Hospital | 3 | Medfield | 18,980 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| Department Of | Veterans Services | | | - | | | | | | | | | |
| VET00 | Veterans Cemetery Agawam | 3 | Agawam | 9,887 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 32,771 | \$ | 3,785 | Small | No |
| VET01 | Veterans Cemetery Winchendon | 6 | Winchendon | 10,240 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 59,200 | \$ | 2,204 | Small | No |
| Division Of Em | ployment And Training | | | - | | | | | | | | | |
| DES00 | Job Center Brockton | 1 | Brockton | 29,562 | DES1401E RX1 | FA - Rx | Initiated | \$ | 227,083 | | 18,215 | Small | |
| DES01 | Job Center Fall River | 1 | Fall River | , | DES1401E RX1 | FA - Rx | Initiated | \$ | 112,360 | | 4,603 | Small | |
| DES03 | Job Center New Bedford | 1 | New Bedford | 10,000 | DES1401E RX1 | FA - Rx | Initiated | \$ | 106,000 | \$ | 8,833 | Small | |
| DES04 | Job Center Taunton | 1 | Taunton | 7,650 | ELW1300 RX1 | FA - Rx | Substantially Complete | \$ | 27,900 | \$ | 13,596 | Small | Yes |
| Secretary Of Sta | 1 | | | - | | | | | | | | | |
| SEC00 | State Archives Building | 1 | Boston | , | SEC1501E RX1 | FA - Rx | Initiated | \$ | 1,060,000 | | 73,239 | Small | |
| | | 23 | | 4,065,170 | | | | \$ | 27,255,019 | \$ | 4,392,280 | | |

Implementation Method

y MassDOT









| | Site Information | | | | | A | EP Program Status | ; | | | AEP Certi | fication |
|-------------------------------------|-------------------------------|-----------|--------------|---------|----------------|-------------------------|---------------------------|--------------------------|------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | Current Work Estimate | ting | Annual Savings | AEP Certified Group | AEP Certified |
| MassDOT | * | | | - | | | | | | | | |
| Massachusetts D | epartment Of Transportation | | | - | | | | | | | | |
| DPW01 | Andover Depot-D4 | 6 | Andover | 8,505 | Evaluated NA | Evaluated NA | Evaluated N/A | \$- | | \$- | Evaluated N/A | N/A |
| DPW02 | Athol Depot-D2 | 5 | Athol | 8,900 | AEP1404E UT1 | Utility Vendor | Audit Complete | \$ 23,9 | 76 | \$ 5,037 | Small | |
| DPW03 | Avon Depot-D5 | 5 | Avon | 8,776 | AEP1408E UT1 | Utility Vendor | Initiated | \$ 17,5 | 52 | \$ 1,755 | Small | |
| DPW06 | Barnstable Depot-D5 | 3 | Barnstable | 5,032 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ 5,3 | 33 | \$ 743 | Small | TBD |
| DPW07 | Park & Ride Facility-D5 | 4 | Barnstable | 1,600 | AEP1407E UT1 | Utility Vendor | Audit Complete | \$ 65,6 | 90 | \$ 8,055 | Small | |
| DPW09 | Becket Depot-D1 | 7 | Becket | 8,902 | AEP1409E UT1 | Utility Vendor | Initiated | \$ 58,6 | 87 | \$ 3,091 | Small | |
| DPW10 | Bedford Depot-D4 | 6 | Bedford | 8,142 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | | \$ - | Evaluated N/A | N/A |
| DPW11 | Belchertown Depot-D2 | 8 | Belchertown | 9,801 | AEP1404E UT1 | Utility Vendor | Audit Complete | \$ 49,7 | 57 | \$ 4,509 | Small | |
| DPW12 | Bernardston Depot-D2 | 8 | Bernardston | 19,340 | AEP1404E UT1 | Utility Vendor | Initiated | \$ 38,0 | 80 | \$ 3,868 | Small | |
| DPW15 | Salem/Beverly Bridge House-D4 | 1 | Beverly | 600 | AEP1304E UT1 | Utility Vendor | Implementation Started | \$ 4,0 | 070 | \$ 594 | Occasional | Yes |
| DPW24 | Wang Building | 2 | Boston | 104,096 | DOT1501E ES1 | New Review | Audit Complete | \$ - | | \$ 76,239 | Large | |
| DPW27 | So Boston D St Facility - D4 | 3 | Boston | 29,568 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | | \$ - | Evaluated N/A | |
| DPW28 | Macarthur Blvd Depot-D5 | 3 | Bourne | 5,780 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ 3,3 | 28 | \$ 79 | Small | No |
| DPW29 | Sagamore Depot-D5 | 4 | Bourne | 14,148 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ 25,2 | 271 | \$ 3,153 | Small | Yes |
| DPW30 | Boxborough Depot D3 | 3 | Boxborough | 11,500 | AEP1506E UT1 | Utility Vendor | Initiated | \$ 23,0 | 000 | \$ 2,300 | Small | |
| DPW31 | Boxford Depot-D4 | 2 | Boxford | 5,080 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ 7,9 | 69 | \$ 1,368 | Small | No |
| DPW32 | Boylston Depot-D3 | 2 | Boylston | 1,825 | AEP1506E UT1 | Utility Vendor | Initiated | \$ 3,0 | 50 | \$ 365 | Small | |
| DPW33 | Braintree Depot-D4 | 15 | Braintree | 27,970 | AEP1410E UT1 | Utility Vendor | Initiated | \$ 55,9 | 40 | \$ 5,594 | Small | |
| DPW35 | Bridgewater Depot-D5 | 16 | Bridgewater | 40,883 | AEP1408E UT1 | Utility Vendor | Initiated | \$ 81,7 | 66 | \$ 8,177 | Small | |
| DPW37 | Buckland Depot-D1 | 5 | Buckland | 11,109 | AEP1409E UT1 | Utility Vendor | Initiated | \$ 22,2 | 18 | \$ 2,222 | Small | |
| DPW38 | Burlington Depot-D4 | 7 | Burlington | 8,414 | AEP1306E UT1 | Utility Vendor | Implementation Started | \$ 5,9 | 06 | \$ 588 | Small | No |
| DPW41 | Charlton Depot-D3 | 3 | Charlton | 10,650 | AEP1506E UT1 | Utility Vendor | Initiated | \$ 21,3 | 00 | \$ 2,130 | Small | |
| DPW42 | Chelmsford Depot-D4 | 11 | Chelmsford | 21,336 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ 47,7 | 86 | \$ 8,569 | Small | No |
| DPW44 | Cohasset Depot-D5 | 10 | Cohasset | 19,590 | AEP1408E UT1 | Utility Vendor | Initiated | \$ 39,1 | 80 | \$ 3,918 | Small | |
| DPW46 | Crosby Corner Facility | 3 | Concord | | AEP1306E UT1 | Utility Vendor | Implementation Started | | 98 | | Small | TBD |
| DPW47 | Elm St Facility-D4 | 4 | Concord | 20,070 | AEP1306E UT1 | Utility Vendor | Implementation Started | \$ 30,2 | 271 | \$ 6,982 | Small | No |
| DPW48 | Dalton Depot-D1 | 7 | Dalton | 15,818 | AEP1409E UT1 | Utility Vendor | Initiated | \$ 60,6 | 89 | \$ 3,329 | Small | |
| DPW50 | Dartmouth Faunce Corner-D5 | 10 | Dartmouth | , | AEP1410E UT1 | Utility Vendor | Initiated | · · · · · | 08 | . , | Small | |
| DPW51 | Dartmouth State Road-D5 | 4 | Dartmouth | , | AEP1410E UT1 | Utility Vendor | Initiated | | -08 | · · · · · · | Small | |
| DPW53 | Deerfield Depot-D2 | 10 | Deerfield | , | AEP1404E UT1 | Utility Vendor | Initiated | | 42 | - / | Small | |

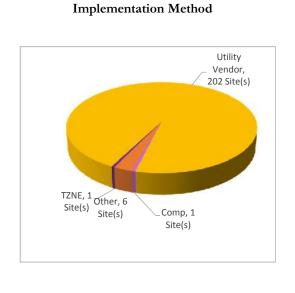
| | Site Information | | | | | A | EP Program Status | 3 | | | AEP Certi | fication |
|-------------------------------------|-------------------------------------|-----------|--------------|--------|----------------|-------------------------|---------------------------|----|-----------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | nt Working stimate | Annual Savings | AEP Certified Group | AEP Certified |
| DPW54 | Dennis Depot-D5 | 3 | Dennis | 6,480 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ | 5,160 | \$ 386 | Small | No |
| DPW57 | Duxbury Depot-D5 | 5 | Duxbury | 11,820 | AEP1410E UT1 | Utility Vendor | Initiated | \$ | 23,640 | \$ 2,364 | Small | |
| DPW59 | Erving Depot-D2 | 4 | Erving | 7,179 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| DPW61 | Braga Bridge-D5 | 3 | Fall River | 7,120 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 14,240 | \$ 1,424 | Small | |
| DPW62 | Fall River Main/Alton-D5 | 3 | Fall River | 2,536 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 5,072 | \$ 507 | Small | |
| DPW63 | State Pier Facility | 2 | Fall River | 96,120 | AEP1410E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ 19,224 | Small | |
| DPW64 | Falmouth Depot-D5 | 7 | Falmouth | 11,132 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ | 10,938 | \$ 1,011 | Small | No |
| DPW67 | Foxborough Depot-D5 | 10 | Foxborough | 7,876 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 15,752 | \$ 1,575 | Small | |
| DPW68 | Franklin Depot-D3 | 6 | Franklin | 15,122 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 30,244 | \$ 3,024 | Small | |
| DPW69 | Freetown Braley Road-D5 | 5 | Freetown | 13,556 | AEP1410E UT1 | Utility Vendor | Initiated | \$ | 27,112 | \$ 2,711 | Small | |
| DPW70 | Freetown So Main Street-D5 | 5 | Freetown | 7,092 | AEP1410E UT1 | Utility Vendor | Initiated | \$ | 14,184 | \$ 1,418 | Small | |
| DPW71 | Gloucester Drawbridge-D4 | 1 | Gloucester | 680 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ | 5,284 | \$ 723 | Occasional | Yes |
| DPW73 | Goshen Depot-D1 | 7 | Goshen | 12,193 | AEP1409E UT1 | Utility Vendor | Initiated | \$ | 24,386 | \$ 2,439 | Small | |
| DPW74 | Granby Depot-D2 | 1 | Granby | 2,400 | AEP1404E UT1 | Utility Vendor | Substantially Complete | \$ | 3,340 | \$ 421 | Occasional | Yes |
| DPW75 | Greenfield Depot-D2 | 2 | Greenfield | 3,596 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| DPW76 | Hanover Depot-D5 | 6 | Hanover | 12,514 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 25,028 | \$ 2,503 | Small | |
| DPW78 | Haverhill Depot-D4 | 4 | Haverhill | 12,705 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ | 26,124 | \$ 4,015 | Small | No |
| DPW79 | Hopkinton Depot-D3 | 4 | Hopkinton | 10,906 | AEP1414E UT1 | Utility Vendor | Audit Complete | \$ | 22,761 | \$ 1,768 | Small | |
| DPW80 | Hudson Depot 3 | 2 | Hudson | 4,060 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 6,706 | \$ 590 | Small | |
| DPW81 | Huntington Depot-D1 | 3 | Huntington | 8,191 | AEP1409E UT1 | Utility Vendor | Initiated | \$ | 16,382 | \$ 1,638 | Small | |
| DPW82 | Ipswich Depot-D4 | 4 | Ipswich | 8,475 | AEP1306E UT1 | Utility Vendor | Substantially Complete | \$ | 3,950 | \$ 881 | Small | Yes Plus |
| DPW84 | Lancaster Depot-D3 | 4 | Lancaster | 14,829 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 29,658 | \$ 2,966 | Small | |
| DPW85 | Lawrence Marsten St Depot-D4 | 4 | Lawrence | 12,811 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ | 72,509 | \$ 12,899 | Small | No |
| DPW86 | Lawrence Winthrop Av-D4 | 2 | Lawrence | 6,250 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ | 7,820 | \$ 993 | Small | Yes Plus |
| DPW87 | Lee Depot-D1 | 5 | Lee | 21,489 | AEP1409E UT1 | Utility Vendor | Initiated | \$ | 42,978 | \$ 4,298 | Small | |
| DPW88 | Lenox Depot-D1 | 7 | Lenox | 54,409 | DOT1501E ES1 | New Review | Initiated | \$ | 100,000 | \$ 10,882 | Small | |
| DPW90 | Lexington/Arlington HQ Depot- D4 | 16 | Arlington | 41,689 | AEP1306E UT1 | Utility Vendor | Substantially Complete | \$ | 70,674 | \$ 9,413 | Small | Yes |
| DPW93 | Littleton Depot-D3 | 6 | Littleton | 13,400 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 26,800 | \$ 2,680 | Small | |
| DPW94 | Manchester Depot-D4 | 2 | Manchester | 5,800 | AEP1304E UT1 | Utility Vendor | Implementation Started | \$ | 21,974 | \$ 2,596 | Small | No |
| DPW95 | Mattapoisett Depot-D5 | 9 | Mattapoisett | 12,350 | AEP1410E UT1 | Utility Vendor | Initiated | \$ | 24,700 | \$ 2,470 | Small | |
| DPW96 | Medford Facility-D4 | 2 | Medford | 29,768 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | |

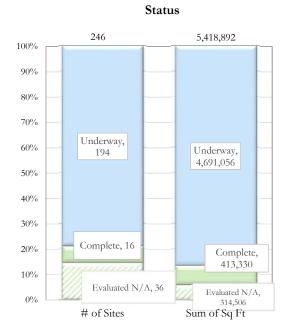
| | Site Information | T | | | | A | EP Program Status | S | | | AEP Certif | ication |
|-------------------------------------|--------------------------------|-----------|-----------------|--------|----------------|-------------------------|---------------------------|----|-------------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | ent Working Estimate | Annual Savings | AEP Certified Group | AEP Certified |
| DPW97 | Methuen Pleasant Facility-D4 | 1 | Andover | 360 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| DPW98 | Middleborough Bridge-D5 | 3 | Middleborough | 7,852 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 15,704 | \$ 1,570 | Small | |
| DPW99 | Middleborough Garage-D5 | 3 | Middleborough | 37,944 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 75,888 | \$ 7,589 | Small | |
| DPWA0 | Middleborough Maintenance-D5 | 5 | Middleborough | 7,535 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 15,070 | \$ 1,507 | Small | |
| DPWA1 | Middleborough Traffic-D5 | 7 | Middleborough | 7,972 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 15,944 | \$ 1,594 | Small | |
| DPWA2 | Millbury Depot-D3 | 6 | Millbury | 17,094 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 34,188 | \$ 3,419 | Small | |
| DPWA3 | Milton Depot-D4 | 7 | Milton | 18,628 | AEP1410E UT1 | Utility Vendor | Initiated | \$ | 37,256 | 3,726 | Small | |
| DPWA6 | Newbury Depot-D4 | 9 | Newbury | 8,815 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ | 21,093 | \$ 2,763 | Small | Yes |
| DPWA8 | North Adams Depot-D1 | 4 | North Adams | 14,555 | AEP1409E UT1 | Utility Vendor | Initiated | \$ | 29,110 | \$ 2,911 | Small | |
| DPWA9 | North Attleborough Depot-D5 | 8 | North Attleborc | 11,344 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 22,688 | \$ 2,269 | Small | |
| DPWB2 | Northampton Headquarters D2 | 3 | Northampton | 26,194 | DOT1501E ES1 | New Review | Initiated | \$ | 52,388 | \$ 5,239 | Small | |
| DPWB3 | Northampton Rte 5 Depot-D2 | 6 | Northampton | 14,504 | AEP1404E UT1 | Utility Vendor | Audit Complete | \$ | 20,059 | \$ 2,598 | Small | |
| DPWB4 | Northampton Rte 9 Depot-D2 | 3 | Northampton | 10,820 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| DPWB5 | Northborough Depot-D3 | 3 | Northborough | 8,372 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 16,744 | \$ 1,674 | Small | |
| DPWB6 | Norton Depot-D5 | 7 | Norton | 8,368 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 16,736 | \$ 1,674 | Small | |
| DPWB7 | Orange Depot-D2 | 2 | Orange | | AEP1404E UT1 | Utility Vendor | Audit Complete | \$ | 26,142 | 4,356 | Small | |
| DPWB8 | Orleans Depot-D5 | 4 | Orleans | 17,952 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ | 30,668 | \$ 3,655 | Small | TBD |
| DPWB9 | Otis Depot-D1 | 4 | Otis | 11,849 | AEP1409E UT1 | Utility Vendor | Initiated | \$ | 23,698 | \$ 2,370 | Small | |
| DPWC0 | Oxford Depot-D3 | 7 | Oxford | 17,862 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 35,724 | \$ 3,572 | Small | |
| DPWC1 | Palmer Depot-D2 | 7 | Palmer | 7,823 | AEP1404E UT1 | Utility Vendor | Audit Complete | \$ | 11,363 | 1,481 | Small | |
| DPWC2 | Peabody/State Police Barracks4 | 5 | Peabody | 17,050 | AEP1306E UT1 | Utility Vendor | Implementation Started | \$ | 19,791 | 3,669 | Small | Yes Plus |
| DPWC3 | Pittsfield Depot-D1 | 8 | Pittsfield | 21,836 | AEP1409E UT1 | Utility Vendor | Initiated | \$ | 43,672 | \$ 4,367 | Small | |
| DPWC4 | Plymouth Depot-D5 | 9 | Carver | , | AEP1410E UT1 | Utility Vendor | Initiated | \$ | - | \$ - | Small | |
| DPWC5 | Reading Depot-D4 | 6 | Reading | 4,998 | AEP1306E UT1 | Utility Vendor | Implementation Started | \$ | 40,109 | \$ 8,787 | Small | Yes Plus |
| DPWC7 | Revere Depot-D4 | 6 | Revere | 17,494 | AEP1304E UT1 | Utility Vendor | Substantially Complete | \$ | 32,609 | \$ 4,242 | Small | No |
| DPWC8 | Rowley Depot-D4 | 5 | Rowley | 12,585 | AEP1306E UT1 | Utility Vendor | Substantially Complete | \$ | 15,967 | \$ 3,042 | Small | TBD |
| DPWC9 | Rutland Depot-D3 | 4 | Rutland | 10,310 | AEP1506E UT1 | Utility Vendor | Initiated | \$ | 20,620 | \$ 2,062 | Small | |
| DPWD0 | Salisbury Depot-D4 | 8 | Salisbury | 8,110 | AEP1304E UT1 | Utility Vendor | Implementation Started | \$ | 11,951 | 1,722 | Small | Yes Plus |
| DPWD1 | Sandwich Depot-D5 | 9 | Sandwich | 9,446 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ | 19,922 | \$ 1,790 | Small | TBD |
| DPWD2 | Seekonk Depot-D5 | 4 | Seekonk | 5,044 | AEP1408E UT1 | Utility Vendor | Initiated | \$ | 10,088 | \$ 1,009 | Small | |
| DPWD4 | Sheffield Depot-D1 | 4 | Sheffield | , | AEP1409E UT1 | Utility Vendor | Initiated | \$ | 27,858 | 2,786 | Small | |
| DPWE0 | South Hadley Depot-D2 | 7 | South Hadley | 15,057 | AEP1404E UT1 | Utility Vendor | Initiated | \$ | 30,114 | 3,011 | Small | |
| DPWE1 | Springfield Depot-D2 | 3 | Springfield | 8,331 | AEP1404E UT1 | Utility Vendor | Implementation Started | \$ | 10,976 | \$ 1,687 | Small | No |

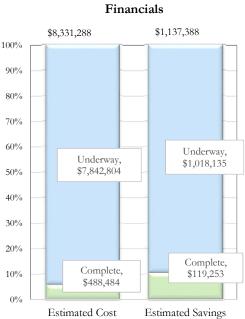
| | Site Information | | | | | A | EP Program Status | | | | AEP Certi | fication |
|--------------|-------------------------------------|---------|------------------|---------|----------------|----------------|---------------------------|--------------|-------|-----------|------------------|-----------|
| Program Area | | | | | | | | | | | | |
| Agency | | # | | | | Procurement | | Current Work | ing | Annual | AEP Certified | |
| Site Code | Site Name | Bldg | Municipality | Sq Ft | Project Number | Strategy | Status | Estimate | | Savings | Group | Certified |
| DPWE2 | Sterling Depot-D3 | 6 | Sterling | , | AEP1506E UT1 | Utility Vendor | Initiated | / | 36 \$ | | Small | |
| DPWE3 | Stoughton Depot-D5 | 8 | Stoughton | , | AEP1408E UT1 | Utility Vendor | Initiated | | 50 \$ | | Small | |
| DPWE4 | Sturbridge Depot-D3 | 5 | Sturbridge | , | AEP1414E UT1 | Utility Vendor | Audit Complete | / | 49 \$ | | Small | |
| DPWE5 | Sudbury Depot-D3 | 3 | Sudbury | , | AEP1414E UT1 | Utility Vendor | Audit Complete | / | 20 | | Small | |
| DPWE6 | Swansea Depot-D5 | 6 | Swansea | | AEP1408E UT1 | Utility Vendor | Initiated | | 58 \$ | · · · · · | Small | |
| DPWE7 | Taunton Administration-D5 | 5 | Taunton | 41,510 | DOT1501E ES1 | New Review | Initiated | \$ 440,0 |)6 \$ | \$ 32,032 | Small | |
| DPWE8 | Taunton Bridges-D5 | 8 | Taunton | 12,636 | AEP1408E UT1 | Utility Vendor | Initiated | \$ 25,2 | 72 | \$ 2,527 | Small | |
| DPWF0 | Tewksbury Depot-D4 | 8 | Tewksbury | 18,658 | AEP1304E UT1 | Utility Vendor | Implementation Started | \$ 24,5 | 56 | \$ 4,095 | Small | Yes Plus |
| DPWF1 | Townsend Depot-D3 | 5 | Townsend | 26,200 | AEP1414E UT1 | Utility Vendor | Audit Complete | \$ 36,9 | 36 \$ | \$ 7,991 | Small | |
| DPWF2 | Truro Depot-D5 | 3 | Truro | 8,972 | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ 9,7 | 32 | \$ 711 | Small | TBD |
| DPWF3 | Upton Depot-D3 | 8 | Upton | 14,223 | AEP1414E UT1 | Utility Vendor | Audit Complete | \$ 18,7 | 08 5 | \$ 2,160 | Small | |
| DPWF4 | Uxbridge Depot-D3 | 5 | Uxbridge | 9,732 | AEP1414E UT1 | Utility Vendor | Audit Complete | \$ 12,9 | 30 \$ | \$ 1,635 | Small | |
| DPWF5 | Sharon Walpole Depot-D5 | 10 | Walpole | , | AEP1410E UT1 | Utility Vendor | Initiated | | 08 5 | . , | Small | |
| DPWF6 | Ware Depot-D2 | 1 | Ware | 4,000 | AEP1404E UT1 | Utility Vendor | Substantially Complete | | 50 \$ | | Occasional | Yes |
| DPWF7 | Wareham Depot-D5 | 8 | Wareham | 10,358 | AEP1410E UT1 | Utility Vendor | Initiated | \$ 20,7 | 16 \$ | \$ 2,072 | Small | |
| DPWG0 | West Brookfield Facility-D2 | 4 | West Brookfield | | AEP1506E UT1 | Utility Vendor | Initiated | | 28 | · · · · · | Small | |
| DPWG1 | West Springfield Depot D2 | 6 | West Springfield | , | AEP1404E UT1 | Utility Vendor | Audit Complete | | 77 | · / | Small | |
| DPWG2 | Westfield Depot D2 | 3 | Westfield | , | AEP1404E UT1 | Utility Vendor | Implementation Started | | 99 | | Small | Yes |
| DPWG3 | Westford Depot-D3 | 4 | Westford | 15.280 | AEP1414E UT1 | Utility Vendor | Audit Complete | \$ 31,4 | 14 \$ | \$ 3,224 | Small | |
| DPWG4 | Westminster Depot-D3 | 8 | Westminster | | AEP1414E UT1 | Utility Vendor | Audit Complete | \$ 13,7 | | | Small | |
| DPWG5 | Westwood Depot-D4 | 10 | Westwood | | AEP1410E UT1 | Utility Vendor | Initiated | | 28 | · · · · · | Small | |
| DPWG6 | Whitman Depot-D5 | 11 | Whitman | , | AEP1408E UT1 | Utility Vendor | Initiated | | 56 \$ | | Small | |
| DPWG7 | Williamstown Depot-D1 | 8 | Williamstown | , | AEP1409E UT1 | Utility Vendor | Initiated | · · · · · | 00 | | Small | |
| DPWG8 | Winchendon Depot D-2 | 7 | Winchendon | , | AEP1404E UT1 | Utility Vendor | Audit Complete | / | 28 | | Small | |
| DPWG9 | Windsor Radio Tower-D1 | 2 | Windsor | , | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | | | Evaluated N/A | N/A |
| DPWH2 | Worcester Headquarters-D3 | 9 | Worcester | 25,477 | DOT1501E ES1 | New Review | Initiated | \$ 50,9 | 54 5 | \$ 5,095 | Small | |
| DPWH3 | Wrentham Depot-D5 | 9 | Wrentham | , | AEP1408E UT1 | Utility Vendor | Initiated | | 46 5 | | Small | |
| DPWH4 | Yarmouth Depot-D5 | 10 | Yarmouth | | AEP1407E UT1 | Utility Vendor | Implementation Started | | 10 | | Small | TBD |
| DPWH5 | Framingham Facility D3 | 3 | Framingham | 4 396 | AEP1414E UT1 | Utility Vendor | Audit Complete | \$ 20,5 | 51 \$ | \$ 679 | Small | |
| DPWH6 | Dedham Depot-D4 | 3 | Framingham | · · · · | AEP1410E UT1 | Utility Vendor | Initiated | \$ 12,3 | | | Small | |
| DPWH9 | Carver Depot-D5 | 1 | Carver | | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | | | Evaluated N/A | N/A |
| DPWI3 | Lexington/Arlington HQ Depot- D4 | 3 | Arlington | 38,416 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | | \$ - | Small | |
| DPWI3 | Lexington/Arlington HQ Depot- D4 | 3 | Arlington | 38,416 | DOT1501E ES1 | New Review | Initiated | \$ - | | \$ - | Small | |
| DPWTBD1 | 1 Foxhill B r idgehouse | (blank) | Lynn | (blank) | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | 5 | \$ - | Evaluated N/A | N/A |

| | Site Information | | | | | AEP Program Status | | | | | | |
|--------------|-------------------------------|---------|--------------|-----------|----------------|--------------------|---------------|-----------------|------------|---------------|-----------|--|
| Program Area | | | | | | | | | | | | |
| Agency | | # | | | | Procurement | | Current Working | Annual | AEP Certified | AEP | |
| Site Code | Site Name | Bldg | Municipality | Sq Ft | Project Number | Strategy | Status | Estimate | Savings | Group | Certified | |
| DPWTBD2 | Lowell 131 | (blank) | Lowell | (blank) | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated | N/A | |
| | | (| | (****) | | | , | - | | N/A | | |
| DPWTBD3 | Plymouth Rt 25 Visitor Center | 1 | Plymouth | 1,950 | AEP1410E UT1 | Utility Vendor | Initiated | \$ - | \$ - | Small | | |
| DPWTBD4 | Dartmouth Office & Garage | 1 | Dartmouth | 11,800 | AEP1410E UT1 | Utility Vendor | Initiated | \$ - | \$ - | Small | | |
| Grand Total | | 130 | | 1,880,838 | | | | \$ 3,568,707 | \$ 474,076 | | | |











| | Site Information | | | | | A | EP Program Status | 3 | | | AEP Certi | fication |
|-------------------------------------|-----------------------------------|-----------|--------------|---------|----------------|-------------------------|---------------------------|----|---------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | t Working timate | Annual Savings | AEP Certified Group | AEP Certified |
| Energy And Environ | nmental Affairs | | | - | | | | | | | | |
| Department Of O | Conservation And Recreation | | | - | | | | | | | | |
| AGAP4 | Agawam State Pool- Agawam | 4 | Agawam | 9,196 | AEP1403E UT1 | Utility Vendor | Initiated | \$ | 1,575 | \$ 967 | Occasional | |
| AMES2 | Ames Nowell State Park- Abington | 5 | Abington | 2,818 | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 5,636 | \$ 564 | Occasional | |
| ASHL3 | Ashland State Park | 3 | Ashland | 1,937 | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 3,874 | \$ 387 | Occasional | |
| ATTP1 | Spatcher Pool | 5 | Attleboro | 9,628 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 19,256 | \$ 1,926 | Occasional | |
| AUBR3 | Horgan Memorial Skating Rink | 1 | Auburn | 31,844 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 63,688 | \$ 6,369 | Occasional | |
| BEAR5 | Beartown State Forest | 15 | Monterey | 15,324 | AEP1314E UT1 | Utility Vendor | Initiated | \$ | 30,648 | \$ 3,065 | Occasional | |
| BFPL3 | Bennett Field Pool | 3 | Worcester | , | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 38,360 | | Occasional | |
| BLST3 | Blackstone River Heritage Park | 4 | Uxbridge | · · · · | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 27,090 | | Occasional | |
| BRAD2 | Bradley Palmer State Park | 21 | Topsfield | 70,104 | AEP1307E UT1 | Utility Vendor | Implementation Started | \$ | 60,096 | | Occasional | No |
| BREW1 | Brewster State Forest | 7 | Brewster | 39,405 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| BRIM4 | Brimfield State Forest | 12 | Brimfield | 16,826 | AEP1403E UT1 | Utility Vendor | Initiated | \$ | 4,285 | \$ 695 | Occasional | |
| BRRK2 | John G Asiaf Memorial Rink | 6 | Brockton | 45,219 | AEP1503E UT1 | Utility Vendor | Initiated | \$ | 90,438 | \$ 9,044 | Occasional | |
| CALL3 | Callahan State Park | 3 | Framingham | 2,930 | AEP1415E UT1 | Utility Vendor | Initiated | \$ | 5,860 | \$ 586 | Occasional | |
| CHBL5 | Chester/Blandford State Forest | 10 | Chester | 8,132 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 1,010 | \$ 312 | Occasional | |
| CHIP4 | Chicopee State Park | 9 | Chicopee | · · · · | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 9,485 | | Occasional | |
| CHPL4 | Sara Jane Sherman Memorial Pool | 3 | Chicopee | 9,910 | AEP1403E UT1 | Utility Vendor | Initiated | \$ | 31,677 | | Occasional | |
| CLNT3 | Clinton Pool | 5 | Clinton | 11.725 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ 17,011 | Occasional | |
| CLSF5 | Clarksburg State Park | 8 | Clarksburg | · · · · | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 11,945 | / | Occasional | |
| COCH3 | Cochituate State Park | 14 | Wayland | | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 22,874 | . , | Occasional | |
| CORR1 | Marthas Vineyard State Forest | 6 | Edgartown | , | AEP1407E UT1 | Utility Vendor | Audit Complete | \$ | 7,673 | | Occasional | |
| CRGW4 | Connecticut River Greenway | 10 | Northampton | , | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | , | \$ 593 | Occasional | |
| DARF5 | D.a.r. State Forest | 22 | Goshen | , | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 22,921 | | Occasional | |
| DEML1 | Demarest Lloyd State Park | 5 | Dartmouth | , | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 5,060 | | Occasional | |
| DIGR1 | Dighton Rock State Park | 5 | Berkley | , | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 5,554 | | Occasional | |
| DOUG3 | Douglas State Forest | 10 | Douglas | , | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 5,246 | | Occasional | |
| ELLS1 | Ellisville Harbor State Park | 5 | Plymouth | , | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 16,104 | | Occasional | |
| ERVF4 | Erving State Forest | 16 | Erving | , | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | , | \$ 1,596 | Occasional | |
| FD011 | Fire District1(Shawme Crowel S.R) | 16 | Sandwich | , | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FGIL1 | F. Gilbert Hills State Forest | 7 | Foxborough | 12.572 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 22,434 | \$ 268 | Occasional | |
| FITP3 | Fitchburg Pool | 4 | Fitchburg | , | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 30,660 | | Occasional | |
| FKRK1 | Veterans Memorial Rink Franklin | 1 | Franklin | , | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 66,000 | | Occasional | |
| FREE1 | Freetown Fall River State Forest | 14 | Freetown | , | AEP1402E UT1 | Utility Vendor | Audit Complete | \$ | 13,722 | | Occasional | |
| FRHP1 | Heritage State Park | 2 | Fall River | , | AEP1402E UT1 | Utility Vendor | Audit Complete | \$ | 52,676 | | Occasional | |
| FRPL1 | Lafayette Pool | 3 | Fall River | , | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 17,248 | | Occasional | |
| FRRK1 | Driscoll Skating Rink | 1 | Fall River | , | AEP1503E UT1 | Utility Vendor | Initiated | \$ | 71,730 | - / | Occasional | |
| FTPH1 | Fort Phoenix Beach Reservation | 4 | Fairhaven | , | AEP1402E UT1 | Utility Vendor | Audit Complete | \$ | 10,664 | . , | Occasional | |
| GBFM2 | Great Brook Farm State Park | | Carlisle | , | AEP1415E UT1 | Utility Vendor | Initiated | \$ | 100,000 | | Occasional | |

| | Site Information | | P | | | А | EP Program Status | ; | | | AEP Certi | fication |
|--------------------|--------------------------------------|-----------|---------------|-------------|--------------------------------|----------------------------|---------------------------|------------------------|------|------------------|------------------------|------------------|
| Program Area | | | | | | | | 0 | | | | |
| Agency | Site Name | # Bldg | Municipality | 0 - Et | Ducient Niember | Procurement | Status | Current Wo Estimate | 0 | Annual | AEP Certified Group | AEP Certified |
| Site Code GCSP2 | Greycourt State Park | 2 | Methuen | Sq Ft 6 200 | Project Number AEP1307E UT1 | Strategy Utility Vendor | Audit Complete | | ,030 | Savings \$ 89 | | |
| GC3F2 GDRK4 | Skating Rink Gardner | 1 | Gardner | , | AEP1307E UT1 AEP1412E UT1 | Utility Vendor | Initiated | | ,000 | | | |
| GDRR4 GHSP4 | Gardner Heritage State Park | | Gardner | (blank) | AEP1502E UT1 | Utility Vendor | Initiated | | | \$ 2,92 | | |
| GRAN5 | Granville State Forest | 7 | Granville | () | AEP1502E UT1 | Utility Vendor | Initiated | - | ,880 | . , | | |
| GRRK4 | Collins-Moylan Rink | 1 | Greenfield | , | AEP1403E UT1 | Utility Vendor | Initiated | | ,364 | \$ 2,60 | | |
| GSPL2 | Geisler Memorial Pool | 5 | Lawrence | , | AEP1415E UT1 | Utility Vendor | Initiated | | ,725 | | | |
| HALB2 | Halibut Point State Reservation | 6 | Rockport | 16,027 | AEP1307E UT1 | Utility Vendor | Implementation Started | | ,983 | | | No |
| HAMP4 | Hampton Ponds State Park | 11 | Westfield | 20.260 | AEP1314E UT1 | Utility Vendor | Initiated | \$ 9 | ,638 | \$ 1,36 | 6 Occasional | |
| HARP2 | Harold Parker State Forest | 16 | North Reading | , | AEP1307E UT1 | Utility Vendor | Audit Complete | | ,340 | . , | | |
| HBCH1 | Horseneck Beach Reservation | 19 | Westport | , | AEP1501E UT1 | Utility Vendor | Initiated | | ,144 | | | |
| HGPL2 | Higgins Pool | 4 | Lawrence | , | AEP1415E UT1 | Utility Vendor | Initiated | | ,125 | | | |
| HHSP4 | Holyoke Heritage State Park | 3 | Holyoke | , | AEP1403E UT1 | Utility Vendor | Initiated | | ,806 | |) Occasional | |
| HKRK4 | Henry J Fitzpatrick Rink | 1 | Holyoke | 27,921 | AEP1403E UT1 | Utility Vendor | Initiated | | 263 | | 3 Occasional | |
| HKSP4 | Mt.holyoke Range State Park | 7 | Amherst | 10,992 | AEP1502E UT1 | Utility Vendor | Initiated | \$ 21 | 984 | \$ 2,19 | 3 Occasional | |
| HPSP3 | Hopkinton State Park | 12 | Hopkinton | 17,164 | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ 44 | ,225 | \$ 5,97 |) Occasional | |
| HVRK2 | Veterans Memorial Rink Haverhil | 2 | Haverhill | 33,412 | AEP1401E UT1 | Utility Vendor | Audit Complete | \$ 83 | ,853 | \$ 5,76 | 2 Occasional | |
| LDEN4 | Lake Dennison Recreation Area | 9 | Winchendon | 3,334 | AEP1502E UT1 | Utility Vendor | Initiated | \$ 16 | ,869 | \$ 2,41 | Occasional | |
| LDPL4 | John Thompson Pool | 4 | Ludlow | 7,757 | AEP1403E UT1 | Utility Vendor | Initiated | | 712 | | Occasional | |
| LLHP2 | Lowell Heritage State Park | 16 | Lowell | 22,811 | AEP1415E UT1 | Utility Vendor | Initiated | \$ 45 | ,622 | \$ 4,56 | 2 Occasional | |
| LLOR4 | Lake Lorraine State Park | 1 | Springfield | 2,000 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| LLPL2 | Raymond Lord Pool | 4 | Lowell | 11,577 | AEP1415E UT1 | Utility Vendor | Initiated | \$ 23 | ,154 | \$ 2,31 | o Occasional | |
| LLRK2 | John Janas Skating Rink | 1 | Lowell | 30,000 | AEP1503E UT1 | Utility Vendor | Audit Complete | \$ 94 | ,691 | \$ 13,20 | 5 Occasional | |
| LMPL3 | Leominster Pool | 5 | Leominster | 9,700 | AEP1412E UT1 | Utility Vendor | Initiated | \$ 46 | ,845 | \$ 4,18 | l Occasional | |
| LMSF3 | Leominster State Forest | 10 | Westminster | 6,798 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 10 | ,290 | \$ 1,36 | o Occasional | |
| LWHP2 | Lawrence Heritage State Park | 5 | Lawrence | 30,897 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 49 | ,910 | \$ 9,32 | l Occasional | |
| LWSP4 | Lake Wyola State Park | 4 | Shutesbury | 5,352 | AEP1314E UT1 | Utility Vendor | Initiated | | ,704 | |) Occasional | |
| MASS1 | Massasoit State Park | 9 | Taunton | 9,780 | AEP1501E UT1 | Utility Vendor | Initiated | \$ 19 | ,560 | \$ 1,95 | 6 Occasional | |
| MAUD2 | Maudslay State Park | 25 | Newburyport | 32,317 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 9 | ,870 | \$ 1,26 | Occasional | |
| MDC00 | Mystic River Reservation | 3 | Arlington | 2,512 | AEP1415E UT1 | Utility Vendor | Initiated | \$ 5 | ,024 | \$ 50 | 2 Occasional | |
| MDC03 | Quabbin/Ware HQ & Park | 28 | Belchertown | 53,952 | AEP1403E UT1 | Utility Vendor | Initiated | \$ 100 | ,000 | \$ 10,79 |) Occasional | |
| MDC04 | Beaver Brook Reservation | 7 | Belmont | 9,259 | AEP1415E UT1 | Utility Vendor | Initiated | \$ 18 | ,518 | \$ 1,85 | 2 Occasional | |
| MDC11 | Steriti Memorial Rink | 1 | Boston | 40,800 | AEP1503E UT1 | Utility Vendor | Audit Complete | \$ 80 | ,956 | \$ 7,60 | 5 Occasional | |
| MDC12 | Science Pk/Craigie Bridge/Locs | 3 | Boston | 11,300 | AEP1507E UT1 | Utility Vendor | Initiated | \$ 22 | ,600 | \$ 2,26 |) Small | |
| MDC13 | Charles River Rsrv/Allston Pool | 3 | Boston | 12,800 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MDC14 | MDC Brighton Upper Basin Facility | 5 | Boston | 64,700 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MDC15 | Pool & Rink/Reilly Memorial | 2 | Boston | 40,862 | AEP1503E UT1 | Utility Vendor | Audit Complete | \$ 97 | ,659 | \$ 14,57 | o Occasional | |
| MDC16 | Pool/Artesani | 2 | Boston | , | AEP1507E UT1 | Utility Vendor | Initiated | | ,240 | | | |
| MDC17 | Rink/Daly Memorial | 3 | Boston | 33,000 | AEP1507E UT1 | Utility Vendor | Initiated | \$ 66 | ,000 | \$ 6,60 |) Occasional | |
| MDC18 | Charles River Dam | 1 | Boston | 32,000 | AEP1507E UT1 | Utility Vendor | Initiated | | ,000 | . , |) Small | |



| | Site Information | | | | | А | EP Program Status | 3 | | | AEP Certi | fication |
|-------------------------------------|--------------------------------------|-----------|--------------|---------|----------------|-------------------------|---------------------------|----|-----------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | nt Working Stimate | Annual Savings | AEP Certified Group | AEP Certified |
| MDC19 | Emmons H Oneill Memorial Rink | 1 | Boston | 30,000 | ZDOERRINKS | Other | Substantially Complete | \$ | 110,600 | \$ 17,362 | Occasional | TBD |
| MDC1A | Shea Memorial Rink | 1 | Quincy | 30,000 | AEP1507E UT1 | Utility Vendor | Initiated | \$ | 60,000 | \$ 6,000 | Occasional | |
| MDC1B | Ware River Watershed | 3 | Oakham | 4,848 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ | 9,820 | \$ 2,127 | Occasional | |
| MDC1C | Middlesex Fells North Central Facil | 10 | Stoneham | 46,454 | AEP1415E UT1 | Utility Vendor | Initiated | \$ | 92,908 | \$ 9,291 | Small | |
| MDC20 | Beake Bridge | 1 | Boston | 288 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MDC21 | Harbor Region Headquarters | 1 | Boston | 12,750 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 380 | \$ 135 | Small | |
| MDC22 | Malibu Beach | 5 | Boston | 2,356 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 52,404 | \$ 2,687 | Occasional | |
| MDC23 | MDC Warehouse | 1 | Boston | 4,000 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MDC24 | Old Colony Division Maint Facility | 2 | Boston | 33,200 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 21,240 | \$ 2,837 | Small | |
| MDC25 | Rink/Devine Memorial | 1 | Boston | 40,000 | AEP1401E UT1 | Utility Vendor | Audit Complete | \$ | 92,245 | \$ 10,484 | Occasional | |
| MDC25 | Rink/Devine Memorial | 1 | Boston | 40,000 | DOER Rinks | Other | Substantially Complete | \$ | - | \$ 23,150 | Occasional | TBD |
| MDC26 | Tenean Beach | 6 | Boston | 1,672 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MDC27 | Constitution Beach | 6 | Boston | 33,700 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 19,730 | \$ 3,546 | Occasional | |
| MDC29 | Brainard Street House | 3 | Boston | 6,524 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 7,990 | \$ 942 | Small | |
| MDC31 | Neponset River Park Reservation | 8 | Boston | 1,732 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 7,890 | \$ 637 | Occasional | |
| MDC32 | Pool/Olsen Memorial | 3 | Boston | 48,000 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 49,368 | \$ 5,909 | Occasional | |
| MDC33 | Rink/Bajko Memorial | 1 | Boston | 45,000 | DOER Rinks | Other | Substantially Complete | \$ | - | \$ - | Occasional | TBD |
| | Rink/Bajko Memorial | | | | AEP1503E UT1 | Utility Vendor | Audit Complete | \$ | 98,324 | \$ 9,071 | Occasional | |
| MDC34 | Stony Brook Div Maint Facility | 1 | Boston | 7,586 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 9,260 | \$ 1,803 | Occasional | |
| MDC35 | Stony Brook Reservation | 3 | Boston | 8,080 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MDC37 | Kelly Rink | 6 | Boston | 1,500 | AEP1401E UT1 | Utility Vendor | Audit Complete | \$ | 40,075 | \$ 1,786 | Occasional | |
| MDC38 | Southwest Corridor Park | 4 | Boston | , | AEP1406E UT1 | Utility Vendor | Initiated | \$ | 79,348 | 11,557 | Occasional | |
| MDC41 | Cass Memorial Pool | 2 | Boston | , | AEP1411E UT1 | Utility Vendor | Initiated | \$ | 11,800 | 1,180 | Occasional | |
| MDC43 | Carson Beach | 12 | Boston | , | AEP1411E UT1 | Utility Vendor | Initiated | \$ | 24,872 | 2,487 | Occasional | |
| MDC44 | Castle Island | 20 | Boston | 189,213 | AEP1411E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ 37,843 | Occasional | |
| MDC45 | Marine Park Reservation | 7 | Boston | | DOER Rinks | Other | Substantially Complete | \$ | - | \$ - | Occasional | TBD |
| MDC45 | Marine Park Reservation | 7 | Boston | 37,480 | AEP1503E UT1 | Utility Vendor | Audit Complete | \$ | 100,000 | \$ 13,152 | Occasional | |
| MDC46 | Charles River Resvn/havey Beach | 1 | Boston | 1,500 | AEP1411E UT1 | Utility Vendor | Initiated | \$ | 3,000 | \$ 300 | Occasional | |
| MDC47 | Rink/Bryan Memorial | 1 | Boston | 39,000 | AEP1411E UT1 | Utility Vendor | Audit Complete | \$ | 28,538 | \$ 3,919 | Occasional | |
| MDC52 | Verterans Memorial Pool Cambridge | 3 | Cambridge | 7,400 | AEP1411E UT1 | Utility Vendor | Initiated | \$ | 14,800 | \$ 1,480 | Occasional | |
| MDC53 | Pool/McCrehan Memorial | 2 | Cambridge | 3,000 | AEP1411E UT1 | Utility Vendor | Initiated | \$ | 6,000 | \$ 600 | Occasional | |
| MDC54 | Rink/Simoni Memorial | 1 | Cambridge | 33,000 | AEP1411E UT1 | Utility Vendor | Initiated | \$ | 66,000 | \$ 6,600 | Occasional | |

| | Site Information | | | | | | AEP Certif | fication | | | | |
|-------------------------------------|---|-----------|--------------|---------|----------------|-------------------------|---------------------------|----------------------------|------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | Current Workin Estimate | g | Annual Savings | AEP Certified Group | AEP Certified |
| MDC56 | Golf Course/Ponkapoag | 7 | Canton | 19,590 | AEP1402E UT1 | Utility Vendor | Initiated | \$ 39,180 |) \$ | 3,918 | Occasional | |
| MDC57 | Pool/Vietnam Veterans Memorial | 3 | Chelsea | 8,354 | AEP1411E UT1 | Utility Vendor | Initiated | \$ 16,708 | 3 \$ | 1,671 | Occasional | |
| MDC59 | Wachusett Resvr Watershed | 21 | Clinton | 32,315 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 17,760 |) \$ | 2,796 | Occasional | |
| MDC60 | Wachusett Reservoir Watershed | 10 | Clinton | 26,260 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| MDC62 | Elm Bank Reservation | 11 | Wellesley | 81,083 | AEP1408E UT1 | Utility Vendor | Audit Complete | \$ 100,000 |) \$ | 17,892 | Small | |
| MDC64 | Allied Veterans Memorial Pool/Rink | 3 | Everett | 57,500 | AEP1507E UT1 | Utility Vendor | Initiated | \$ 100,000 |) \$ | 11,500 | Occasional | |
| MDC65 | Quabbin Fishing Area 3 | 5 | Hardwick | 809 | AEP1502E UT1 | Utility Vendor | Initiated | \$ 1,618 | 3 \$ | 162 | Occasional | |
| MDC68 | Fort Revere Reservation | 4 | Hull | 9,284 | AEP1402E UT1 | Utility Vendor | Initiated | \$ 18,568 | 3 \$ | 1,857 | Occasional | |
| MDC69 | Nantasket Beach Reservation | 10 | Hull | 38,415 | ZDCRPILOT | Other | Substantially Complete | \$ 50,087 | 7 \$ | 16,483 | Occasional | TBD |
| MDC71 | Peddocks Island | 7 | Hull | 35,758 | AEP1501E UT1 | Utility Vendor | Initiated | \$ 71,510 | 5 \$ | 7,152 | Occasional | |
| MDC72 | MDC Mystic Dist/Bait Shop | 1 | Lynn | 4,096 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| MDC73 | Rink/William Connery Memorial | 1 | Lynn | 35,000 | AEP1401E UT1 | Utility Vendor | Audit Complete | \$ 70,690 | 5 \$ | 9,448 | Occasional | |
| MDC74 | Middlesex Fells Reservation | 4 | Malden | 1,344 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 7,600 |) \$ | 723 | Occasional | |
| MDC75 | Holland Memorial Pool | 2 | Malden | 13,825 | AEP1507E UT1 | Utility Vendor | Initiated | \$ 27,650 |) \$ | 2,765 | Occasional | |
| MDC77 | Flynn Memorial Rink | 1 | Medford | 28,500 | AEP1503E UT1 | Utility Vendor | Audit Complete | \$ 88,949 |) \$ | 12,825 | Occasional | |
| MDC78 | Blue Hills Division Maint Facility | 9 | Milton | 29,240 | AEP1411E UT1 | Utility Vendor | Initiated | \$ 58,480 |) \$ | 5,848 | Occasional | |
| MDC79 | Blue Hills Reservation | 72 | Milton | 103,371 | DCP1501E ES1 | FA - Comp | Initiated | \$ 100,000 |) \$ | 20,674 | Occasional | |
| MDC80 | Neponset District Special Services | 1 | Milton | 4,028 | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ 5,474 | 1 \$ | 517 | Small | |
| MDC81 | Rink/Ulin Memorial | 1 | Milton | 54,000 | AEP1405E UT1 | Utility Vendor | Substantially Complete | \$ 95,498 | 3 \$ | 16,931 | Occasional | TBD |
| MDC82 | Lynn/Nahant Beach | 2 | Nahant | 16,690 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 15,240 |) \$ | 1,886 | Occasional | |
| MDC83 | Nahant Division Maint Facility | 1 | Nahant | 11,792 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 54,770 |) \$ | 6,888 | Small | |
| MDC84 | North Quabbin Watershed | 3 | New Salem | 6,322 | AEP1502E UT1 | Utility Vendor | Initiated | \$ 12,644 | 1 \$ | 1,264 | Occasional | |
| MDC85 | Quabbin Fishing Area 2 | 5 | New Salem | 738 | AEP1502E UT1 | Utility Vendor | Initiated | \$ 1,470 | 5 \$ | 148 | Occasional | |
| MDC86 | Charles River Resvn - Newton | 1 | Newton | 2,400 | AEP1415E UT1 | Utility Vendor | Initiated | \$ 4,800 |) \$ | 480 | Occasional | |
| MDC87 | Charlesriver Resvn/Boathouse- Newton | 1 | Newton | 3,884 | AEP1415E UT1 | Utility Vendor | Initiated | \$ 7,768 | 3 \$ | 777 | Occasional | |
| MDC90 | Quabbin Fishing Area 1 | 6 | Pelham | 833 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| MDC96 | Quincy Homestead | 2 | Quincy | 19,741 | AEP1507E UT1 | Utility Vendor | Initiated | \$ 39,482 | 2 \$ | 3,948 | Small | |
| MDC99 | Wollaston Beach Reservation | 7 | Quincy | 2,280 | AEP1507E UT1 | Utility Vendor | Initiated | \$ 4,560 |) \$ | 456 | Occasional | |
| MDCA2 | Eliot House | 1 | Revere | 4,000 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 18,394 | 1 \$ | 1,557 | Small | |
| MDCA4 | Revere Beach Reservation | 8 | Revere | 34,950 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 41,307 | 7 \$ | 5,226 | Occasional | |
| MDCA5 | Revere Division Maint Facility | 2 | Revere | 2,950 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| MDCA6 | Rink/Paul Cronin Memorial | 1 | Revere | 38,400 | AEP1507E UT1 | Utility Vendor | Initiated | \$ 24,800 |) \$ | 4,740 | Small | |
| MDCA7 | Breakheart Reservation | 16 | Saugus | 10,748 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ 17,880 |) \$ | 3,528 | Occasional | |
| MDCA8 | Amelia Eairhart Dam | 2 | Somerville | 23,125 | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ 80,148 | 3 \$ | 5,330 | Small | |

| | Site Information | | | | AEP Program Status | | | | | | | AEP Certification | | |
|---------------------|---------------------------------------|-----------|---------------|---------|--------------------------------|----------------------------|---------------------------|----|--------------------------|----|------------------|---------------------|------------------|--|
| Program Area | | | | | | | | | | | | | | |
| Agency Site Code | Site Name | # Bldg | Municipality | S ~ 174 | Ducient Number | Procurement | Status | | rent Working Estimate | | Annual | AEP Certified | AEP Certified | |
| Site Code MDCA9 | Blessing Of The Bay | 1 | Somerville | Sq Ft | Project Number AEP1405E UT1 | Strategy Utility Vendor | Audit Complete | \$ | 25,989 | ¢ | Savings 3,257 | Group Occasional | Certified | |
| MDCR9 MDCB1 | Dilboy Stadium And Pool | 3 | Somerville | , | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ | 27,542 | | 2,222 | Occasional | | |
| MDCB1 | Veterans Memorial Rink | 1 | Somerville | , | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ | 82,777 | | 10,563 | Occasional | | |
| MDCB2 | Latta Brothers Memorial Pool | 2 | Somerville | , | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ | 45,420 | | 4,469 | Occasional | | |
| MDCB8 | Pool/hall Memorial/Fells Rsrv | 3 | Stoneham | 9,080 | AEP1415E UT1 | Utility Vendor | Initiated | \$ | 18,160 | | 1,816 | Occasional | | |
| MDCC3 | Charles River Resvn - Waltham | 1 | Waltham | , | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | | |
| MDCC7 | Rink/Veterans | 1 | Waltham | 30,500 | AEP1406E UT1 | Utility Vendor | Audit Complete | \$ | 87,760 | \$ | 22,116 | Occasional | | |
| MDCC8 | Dealtry Pool | 3 | Watertown | 4,920 | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ | 23,201 | | 822 | Occasional | | |
| MDCD2 | Golf Course/Leo J. Martin Memorial | 6 | Weston | 13,672 | AEP1415E UT1 | Utility Vendor | Initiated | \$ | 27,344 | - | 2,734 | Occasional | | |
| MDCD6 | Pool/Rink/Connell Memorial | 1 | Weymouth | 38,900 | DOER Rinks | Other | Substantially Complete | \$ | - | \$ | - | Occasional | TBD | |
| MDCD6 | Pool/Rink/Connell Memorial | 1 | Weymouth | 38,900 | AEP1503E UT1 | Utility Vendor | Audit Complete | \$ | 100,000 | | 27,264 | Occasional | | |
| MDCD8 | Winthrop Beach | 1 | Winthrop | , | AEP1507E UT1 | Utility Vendor | Initiated | \$ | 2,200 | | 220 | Occasional | | |
| MDCD9 | Georges Island | | Boston | | DCR1302E ES1 | TZNE | Audit Complete | \$ | 857,803 | | 52,276 | Occasional | | |
| MDCE0 | Brookwood Farm | 4 | Canton | 10,029 | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 20,058 | \$ | 2,006 | Occasional | | |
| MDCE1 | Lovells Island | 5 | Boston | 4,175 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A | |
| MDCE2 | Lloyd Memorial Pool | 2 | Melrose | 15,194 | AEP1415E UT1 | Utility Vendor | Initiated | \$ | 30,388 | \$ | 3,039 | Occasional | | |
| MDCF6 | Miscellaneous MDC - Newton | 1 | Newton | 3,800 | AEP1415E UT1 | Utility Vendor | Initiated | \$ | 7,600 | \$ | 760 | Occasional | | |
| MDCF9 | Miscellaneous MDC - Boston | 21 | Boston | 28,525 | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ | 28,896 | \$ | 4,369 | Small | | |
| MDCH3 | Sudbury Watershed | 2 | Southborough | 4,600 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A | |
| MGRC4 | Mt Grace State Forest | 12 | Warwick | 3,793 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 7,586 | \$ | 759 | Occasional | | |
| MGRY5 | Mount Greylock Reservation | 35 | New Ashford | 32,681 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 65,362 | \$ | 6,536 | Occasional | | |
| MHWK5 | Mohawk Trail State Forest | 30 | Hawley | 27,515 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 55,030 | \$ | 5,503 | Occasional | | |
| MLPL3 | Senator P. Eugene Casey State Pool | 4 | Milford | 8,640 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 37,545 | \$ | 1,288 | Occasional | | |
| MLRK3 | John J Navin Rink | 1 | Marlborough | 33,800 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 67,600 | \$ | 6,760 | Occasional | | |
| MORE3 | Moore State Park | 6 | Paxton | 6,183 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ | 4,760 | | 1,271 | Occasional | | |
| MSSF1 | Myles Standish State Forest | 39 | Carver | 50,172 | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 100,000 | | 10,034 | Occasional | | |
| MSUG4 | Mount Sugarloaf Reservation | 6 | Deerfield | 17,182 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 34,364 | \$ | 3,436 | Occasional | | |
| MTOM4 | Mount Tom Reservation | 13 | Holyoke | 16,492 | ZDCRPILOT | Other | Substantially Complete | \$ | 5,494 | \$ | 2,380 | Occasional | TBD | |
| MWAS5 | Mount Washington State Forest | 6 | Mount Washing | 3,694 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 7,388 | \$ | 739 | Occasional | | |
| NARK5 | Vietnam Memorial Skating Rink | 1 | North Adams | | AEP1403E UT1 | Utility Vendor | Initiated | \$ | 84,906 | | 15,977 | Occasional | | |
| NBDG5 | Natural Bridge State Forest | 2 | North Adams | , | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 3,920 | | 392 | Occasional | | |
| NBRK1 | Hetland Memorial Skating Arena | 1 | New Bedford | , | AEP1405E UT1 | Utility Vendor | Audit Complete | \$ | 100,000 | | 19,286 | Occasional | | |
| NICK1 | Nickerson State Park | 60 | Brewster | , | AEP1407E UT1 | Utility Vendor | Audit Complete | \$ | 59,718 | | 5,972 | Occasional | | |
| NWRK2 | Henry Graf Skating Rink | 1 | Newburyport | , | AEP1401E UT1 | Utility Vendor | Audit Complete | \$ | 100,000 | | 22,524 | Occasional | | |
| OAKF3 | Oakes Ames Memorial Park | 8 | Easton | | AEP1501E UT1 | Utility Vendor | Initiated | \$ | 57,556 | | 5,756 | Occasional | | |
| OCTM5 | October Mountain State Forest | 7 | Lee | | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 4,462 | | 569 | Occasional | | |
| OTIS5 | Tolland State Forest | 15 | Otis | 7,889 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 15,778 | \$ | 1,578 | Occasional | | |

| | Site Information | | AEP Program Status | | | | | | | AEP Certification | | | |
|-------------------------------------|------------------------------------|-----------|--------------------|--------|----------------|-------------------------|---------------------------|----|--------------------------|-------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | rent Working Estimate | | Annual Savings | AEP Certified Group | AEP Certified |
| OTTR4 | Otter River State Forest | 22 | Templeton | 18,046 | ZDCRPILOT | Other | Substantially Complete | \$ | 22,587 | \$ | 5,068 | Occasional | TBD |
| PBRK2 | Mcvann Okeefe Memorial Rink | 1 | Peabody | 30,000 | AEP1401E UT1 | Utility Vendor | Audit Complete | \$ | 98,595 | \$ | 12,548 | Occasional | |
| PITT5 | Pittsfield State Forest | 15 | Pittsfield | 12,971 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 25,942 | \$ | 2,594 | Occasional | |
| PLRK1 | John A Armstrong Memorial Rink | 1 | Plymouth | 36,271 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 72,542 | \$ | 7,254 | Occasional | |
| PLSP1 | Plymouth Rock State Park And Pier | 2 | Plymouth | 2,376 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 4,752 | \$ | 475 | Occasional | |
| PURG3 | Purgatory Chasm State Reservation | 5 | Sutton | 7,022 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 4,221 | \$ | 1,944 | Occasional | |
| QUIN3 | Quinsigamond State Park | 6 | Worcester | 17,223 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 14,420 | \$ | 2,046 | Occasional | |
| R3HQ3 | Regional Headquarters | 1 | Clinton | 2,560 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| R4HQ4 | Region 4 Headquarters | 5 | Amherst | 10,200 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 20,400 | \$ | 2,040 | Small | |
| R5HQ5 | South Mountain Reg. 5 HQ | 1 | Pittsfield | 9,124 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 18,248 | \$ | 1,825 | Small | |
| ROBN4 | Robinson State Park | 10 | Agawam | 7,403 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 4,073 | \$ | 1,252 | Occasional | |
| RTLD3 | Rutland State Park | 10 | Rutland | 8,002 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ | 13,900 | \$ | 1,242 | Occasional | |
| RXHP2 | Roxbury Heritage State Park | 3 | Boston | 20,102 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | |
| SALB2 | Salisbury Beach State Reservation | 14 | Salisbury | 26,193 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ | 27,835 | \$ | 6,685 | Occasional | |
| SBPL4 | Andrew J Petro Pool | 5 | Southbridge | 9,444 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 31,705 | \$ | 769 | Occasional | |
| SCUS1 | Scusset Beach State Resvn - Bourne | 8 | Sandwich | 16,734 | AEP1407E UT1 | Utility Vendor | Audit Complete | \$ | 29,957 | \$ | 8,145 | Occasional | |
| SFPL4 | John H Thomas Memorial Pool | 2 | Springfield | 8,962 | AEP1403E UT1 | Utility Vendor | Initiated | \$ | 32,623 | \$ | 2,868 | Occasional | |
| SFRK4 | Ray Smead Memorial Rink | 1 | Springfield | 27,467 | AEP1403E UT1 | Utility Vendor | Initiated | \$ | 52,642 | \$ | 5,080 | Occasional | |
| SHCR1 | Shawme Crowell State Forest | 30 | Sandwich | 21,657 | AEP1407E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ | 53,601 | Occasional | |
| SKIN4 | Joseph Allen Skinner State Park | 11 | Hadley | 17,654 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 35,308 | \$ | 3,531 | Occasional | |
| SNDW1 | Dem Land Parcel | 7 | Sandwich | 9,639 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| SPEN3 | Spencer State Forest | 8 | Spencer | 5,146 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 880 | \$ | 220 | Occasional | |
| SVYM5 | Savoy Mountain State Forest | 16 | Savoy | 9,292 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 18,584 | \$ | 1,858 | Occasional | |
| TNRK1 | Theodore J. Alexio,jr.rink | 1 | Taunton | 30,000 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 60,000 | \$ | 6,000 | Occasional | |
| UPTN3 | Upton State Forest | 4 | Upton | 10,490 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 75 | \$ | 37 | Occasional | |
| VHPL3 | Vernon Hill Playground Pool | 5 | Worcester | 11,990 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 36,975 | \$ | 6,605 | Occasional | |
| WACH3 | Mount Wachusett Reservation | 18 | Princeton | 17,947 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ | 48,017 | | 5,289 | Occasional | |
| WATS1 | Watson Pond State Park | 2 | Taunton | 2,732 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 5,464 | \$ | 546 | Occasional | |
| WBNR1 | Waquoit Bay Nerr | 4 | Falmouth | 14,157 | AEP1407E UT1 | Utility Vendor | Audit Complete | \$ | 23,691 | \$ | 4,542 | Occasional | |
| WEBB2 | William Webb Memorial Park | 7 | Weymouth | 40,068 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 10,377 | \$ | 442 | Occasional | |
| WELL4 | Wells State Park | 10 | Sturbridge | 4,585 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | |
| WEST3 | Westminster State Forest | 19 | Westminster | 48,910 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ | 45,630 | \$ | 5,529 | Occasional | |
| WGHP5 | North Adams Author Museum | 1 | North Adams | 7,020 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 14,040 | \$ | 1,404 | Small | |
| WILB3 | Willard Brook State Forest | 23 | Ashby | 14,443 | AEP1307E UT1 | Utility Vendor | Audit Complete | \$ | 21,178 | \$ | 3,073 | Occasional | |

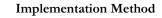


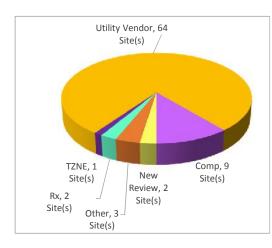
| | Site Information | | | | | A | EP Program Status | 3 | | | AEP Certif | fication |
|-------------------------------------|-------------------------------------|-----------|------------------|---------|----------------|-------------------------|---------------------------|----|-----------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | nt Working Stimate | Annual Savings | AEP Certified Group | AEP Certified |
| WILD2 | Willowdale State Forest | 1 | Ipswich | 1,932 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| WLDN2 | Walden Pond State Reservation | 14 | Concord | 9,404 | ZDCRPILOT | Other | Substantially Complete | \$ | 22,911 | \$ 7,352 | Occasional | TBD |
| WNDL4 | Wendell State Forest | 13 | Wendell | 5,344 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 10,688 | \$ 1,069 | Occasional | |
| WNDS5 | Windsor State Forest | 5 | Windsor | 1,509 | AEP1502E UT1 | Utility Vendor | Initiated | \$ | 3,018 | \$ 302 | Occasional | |
| WOMP2 | Wompatuck State Park | 20 | Hingham | 36,544 | ZDCRPILOT | Other | Substantially Complete | \$ | 85,381 | \$ 24,220 | Occasional | TBD |
| WRRK3 | Charles J. Buffone Rink | 1 | Worcester | 31,200 | AEP1412E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ 39,357 | Occasional | |
| FD021 | Fire District2 (Myles Standish S.F) | 11 | Carver | 5,161 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | |
| FD031 | Fire District3 (Freetown S.F.) | 5 | Freetown | 2,294 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | |
| FD125 | Fire District12 (Pittsfield S.F) | 4 | Pittsfield | 924 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | |
| Department Of I | Environmental Protection | | | - | | | | | | | | |
| EQE01 | State Material Recovery Facility | 6 | Springfield | 36,100 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 69,578 | \$ 11,196 | Small | |
| Department Of I | Food And Agriculture | | | - | | | | | | | | |
| AGR01 | Eastern States Exposition Grounds | 1 | West Springfield | 14,052 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| Fisheries Wildlife | e & Environmental Law Enforcement | | | - | | | | | | | | |
| FWE00 | Northeast District Headquarter | 3 | Acton | 5,055 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE01 | Ayer Game Farm | 7 | Ayer | 14,596 | AEP1308E UT1 | Utility Vendor | Initiated | \$ | - | \$ - | Occasional | |
| FWE03 | WMA Swift River | 17 | Belchertown | · · · · | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 8,570 | \$ 390 | Occasional | |
| FWE04 | Mclaughlin State Trout Hatchery | 7 | Belchertown | 13,103 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 69,802 | \$ 9,840 | Occasional | |
| FWE05 | Southeast District Headqrtrs | 4 | Bourne | 10,076 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 2,606 | \$ 144 | Small | No |
| FWE07 | WMA Stafford Hill | 5 | Cheshire | 21,733 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE09 | FWE District Headquarters | 1 | Dalton | 2,816 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 9,531 | \$ 971 | Small | |
| FWE10 | Crane Fish And Wildlife Preserve | 2 | Falmouth | 1,194 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE16 | WMA Housatonic River Valley | 1 | Lenox | 3,220 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE18 | Bitzer Fish Hatchery | 12 | Montague | 8,717 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 10,620 | \$ 1,281 | Occasional | |
| FWE20 | WMA Winnimusett | 2 | New Braintree | 10,336 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE21 | Plum Island Fishery | 1 | Newburyport | 4,366 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 11,135 | \$ 1,577 | Occasional | No |
| FWE23 | Lobster Hatchery | 1 | Oak Bluffs | 5,115 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE27 | Roger Reed Salmon Hatchery | 6 | Palmer | 13,430 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 5,848 | \$ 433 | Occasional | |

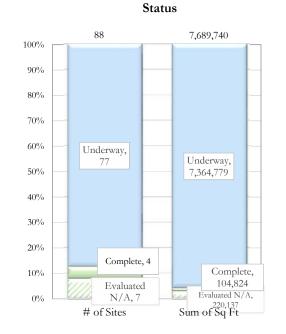


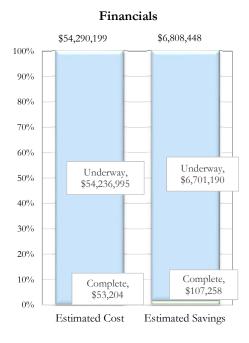
| | Site Information | | | | | А | EP Program Status | ; | | | AEP Certi | fication |
|-------------------------------------|--|-----------|--------------|-----------|----------------|-------------------------|---------------------------|----|-----------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | nt Working stimate | Annual Savings | AEP Certified Group | AEP Certified |
| FWE28 | WMA Peru | 2 | Peru | 1,196 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE29 | District Headquarters- Pittsfield | 2 | Pittsfield | 3,776 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 13,311 | \$ 445 | Small | |
| FWE31 | Game Farm | 1 | Sandwich | 312 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE32 | Sandwich Fish Hatchery | 6 | Sandwich | 4,323 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 1,386 | \$ 739 | Occasional | No |
| FWE33 | Flood Control | 1 | Shrewsbury | 2,160 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE34 | Sunderland Fish Hatchery | 10 | Sunderland | 12,740 | AEP1314E UT1 | Utility Vendor | Audit Complete | \$ | 4,164 | \$ 379 | Occasional | |
| FWE41 | WMA Westborough | 4 | Westborough | 17,655 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE42 | WMA Savoy | 1 | Windsor | 600 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| FWE44 | Arthur F.sullivan Fish Hatchery | 5 | Sandwich | 9,152 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 1,640 | \$ 160 | Occasional | No |
| FWE45 | Annisquam River Marine Fishery Stn | 6 | Gloucester | 21,132 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 79,159 | \$ 3,687 | Occasional | TBD |
| Massachusetts En | nvironmental Police | | | - | | | | | | | | |
| DCP19 | Mass Environmental Police - Lyman School | 5 | Westborough | 16,907 | AEP1308E UT1 | Utility Vendor | Audit Complete | \$ | 100,000 | \$ 2,068 | Small | |
| LLOR4x | Mass Environmental Police - Lake Lorraine | 1 | Springfield | 4,524 | AEP1507E UT1 | Utility Vendor | Initiated | \$ | 9,048 | \$ 905 | Small | |
| Grand Total | | 246 | | 5,418,892 | | | | \$ | 8,331,288 | \$ 1,137,388 | | |













| | Site Information | | | | AEP Program Status | | | | | | | AEP Certification | | |
|-------------------------------------|--------------------------------|-----------|---------------|---------|--------------------|-------------------------|---------------------------|----|-----------------------|----|-------------------|------------------------|------------------|--|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | nt Working stimate | | Annual Savings | AEP Certified Group | AEP Certified | |
| Health And Human | | | | - | | | | | | | | | | |
| Chelsea Soldiers | Home | | | - | | | | | | | | | | |
| CHE00 | Soldiers Home - Chelsea | 11 | Chelsea | 491,488 | CHE1401E ES1 | TZNE | Audit Complete | \$ | 8,630,635 | \$ | 593,244 | Large | | |
| Department Of I | Developmental Services | | | - | | | | | | | | | | |
| DMR00 | Acton - LGR Region III | 2 | Acton | 4,080 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 8,160 | \$ | 816 | Small | | |
| DMR01 | LGR Region I Amherst | 2 | Amherst | 7,224 | AEP1311E UT1 | Utility Vendor | Implementation Started | \$ | 67 , 600 | \$ | 8,369 | Small | Yes | |
| DMR02 | LGR Region V Brockton | 1 | Brockton | 3,700 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 7,400 | \$ | 740 | Small | | |
| DMR03 | LGR Region V Canton | 3 | Canton | 4,055 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 8,110 | \$ | 811 | Small | | |
| DMR05 | LGR Region III Danvers | 5 | Danvers | 7,252 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 14,504 | \$ | 1,450 | Small | | |
| DMR07 | LGR Region V Foxborough | 2 | Foxborough | 3,269 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 6,538 | \$ | 654 | Small | | |
| DMR09 | LGR Region II Gardner | 2 | Gardner | 27,120 | AEP1309E UT1 | Utility Vendor | Implementation Started | \$ | 8,083 | \$ | 1,674 | Small | No | |
| DMR10 | LGR Region III Georgetown | 4 | Georgetown | 7,886 | AEP1309E UT1 | Utility Vendor | Implementation Started | \$ | 19,140 | \$ | 8,038 | Small | No | |
| DMR11 | LGR Region II Grafton | 4 | Grafton | 19,356 | AEP1309E UT1 | Utility Vendor | Implementation Started | \$ | 8,452 | \$ | 1,661 | Small | No | |
| DMR12 | Lexington - LGR Region III | 6 | Lexington | 6,956 | AEP1309E UT1 | Utility Vendor | Audit Complete | \$ | 24,557 | \$ | 4,670 | Small | | |
| DMR13 | LGR Region III Lynnfield | 2 | Lynnfield | 6,280 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 12,560 | \$ | 1,256 | Small | | |
| DMR14 | LGR Region VI Medfield | 3 | Medfield | 3,014 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 6,028 | \$ | 603 | Small | | |
| DMR16 | LGR Region V New Bedford | 2 | New Bedford | 3,770 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 7,540 | \$ | 754 | Small | | |
| DMR18 | LGR Region III North Reading | 3 | North Reading | 4,196 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 8,392 | \$ | 839 | Small | | |
| DMR19 | LGR Region V Norton | 2 | Norton | 2,830 | AEP1505E UT1 | Utility Vendor | Initiated | \$ | 5,660 | \$ | 566 | Small | | |
| DMR20 | LGR Region I Pittsfield | 7 | Pittsfield | 11,228 | AEP1404E UT1 | Utility Vendor | Substantially Complete | \$ | 17,925 | \$ | 5,236 | Small | No | |
| DMR21 | Glavin Regional Center | 14 | Shrewsbury | 120,868 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A | |
| DMR22 | LGR Region I Springfield | 2 | Springfield | 7,006 | AEP1404E UT1 | Utility Vendor | Substantially Complete | \$ | 12,591 | \$ | 3,521 | Small | No | |
| DMR23 | Taunton - LGR Region V | 26 | Taunton | 36,898 | DDS1504E ES1 | FA - Comp | Initiated | \$ | 1,038,000 | \$ | 103,800 | Small | | |
| DMR25 | Templeton Developmental Center | 61 | Templeton | 272,854 | DDS1101 ES1 | FA - Comp | Initiated | \$ | 3,274,248 | \$ | 205,877 | Large | | |
| DMR26 | LGR Region III Tewksbury | 5 | Tewksbury | 6,200 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 12,400 | \$ | 1,240 | Small | | |
| DMR27 | Walter E. Fernald School | 83 | Waltham | 989,192 | DDS1501E ES1 | Other | Implementation Started | \$ | 0 | \$ | 2,435,466 | Large | TBD | |
| DMR28 | Wellesley- LGR Region II | 3 | Wellesley | 3,011 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 6,022 | \$ | 602 | Small | | |
| DMR29 | LGR Region I Westfield | 4 | Westfield | 6,132 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 12,264 | \$ | 1,226 | Small | | |
| DMR32 | Shrewsbury- LGR Region II | 1 | Shrewsbury | 2,800 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 5,600 | \$ | 560 | Small | | |
| DMR34 | LGR Region V Wrentham | 11 | Wrentham | | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 51,310 | \$ | 5,131 | Small | | |
| DMR35 | Belchertown - LGR Region I | 2 | Belchertown | | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A | |
| DMR37 | LGR Region II Rutland | 2 | Rutland | 3,432 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 6,864 | \$ | 686 | Small | | |
| DMR38 | DMR Group Home | 3 | Danvers | 8,051 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 16,102 | \$ | 1,610 | Small | | |
| DMR39 | Middleton Colony | 3 | Middleton | 900 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 1,800 | \$ | 180 | Small | | |

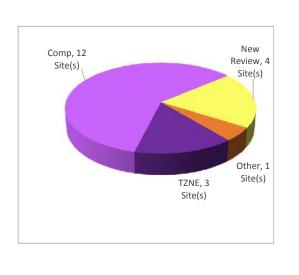
| | Site Information | | AEP Program Status | | | | | | | AEP Certification | | | |
|------------------------|--|------|--------------------|-----------|----------------|----------------|---------------------------|----|-------------------|-------------------|---------|---------------|-----------|
| Program Area Agency | Ch. N | # | | C. Fr | D · · N · I | Procurement | <u></u> | | ent Working | | Annual | AEP Certified | AEP |
| Site Code | Site Name | Bldg | Municipality | Sq Ft | Project Number | Strategy | Status | | Estimate | e | Savings | Group | Certified |
| DMR40 | DMR - Lancaster | 1 | Lancaster | | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 1,998 | | 200 | Small | |
| DMR41 | DMR - Worcester | 1 | Worcester | , | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 4,000 | | 400 | Small | |
| DMR42 | DMR - Saugus | 1 | Saugus | | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 1,998 | | 200 | Small | |
| DMR43 | DMR - Taunton | 2 | Taunton | , | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 3,996 | | 400 | Small | |
| DMR44 | DMR - Wareham | 1 | Wareham | | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 1,998 | | 200 | Small | |
| DMR45 | DMR - Acton | 1 | Acton | | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 1,998 | | 200 | Small | |
| DMR46 | DMR - Dorchester | 1 | Boston | | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 1,998 | \$ | 200 | Small | |
| DMR47 | DMR - Framingham | 2 | Framingham | , | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 3,996 | | 400 | Small | |
| DMR48 | DMR - Waltham | 4 | Waltham | , | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 7,992 | | 799 | Small | |
| DMR49 | DMR - Westboro | 2 | Westborough | 1,998 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 3,996 | \$ | 400 | Small | |
| Department Of N | Mental Health | | | - | | | | | | | | | |
| DMH00 | Choice Housing Andover | 4 | Andover | 5,082 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 10,164 | \$ | 1,016 | Small | |
| DMH02 | Solomon Carter Fuller Mental Health | 2 | Boston | 327,267 | DMH1503E ES1 | FA - Comp | Initiated | \$ | 3,272,67 0 | \$ | 297,515 | Large | |
| DMH04 | W. Roxbury Choice Housing | 1 | Boston | 2,944 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 5,888 | \$ | 589 | Small | |
| DMH05 | Cape Cod/Islands Mental Health Ctr | 2 | Bourne | 34,598 | AEP1504E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ | 21,688 | Small | |
| DMH06 | Brockton Mental Health Ctr | 1 | Brockton | 55,000 | AEP1504E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ | 25,997 | Small | |
| DMH07 | Choice Housing Brookline | 1 | Brookline | 4.200 | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 8,400 | \$ | 840 | Small | |
| DMH08 | Choice Housing Chelsea | 1 | Chelsea | , | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 8,174 | | 817 | Small | |
| DMH09 | Choice Housing Danvers | 1 | Danvers | , | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 10,512 | | 1,051 | Small | |
| DMH10 | Fall River Choice Housing | 1 | Fall River | , | AEP1413E UT1 | | Initiated | \$ | 7,090 | | 709 | Small | |
| DMH10 DMH11 | Corrigan Mental Health Ctr | 4 | Fall River | · · · · | AEP1504E UT1 | | Initiated | \$ | 100,000 | | 29,435 | Small | |
| DMH12 | Falmouth Choice Housing | 1 | Falmouth | , | AEP1407E UT1 | Utility Vendor | Implementation Started | \$ | 6,701 | | 3,353 | Small | Yes |
| DMH13 | Franklin County Mental Health Assoc | 1 | Greenfield | 14,763 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| DMH14 | Haverhill Choice Housing | 1 | Haverhill | 4,087 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 8,174 | \$ | 817 | Small | |
| DMH16 | Harry C. Solomon Mntl Health Center | 1 | Lowell | 67,456 | AEP1505E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ | 20,346 | Small | |
| DMH17 | Lynn Choice Housing | 1 | Lynn | 3,209 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 6,418 | \$ | 642 | Small | |
| DMH20 | Nantucket Choice Housing | 1 | Nantucket | , | AEP1413E UT1 | | Initiated | \$ | 10,942 | | 1,094 | Small | |
| DMH24 | Northampton Ctr For Children/Family | 7 | Northampton | | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 36,096 | | 3,610 | Small | |
| DMH26 | Quincy Mental Health Center | 3 | Quincy | 66 332 | AEP1505E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ | 59,180 | Small | |
| DMH28 | Saugus Choice Housing | 1 | Saugus | , | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 8,400 | | 840 | Small | |
| DMH29 | Gandara Mental Health Center | 1 | Springfield | | AEP1311E UT1 | Utility Vendor | Substantially Complete | \$ | 22,688 | | 2,815 | Small | No |
| DMH31 | Swampscott Choice Housing | 2 | Swampscott | 5,000 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 10,000 | \$ | 1,000 | Small | |
| DMH32 | Taunton State Hospital | 20 | Taunton | , | DMH0902 ES1 | New Review | Audit Complete | \$ | 4,316,017 | | 374,897 | Large | |
| DMH32 | Wenham Choice Housing | 1 | Wenham | , | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 4,322 | _ | 432 | Small | |
| DMH34 | Westborough State Hospital | 1 | Westborough | | AEP1505E UT1 | Utility Vendor | Initiated | \$ | - | \$ | - | Large | |
| DMH36 | Whitman Choice Housing | 1 | Whitman | · · · · · | AEP1413E UT1 | Utility Vendor | Initiated | \$ | 10,540 | \$ | 1,054 | Small | |
| DMH30 DMH37 | Worcester State Hospital | 13 | Worcester | , | DCP1239 HC2 | Other | Audit Complete | \$ | - | \$ | 95,686 | Large | |

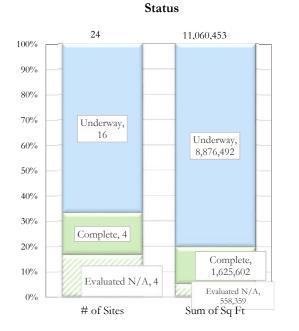
| Access | 10.00 | |
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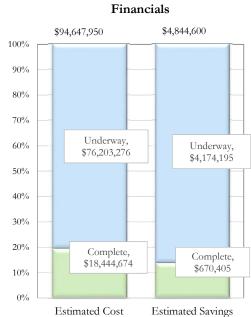
| | Site Information | | | | AEP Program Status | | | | | | | AEP Certification | | |
|------------------|-----------------------------------|------|--------------|-----------|--------------------|----------------|---------------------------|----|---------------|----|-----------|-------------------|-----------|--|
| Program Area | | | | | | | | | | | | | | |
| Agency | | # | | | | Procurement | | Cu | rrent Working | | Annual | AEP Certified | AEP | |
| Site Code | Site Name | Bldg | Municipality | Sq Ft | Project Number | Strategy | Status | | Estimate | | Savings | Group | Certified | |
| DMH40 | Western MA Area Office | 2 | Northampton | | AEP1505E UT1 | Utility Vendor | Initiated | \$ | 100,000 | - | 17,583 | Small | | |
| | DMH Group Home | 2 | Danvers | 4,563 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 9,126 | \$ | 913 | Small | | |
| Department Of P | Public Health | | | - | | | | | | | | | | |
| DPH00 | Lemuel Shattuck Hospital | 3 | Boston | 702,471 | AEP1309E UT1 | Utility Vendor | Implementation Started | \$ | 97,874 | \$ | 16,801 | Large | TBD | |
| DPH02 | Mass Hospital School | 31 | Canton | 457,080 | DPH1306E ES1 | FA - Comp | Audit Complete | \$ | 21,478,014 | \$ | 1,222,590 | Large | | |
| DPH03 | Tewksbury State Hospital | 60 | Tewksbury | 1,025,922 | DPH1505E ES1 | FA - Comp | Initiated | \$ | 102,592 | \$ | 441,094 | Large | | |
| DPH04 | Western Mass Hospital | 7 | Westfield | 169,735 | AEP1312E UT1 | Utility Vendor | Initiated | \$ | - | \$ | - | Large | | |
| DPH04 | Western Mass Hospital | 7 | Westfield | | DPH1305E ES1 | New Review | Audit Complete | \$ | 1,281,700 | \$ | 104,906 | Large | | |
| Department Of Y | Youth Services | | | - | | | | | | | | | | |
| DYS00 | Judge Connelly Youth Center | 1 | Boston | 55,800 | DYS1401E ES1 | FA - Comp | Initiated | \$ | 669,600 | \$ | 43,059 | Small | | |
| DYS01 | Metropolitan Youth Service Center | 3 | Boston | 74,000 | DYS1402E ES1 | FA - Comp | Initiated | \$ | 888,000 | \$ | 51,778 | Small | | |
| DYS02 | Western Youth Service Center | 8 | Springfield | 122,645 | DYS1404E ES1 | FA - Comp | Initiated | \$ | 2,029,319 | \$ | 101,584 | Large | | |
| DYS03 | Central Youth Service Center | 5 | Westborough | 180,550 | DYS1302E ES1 | FA - Comp | Audit Complete | \$ | 4,584,259 | \$ | 98,329 | Large | | |
| DYS03 | Central Youth Service Center | 5 | Westborough | | DYS1302E RX1 | FA - Rx | Implementation Started | \$ | 149,257 | \$ | 41,022 | Large | No | |
| DYS04 | Westfield Youth Service Center | 3 | Westfield | 57,702 | DYS1404E ES1 | FA - Comp | Initiated | \$ | 485,942 | \$ | 57,695 | Small | | |
| DYS05 | Paul T. Leahy Center | 4 | Worcester | 46,636 | DYS1502E ES1 | FA - Rx | Initiated | \$ | 494,342 | \$ | 35,987 | Small | | |
| DYS07 | Brewster Multiservice Center | 28 | Brewster | 44,085 | AEP1407E UT1 | Utility Vendor | Audit Complete | \$ | 100,000 | \$ | 10,165 | Small | | |
| DYS09 | Howland Detention Services | 1 | Taunton | 18,000 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A | |
| DYS10 | Murray Community Services | 1 | Taunton | 29,275 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A | |
| DYS11 | NFI Shelter Care | 1 | Middleton | 14,336 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | | |
| DYS12 | DYS - Lancaster | 2 | Lancaster | 13,820 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A | |
| DYS13 | DYS - Grafton | 8 | Grafton | 38,074 | AEP1402E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ | 16,532 | Small | | |
| DYS14 | DYS - Lowell | 1 | Lowell | 15,004 | AEP1505E UT1 | Utility Vendor | Initiated | \$ | 100,000 | \$ | 6,515 | Small | | |
| DYS15 | DYS - Taunton | 1 | Taunton | 77,390 | DYS1404 ST1 | Other | Substantially Complete | \$ | - | \$ | 95,686 | Small | TBD | |
| Holyoke Soldiers | Home | | | - | | | _ | | | | | | | |
| HLY00 | Soldiers Home - Holyoke | 9 | Holyoke | 245,231 | HLY1501E ES1 | New Review | Initiated | \$ | 24,523 | \$ | 106,107 | Large | | |
| Grand Total | | 88 | | 7,689,740 | | | | \$ | 54,290,199 | \$ | 6,808,448 | | | |

Implementation Method

Higher Education







| Program Area AgencyBideHHH <th>0</th> <th>AEP Certified</th> | 0 | AEP Certified |
|--|------------------|------------------|
| Berkshire Community College 15 Pittsfield 297,720 BCC1401E ES1 New Review Audit Complete \$ 11,756,343 \$ 321,433 Bridgewater State College 15 Pittsfield 297,720 BCC1401E ES1 New Review Audit Complete \$ 11,756,343 \$ 321,433 Bridgewater State College 1 Bridgewater 1,175,183 BSC1501E ES1 New Review Initiated \$ 117,518 \$ 5,000 Bristol Community College 1 Fall River 356 641 BRC1001 ST1 Other Implementation \$ 117,518 \$ 5,000 | Ŭ | |
| BCC00 Berkshire Community College 15 Pittsfield 297,720 BCC1401E ES1 New Review Audit Complete \$ 11,756,343 \$ 321,433 Bridgewater State College - <td>Ŭ</td> <td></td> | Ŭ | |
| Bridgewater State College Implementation Implementation Implementation BSC00 Bridgewater State University 44 Bridgewater 1,175,183 BSC1501E ES1 New Review Initiated \$ 117,518 \$ 5,000 Bristol Community College 11 Fall River 356 641 BRC1001 ST1 Other Implementation \$ 5,000 | Ŭ | |
| BSC00 Bridgewater State University 44 Bridgewater 1,175,183 BSC1501E ES1 New Review Initiated \$ 117,518 \$ 5,000 Bristol Community College - | Large | |
| Bristol Community College - - Implementation BRC00 Bristol Community College 11 Fall River 356 641 BRC1001 ST1 Other Implementation |) Large | |
| BRC00 Bristol Community College 11 Fall River 356 641 BRC1001 ST1 Other Implementation \$ \$ | | |
| BRC00 Bristol Community College 11 Fall River 356.641 BRC1001 ST1 Other 5 S - S - | | |
| Started 350,041 Incloor STI Ould Started | Large | |
| Cape Cod Community College | | |
| CCC00 Cape Cod Community College 14 Barnstable 330,254 CCC1402E ES1 TZNE Initiated \$ 3,963,048 \$ 330,254 | Large | |
| Essex Agricultural And Technical High School - | | |
| DOE00 Essex Agricultural Tech Institute 38 Danvers 205,241 Evaluated NA Evaluated NA Evaluated N/A \$ - \$ - | Evaluated N/A | N/A |
| Fitchburg State College | | |
| FSC01 Fitchburg State University 22 Fitchburg 949,809 FSC1301E ES1 FA - Comp Audit Complete \$ 10,837,219 \$ 556,98 | Large | |
| Greenfield Community College - | | |
| GCC00 Greenfield Community College 8 Greenfield 301,146 GCC1402E ES1 TZNE Audit Complete \$ 3,613,752 \$ 186,133 | 5 Large | |
| Holyoke Community College | 0 | |
| HCC00 Holyoke Community College 13 Holyoke 594,726 HCC1301E ES1 TZNE Audit Complete \$ 4,744,911 \$ 346,067 | 7 Large | |
| Mass Bay Community College - | | |
| MBC00 Mass Bay Community College 5 Wellesley 191,695 MBC1501E ES1 New Review Initiated \$ 19,170 \$ 83,23' | / Large | |
| Massachusetts College Of Art - | | |
| MCA00 Mass College Of Art And Design 9 Boston 812,835 MCA1501E ES1 FA - Comp Initiated \$ 9,754,020 \$ 759,870 |) Large | |
| Massachusetts College Of Liberal Arts - | | |
| NAC00 Mass College Of Liberal Arts 22 North Adams 437,869 NAC1102 EC1 FA - Comp Audit Complete \$ 4,401,250 \$ 169,272 | 2 Large | |
| Massachusetts Maritime Academy - | Large | |
| | | |
| MMA00 Massachusetts Maritime Academy 27 Bourne 328,764 MMA1401E EC1 FA - Comp Audit Complete \$ 189,200 \$ 2,342 | 2 Large | |
| Middlesex Community College - | | |
| MCC00 Middlesex Community College 12 Bedford 226,008 MCC0901 EC2 FA - Comp Substantially Complete \$ 324,113 \$ 6,524 | Large | No |
| MCC00 Middlesex Community College 12 Bedford 226,008 MCC1301E ES1 FA - Comp Implementation Started \$ 5,403,121 \$ 110,684 | Large | Yes |
| Mt. Wachusett Community College - | | |
| MWC00 Mount Wachusett Community College 12 Gardner 491,789 MWC1310 TR1 New Review Implementation Started \$ 39,660 \$ 2,833 | Large | TBD |
| North Shore Community College - | | |
| NSC00 North Shore C C Danvers 8 Danvers 273,989 Evaluated NA Evaluated NA \$-\$. | Evaluated N/A | N/A |
| NSC02 North Shore - Hathorne Campus 5 Danvers 65,077 Evaluated NA Evaluated NA \$- \$- | Evaluated N/A | N/A |
| NSC03 North Shore - Beverly 1 Beverly 14,052 Evaluated NA Evaluated NA \$- \$- | Evaluated N/A | N/A |

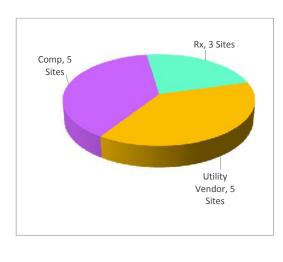


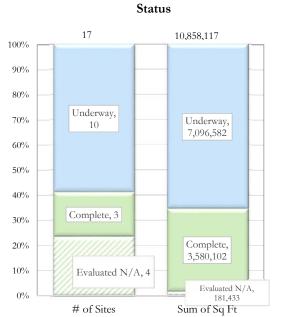
| | Site Information | | | | | A | EP Program Status | ; | | | AEP Certi | fication |
|-------------------------------------|---------------------------------------|-----------|--------------|------------|----------------|-------------------------|---------------------------|------|-----------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | nt Working stimate | Annual Savings | AEP Certified Group | AEP Certified |
| Northern Essex (| Community College | | | - | | | | | | | | |
| NEC00 | Northern Essex Comm Col Haverhill | 13 | Haverhill | 382,079 | NEC0901 EC1 | FA - Comp | Substantially Complete | \$ | 5,917,000 | \$ 353,586 | Large | No |
| NEC01 | Northern Essex Comm Col Lawrence | 2 | Lawrence | 63,436 | NEC0901 EC1 | FA - Comp | Substantially Complete | \$ | 761,232 | \$ 6,276 | Small | No |
| Roxbury Commu | nity College | | | - | | | | | | | | |
| RCC00 | Roxbury Community College | 6 | Boston | 431,626 | RCC1301E ES1 | FA - Comp | Initiated | \$ | 5,179,512 | \$ 325,107 | Large | |
| Salem State Colleg | ge | | | - | | | | | | | | |
| SSA00 | Salem State University | 35 | Salem | 949,454 | SSA1101 EC1 | FA - Comp | Implementation Started | \$ | 1,814,379 | \$ 212,247 | Large | No |
| SSA00 | | | Salem | | SSA1101 EC2 | FA - Comp | Implementation Started | \$ | 2,991,218 | \$ 65,460 | Large | No |
| Springfield Techn | ical Community College | | | - | | | | | | | | |
| STC00 | Springfield Tech Community College | 21 | Springfield | 954,079 | STC1318E EC1 | FA - Comp | Substantially Complete | \$ 1 | 1,442,329 | \$ 304,019 | Large | No |
| Westfield State Co | ollege | | | - | | | | | | | | |
| WSC00 | Westfield State University | 17 | Westfield | 683,929 | WSC1301E ES1 | FA - Comp | Audit Complete | \$ | 4,862,331 | \$ 154,222 | Large | |
| Worcester State C | College | | | - | | | | | | | | |
| WOR01 | Worcester State College | 15 | Worcester | 543,052 | WOR1401E EC1 | FA - Comp | Initiated | \$ | 6,516,624 | \$ 543,052 | Large | |
| Grand Total | | 24 | | 11,060,453 | | | | \$ 9 | 4,647,950 | \$ 4,844,600 | | |

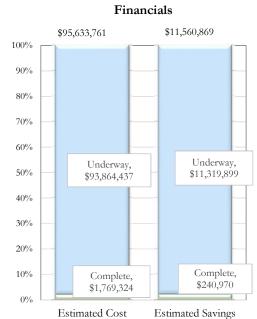
UMASS

AEP Phase 1 Progress Summary

Implementation Method









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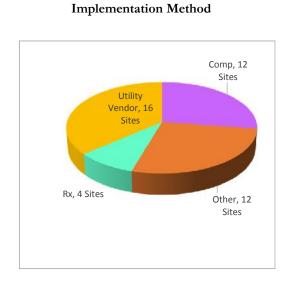
10,858,117

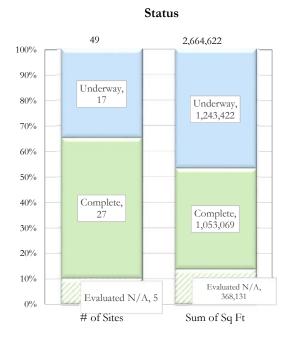
Grand Total

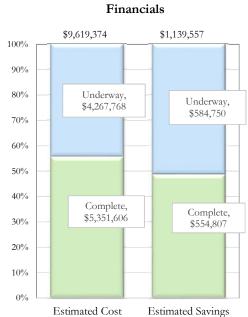
| | Site Information | | | | | Α | EP Program Status | 3 | | | AEP Certi | fication |
|-------------------------------------|--|-----------|--------------|-----------|----------------|-------------------------|---------------------------|----|--------------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | rent Working Estimate | Annual Savings | AEP Certified Group | AEP Certified |
| UMASS | • | | | - | | | | | | | | |
| University Of M | assachusetts At Amherst | | | - | | | | | | | | |
| UMA00 | UMASS - Amherst | 27 | Amherst | 3,483,790 | UMA0901 ES1 | FA - Comp | Initiated | \$ | 20,000,000 | \$ 2,699,164 | Large | |
| UMA00 | UMASS - Amherst | 27 | Amherst | 3,483,790 | UMA1101 EC1 | FA - Comp | Substantially Complete | \$ | 1,670,160 | \$ 225,918 | Large | No |
| UMA00 | UMASS - Amherst | - 27 | Amherst | 3,483,790 | UMA1401E ES1 | FA - Comp | Initiated | \$ | 6,365,400 | \$ 636,540 | Large | |
| UMA01 | Horticultural Experiment Center | 7 | Belchertown | 30,904 | UMA1301E RX1 | FA - Rx | Substantially Complete | \$ | 40,281 | \$ 4,568 | Small | No |
| UMA02 | Dairy Biotechnology Center | 16 | Deerfield | 65,408 | UMA1301E RX1 | FA - Rx | Substantially Complete | \$ | 58,883 | \$ 10,484 | Small | Yes |
| UMA03 | Marine Biological Research Station | 3 | Gloucester | 3,756 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 7,512 | \$ 751 | Small | |
| UMA04 | Hadley Farm | 33 | Hadley | 135,166 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| UMA06 | Radio Astronomy Observatory | (blank) | New Salem | (blank) | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| UMA07 | UMASS - Mount Lincoln Radio Station | 3 | Pelham | 1,607 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 3,214 | \$ 321 | Small | |
| UMA08 | Agr Experiment Station Wareham | 10 | Wareham | 23,844 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 47,688 | \$ 4,775 | Small | |
| UMA09 | Extension Service Station | 3 | Concord | 6,300 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| UMA10 | Agricultural Experiment Station | 14 | Waltham | 49,309 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 98,618 | \$ 9,862 | Small | |
| University Of M | assachusetts At Boston | | | - | | | | | | | | |
| UMB00 | UMASS Boston | 15 | Boston | 2,476,994 | UMB1501E RX1 | FA - Rx | Initiated | \$ | 1,627,700 | \$ 162,770 | Large | |
| UMB05 | UMASS Boston Agr Exp Station - Ntk | 5 | Nantucket | 8,803 | AEP1508E UT1 | Utility Vendor | Initiated | \$ | 17,606 | \$ 1,761 | Small | |
| University Of M | assachusetts At Lowell | | | - | | | | | | | | |
| LOW00 | UMASS Lowell Billerica | 1 | Billerica | 39,967 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| LOW02 | UMASS Lowell Lowell | 62 | Lowell | 2,736,006 | UML1301E ES1 | FA - Comp | Audit Complete | \$ | 21,665,173 | \$ 1,358,368 | Large | |
| LOW05 | UMASS Lowell Tsongas Center | 1 | Lowell | (blank) | UML1301E ES1 | FA - Comp | Audit Complete | \$ | 2,910,000 | \$ 163,295 | Small | |
| University Of M | assachusetts Medical School | | | - | | | | | | | | |
| UMM00 | University Of Mass Medical Center | 4 | Worcester | 1,550,452 | UMW1401E ES1 | FA - Comp | Initiated | \$ | 28,505,226 | \$ 3,968,592 | Large | |
| UMM01 | State Laboratory Institute | 3 | Boston | 245,811 | DPH1350E ES1 | FA - Comp | Audit Complete | \$ | 12,616,300 | \$ 2,313,700 | Large | |

\$ 95,633,761 \$ 11,560,869

Judiciary









| | Site Information | | | | | | AEP Certification | | | | | |
|-------------------------------------|--|-----------|-----------------|---------|----------------|-------------------------|---------------------------|----------------------------|------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | Current Workin Estimate | ıg | Annual Savings | AEP Certified Group | AEP Certified |
| Judiciary | | | | - | | | | | | | | |
| Trial Court | | | | - | | | | | | | | |
| TRC00 | Ayer District Court | 1 | Ayer | 35,400 | AEP1301E UT2 | Utility Vendor | Substantially Complete | \$ 95,28 | 5 \$ | 14,102 | Small | Yes |
| TRC05 | Dorchester Municipal Court | 1 | Boston | 77,000 | ZTRCDOER | Other | Substantially Complete | \$ - | \$ | 59,418 | Small | TBD |
| TRC12 | Cambridge Probate Family Court | 1 | Cambridge | 75,580 | TRC0604 HC1 | Other | Audit Complete | \$ - | \$ | - | Small | |
| TRC13 | East Cambridge Trial Court | 1 | Cambridge | 42,000 | TRC0604 HC1 | Other | Substantially Complete | \$ - | \$ | - | Small | |
| TRC15 | Chicopee District Court | 1 | Chicopee | 20,250 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 1,242,15 | 3 \$ | 45,363 | Small | Yes |
| TRC16 | Clinton District Court | 1 | Clinton | 19,440 | AEP1301E UT2 | Utility Vendor | Substantially Complete | \$ 59,87 | 5 \$ | 6,751 | Small | No |
| TRC17 | Concord Prob Family District Court | 1 | Concord | 25,219 | AEP1508E UT1 | Utility Vendor | Audit Complete | \$ 50,43 | 3 \$ | 5,044 | Small | |
| TRC18 | Dudley District Housing Court | 1 | Dudley | 18,048 | AEP1301E UT2 | Utility Vendor | Substantially Complete | \$ 69,08 | 5 \$ | 11,825 | Small | Yes |
| TRC19 | East Brookfield District Court | 1 | East Brookfield | 44,223 | AEP1301E UT2 | Utility Vendor | Substantially Complete | \$ 45,01 | 1 \$ | 5,611 | Small | No |
| TRC20 | Fall River Trial Court Durfee | 1 | Fall River | 75,000 | AEP1310E UT1 | Utility Vendor | Audit Complete | \$ 100,00 |) \$ | 38,437 | Small | |
| TRC21 | Fitchburg District Court | 1 | Fitchburg | 40,300 | AEP1301E UT1 | Utility Vendor | Substantially Complete | \$ 84,73 | 1 \$ | 9,957 | Small | No |
| TRC22 | Fitchburg Family Prob Law Library | 2 | Fitchburg | 18,700 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| TRC23 | Framingham District Court | 1 | Framingham | 33,738 | ZTRCDOER | Other | Substantially Complete | \$ - | \$ | 26,034 | Small | TBD |
| TRC24 | Gardner District Court | 2 | Gardner | 17,425 | AEP1301E UT1 | Utility Vendor | Substantially Complete | \$ 98,18 | 3 \$ | 9,098 | Small | Yes |
| TRC25 | Greenfield Trial Court | 1 | Greenfield | 47,186 | TRC0606 DC1 | Other | Implementation Started | \$ - | \$ | - | Small | |
| TRC27 | Haverhill District Court | 1 | Haverhill | 20,400 | TRC1214 HC1 | Other | Initiated | \$ - | \$ | 4,080 | Small | |
| TRC28 | Holyoke District Court | 1 | Holyoke | 20,000 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 388,70 | 1 \$ | 20,963 | Small | Yes |
| TRC29 | Lawrence Superior Court | 1 | Lawrence | 43,680 | TRC1401E ES1 | FA - Comp | Audit Complete | \$ 863,27 | 7 \$ | 55,779 | Small | |
| TRC30 | Fenton Judicial Center | 1 | Lawrence | 165,000 | TRC1408E RX1 | FA - Rx | Initiated | \$ 1,749,00 |) \$ | 120,845 | Large | |
| TRC31 | Lowell District Court | 1 | Lowell | 57,200 | TRC1401E ES1 | FA - Comp | Audit Complete | \$ 107,90 | 3 \$ | 24,163 | Small | |
| TRC32 | Lowell Superior Probate Family Cour | 1 | Lowell | 89,723 | TRC1401E ES1 | FA - Comp | Audit Complete | \$ 125,04 | \$ | 22,536 | Small | |
| TRC33 | Lynn District Court | 1 | Lynn | 40,875 | AEP1301E UT2 | Utility Vendor | Substantially Complete | \$ 95,19 | 1 \$ | 16,201 | Small | No |
| TRC34 | Malden District Court | 1 | Malden | 24,124 | AEP1301E UT2 | Utility Vendor | Implementation Started | \$ 93,55 | 3 \$ | 7,482 | Small | No |

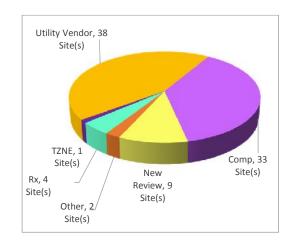


| | Site Information | | | | | A | EP Program Status | | | AEP Certification | | |
|-------------------------------------|--|-----------|-----------------------|---------|----------------|-------------------------|---------------------------|-------------------------|-------------------|------------------------|------------------|--|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | ent Working Estimate | Annual Savings | AEP Certified Group | AEP Certified | |
| TRC35 | Marlborough District Court | 1 | Marlborough | 39,000 | AEP1301E UT1 | Utility Vendor | Substantially Complete | \$ 66,218 | \$ 11,623 | Small | No | |
| TRC36 | Milford District Court | 1 | Milford | 18,940 | AEP1301E UT1 | Utility Vendor | Substantially Complete | \$ 97,111 | \$ 10,636 | Small | Yes | |
| TRC38 | Newburyport District Court | 1 | Newburyport | 56,437 | TRC1408E RX1 | FA - Rx | Initiated | \$ 598,232 | \$ 43,550 | Small | | |
| TRC39 | Newburyport Superior Court | 1 | Newburyport | 8,617 | TRC1408E RX1 | FA - Rx | Initiated | \$ 91,340 | \$ 6,649 | Small | | |
| TRC40 | Newton District Court | 1 | Newton | 20,000 | ZTRCDOER | Other | Substantially Complete | \$ 8,430 | \$ 1,471 | Small | TBD | |
| TRC41 | Palmer District Court | 1 | Palmer | 20,506 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 157,993 | \$ 11,466 | Small | Yes | |
| TRC42 | Peabody District Court | 1 | Peabody | 40,247 | AEP1310E UT1 | Utility Vendor | Implementation Started | \$ 93,569 | \$ 16,333 | Small | No | |
| TRC44 | Salem Probate Court | 1 | Salem | 41,500 | TRC1209 ST1 | Other | Implementation Started | \$ - | \$ 32,024 | Small | | |
| TRC45 | Salem Superior Court | 1 | Salem | 20,539 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated N/A | N/A | |
| TRC46 | Somerville District Court | 1 | Somerville | 27,305 | ZTRCDOER | Other | Substantially Complete | \$ - | \$ 21,070 | Small | TBD | |
| TRC47 | Springfield Court Complex | 1 | Springfield | 245,000 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 1,316,948 | \$ 117,320 | Large | No | |
| TRC48 | Uxbridge District Court | 1 | Uxb r idge | 14,574 | AEP1301E UT1 | Utility Vendor | Substantially Complete | \$ 52,797 | \$ 9,747 | Small | Yes | |
| TRC49 | Waltham District Court | 1 | Waltham | 23,871 | ZTRCDOER | Other | Substantially Complete | \$ - | \$ 18,420 | Small | TBD | |
| TRC50 | Westborough District Court | 1 | Westborough | 21,624 | AEP1301E UT1 | Utility Vendor | Substantially Complete | \$ 34,446 | \$ 5,134 | Small | No | |
| TRC51 | Woburn District Court | 1 | Woburn | 26,235 | ZTRCDOER | Other | Substantially Complete | \$ - | \$ 20,245 | Small | TBD | |
| TRC52 | Worcester Trial Court | 1 | Worcester | 427,457 | TRC1211 ES1 | FA - Rx | Implementation Started | \$ 303,555 | \$ 198,193 | Large | No | |
| TRC59 | Northampton Probate Family Court | 1 | Northampton | 21,424 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated N/A | | |
| TRC60 | Northampton Superior District Court | 2 | Northampton | 61,475 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 907,530 | \$ 49,653 | Small | Yes | |
| TRC63 | Springfield Housing Juvenile Court | 1 | Springfield | 48,900 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 168,290 | \$ 22,082 | Small | No | |
| TRC64 | Pittsfield District Court | 1 | Pittsfield | 22,380 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 78,252 | \$ 7,518 | Small | No | |
| TRC65 | Pittsfield Superior Court | 1 | Pittsfield | 27,500 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 49,773 | \$ 6,120 | Small | No | |
| TRC66 | Pittsfield Probate Family Court | 1 | Pittsfield | 27,060 | TRC0802 EC2 | FA - Comp | Substantially Complete | \$ 235,594 | \$ 16,979 | Small | Yes | |
| TRC78 | Taunton Superior/Juvenile/Law Lbry | 1 | Taunton | 42,896 | TRC0602 DC2 | Other | Audit Complete | \$ - | \$ - | Small | | |

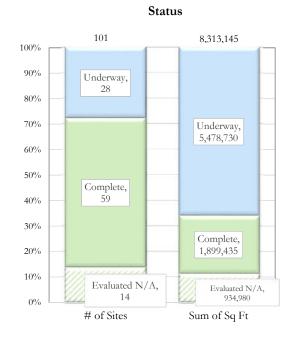


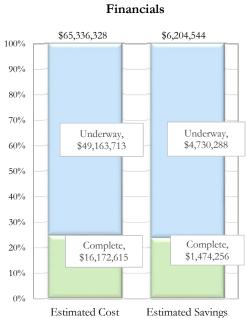
| | Site Information | | | | | Al | EP Program Status | ; | | | | AEP Certit | fication |
|--------------|----------------------------------|------|--------------|-----------|----------------|----------------|---------------------------|-------|-------------|----|-----------|---------------|-----------|
| Program Area | | | | | | | | | | | | | |
| Agency | | # | | | | Procurement | | Curre | ent Working | 1 | Annual | AEP Certified | AEP |
| Site Code | Site Name | Bldg | Municipality | Sq Ft | Project Number | Strategy | Status | E | Estimate | 5 | Savings | Group | Certified |
| TRC93 | Taunton Court Complex | 1 | Taunton | 157,076 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | |
| TRC94 | Fall River Justice Center | 1 | Fall River | 150,392 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ | - | Evaluated N/A | N/A |
| TRC96 | Falmouth District/Juvenile Court | 1 | Falmouth | 3,156 | AEP1310E UT1 | Utility Vendor | Implementation Started | \$ | 91,852 | \$ | 9,635 | Small | TBD |
| Grand Total | | 49 | | 2,664,622 | | | | \$ | 9,619,374 | \$ | 1,139,557 | | |

AEP Phase 1 Progress Summary Public Safety



Implementation Method





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| | Site Information | | | | | A | EP Program Status | | | | AEP Certif | ication |
|-------------------------------------|---|-----------|--------------|---------|----------------|-------------------------|---------------------------|-----------------------------|-------------|-----------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | Current Working Estimate | , | nnual avings | AEP Certified Group | AEP Certified |
| Public Safety | | | | - | | | | | | | | |
| Criminal Justice | Fraining Council | | | - | | | | | | | | |
| CJT00 | New England Police Institute- Agawam | (blank) | Agawam | (blank) | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| Department Of O | Corrections | | | - | | | | | | | | |
| DOC03 | MCI - Concord | 37 | Concord | 518,138 | DOC1401E ES1 | FA - Comp | Audit Complete | \$ 10,952,250 | \$ | 879,436 | Large | |
| DOC04 | Northeastern Correctional Center | 27 | Concord | 128,741 | DOC1401E ES1 | FA - Comp | Audit Complete | \$ 1,453,940 | \$ | 121,263 | Large | |
| DOC05 | MCI - Framingham | 31 | Framingham | 355,861 | DOC1301E ES1 | FA - Comp | Audit Complete | \$ 18,168,580 | \$ 1 | 1,250,537 | Large | |
| DOC06 | North Central Correctional Institute | 59 | Gardner | 436,411 | DOC0902 EC1 | TZNE | Substantially Complete | \$ 13,405,395 | \$ 1 | 1,104,630 | Large | Yes Plus |
| DOC07 | Bay State Correctional Ctr Norfolk | 18 | Norfolk | 219,117 | DOC1502E ES1 | New Review | Initiated | \$ 21,912 | \$ | 91,151 | Large | |
| DOC08 | MCI - Norfolk | 76 | Norfolk | 646,646 | DOC1502E ES1 | New Review | Initiated | \$ 64,665 | \$ | 269,031 | Large | |
| DOC09 | MCI - Plymouth | 20 | Plymouth | 56,504 | AEP1312E UT1 | Utility Vendor | Initiated | \$ 100,000 | \$ | 10,000 | Small | |
| DOC11 | MCI - Cedar Junction | 30 | Walpole | 666,225 | DOC1502E ES1 | New Review | Initiated | \$ 66,623 | \$ | 287,621 | Large | |
| DOC13 | Masac (Mass Alcohol & Substance) | 12 | Bridgewater | 45,957 | DOC1504E ES1 | New Review | Initiated | \$ 4,596 | \$ | 19,955 | Small | |
| DOC14 | Massachusetts Treatment Center | 3 | Bridgewater | 177,982 | DOC1504E ES1 | New Review | Initiated | \$ 17,798 | \$ | 77,282 | Large | |
| DOC15 | Bridgewater State Hospital | 16 | Bridgewater | 167,966 | DOC1504E ES1 | New Review | Initiated | \$ 16,797 | \$ | 72,065 | Large | |
| DOC16 | Old Colony Correctional Center | 11 | Bridgewater | 312,447 | DOC1504E ES1 | New Review | Initiated | \$ 31,245 | \$ | 135,495 | Large | |
| DOC17 | Southeastern Correctional Center | 54 | Bridgewater | 570,778 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| DOC19 | South Middlesex Correctional Center | 8 | Framingham | 74,884 | DOC1301E ES1 | FA - Comp | Audit Complete | \$ 452,334 | \$ | 37,572 | Small | |
| DOC21 | Pondville Correctional Center | 10 | Norfolk | 117,360 | DOC1502E ES1 | New Review | Initiated | \$ 11,736 | \$ | 50,959 | Large | |
| DOC23 | Boston Pre-release Center | 3 | Boston | 45,818 | DOC1402E RX1 | FA - Rx | Initiated | \$ 485,671 | \$ | 35,356 | Small | |
| DOC24 | MCI Shirley | 72 | Shirley | 610,490 | DOC1501E RX1 | FA - Rx | Initiated | \$ 6,471,194 | \$ | 520,831 | Large | |
| DOC25 | Souza Baranowski Correctional Ctr | 8 | Shirley | 558,342 | DOC1501E RX1 | FA - Rx | Initiated | \$ 5,918,425 | \$ | 518,476 | Large | |
| DOC30 | Bridgewater Correctional Core Serv | 29 | Bridgewater | 198,072 | DOC1504E ES1 | New Review | Initiated | \$ 19,807 | \$ | 73,294 | Large | |
| DOC31 | DOC Resource Management | 3 | Norfolk | 3,110 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| Department Of I | Fire Services | | | - | | | | | | | | |
| DFS00 | Mass Firefighting Academy | 14 | Stow | 119,506 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ | - | Evaluated N/A | N/A |
| Department Of S | State Police | | | - | | | | | | | | |
| POL00 | Police Barn Acton | 4 | Acton | 15,068 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ 20,780 | \$ | 1,336 | Small | TBD |
| POL01 | Police Station Andover | 1 | Andover | 4,000 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 6,502 | \$ | 321 | Small | No |
| POL02 | Police Station Athol | 1 | Athol | 7,931 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 8,936 | \$ | 268 | Small | No |



| | Site Information | | | | | A | EP Program Status | | | AEP Certification | |
|-------------------------------------|----------------------------------|-----------|---------------|---------------|----------------|-------------------------|---------------------------|-----------------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | Current Working Estimate | Annual Savings | AEP Certified Group | AEP Certified |
| POL03 | Police Station Bourne S | 2 | Bourne | 9,182 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 48,946 | \$ 4,334 | Small | No |
| POL04 | Police Station Brookfield | 2 | Brookfield | 4,190 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 23,473 | \$ 2,325 | Small | No |
| POL05 | Police Station Cheshire | 2 | Cheshire | 4,224 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 35,586 | \$ 3,012 | Small | Yes |
| POL06 | Police Station Concord | 1 | Concord | 4, 800 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 30,547 | \$ 3,692 | Small | No |
| POL08 | Police Station Foxborough | 1 | Foxborough | 9,280 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 40,288 | \$ 4,102 | Small | No |
| POL09 | General Headquarters Compound | 8 | Framingham | 144,211 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 66,941 | \$ 5,207 | Small | TBD |
| POL10 | Police Station Grafton | 1 | Grafton | 5,770 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated N/A | |
| POL11 | Police Station Holden | 4 | Holden | 19,322 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 73,672 | \$ 9,070 | Small | Yes |
| POL12 | Police Station Lee | 3 | Lee | 5,354 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 22,319 | \$ 2,003 | Small | Yes |
| POL13 | Police Station Leominster | 2 | Leominster | 8,145 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 43,829 | \$ 3,037 | Small | No |
| POL14 | Police Station Middleborough | 4 | Middleborough | 22,398 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 92,938 | \$ 7,997 | Small | Yes |
| POL15 | Police Station Nantucket | 2 | Nantucket | 4,537 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated N/A | N/A |
| POL16 | Police Station Newbury | 2 | Newbury | 4,200 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 36,807 | \$ 3,380 | Small | No |
| POL17 | Police Station Northampton | 8 | Northampton | 18,398 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 64,351 | \$ 9,182 | Small | Yes |
| POL18 | Police Station Norwell | 1 | Norwell | 4,800 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 29,290 | \$ 2,568 | Small | No |
| POL19 | Police Station Oak Bluffs | 2 | Oak Bluffs | 6,710 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 13,288 | \$ 1,643 | Small | Yes |
| POL20 | Police Station Russell | 2 | Russell | 7,750 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 50,705 | \$ 4,100 | Small | No |
| POL21 | Police Station Shelburne | 1 | Shelburne | 7,931 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 30,654 | \$ 1,808 | Small | No |
| POL22 | Police Station Springfield | 2 | Springfield | 3,716 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 40,113 | \$ 3,821 | Small | No |
| POL23 | Sturbridge State Police Barracks | 2 | Sturbridge | 7,476 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 41,996 | \$ 2,677 | Small | No |
| POL24 | State Police Crime Lab | 1 | Sudbury | 25,576 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 113,365 | \$ 9,871 | Small | Yes |
| POL25 | Police Station Yarmouth | 2 | Yarmouth | 11,096 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ 33,154 | \$ 2,839 | Small | No |



| | Site Information | | | | | А | EP Program Status | 3 | | | AEP Certi | fication |
|-------------------------------------|------------------------------------|-----------|--------------|--------|----------------|-------------------------|---------------------------|-----|--------------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | Cur | rent Working Estimate | Annual Savings | AEP Certified Group | AEP Certified |
| POL27 | Revere State Police Barracks | 1 | Revere | 16,504 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ | 17,848 | \$ 375 | Small | No |
| POL28 | Police Station Boston Eabos | 1 | Boston | 5,200 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| POL29 | S. Boston State Police- 125 WJD | 2 | South Boston | 16,658 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ | 78,041 | \$ 5,240 | Small | No |
| POL31 | Police Station Danvers | 1 | Danvers | 27,273 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ | 125,044 | \$ 18,436 | Small | Yes |
| POL32 | Police Station Medford | 1 | Medford | 12,000 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ | 69,803 | \$ 4,495 | Small | Yes |
| POL33 | Special Operations Marine Division | 1 | Boston | 4,992 | POL0303 EC3 | FA - Comp | Substantially Complete | \$ | 38,605 | \$ 6,663 | Small | No |
| POL36 | Police Station Milton | 1 | Milton | 4,180 | ZPOL36DOER | Other | Substantially Complete | \$ | - | \$ 1,815 | Small | TBD |
| Emergency Mana | agement Agency | | | - | | | | | | | | |
| CDA00 | Civil Defense Headquarters | 3 | Framingham | 35,910 | EPS1401E EC1 | FA - Comp | Audit Complete | \$ | 1,969,788 | \$ 164,000 | Small | |
| Military Division | | | | - | | | | | | | | |
| MIL01 | Armory - Agawam | 1 | Agawam | 14,200 | AEP1311E UT1 | Utility Vendor | Substantially Complete | \$ | 56,500 | \$ 8,087 | Small | Yes Plus |
| MIL02 | Armory - Ayer | 1 | Ayer | 14,832 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 40,287 | \$ 4,566 | Small | Yes |
| MIL03 | Armory - Barnstable - Hyannis | 1 | Barnstable | 17,855 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MIL04 | Armory - Bourne | 1 | Bourne | 73,890 | AEP1310E UT1 | Utility Vendor | Initiated | \$ | 21,904 | \$ 2,658 | Small | |
| MIL05 | Armory - Braintree | 1 | Braintree | 18,445 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 48,419 | \$ 13,696 | Small | Yes |
| MIL06 | Armory - Brockton | 1 | Brockton | 23,285 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 12,088 | \$ 1,894 | Small | No |
| MIL07 | Armory - Cambridge | 1 | Cambridge | 26,700 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 22,149 | \$ 5,739 | Small | No |
| MIL09 | Armory - Chicopee | 1 | Chicopee | 16,962 | AEP1404E UT1 | Utility Vendor | Substantially Complete | \$ | 59,8 00 | \$ 6,286 | Small | Yes |
| MIL11 | Armory - Concord | 1 | Concord | 36,500 | AEP1309E UT1 | Utility Vendor | Substantially Complete | \$ | 44,111 | \$ 5,344 | Small | No |
| MIL12 | Armory - Danvers | 1 | Danvers | 23,200 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 45,560 | \$ 8,439 | Small | Yes |
| MIL13 | Armory - Fall River | 1 | Fall River | 39,040 | AEP1310E UT1 | Utility Vendor | Initiated | \$ | 78,080 | \$ 7,808 | Small | |
| MIL14 | Armory - Falmouth | 1 | Falmouth | 17,200 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MIL16 | Armory - Framingham | 3 | Framingham | 63,518 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 53,145 | \$ 9,475 | Small | No |
| MIL17 | Armory - Gardner | 1 | Gardner | 18,600 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 85,128 | \$ 13,783 | Small | Yes |



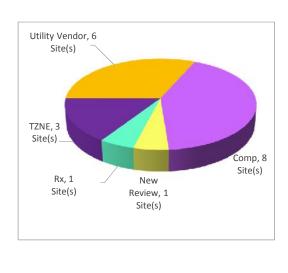
| | Site Information | | 1 | | | А | EP Program Status | 5 | | | AEP Certif | fication |
|-------------------------------------|----------------------------------|-----------|---------------|---------|----------------|-------------------------|---------------------------|----|-------------------------|-------------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | | ent Working Estimate | Annual Savings | AEP Certified Group | AEP Certified |
| MIL18 | Armory - Greenfield | 1 | Greenfield | 30,692 | AEP1311E UT1 | Utility Vendor | Substantially Complete | \$ | 87,925 | \$ 8,479 | Small | Yes |
| MIL19 | Armory - Hingham | 2 | Hingham | 40,300 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 25,912 | \$ 9,753 | Small | Yes |
| MIL21 | Armory - Hudson | 2 | Hudson | 39,892 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 51,975 | \$ 6,476 | Small | Yes |
| MIL22 | Armory - Leominster | 1 | Leominster | 16,484 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 30,516 | \$ 5,656 | Small | Yes |
| MIL23 | Armory - Lexington | 1 | Lexington | 31,761 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 22,984 | \$ 6,730 | Small | Yes |
| MIL24 | Armory - Lynn | 2 | Lynn | 44,798 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 44,823 | \$ 6,759 | Small | Yes |
| MIL27 | Armory - Melrose | 1 | Melrose | 25,500 | AEP1303E UT1 | Utility Vendor | Audit Complete | \$ | 100,000 | \$ 10,877 | Small | |
| MIL28 | Armory - Methuen | 3 | Methuen | 97,626 | AEP1303E UT1 | Utility Vendor | Implementation Started | \$ | 19,248 | \$ 1,438 | Small | No |
| MIL29 | Armory - Middleborough | 1 | Middleborough | 17,205 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 80,272 | \$ 19,281 | Small | Yes Plus |
| MIL30 | Armory - Milford | 1 | Millford | 33,200 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MIL31 | National Guard Headquarters | 2 | Milford | 264,651 | AEP1309E UT1 | Utility Vendor | Substantially Complete | \$ | 84,376 | \$ 16,321 | Large | No |
| MIL33 | Mass National Guard Supply Depot | 1 | Natick | 60,000 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MIL35 | Armory - Newburyport | 3 | Newburyport | 23,795 | AEP1303E UT1 | Utility Vendor | Audit Complete | \$ | 81,872 | \$ 5,501 | Small | |
| MIL36 | Armory - Newton | 1 | Newton | 26,890 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 21,137 | \$ 6,860 | Small | Yes |
| MIL38 | Armory - Northampton | 1 | Northampton | 14,556 | AEP1404E UT1 | Utility Vendor | Substantially Complete | \$ | 44,000 | \$ 8,089 | Small | Yes |
| MIL39 | Armory - Northbridge | 2 | Northbridge | 17,440 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 34,872 | \$ 4,243 | Small | Yes |
| MIL40 | Armory - Pittsfield | 1 | Pittsfield | 19,500 | AEP1311E UT1 | Utility Vendor | Substantially Complete | \$ | 87,556 | \$ 10,931 | Small | Yes Plus |
| MIL42 | Armory - Quincy | 2 | Quincy | 32,200 | AEP1310E UT1 | Utility Vendor | Initiated | \$ | 80,261 | \$ 12,175 | Small | |
| MIL43 | Camp Curtis Guild | 43 | Reading | 176,394 | MIL1402E ES1 | FA - Comp | Initiated | \$ | 2,116,728 | \$ 38,514 | Large | |
| MIL47 | Armory - Springfield66 | 1 | Springfield | 43,095 | AEP1311E UT1 | Utility Vendor | Substantially Complete | \$ | 95,693 | \$ 12,861 | Small | Yes |
| MIL49 | Armory - Ware | 1 | Ware | 18,447 | AEP1303E UT1 | Utility Vendor | Substantially Complete | \$ | 37,757 | \$ 7,601 | Small | Yes |
| MIL51 | Armory - Westfield | 2 | Westfield | 53,394 | AEP1311E UT1 | Utility Vendor | Substantially Complete | \$ | 76,008 | \$ 10,637 | Small | Yes |
| MIL55 | Museum - Worcester | 1 | Worcester | 65,424 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| MIL56 | Armory - Taunton | 1 | Taunton | 20,866 | AEP1309E UT1 | Utility Vendor | Substantially Complete | \$ | 92,992 | \$ 8,837 | Small | Yes |

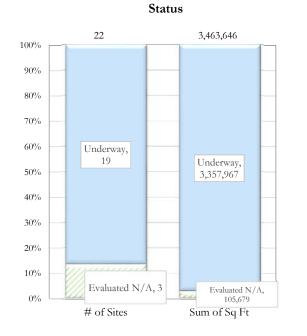
| | Site Information | | | | | A | EP Program Status | ; | | | AEP Certi | fication |
|------------------------|-----------------------------------|---------|--------------|-----------|----------------|----------------|---------------------------|----|-------------|-----------------|------------------|-----------|
| Program Area Agency | C. N | # | No. 11 Pr | | Division | Procurement | C | | ent Working | Annual | AEP Certified | |
| Site Code | Site Name | Bldg | Municipality | Sq Ft | Project Number | Strategy | Status | | Estimate | Savings | Group | Certified |
| MIL57 | Armory - Worcester | 1 | Worcester | 27,892 | AEP1309E UT1 | Utility Vendor | Substantially Complete | \$ | 38,710 | \$ 5,073 | Small | No |
| MIL58 | Camp Edwards Otis ANGB | 2 | Sandwich | 38,300 | AEP1310E UT1 | Utility Vendor | Initiated | \$ | 61,696 | \$ 12,204 | Small | |
| MIL59 | Armory - Dorchester | 1 | Boston | 27,354 | AEP1302E UT1 | Utility Vendor | Substantially Complete | \$ | 32,971 | \$ 8,615 | Small | No |
| MIL60 | Armory - Bridgewater | 1 | Bridgewater | 14,200 | AEP1308E UT1 | Utility Vendor | Substantially Complete | \$ | 11,733 | \$ 3,498 | Small | No |
| Office Of The Ch | nief Medical Examiner | | | - | | | | | | | | |
| CME00 | Chief Medical Examiner | 1 | Boston | 27,750 | CME1402 HS1 | Other | Initiated | \$ | 294,150 | \$ 21,414 | Small | |
| CME01 | Chief Medical Examiner - Sandwich | 1 | Sandwich | 7,775 | CME1501E RX1 | FA - Rx | Initiated | \$ | 82,415 | \$ 3,376 | Small | |
| Registry Of Moto | r Vehicles | | | - | | | | | | | | |
| RMV00 | Registry Of Motor Vehicles | (blank) | Marlborough | (blank) | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| RMV02 | Registry Of Motor Vehicles Worc | 1 | Worcester | 32,400 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ | - | \$ - | Evaluated N/A | N/A |
| Grand Total | • | 101 | | 8,313,145 | | | | \$ | 65,336,328 | \$ 6,204,544 | | |

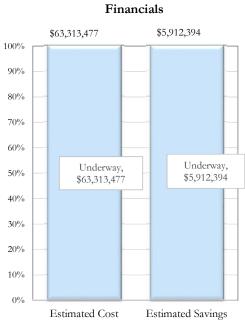
AEP Phase 1 Progress Summary

Implementation Method

Sheriffs Departments







| | Site Information | | | | | A | EP Program Status | 3 | | AEP Certi | fication |
|-------------------------------------|---|-----------|--------------|---------|----------------|---------------------------------------|---------------------------|-----------------------------|----------------|------------------------|------------------|
| Program Area Agency Site Code | Site Name | # Bldg | Municipality | Sq Ft | Project Number | Procurement Strategy | Status | Current Working Estimate | Annual Savings | AEP Certified Group | AEP Certified |
| Sheriffs Department | | | | - | | | | | | | |
| Sheriffs Departm | ent Barnstable | | | - | | | | | | | |
| SDC00 | Sheriffs Dept-Barnstable- Correction | 11 | Bourne | 178,769 | AEP1508E UT1 | Utility Vendor | Initiated | \$ 100,000 | \$ 135,933 | Large | |
| Sheriffs Departm | ent Berkshire | | | - | | | | | | | |
| SDB00 | Sheriffs Berkshire New | 4 | Pittsfield | 167,075 | SDB1201E EC1 | FA - Comp | Implementation Started | \$ 3,520,756 | \$ 364,672 | Large | Yes Plus |
| SDB01 | Sheriffs Berkshire Old | 3 | Pittsfield | 49,730 | AEP1312E UT1 | Utility Vendor | Implementation Started | \$ 48,162 | \$ 10,990 | Small | No |
| Sheriffs Departm | ent Bristol | | | - | | | | | | | |
| BSD00 | Sheriffs Bristol Dartmouth | 21 | Dartmouth | 299,451 | BSD1401E ES1 | FA - Comp | Audit Complete | \$ 15,250,467 | \$ 1,113,457 | Large | |
| BSD01 | Sheriffs Dept-Bristol-New Bedford | 3 | New Bedford | 213,905 | BSD1401E ES1 | FA - Comp | Audit Complete | \$ 2,089,680 | \$ 170,278 | Large | |
| Sheriffs Departm | ent Dukes | | | - | | | | | | | |
| SDD00 | Sheriffs Dept-dukes | 4 | Edgartown | 9,096 | AEP1504E UT1 | Utility Vendor | Initiated | \$ 18,192 | \$ 1,819 | Small | |
| SDD01 | Sheriffs Dept-Dukes-airport | 3 | Edgartown | 4,230 | AEP1504E UT1 | Utility Vendor | Initiated | \$ 8,460 | \$ 846 | Small | |
| Sheriffs Departm | ent Essex | | | - | | | | | | | |
| SDE00 | Sheriffs Essex Lawrence | 6 | Lawrence | 88,286 | SDE1301E EC1 | TZNE | Audit Complete | \$ 2,617,311 | \$ 70,463 | Small | |
| SDE01 | Sheriffs Essex Middleton | 12 | Middleton | 237,543 | SDE1301E EC1 | TZNE | Audit Complete | \$ 7,050,250 | \$ 584,304 | Large | |
| SDE03 | Sheriffs Dept-Essex-Salisbury | 1 | Salisbury | 5,248 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated N/A | |
| Sheriffs Departm | ent Franklin | | | - | | | | | | | |
| SDF00 | Sheriffs Franklin | 4 | Greenfield | 118,050 | SDF1401E ES1 | FA - Comp | Initiated | \$ 7,309,096 | \$ 401,123 | Large | |
| Sheriffs Departm | ent Hampden | | | - | | | | | | | |
| SDH01 | Sheriffs Hampden Chicopee | 4 | Chicopee | 60,426 | SDH1401E RX1 | FA - Rx | Implementation Started | \$ 640,516 | \$ 46,628 | Small | TBD |
| SDH02 | Sheriffs Hampden Springfield | 1 | Springfield | 13,382 | AEP1312E UT1 | Utility Vendor | Audit Complete | \$ 100,000 | \$ 13,523 | Small | |
| Sheriffs Departm | 1 1 0 | | 1 0 | - | | , , , , , , , , , , , , , , , , , , , | 1 | | | | |
| SDM00 | Sheriffs Middlesex Cambridge | 1 | Cambridge | 84,608 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated N/A | N/A |
| SDM01 | Sheriffs Dept-Middlesex-Billerica | 15 | Billerica | 368,594 | SDM1202 ES1 | FA - Comp | Audit Complete | \$ 5,837,980 | \$ 502,891 | Large | |
| Sheriffs Departm | x | | | - | | 1 | 1 | | | 0 | |
| SDN00 | Sheriffs Dept-Norfolk-Dedham | 3 | Dedham | 154,500 | SDN1501E ES1 | FA - Comp | Initiated | \$ 1,637,700 | \$ 113,155 | Large | |
| SDN01 | Sheriffs Dept-Norfolk-alt Cntr | 5 | Braintree | 15,823 | Evaluated NA | Evaluated NA | Evaluated N/A | \$ - | \$ - | Evaluated N/A | |
| Sheriffs Departm | ent Plymouth | | | - | | | | | | | |
| SDP00 | Sheriffs Dept-Plymouth-main | 8 | Plymouth | 437,553 | SDP1202 ES1 | TZNE | Implementation Started | \$ 3,868,976 | \$ 526,558 | Large | No |
| SDP01 | Sheriffs Dept-Plymouth-farm | 19 | Plymouth | 34.498 | AEP1312E UT1 | Utility Vendor | Audit Complete | \$ 68,996 | \$ 6,900 | Small | |
| Sheriffs Departm | | | ,, | - | | - they venuor | the somplete | | | | |
| | | | | | | | | | | | |
| SDS00 | Sheriffs Dept-Suffolk-House Corr | 8 | Boston | 565,642 | SDS1501E ES1 | FA - Comp | Initiated | \$ 6,787,704 | \$ 528,784 | Large | |
| SDS01 | Sheriffs Dept-Suffolk-County Jail | 1 | Boston | 342,316 | SDS1502E ES1 | New Review | Initiated | \$ 34,232 | \$ 148,639 | Large | |



| | Site Information | | | | | | AEP Certi | fication | | | |
|------------------|---------------------------------------|------|--------------|-----------|----------------|-------------|----------------|-----------------|----------------|---------------|-----------|
| Program Area | | | | | | | | | | | |
| Agency | | # | | | | Procurement | | Current Working | | AEP Certified | AEP |
| Site Code | Site Name | Bldg | Municipality | Sq Ft | Project Number | Strategy | Status | Estimate | Annual Savings | Group | Certified |
| Sheriffs Departm | ent Worcester | | | - | | | | | | | |
| SDW00 | Sheriffs Dept-Worcester-W Boylston | 1 | Boylston | 14,921 | SDW0901 ES1 | FA - Comp | Audit Complete | \$ 6,325,000 | \$ 1,171,431 | Small | |
| Grand Total | and Total | | | 3,463,646 | | | | \$ 63,313,477 | \$ 5,912,394 | | |