

ARC-Lite Field Test Contractors Requirements

BPA' Public Utilities will fully fund up to 30 Advanced Rooftop-Unit Control (ARC) –Lite Retrofits in order to verify electrical savings. Participating owners will be reimbursed the full cost after installation.

Eligible Rooftop units must:

- serve commercial spaces that are gyms, restaurants, dry-good retail stores (not grocery stores) or offices,
- operate continuously during occupied hours,
- have a minimum of 5 tons of direct-expansion, mechanical cooling,
- have gas or electric heating,
- have an operational economizer, and
- are scheduled to operate a minimum of 3,000 hours of per year.

ARC –Lite Retrofit Requirements: Licensed contractors shall install each ARC –Lite Retrofit per manufacturer specifications and all applicable codes and safety regulations. The retrofit shall provide multi-speed supply fan control to preset levels based on the operating mode to provide between 500 and 750 kWh per ton of savings. The contractor shall also install a measurement and verification system that provides one year of data, at one minute sampling intervals, on the following points: fan status, cooling status, heating status, fan speed, fan power and fan fault status. Metered data must be accessible during the one-year monitoring period following installation, and the meter shall be returned to BPA after the one-year period. Acceptable meters: 38 Zeros, or equal. Contact mkvowles@bpa.gov for technical questions.

Prior to March 6, 2015, provide the following to the serving electric utility:

1. For each building, the contractor's quotes shall separately identify equipment, labor, one year of metering and data subscription costs, and any other applicable costs, and
2. [RTU detail sheets](#) shall be provided for each of the proposed ARC –Lite Retrofit.

Installations shall be complete by 9/15/2015

After installation provide the following to the serving electric utility:

1. A copy of the installation invoice, and
2. a copy of the M&V data, with access information.

