

Sustainable Jersey

SHOW ME THE MONEY:

**Learn How to Finance Your Building
Upgrades Through Energy Savings**

June 24, 2015



Agenda for this Webinar

- **Overview of Energy actions** in the Sustainable Jersey municipal program & schools programs, with special attention on how ESIPs fit in
- **In-Depth presentation on ESIPS** – specific details on ESIPs and how an ESIP could benefit your school district, municipality, or county
- **Questions and Answers**



Current Municipal Program Energy Actions

Recently introduced or updated actions (1Q15).

Actions introduced in 3Q14.

Energy Impact
Of Municipal
Operations

Municipal Impact
On Community
Energy Use

Climate, Planning & Efficiency

- Municipal Carbon Footprint
- Energy Tracking & Management
- Complete Energy Audit
- Energy Transition Plan
- Implement EE Measures
- Hi Performance Buildings

- Community Carbon Footprint
- Climate Action Plan
- HPwES Program
- HPwES Outreach
- Direct Install Program
- Direct Install Outreach

Renewable Energy & Adv-Infra

- On-Site Solar Energy
- On-Site Geothermal
- On-Site Wind Energy

- Wind Ordinance
- Renewable GEA Program

Alternative Vehicles

- Fleet Actions
- Procurement Actions

- Make Your Town EV Friendly
- Public EV Chargers



1Q15 Summary: New/Changed Actions

4 newly redesigned Energy Efficiency actions:

- Energy Tracking & Management
 - Complete an Energy Audit
 - Implement Efficiency Measures
 - Sustainable Energy Transition Plan
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- New design accounts for more efficient sequencing of the various actions and helps with process issues
 - Recognizes the variability between municipalities
 - New multi-point structure: varies by impact and degree of difficulty



1Q15 NEW Action: Sustainable Energy Transition Plan

- **Concept:** Complete prioritization, financial, and business planning to identify those measures (from those identified in the audit) that will be implemented, and gain formal approval for those projects. Appropriate for larger projects/towns, especially those who would benefit from an Energy Savings Improvement Plan Program (ESIP).

- **Points:** Two tier structure depending on plan completeness:
 - ✓ 10 Points: Develop a SETP that implements at least 30% of the efficiency upgrades recommended in the audit.
 - ✓ Additional 10 points: for a plan that also addresses conservation, energy procurement (especially RE), and energy resiliency.
 - ✓ Develop a SETP that implements at least 70% of the efficiency upgrades recommended in the audit, and includes factors beyond building efficiency (conservation, procurement, renewables, and resiliency).



Advantage of ESIPs Approach: Synergy

syn·er·gy - [sin-er-jee]

(noun, plural syn·er·gies)

1. *The interaction of elements that when combined produce a total effect that is greater than the sum of the individual elements, contributions, etc.; synergism.*



Advantage of ESIPs Approach: Synergy

- Effective Insulation
- High Performance Windows
- Tighter Construction
- Tighter Heat and Air Ducts
- Energy Efficient Heating and Cooling
- Efficient Water Use and Water Heating
- Energy Efficient Appliances
- Cleaner, Healthier Facility

Individually, these approaches all have merit.

Together, the benefits are multiplicative and not simply a sum of their parts



The Winning ESIP Equation

- A. New Financing Mechanism that leverages future savings to offset future costs UPFRONT, leading to viable projects in a tight economy
- B. Energy Conservation Measures (ECMs) that complement each other, and from an engineering standpoint are greater than the sum of their parts
- C. Support of diversified menu of NJ Clean Energy Program options to tailor ESIP to your particular situation

A + B + C = Benefits? **NO!!!**

Rather, A x B x C = Benefits



Economic & Environmental Impacts

- Reduced costs over the long term
- Due to the diversified nature of the improvements, ESIPs can offer real resiliency benefits if carefully planned
- Offer ability to address issues that would be overlooked in a straight “payback period” economic analysis for individual ECMs
- Provide a framework for supporting behavioral changes in your facilities that can further potential energy and cost savings



Follow Up Questions

If you have any questions, feel free to reach out to:

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