

# C&I Energy Efficiency Program Guidelines

## Extended Life Custom Projects

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

### To qualify for Extended Life incentives:

1. The existing equipment must exceed its Effective Useful Life (EUL) by at least 25%. For EUL, see Appendix P of the most up to date Technical Resource Manual (TRM).
2. The existing equipment has undergone significant repair.
3. The existing equipment must be fully functioning. This can be confirmed during ConEd pre-inspection. Con Edison reserves the right to request additional documentation to verify equipment functionality, such as service logs, BMS trend data, etc.
4. The existing equipment must have efficiencies lower than current code values to be eligible for extended life.

### 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 operations for the proposed system AND sequence of operations for the existing system.
- C. Cooling/heating capacity of the existing equipment and its efficiency rating if applicable.
  - a. Supported by manufacturer's equipment data sheets, design drawings, 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 proposed equipment and its efficiency rating if applicable.
  - a. Supported by manufacturer's equipment data sheets, design drawings, or AHRI certificate for new equipment.
- E. Cooling/heating capacity of the code compliant equipment and its efficiency rating if applicable.
  - a. Supported by manufacturer's equipment data sheets, design drawings, or AHRI certificate for new equipment.
- F. Cost proposal of the code compliant equipment.
- G. Age of the existing equipment
  - a. Supported by original invoice, bill of sale, construction permit, service log, design drawings with date or nameplate date.
- H. Actual repair cost, including component replacement for at least the past 2 years
  - a. Supported by invoices or proof of payment
  - b. Total repair cost must be added and summarized in a document
  - c. Note: maintenance records are not considered significant repairs.

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

- A. 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.
- B. 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.
- C. 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.