

Submitting a Custom Project to CT Energy Efficiency Programs

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Presentation

- Program Rules
 - What can and cannot be considered
- Determining the appropriate baseline for savings and costs
- What needs to be submitted for review

Program Rules

- Anything that saves either electricity or natural gas can be considered
- Exceptions
 - Electric generation
 - Fuel switching
 - Typical maintenance

Utilities Responsibility

- Measure is allowed by the program rules
 - Regulated
- Point out any concerns
 - Code, comfort, reliability
- Reasonableness of savings estimates
- Reasonableness of cost estimates
- Provide information to third party evaluators

Determining Baseline

- **Savings and incentive are based the difference between two points**
 1. **Baseline (Low efficiency option)**
 - What customer would typically do without program influence (Code or Standard Practice)
 - Typically lower first cost option
 2. **Proposed Option (Higher efficiency)**
 - Typically higher first cost option

Measure Classification

- **Why? Incentive structure based on it**
- Lost opportunity measure
 - Baseline is different than existing conditions
 - Baseline has a cost
 - Major equipment typically falls into this category
 - It is not cost efficient to replace major equipment for energy savings
- Retrofit
 - Baseline is existing
 - Baseline has no cost
 - Installation Cost can be justified by the savings

Measure Information

- Measure description
 - Complete written description of baseline system
 - Complete written description of proposed system
- Costs
 - Itemized cost estimate of baseline system
 - Itemized cost estimate of proposed system
- Savings Estimate
 - Energy savings calculations with all assumptions listed and clear
 - Transparent methodology (unlocked spreadsheets)

Information cont.

- Controls systems
 - List of proposed strategies
 - Points list (Input/Output, Analog/Digital)
- VFDs
 - Control strategy (baseline and proposed)
- Chillers
 - IPLV and four part load points at AHRI conditions
- Other HVAC equipment
 - Certified ratings (For units types not certified ratings can be submitted by manufacturer at appropriate conditions)

Note: for many common measures we have data collection forms

Savings Estimate

- Savings estimate
- Calculate lost opportunity first
 - Unlocked spreadsheets
 - Computer models
 - Run lost opportunity first
 - Baseline input and output
 - Proposed input with changes identified and output
 - End use breakout for both Baseline and proposed

One more rule

- The customer needs to sign and submit an application with required information and proposal.
 - After our review is complete they will receive letter of approval for project quantifying the incentive level.
- A pre-inspection will likely be required during the process
 - So submit early enough for review

Questions

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Thank You

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