

# CXE Group Services

## BUILDING COMMISSIONING

- New Construction
- Renovation/Equipment Upgrade
- Building Envelope
- LEED Fundamental & Enhanced
- Existing & Retrocommissioning

## ENERGY SAVINGS ANALYSIS

- Energy Audits
- Energy Modeling
- Control System Optimization

## CONSULTING & SUPPORT

- Daylighting Analysis
- Utility & State Incentive Programs
- Design & CM for RCx & Energy Savings Efforts
- LEED Compliance Documentation



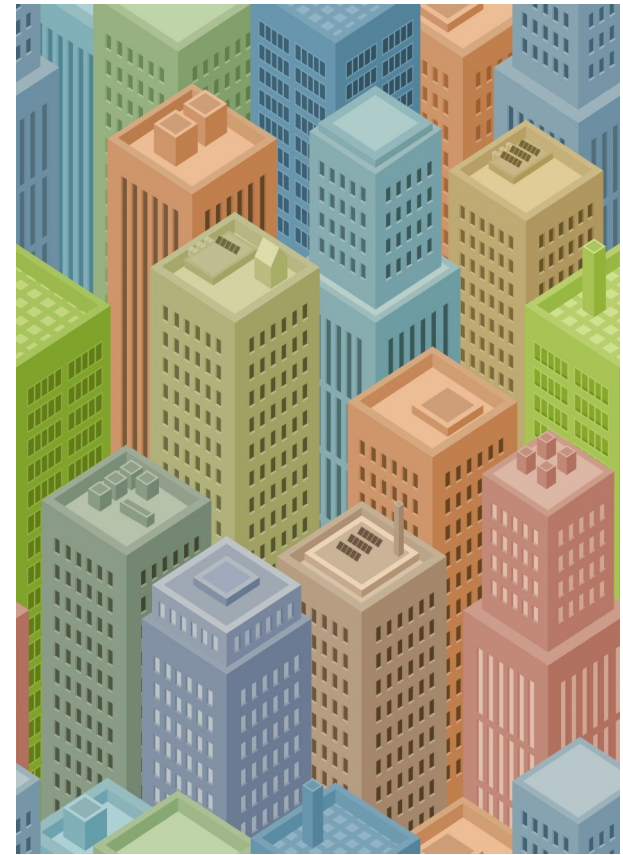
# About CXE Group LLC

CxE Group LLC has been a leader in the Saint Louis Metro Area for 20 years in building commissioning and energy efficiency.

- Certified WBE (woman-owned business enterprise) by the State of Missouri and NWBOC
- Licensed Professional Engineering Firm in Missouri & Illinois
- Prequalified with Illinois Capital Development Board
- Retrocommissioning Service Provider (RSP) & Design Assistance Expert with Illinois Smart Energy Design Assistance Center (SEDAC)
- Retrocommissioning Service Provider & Trade Ally for Ameren ActOnEnergy Programs in MO & IL
- Member of the U.S. Green Building Council
- Member of the Building Commissioning Association



The key to protecting your **BOTTOM LINE.**



Unlocking your building's **POTENTIAL.**

**CXE Group LLC**  
CONSULTING ENGINEERS



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Your Building Optimization Experts

# CxE Group as *YOUR BUILDING OPTIMIZATION EXPERTS*

## WHAT IS COMMISSIONING (Cx)?

The commissioning process helps to ensure that building systems are designed, installed, and operating as intended. There are many levels of commissioning, from the simple start-up procedures that most contractors perform at the end of the project, to a more intensive formal process conducted by an independent commissioning authority that carries through the entire design and construction process.

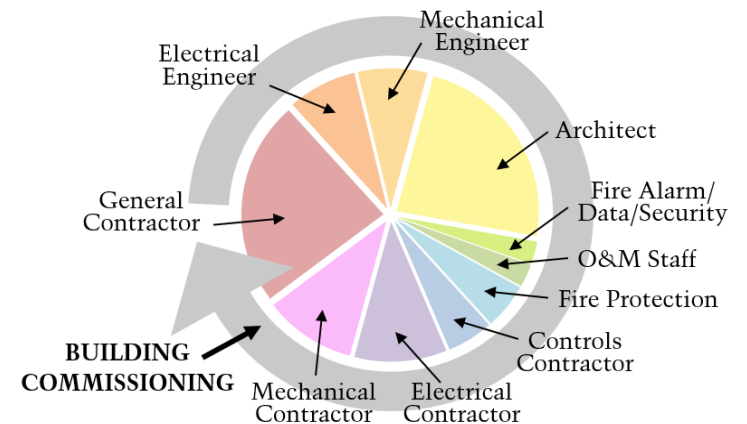
Like many in the Cx field, CxE began providing services as a way to document and verify operation of energy using systems—mechanical, electrical, and plumbing systems. As owner needs have changed, we include other aspects in our Cx services, such as fire alarm, security, and building envelope.

## CxE USES COMMISSIONING TO CLOSE THE GAP

As building systems become more complex and system integration becomes necessary for life-safety and proper indoor environmental quality, commissioning is crucial to the success of a building project. CxE Group focuses on the building as a whole and facilitates project coordination and communication to “close the gap” that may arise among the responsibilities of the members of the project team.

## WHY SHOULD CxE BE YOUR COMMISSIONING AUTHORITY (CxA)?

It is typically recommended that the CxA be an independent, third-party expert who works directly for the owner. As a specialist in this field with many years of design and operations experience, CxE is able to avoid potential conflicts of interest with other A/E firms, offer valuable insight and a fresh perspective, and serve as a non-biased technical professional with extensive training and experience in design, construction, and operations.



## WHAT IS RETROCOMMISSIONING?

Retrocommissioning (RCx), the Cx process applied to existing buildings, seeks to improve how building equipment and systems function together. Many buildings have not undergone a Cx effort, facility requirements change, and operational efficiencies tend to degrade, which lead to buildings performing well below their potential, using more energy than necessary, and costing more to operate. CxE has the experience and tools to improve building performance, solve comfort and operational problems, and reduce operating costs.

## WHAT ARE ENERGY AUDITS & ENERGY MODELING?

Energy audits are another method to determine the efficiency of a building & its systems. CxE collects and reviews the overall building system design, current building usage, and energy consumption data to identify recommendations for energy efficiency improvements (some at little to no cost) with payback analysis to identify the most cost-effective means to save money and energy.

Energy modeling is a powerful tool developed to determine the energy use of a building and quantify the savings of the proposed design. This can assist the design team in prioritizing investment in the strategies that will have the great impact on energy efficiency. CxE uses this software on various projects, including Cx, RCx, and energy audits, as a means to evaluate operating expenses and capital cost expenditures.

