

# C&I Energy Efficiency Program Guidelines

## Early Replacement Projects

The following is the minimum information required for energy conservation measures (ECM's) related to early replacement of equipment. These requirements are additional to the minimum requirements stated for project applications in the C&I Program Manual.

### To qualify for Early Replacement incentives:

1. The existing equipment cannot exceed its Effective Useful Life (EUL) and should have at least 25% of the EUL remaining. For EUL, see Appendix P of the most up to date Technical Resource Manual (TRM).
2. The existing equipment must be fully functioning. This can be confirmed during Con Edison pre-inspection while equipment is operating. Con Edison reserves the right to request additional documentation to verify equipment functionality, such as service logs, BMS trend data, etc.
3. The existing equipment must have efficiencies lower than current code values to be eligible for early replacement.

### Required Project Documentation

- A. A detailed scope of work that references all relevant equipment in the proposed measure and a cost proposal.
- B. Sequence of operation for the existing system AND sequence of operations for the proposed system.
- C. Cooling/heating capacity of the existing equipment and its efficiency rating if applicable
  - a. Supported by manufacturer's equipment data sheets or industry standard performance testing results for existing equipment
  - b. If unavailable, vintage versions of ASHRAE Standard 90.1 or NYS Energy Code will be used based on the equipment's installation year.
- D. Cooling/heating capacity of the new energy efficient equipment and its efficiency rating if applicable
  - a. Supported by manufacturer's equipment data sheets, design drawings, or AHRI certificate for new equipment
- E. Age of the existing equipment
  - a. Original invoice, bill of sale, construction permit, service log, design drawings with date, or nameplate date.

### All Non TRM Measures Require the Following Additional Information

- F. An engineering analysis of estimated energy consumption of the existing equipment, estimated energy consumption of the code compliant equipment and the new proposed energy efficient equipment.
- G. Each engineering analysis must include both annual electric consumption (in kWh) and summer peak kW load for electric projects, or the annual gas usage (in Therms) for gas projects.
- H. Each analysis must be provided in a datasheet format such as Excel with savings calculations and algorithms. Calculations in PDF files and hardcoded calculations are not acceptable. Sources for values and calculation methodologies must be provided.