



Retro-commissioning

THE MOST COST-EFFECTIVE OPTION FOR ENERGY EFFICIENCY



■ Design, Installation, Retrofit, and Replacement

■ Maintenance

■ Operations and Control

The average payback period of a retro-commissioning project is less than 2 years!

Your car needs a regular tune-up to run optimally, so should your building. The energy consuming systems in a building, such as HVAC and lighting, may not be programmed to match the way the facility is being used. This can result in wasted energy. Not only has your equipment aged since installation, but the needs of the building may have changed. Retro-commissioning seeks to match the way the energy systems run to the needs of your facility.

Retro-commissioning (RCx) is the adjustment of existing equipment and controls to improve the use, comfort, and energy consumption of a building. A retro-commissioning study will consider how your building is currently operating versus how it should be operating to save you energy and money. Retro-commissioning will address and resolve problems that may have occurred in the design and construction phase as well as issues that have arisen over time due to HVAC and lighting systems drifting out of calibration.

A successful retro-commissioning study will look at your building automation system to uncover inaccuracies in the way your facility runs. For example, you could have a system that is simultaneously heating and cooling, lights powering on when no one is in the building, thermostats that are not set properly, economizers that aren't working efficiently, or variable speed drives that are running at an unnecessarily high level.

BENEFITS

A building retro-commissioning report will provide recommendations that are little to no cost to implement but with significant cost savings. Benefits include reduced operating costs, reduced energy use, better working environment, less complaints, and an increase in property value. Not to mention, the payback period for these upgrades is typically measured in months, not years.

Aside from cost savings, retro-commissioning can improve air quality, minimize hot or cold spots, increase occupant comfort, extend equipment life, decrease the amount of service calls needed, and help you comply with energy-efficiency standards. Retro-commissioning can give you peace of mind, knowing that your building is operating as it should.

CONTACT US AND START SAVING!

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FREQUENTLY ASKED QUESTIONS

How is retro-commissioning different from an energy audit?

Energy assessments are a great way to uncover capital improvement opportunities such as upgrading your light fixtures to LEDs or replacing your current roof top units with more efficient models. Compared to energy audits, retro-commissioning focuses more on operational and maintenance improvements, often requiring less capital investment to achieve significant savings.

What makes a good retro-commissioning project?

Although anyone can benefit from a retro-commissioning project, it helps if your building is equipped with a building automation system. This way our engineers can easily suggest control strategies that will help your building run more efficiently.

What does retro-commissioning entail?

Retro-commissioning is a collaborative process between the building stakeholders and the retro-commissioning provider. Our team of engineers will assess systems and maintenance programs to provide recommendations for how to update mechanical, electrical, and control systems for optimal efficiency.

- The RCx team analyzes the building automation system and may employ stand-alone loggers, or handheld instruments to diagnose system malfunctions such as failed sensors, actuators and valves
- The RCx team may also identify failed equipment, equipment in need of cleaning, adjusting, or replacement as well as scheduling opportunities
- After the assessment, the RCx service provider will quantify the energy and cost savings of each report measure to present for your review, approval, and implementation. You decide what to implement and who will conduct any repair or maintenance work.

FOR MORE INFORMATION

Start saving today! To learn more about retro-commissioning and to schedule your own building study, contact us at info@360eg.com or 312-265-3971.