

# RETRO-COMMISSIONING

As your building ages and its occupants change, it is important to review your building's control strategies and operating procedures. Over time, malfunctioning and outdated control logic can cause a building's Energy Management System (EMS - providing centralized control of your HVAC) to use more energy and prevent it from operating at peak performance. Retro-Commissioning allows you to identify energy savings in existing commercial and industrial buildings by improving the EMS operation.

## What is Retro-Commissioning (RCx)?

RCx is a systematic process to improve how equipment and systems function together in an existing building. RCx can often resolve problems that occurred during building start up or address problems that have evolved throughout the building's life. RCx ultimately enhances control strategies to improve building energy performance.

RCx is also a very cost-effective way to improve energy efficiency and reduce energy costs. Since it focuses primarily on optimizing existing equipment through low-cost improvements, customers find it more cost-effective than installing new equipment.



## Start saving energy and money using your existing capital equipment

A complete RCx process includes:

- A screening activity to identify eligible buildings on your property
- A utility-funded facility and EMS survey that seeks out potential energy savings by identifying:
  - » Operations and maintenance (O&M) and control strategy opportunities with your facility's EMS
  - » Potential equipment retrofit or replacement opportunities
- A detailed investigation effort including diagnostic monitoring funded up to 50% by the utilities
- A RCx investigation report that identifies O&M strategies for achieving energy efficiency and demand management opportunities
- Implementation of selected RCx improvements
  - » Attractive incentives provided based on energy savings implemented
  - » Refund of your investigation study co-pay if you implement at least 50% of measures
- Training and O&M manual provided to staff to ensure the improvements continue to sustain energy savings year after year

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### Getting Started

Contact your utility energy efficiency representatives who will collaborate with you and determine if your facility is pre-qualified to participate in the Retro-Commissioning program. Once qualified, your representatives will guide you through the Energize Connecticut RCx process.

### Eligibility for the RCx Program

Eversource and UI customers on a commercial or industrial rate can participate in electric energy-efficient programs. CNG, SCG or Eversource Gas customers on a firm commercial or industrial rate can participate in natural gas energy-saving programs.

### Buildings must be:

- Pre-screened and submit an application
- Over 100,000 square feet
- Have building energy management system with trending capability
- Have a current ENERGY STAR® benchmark

### Many types of businesses can benefit:

- Manufacturing
- Retail stores
- Municipal offices
- Commercial buildings
- Office buildings
- Schools

### Next steps you can take.....

Contact your Energy Efficiency Representative or

### Important Deliverables from the Energize Connecticut RCx Program

After the project is completed and training of facility staff is conducted, the measures are verified and you will receive your incentive payment based on the savings from the implemented measures. Examples of typical RCx energy efficiency opportunities include:

- Optimizing fresh air economizer operations
- AHU supply fan static pressure
- Reheat and variable air volume control sequences
- Reset of hot water, chilled water, and Condenser water temperatures
- Variable frequency drives for pumps and fans
- Energy management system operation sequence - confirmation to meet current scheduling requirements



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