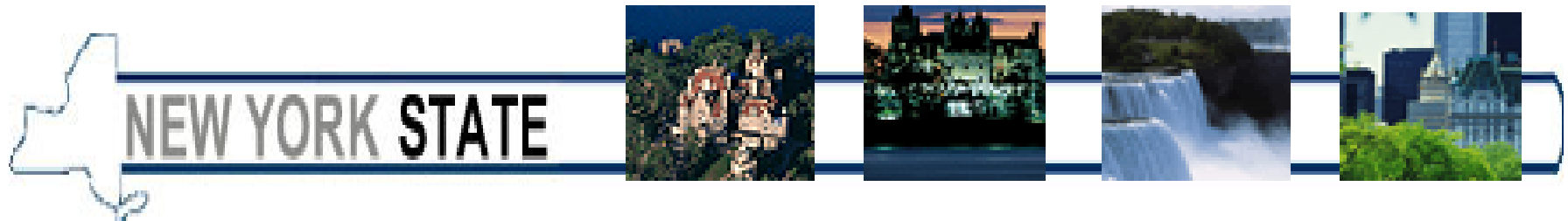


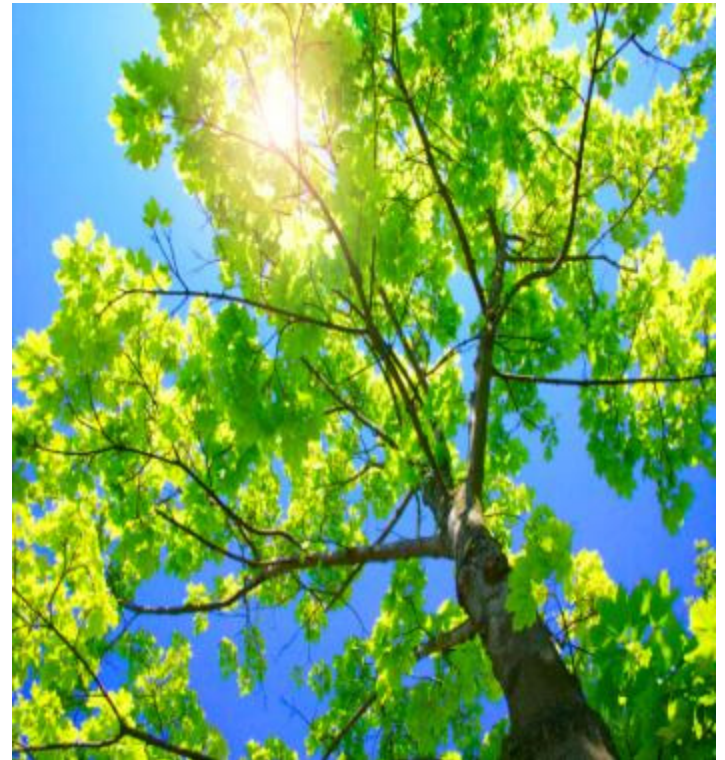
Agricultural Renewable Energy Forum

Wednesday, December 3, 2008



What is NYSERDA?

- New York State Energy Research and Development Authority
- Public benefit corporation
- Established by the New York State Legislature in 1975
- NYSERDA is tasked to address the State's energy & environmental challenges



NYSERDA

Mission

Use innovation and technology to solve some of New York's most difficult energy and environmental problems in ways that improve the State's economy.

Programs for Agriculture

- Energy Audits through FlexTech/Technical Assistance
- Existing Facilities Program
- New Construction
- Loan Fund
- Renewable Energy
- Local Food Production Systems



Energy Audits

Identifies energy efficiency opportunities

- Typical Energy-Saving Areas:
 - Lighting
 - VSDs on Motors and pumps
 - Milk cooling and storage
 - Ventilation
- FlexTech Program - Uses a pre-qualified NYSERDA contractor
- Technical Assistance PON - Consultant of your choice



Existing Facilities Program Pre-Qualified Incentives

- Applicants can receive incentives for pre-qualified energy-efficiency measures.
- Pre-qualified Incentives are available for:
 - Lighting
 - HVAC
 - Chillers
 - Motors
 - Refrigeration
 - Interval Meters
 - Variable Frequency Drives (VFDs)
 - Commercial Kitchen Equipment and Washers





New Construction Program

Provides incentives on efficient energy-consuming equipment

- Has to be new construction or substantial renovation
- Application and approval needed prior to installation



Loan Fund

- Use a participating lender (~70 across the state)
- Buys down the interest rate by up to 4%
- Up to 10 year term
- Up to \$1,000,000 loan





NYSERDA

New York State Energy Research and Development Authority

www.nyseda.org

Renewable Technologies

Solar

Wind

www.powernaturally.org

Photovoltaic (PV) Incentives

- First come/first serve
- About 50% of installed cost
- Must be installed by an eligible installer
- Grid connected
- www.PowerNaturally.org





An Off-Grid Example

(not eligible for NYSERDA incentive)



- Solar water pumping
- You have a remote field
- You don't want to fill or maintain a diesel generator



NYSERDA End-Use Wind Program

- Easy application process
- First come-first served
- Funding for 15 – 70% of system cost
- Must be grid-connected
- Must be installed by eligible installer
- www.PowerNaturally.org



Apple Pond Farm

Wind Sites



Harvest Home Organics



Weimann Farm

PON 1236: Energy Productivity in Innovative Local Food Production Systems



- Support innovative local food production systems
- Expand production of fresh local produce sustainably through energy management and resource conservation
- Develop information resources to expand awareness and use of these food production systems

Anaerobic Digester Gas to Electricity Program

- Supports the installation and operation of anaerobic digester gas (ADG) to electricity systems
 - Incentives offered to qualifying facilities through a subscription application program
 - Capacity incentive rate is \$500 / kW
 - Production incentive rate is \$0.10 / kWh
 - Production incentives annually for 3 years



www.nyserda.org

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