

MEMORANDUM

TO: C. Elizabeth Gibson, Town Manager
FROM: George Aronson, CRMC, Sr. Advisor; Nantucket Energy Office
Lauren Sinatra, Energy Coordinator; Nantucket Energy Office
RE: Energy Office Accomplishments in FY2013
DATE: 19 March 2013

Below is a list of Energy Office accomplishments for FY 2013 for your reference, with estimates of the value to the Town.

Mass Save audit program (current estimates to be confirmed by data from National Grid and ESG)

- Arranged to complete 170 audits in two designated *Energy Assessment Weeks*: November 5-11, 2012 and March 11-15, 2013.
- Secured “instant savings measures” materials and products (light bulbs, weather stripping, etc.) for residents at no cost that are valued at over \$50,000
- Provided residents with incentives from National Grid to implement energy efficiency measures (air-sealing, insulation, etc.) valued at over \$400,000
- Generating work for local contractors on an ongoing basis (HVAC, Electricians, Plumbers).
- Helped prove the need for Mass Save to hire two part-time Nantucket-based Energy Specialists to perform Home Energy Assessments on a consistent and timely basis.

Town energy purchase transactions

- Managed procurement of electricity supply from a third-party after rejecting offer to renew past contract on a sole-source basis. Savings estimated at \$70,000 in calendar year 2013 compared to the contract renewal that the Town would otherwise have accepted.
- Registered and sold Renewable Energy Certificates (RECs) from the High School wind turbine to generate cash receipts of \$13,192 to date (including retroactive sales from FY2012 that would otherwise have been lost). Acquired renewal contract for FY2014 with value of at least \$11,000 (depending on actual generation from the wind turbine) and zero risk for low production.
- Procured arrangement for demand response at the Surfside WWTF with potential to generate \$10,000 per year in cash receipts.

Town municipal electricity purchases

- Identified basic information on Town electric meters, consumption and costs
- Ranked top 20 municipal electric users and developed cost-reduction strategies for each.
- At no cost, secured from Mass DOER over 600 LEDs for over a dozen municipal buildings, valued at nearly \$18,000 with potential savings valued conservatively at \$18,000 per year (see attachment).

- Worked with National Grid to complete free audits at the DPW compound, airport and senior center. Secured incentives worth \$55,000 to implement efficiency measures. Secured zero-interest financing through National Grid invoice system with net savings of 10,000 per year and overall payback of less than two years.
- Working with National Grid on energy efficiency audits, assessments and studies at the Surfside WWTF, Siasconset WWTF, the High School, the Elementary School, Town administration offices and Nantucket Ice.

Other accomplishments

- Secured free “SEE the Light” Energy Toolkit (valued at \$1000), through DOER/National Grid pilot program to assist the Town/Airport to engage employees to reduce energy waste.
- Working with local material suppliers to stock energy-efficiency materials
- Providing community education. Distributing brochures and literature; maintaining website; giving public presentations; giving monthly radio interviews on WACK.FM
- Sponsored and advised a WPI student research project: “Evaluation of the Awareness & Effectiveness of the Mass Save program on Nantucket”
- Supported preparation of “Carbon Neutral Program” proposal for the Airport in response to DOT RFP.
- Supported installation electric vehicle charging stations
- Supported efforts to evaluate feasibility of tidal energy recovery