



NYSERDA

MPP Version 7 Preview

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AGENDA

- Introduction – REV and CEF
- Multifamily Performance Program V7.0
Tracks and Incentives

Reforming the Energy Vision (REV)

Governor Cuomo's strategy to build a clean, resilient and affordable energy system for all New Yorkers.

Clean Energy Fund (CEF)

- 10-year, \$5 billion State funding commitment that supports REV
- Reshapes New York's energy efficiency, clean energy and energy innovation programs
- Reduced cost of clean energy
- Accelerates adoption of energy efficiency to reduce load
- Increases renewable energy to meet demand
- Mobilizes private investment in clean energy

OVERVIEW

Multifamily Performance Program V7

- **Targeted Option:** allows building owners to install individual upgrades to their buildings
- **Comprehensive Option:** provides incentives to support owners of low-to-moderate income housing to reduce their energy use by 25% or more. Must use a Multifamily Building Solutions Network Provider.
- Supports **Existing Buildings** only with 5 or more units

Targeted Option

*Focused support for
flexibility*

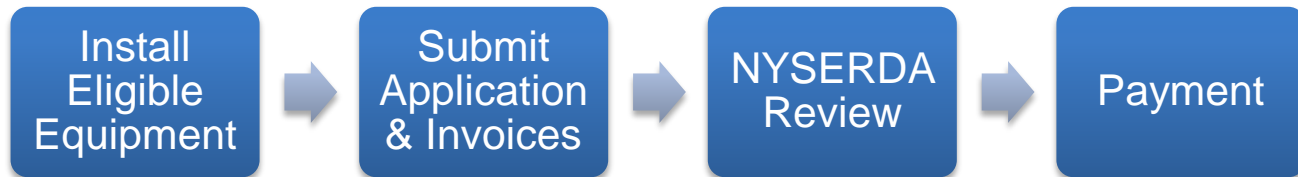
TARGETED OPTION OVERVIEW

- Incentives provided on a per-kWh and per-MMBtu
- Incentives based on incremental savings
- Savings based on the *NYS Tech Manual* embedded in a new “Savings and Incentives Calculator.”
- Buildings need not use an approved Provider to participate.

Affordable	
\$ per MMBTU	\$ per kWh
\$5.00	\$0.05
Market Rate	
\$ per MMBTU	\$ per kWh
\$3.00	\$0.03

\$150/unit (affordable)
\$100/unit (market rate)
per year maximum

Targeted Option Process



Eligible Upgrades are...

...not offered by a utility in their territory.

...included in the Program's Savings and Incentive Calculator; custom calculations outside the calculator are not allowed.



Savings and Incentive Calculator

Welcome



Welcome to NYSERDA's Multifamily Performance Program Targeted Option Savings and Incentive Calculator for Existing Buildings, Version 7.0. This tool is provided to assist with development of a project workscope for multifamily buildings under NYSERDA's MPP Targeted Option. Below is a list and description of the worksheets contained within this tool.

Application Info

Enter customer/owner contact information, general information about the project site and contact information for project managers and implementers. A checklist is provided for verification of minimum submittal requirements.

Measure Selection

Identify all measures included in the project workscope. Measure savings and incentive values are only provided for measures selected on this tab.

Measure Tabs (e.g. Air Source Heat Pump, Boiler Reset Control, etc.)

Enter details of installed equipment and removed/existing systems. Only measures selected on the Measure Selection tab need to be addressed, although all measure tabs will be visible.

Project Summary

Enter measure costs based on invoices. Provides measure level savings, incentive and financial performance metrics. Rows containing non-implemented measures must be hidden manually.

Release Date: 02/2016

NYSERDA - New York State Energy Research & Development Authority



Application Information

Instructions

- 1) Enter relevant information into all light blue cells.
- 2) In the "Project Implementation Team Information" section, identify all firms providing services associated with this project.
- 3) Please ensure all items listed in the "Required Submittals Checklist" are provided with the project's application.

Customer/Owner Application & Contact Information

First Name	John
Last Name	Smith
Tax ID/SSN	123-45-6789
Phone #	(123) 456-7890
Street #	10
Street Name	Main St.
Unit	123
City	Poughkeepsie
State	NY
Zip Code	12601

Required Submittals Checklist

Completed Targeted Option Savings & Incentive Calculator	<input checked="" type="checkbox"/>
Project Invoices (≤60 Days Prior to Application)	<input checked="" type="checkbox"/>
Signed DRAFTs for Common Area Accounts	<input checked="" type="checkbox"/>
Signed Terms & Conditions	<input checked="" type="checkbox"/>
Documentation of Affordable Housing Status (if applicable)	<input checked="" type="checkbox"/>

Project/Facility Information

Project Name	Sample Project
Project Street #	10
Project Street Name	Main St.
Project City	Poughkeepsie
Project State	NY
Project Zip Code	12601
Project County	Dutchess
Housing Income Classification	Market Rate
Total Facility Square Footage	36,000
# Units in Project	25
# of Stories	3
# of Occupants	25
Year Built	1970
Heating Fuel/Type	Natural Gas
Electric Cooling?	Yes
Water Heating Fuel	Natural Gas
Electric Utility	Central Hudson

Measure Category	Measure Name
APPLIANCE	ENERGY STAR Clothes Washers
	ENERGY STAR Dishwashers
	ENERGY STAR Refrigerators
BUILDING SHELL	AC Cover
	Air Leakage Sealing
	Insulation - Roof
	Insulation - Wall
	Pipe Insulation - DHW
	Pipe Insulation - Heating
COOLING	Window Replacement
	A/C & Heat Pump - Refrigerant Charge Correction
	Air Conditioner - Unitary
	Air Conditioner - Central
	Air Conditioner - Room
	Chiller - Air & Water Cooled
DOMESTIC HOT WATER	Chiller - Cooling Tower
	Economizer - Air Side w/ Dual Enthalpy Control
	DHW Tank Blanket
	Low Flow Faucet Aerators
	Low Flow Showerheads
	Thermostatic Shower Restriction Valve
HEATING	Water Heater - Heat Pump
	Water Heater - Indirect
	Water Heater - Instantaneous
	Water Heater - Storage
	Boiler
	Boiler Reset Control
HVAC CONTROL	Burner Replacement
	Duct Sealing & Insulation
	Furnace
	Furnace Tune Up
	Heat Pump - Air Source (ASHP)
	Heat Pump - Packaged Terminal (PTHP)
MOTORS & DRIVES	Submetering
	Thermostat - Programmable Setback
	Electronically Commutated (EC) Motors
	NEMA Premium Motors
	Variable Frequency Drive (VFD) Motors

Condensing Boiler

Measure Description

Replacement of existing boilers with high-efficiency condensing boilers. **This measure does not cover fuel-switching/conversions.**

Minimum Performance Requirements

Installed high-efficiency condensing boilers must have the following minimum boiler efficiency, depending on the boiler size:

<u>Size Range</u>	<u>Required Minimum Efficiency</u>
<300 kBtu/hr	90% AFUE
≥300 ≤2,500 kBtu/hr	90% Et or 93% Ec
>2,500 kBtu/hr	93% Ec

Documentation Requirements:

- Invoices clearly indicating quantities, costs, equipment model number(s) and delivery date(s)
- Cut sheets for the selected equipment, verifying that equipment meets minimum performance requirements

Instructions

- 1) Enter measure-related information in the light blue cells in the table below.
- 2) Multiple rows are provided to allow for input of different system configurations and/or installed locations.
- 3) Inputs will be unavailable if this measure was not identified as part of the scope on the Measure Selection tab.

Included in Scope?	Yes
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add warning for minimum proposed efficiency based on input capacity

Installed Equipment Details					Estimated Annual Energy Savings		
Location	Quantity of Boilers	Heating Input Capacity (kBtu/h perUnit)	Heating Efficiency (% AFUE, Et or Ec)	Replaced System Type	Annual kWh Savings	Peak kW Savings	Annual Fuel MMBtu Savings
x	1	300	93.0%	Hot Water Boiler	0	0.00	32.0

Comprehensive Option

A whole-building approach

COMPREHENSIVE OPTION OVERVIEW

- Similar to MPP Version 6 but with streamlined processing and review
- Requires use of Multifamily Building Solutions Network Provider
- Only available to Affordable Buildings
- Updated rules based on the Clean Energy Fund ruling

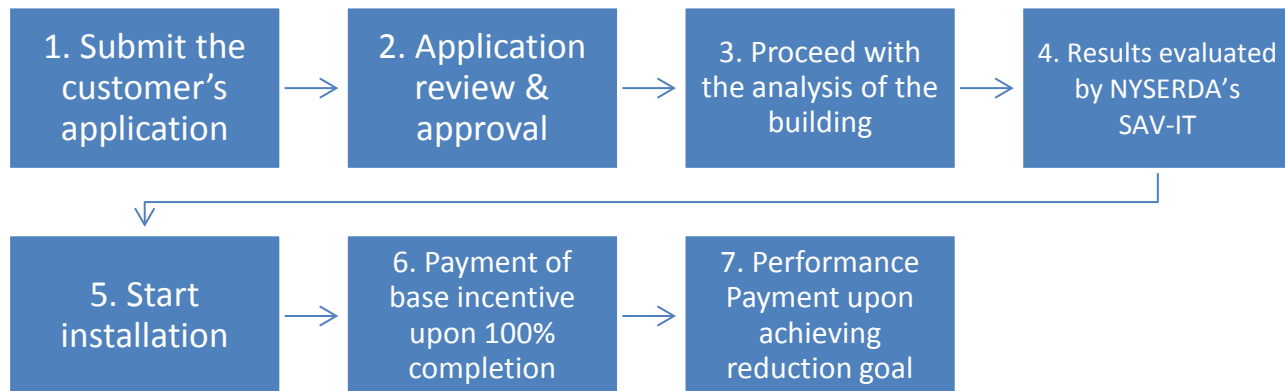
Comprehensive Option Incentives

Projected Energy Savings Target	Base Incentive* (per unit)	Performance Payment	Total Incentive
25% - 30%	\$150	+\$75/unit	\$225
31% - 35%	\$300	+\$175/unit	\$475
36% +	\$500	+\$325/unit	\$825

*Base incentive is typically paid out at 100% construction completion. Projects that use a construction manager to oversee the project, however, may qualify for a payment of ½ of the base incentive at 50% completion.

Comprehensive Option Process

NYSERDA
Baselining
Service



Fuel Switching Incentives

- Targeted – switching a boiler or burner to a more efficient system
- Comprehensive – fuel switching included in a greater scope of work (minimum 25% whole building baseline savings)

Website & Contact

Program Website:

www.nyserda.ny.gov/multifamily

Program Email:

MultifamilyPrograms@nyserda.ny.gov