

Request for Information

7 March 2013

In order to complete a thorough review of Massachusetts' Energy Policies, in accordance with the statutory charter of the Energy Policy Review Commission, I am requesting the following information be made available.

DOER

- Document listing every energy efficiency and renewable energy program, including program name, description, program objectives, funding amount, funding source, metrics currently used to track performance, and most recent performance figures.

CEC

- Electronic copy of 2012 Employer Survey response database.
- Listing of all companies that received CEC funding since July 2009 and the amounts received.
- Listing of "known universe" clean energy companies.
- Response data pertaining to survey question #8 concerning categorization of reported new clean energy workers.
- Response data pertaining to survey question #13 concerning % of revenue related to clean energy.
- Response data pertaining to survey question #17 concerning \$ amount of gross revenue.
- Response data pertaining to survey question #18 concerning \$ amount of CEC funding spent directly on labor costs.
- Response data pertaining to survey question #19 concerning # of full-time and part-time jobs created as a result of CEC funding.
- Response data pertaining to survey question #20 concerning # hours worked as a result of CEC funding.
- Response data pertaining to survey questions #21 through #23.

Utility PAs

- What constitutes a participant in the Residential Whole House program in the 2013-2015 Three Year Plan? How many HEAs are planned for each year between 2013 and 2015?
A participant in the HES initiative is currently defined as a customer taking part in Home Energy Services. All participant definitions are set forth in Appendix M of the EEAC and DPU approved 2013 – 2015 Energy Efficiency Plan

<http://www.mass.gov/eea/docs/doer/energy-efficiency/statewide-electric-and-gas-three-year-plan.pdf> pg 283

- Mapping of programs from set of 2010-2012 programs to the new eight consolidated 2013-2015 programs.

Programs:

The Whole House program includes the following 2010-2012 energy efficiency programs: Residential New Construction & Major Renovations, MassSAVE, Weatherization, Multifamily Retrofit, and Behavior/Feedback.

The Residential Products program includes the following 2010-2012 energy efficiency programs: Residential Heating and Water Heating [gas], Lighting & Products and Residential HVAC (CoolSmart) [electric].

The Low-Income Whole House Program includes the following 2010-2012 energy efficiency programs: Low-Income Single Family Retrofit and Low-Income Multi-Family Retrofit programs (note that this consolidation was proposed in the 2012 Mid-Term Modifications), Low Income New Construction [electric].

The C&I Retrofit program includes the following 2010-2012 programs: C&I Direct Install and C&I Retrofit.

C&I New Construction program includes the following 2010-2012 program: C&I New Construction & Major Renovation program.

Pilots/Hard to Measure:

Residential

Energy Star Appliances – This was not a pilot in 2010-2012, but it is now incorporated into Residential Products

Deep Energy Retrofit – Incorporated into Home Energy Services core initiative of Whole House program

Behavior/Feedback Pilot – Each PA will have a Behavior/Feedback Program in 2013-2015, which is part of the Whole House program

Major Renovation Statewide Pilot – Incorporated into Home Energy Services core initiative of Whole House program

New Construction Multi-Family (4-8 story) Statewide Pilot – Incorporated into Residential New Construction core initiative of the Whole House program

New Construction Lighting Design Statewide Pilot – The PAs reviewed this pilot and determined not to continue it in 2013-2015; however, the PAs took lessons learned and have incorporated LEDs into the Residential New Construction core initiative of the Whole House program

New Construction V3 Energy Star Homes Statewide Pilot – This pilot was included in 2010 only; the PAs reviewed this pilot and determined not to continue it in 2013-2015

Heat Pump Water Heater Pilot – Incorporated into Residential Cooling & Heating Equipment initiative of the Residential Products program

Technical Development – Incorporated into the hard-to-measure initiative Residential R&D and Demonstration

Hot Roofs – This was formerly a pilot for some PAs, was not included in 2010-2012 (was an empty line item), and is now incorporated into deeper savings under Whole House/Home Energy Services enhancements

Home Automation – This was CLC only, and is no longer an offered pilot

Community Based Pilot – This is no longer considered a pilot; rather, community based initiatives are now an element of marketing, particularly of the Whole House program

C&I

New Construction and Major Renovation – Incorporated into C&I New Construction

New Construction and Major Renovation – Government – This was an empty line item in 2010-2012 and was not used

Community Based Pilot- This generally was not used in 2010-2012 and was not included in 2013-2015; the PAs will be supporting community initiatives in statewide marketing, and will continue to seek community based opportunities, possibly within the C&I Retrofit program

- 08-50 Tables with detailed breakout of PA budgets, savings, and participant costs for MassSave HES program.
 - Number of Home Energy Assessments completed each quarter for the last five yearsFor each quarter, please provide the following breakdown:
 - Number of HEAs resulting in installation of ISMs, and total lifetime savings associated with these measures.

This information is not reported, however, savings information can be found in the HES impact evaluation of 2012: http://www.ma-eeac.org/docs/2011%20to%202012%20EMV/Residential/MA%20RRLI%20-%20HES%202011%20Impact%20Evaluation%20Report_FINAL_04SEPT2012.pdf

http://www.ma-eeac.org/Docs/8.1_EMV%20Page/2012/2012%20Residential%20Studies/MA%20ORR&LI%20-%202011%20HES%20Net-to-Gross%20Impact%20Evaluation_28June2012%20FINAL.pdf

- Number of HEAs that recommended air sealing, number of air sealing installations completed, average reduction in CFM50 per home, average program cost, and total lifetime savings associated with these measures.

This information is not reported, however, program costs are available in the TRC table in the 08-50 tables and savings information can be found in the study cited above. [Link to 08-50 tables 2010-2012](#)

- Number of HEAs that recommended insulation, number of insulation installations completed, total square footage installed, average project and program cost, and total lifetime savings associated with these measures.

This information is not reported, however, program costs are available in the TRC table in the 08-50 tables and savings information can be found in the study cited above. [Link to 08-50 tables 2010-2012](#)

- Number of HEAs resulting in installation of new HVAC equipment, and total lifetime savings associated with these measures.

This information is not reported, however, savings information can be found in the technical reference manual for each year: <http://www.ma-eeac.org/DPU%20Archive.htm> <http://www.ma-eeac.org/TRMs.html> and all evaluation studies can be found on the EM&V tab of the MA EEAC website at <http://www.ma-eeac.org/2011-2012%20EM&V.htm>, <http://www.ma-eeac.org/EMV.html> specifically:

Home Energy Services Impact Evaluation, The Cadmus Group, August, 2012; http://www.ma-eeac.org/docs/2011%20to%202012%20EMV/Residential/MA%20ORRI%20-%20HES%202011%20Impact%20Evaluation%20Report_FINAL_04SEPT2012.pdf
http://www.ma-eeac.org/Docs/8.1_EMV%20Page/2012/2012%20Residential%20Studies/MA%20ORR&LI%20-%202011%20HES%20Net-to-Gross%20Impact%20Evaluation_28June2012%20FINAL.pdf

State of Massachusetts, Industry Practices and Policies on Energy Efficient Program Rebates/Incentives, TetraTech, January 25, 2011; <http://www.maeac.org/docs/2011%20EM&V%20Studies/MA%20Rebates%20Incentives%20Study%20Final%20MASTER%20012511.pdf>

http://www.ma-eeac.org/Docs/8.1_EMV%20Page/2011/2011%20General%20Studies%20&%20Presentations/MA%20Rebates%20Incentives%20Study%20Final%20MASTER%20012511.pdf

Massachusetts 2010 Residential Retrofit and Low Income Evaluation: Mass Save, The Cadmus Group, July 6, 2011; http://www.ma-eeac.org/docs/2011%20EM&V%20Studies/MA%20RRLI%20%202010%20Evaluation%20Report%20-%20Mass%20Save_FINAL_06July2011.pdf

http://www.ma-eeac.org/Docs/8.1_EMV%20Page/2011/2011%20Residential%20Studies/MA%20ORRLI%20-%202010%20HEA%20NTG%20Report_FINAL_05JUL2011.pdf

- Assumptions, calculations, and or models used to determine cost-effectiveness of each air sealing and insulation measure.
 - **Please refer to the Technical Reference Manual, . <http://www.ma-eeac.org/DPU%20Archive.htm> http://www.ma-eeac.org/Docs/8.3_TRMs/1MATRM_2013-15%20PLAN_FINAL.pdf as filed in Appendix N within the EEAC and DPU approved 2013 – 2015 Energy Efficiency Plan; please also refer to the BCR Screening Models filed as Exhibit-5 by each Program Administrator in D.P.U. 12-100 through 12-111 <http://www.mass.gov/eea/docs/doer/energy-efficiency/statewide-electric-and-gas-three-year-plan.pdf> <http://www.ma-eeac.org/Cost%20Benefit%20Models%20Exhibit%2005%202013-2015%20Plan%20.html>**
- Detailed description of non-resource benefits associated with approved measures that factor into cost-effectiveness tests.

Please see attached file AG Comments 1-14

- Detailed description of methodology used to determine and adjust contractor pricing for MassSave HES residential weatherization program, including assumptions about crew sizes, labor rates, productivity rates, material costs, overhead costs, and profit.

The PAs sought to establish pricing that balanced and ensured the interests of consumers, the program, and contractors. The PAs believed this would be best achieved through establishing consistent and competitive pricing for consumers, supportable and fair pricing for contractors; and pricing that maintains program integrity, cost-effectiveness, and delivery. An integral component of establishing pricing was based on contractor meetings and feedback. In addition, cost of materials, fuel, and labor were considerations and taken into account in developing the pricing model. Pricing history was also a critical component and consideration in establishing

the pricing structure. The PAs conducted an extensive internal and external pricing review as a means to establish and support pricing. Examples of this include:

- Weatherization and Home Performance contractor meetings and feedback
 - A comprehensive review of the current vendor pricing that incorporated historical pricing adjustments
 - Review/consideration of recent and projected manufacturers price increases (e.g., insulation materials)
 - Comparison of similar program price lists (e.g. Low-Income weatherization)
 - Comparing and contrasting other PA pricing
 - Internal Management discussions and cost-effectiveness/budget impact analyses
 - Participation on and communication with Residential Steering Committee, Residential Management Committee
 - Open communication with key-stakeholders
- For additional information, please refer to the following publicly available information: [http://www.ma-eeac.org/docs/4.10.12/Home%20Energy%20Services%20Update_FINAL\(2\).pdf](http://www.ma-eeac.org/docs/4.10.12/Home%20Energy%20Services%20Update_FINAL(2).pdf).
 - [http://www.ma-eeac.org/Docs/3.1_Council%20Meeting%20Minutes/2012%20Minutes/4.10.12/Home%20Energy%20Services%20Update_FINAL\(2\).pdf](http://www.ma-eeac.org/Docs/3.1_Council%20Meeting%20Minutes/2012%20Minutes/4.10.12/Home%20Energy%20Services%20Update_FINAL(2).pdf)
- Rationale for implementing fixed pricing for residential weatherization contractors but not for commercial weatherization or residential HVAC contractors.

The fixed pricing was determined by the Residential Steering Committee, a group made up of stakeholders, EEAC representatives and program administrators.

Lead Vendors

- List of MassSave participating weatherization contractors each year for the years 2008 through 2012, along with the number of years that each has participated in the program.
Please refer to: <http://www.masssave.com/quick-tools>, and click “Expand to view all contractor lists” under “Find a Contractor”
- Number of contractor requests for reimbursement of Building Permit fees, by month going back to inception of this reimbursement.

This information is not reported

- Annual revenue tied to Massachusetts energy efficiency programs, each of the last five years.

This information is not reported.

- Number and type of Massachusetts employees supporting Massachusetts energy efficiency programs.

According to the 2012 Massachusetts Clean Energy Industry Report, energy efficiency has been adding jobs to the Commonwealth at a 10% growth rate since 2011. To quantify the job creation impacts of its energy efficiency programs, the Program Administrators engaged the New England Clean Energy Foundation (“NECEF”) to update NECEF’s analysis of workforce requirements and impacts associated with Program Administrator energy efficiency programs. The resulting report entitled “An Estimate of Direct Full-Time Equivalent (FTE) Employment in 2011 Supported by Mass Save Energy Efficiency Programs” is included at Appendix P, Study 16, of the 2013-2015 Energy Efficiency Plan, which was approved by both the EEAC and the DPU.

- Data concerning outcome of quality control inspections, including number of jobs inspected, % failures, and summary of failure types.

This information is not reported.

- Summary of results of customer satisfaction surveys.

This information is not reported.

- Analysis indicating average time between initial customer contact, home energy assessment conducted, home improvement contract executed, and major measures installed.

This information is not reported.