Lessons from the Field: EDF Climate Corps Fellow Document Municipal and Schools Progress in Sustainable Jersey

August 11, 2015
Presenters

Gary Fournier, Energy Director
Sustainability Institute
At TCNJ/Sustainable Jersey

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EDF Fellow

Anne-Marie Peracchio, Director, Conservation and Affordability,
New Jersey Natural Gas

Erin McNichol, EDF Fellow
Howell School District (17)
Howell Township (26)

Chris Lavallee
EDF Fellow
Tom’s River Twp (4)
Brick School District (12)
Manchester Twp (6)

Mine Hill School District (1)
Boonton Twp (3)
Boonton School District (1)
This unique opportunity helps the host Communities and School Districts & Schools bridge the gap between available resources and energy-efficiency initiatives.

**Municipalities**
- 437 (78%) NJ municipalities participating
- 88% of NJ’s population lives in these communities
- 193 municipalities certified:
  - 160 towns at bronze level
  - 33 towns at silver level

**Schools**
- 59 Certified
  - 204 Districts
  - 501 Schools
Overview of Today’s Webinar

• Sustainable Jersey Programs
• New Jersey Natural Gas
• Goals of the EDF Fellowship
• Highlights from the Field
• Lessons Learned
• Questions & Answers
• Upcoming Events
SAFE, RELIABLE NATURAL GAS AT OUR CORE ... AND SO MUCH MORE

Sustainable Jersey EDF Climate Corp Webinar

Anne-Marie Peracchio
Director Conservation & Clean Energy
The SAVEGREEN Project®

• Launched in September 2009

• Energy-efficiency rebates and incentives
  – Help our customers save money
  – Support state policy
  – Benefit the environment

• Designed to complement New Jersey’s Clean Energy Program™ (NJCEP)
NJNG Connections to Sustainable Jersey

• Financial Support
  – Platinum Sponsor for Municipal Program
  – Founding Sponsor for Schools Program

• Technical Support
  – Participate on Task Forces

• Resources for SJ Green Teams
  – Supplemental incentives for your own facilities
  – Work together on outreach to residents and businesses

• Partner on Programs
  – PowerSave School Program
  – Environmental Defense Fund Climate Corp
Commercial Incentives

• Potential for 0% financing for your projects
  • Balance on NJCEP Direct Install Projects
  • Some NJCEP Smart Start equipment
  • Repaid through NJNG bill

• Features available for businesses too
  – Reach out if you are working on SJ Direct Install Action

• Request assistance at in-person meetings

• Call with any questions or to learn more
  – Jerry Ryan (732) 378-4920/ jryan@njng.com
Residential Incentives

- Share info to make upgrades more accessible
  - Supplemental rebates for high efficiency HVAC equipment
  - Access to 0% financing
    - For Home Performance with ENERGYSTAR® (HPwES) and some HVAC projects
  - Online resources to help residents understand their energy usage
- Many ways we can help
  - Pursuing the SJ HPwES action or green challenges
  - Participation in events
  - Content for website and newsletters
  - Special limited time programs (e.g. Video and Poster Contest)
- Learn more today
  - Contact Raquel Phillips at (732) 378-4928/ rphillips@njng.com
Goals of the EDF Fellowship

• Start and Complete SJ Energy Actions

• Identify energy efficiency opportunities

• Provide feedback and recommendations on SJ program from the field
Priorities of the EDF Fellowship

1. Benchmark energy consumption
2. Recommendation roadmap for SJ points
3. Conduct energy audit through NJCEP
4. Identify building efficiency measures
5. Complete documentation for SJ actions
Highlights from the Field-2016
Morris County

Energy Benchmarking and Energy Tracking and Management Systems.

Carbon Footprint Calculations for Canfield Avenue and Rockaway Valley Schools, and Boonton Township.

Home Performance with Energy Star (HPwES) action for Boonton Township.
Recommended Building Efficiency Measures

**Canfield Avenue School:**

1. Installation of 5 kW Wind System (Vertical Axis Wind Turbine).
2. Installation of 31 remote mounted occupancy sensors.

Potential Energy Savings: 23,505 kWh (4% of Energy Consumption).

**Rockaway Valley School:**

1. Lighting Upgrades from fluorescent to LEDs.
2. Installation of 36 remote mounted occupancy sensors.
3. Upgrade of 8 Exit signs to LEDs.

Potential Energy Savings: 269,051 kWh (64% of Energy Consumption).
Howell Township

• Bronze to Silver

• LGEA

• Energy Savings Improvement Program

• Estimated savings:
  • $3.2 million - 34% 
  • 14.6 million kWh
  • 11,971 Metric Tons CO$_2$
Howell School District

● Green Team

● Power Save Schools

● Energy Savings Improvement Program

● Estimated savings:
  ○ $12.1 million - 27-30%
  ○ 54.3 million kWh
  ○ 53,968 Metric Tons CO₂
Ocean County

- LGEAs for Tom’s River and Manchester Townships
- Green Teams for Brick School District and individual schools
- PowerSave Schools grants for two Brick schools
- Guide for SJ Points in Energy
Creation of an Energy Guide

1. Energy Audit (10-20 pts)
2. Energy Tracking and Management (10-20 pts) + Fleet Inventory (10 pts) = Carbon Footprint (10 pts)
3. Sustainable Energy Transition Plan (10-20 pts) + Implement Building Efficiency Measures (5-30 pts)
4. Install or Buy Renewable Energy (Solar, Geothermal, Energy Purchasing)
5. High Performance Building/Portfolio (10-20 pts)

Highlights from the Field
Lessons Learned
Lessons Learned

- Finding out the key players
- Forming a green team
- Sustainable professional development for staff
- Encourage energy tracking going forward
- Mapping out programs
- Communicating success stories
Questions and Answers
Applying for the Sustainable Jersey Solar Challenge
Informal Q&A Webinar

August 16, 2017: 1:00-2:00 PM
REGISTER

Join us for an informal Q&A style webinar to answer your questions about participating in the Sustainable Jersey Solar Challenge. We’ll go over the application process and help you understand how your local Solar Challenge team can deliver a successful campaign. We will answer questions about the customizable marketing materials that local Solar Challenge teams can use in their community outreach and help with questions about the customer experience of online shopping for a solar system, including financing options, solar technology, and the benefits of solar for your community. Speakers will include Sustainable Jersey staff and representatives from EnergySage.
2016 Sustainable Jersey Small Grants for Energy Projects funded by Gardinier

August 31, 2016: 1:00-2:00 PM
REGISTER

This webinar will offer a short overview of grant eligibility and submission requirements. It will also provide a preview of the online application form, and answer participants’ questions regarding this new source of funding.

Consistent with the Gardinier Environmental Fund's mission, these grants will fund energy projects focused on conservation, efficiency, and renewable energy including building efficiency upgrades, alternative vehicle fueling and charging stations, energy education and outreach, energy resiliency, solar energy installations, studies and engineering, and innovative energy initiatives. They are open to both municipalities and schools.
WEBINAR FOR SCHOOLS AND DISTRICTS ONLY:

Fall 2016 Small Grants Application
for Registered Schools and Districts, funded by NJEA

September 14, 2016: 3:00-4:00 PM

REGISTER

School districts and schools registered with Sustainable Jersey for Schools are eligible to apply for ten $10,000 and forty $2,000 grants to support implementation of projects that help gain points needed for Sustainable Jersey for Schools certification and make progress toward a sustainable future. These grants are funded by NJEA. Webinar participants will walk through the essentials of the online Sustainable Jersey for Schools Small Grant application process. Applications are due October 30th.
• VISIT US AT THE AT THE NJ SCHOOL BOARDS ASSOCIATION “WORKSHOP 2016” (October 25-27, 2016) and the NJEA CONVENTION (November 10-11, 2016). We will be exhibiting and speaking at both.

• VISIT US AT THE NEW JERSEY LEAGUE OF MUNICIPALITIES CONFERENCE – November 15-17, 2016. The Sustainable Jersey Awards Luncheon is on November 15, 2016. Sustainable Jersey has 9 sessions at the NJLM Conference. For more information, click here:

• CHECK THE SUSTAINABLE JERSEY CALENDAR and THE SUSTAINABLE JERSEY FOR SCHOOLS CALENDAR ON OUR WEBSITES FOR FURTHER DETAILS AND MORE INFORMATION ON UPCOMING EVENTS or to REGISTER FOR EVENTS! Learn about regional hub events, co-sponsored events, and events where Sustainable Jersey is speaking, as well as events of interest to municipal green teams. You can also follow us on Facebook.
Questions and Answers
Contacts

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Sustainable Jersey & Sustainable Jersey for Schools

Thank You!