



# COMMISSIONING

## Better Buildings for a Better World

EntegriTY is a sustainability and energy services company specializing in the implementation of energy conservation and renewable energy projects. We are uniquely qualified to deliver innovative and sustainable solutions to optimize building performance.

### COMMISSIONING SERVICES

As the built environment is increasingly complex and energy efficiency is at a higher standard, building equipment and systems are responding to these changes. Owning and operating this equipment requires a significant financial investment, and poor performance can result in money lost, excessive repair and replacement costs. These advances have increased the importance of proper planning, design and operational performance and practices to achieve the efficiency potential of today's systems.

This quality assurance-based process can provide preventative and predictive maintenance plans, tailored operating manuals and training procedures, formalized review and integration of all project expectations during planning, design, construction, and occupancy phases by design reviews, submittal reviews, inspection and functional performance testing, and oversight of operator training and record documentation.

At EntegriTY, and across the building industry, Commissioning (Cx) is now an essential response to this need. Cx is the preferred method for ensuring that building systems are designed, installed, programmed and operated to provide maximum performance per the owner's needs.

### ENTEGRITY'S COMMISSIONING EXPERIENCE

500+

Buildings  
Commissioned

20M+

Square Feet  
Commissioned

70+

Credentials

### QUICK FACTS

42

We've completed projects in 42 states and the Cayman Islands.

100

We have 100 employees in locations throughout the U.S.

8

We're headquartered in Little Rock, AR and have eight offices located across the country.

# COMMISSIONING SERVICES

## Benefits of Commissioning

Cx provides tangible and quantifiable benefits to building owners, its occupants, construction teams, and society at large. These benefits include, first and foremost, direct and measurable energy savings, which translate to economic savings. Indirect outcomes such as prevention of indoor-air-quality problems, premature equipment failure, and litigation are also realized.

## Costs of Commissioning

The cost of Cx varies widely as the scope of services, system complexity, and square footage affect the cost. Collaborative compiled data from the industry, outlined below, shows that Cx may be the single most cost-effective strategy for reducing energy, costs, and greenhouse-gas emissions in buildings today.

	Existing Building	New Construction
Median Building Energy Savings	19%	15%
Median Simple Payback Time	2.2 years	4.2 years
Median Cx Costs	\$0.26/SF	\$0.82/SF

## ENTEGRITY'S COMMISSIONING SERVICES

### New Building Commissioning

For new projects, incorporating Cx results in reduced energy use, lower operating costs, reduced contractor callbacks, better building documentation, improved occupant productivity, and verification that the systems perform in accordance with the owner's project requirements.

Entegrity provides independent New Building Cx services tailored to meet the Client's goals and budget. From "Value Engineering" Cx intended to demonstrate a minimum standard of care for Cx where significant project benefits still remain, to Cx services to meet the thorough requirements of LEED v4, Entegrity has a solution to meet any new project's Cx needs.

### Re-Commissioning

After being commissioned, building performance generally declines after two to five years. Re-Cx is a service that can be used to return a building to its peak performance.

Entegrity's Cx Team has a deep understanding of why performance wanes and how design and operations decisions affect building operation efficiencies.

# COMMISSIONING SERVICES

## Existing Building Commissioning/ Retro-Commissioning

Commercial buildings frequently undergo operational and occupancy changes that challenge the mechanical, electrical and control systems, hindering optimal performance. In today's complex buildings, systems are highly interactive, with sophisticated controls that can create a trickle-down effect on building operations such that small problems have big effects on performance. All buildings can experience performance degradation over time.



Entegriety's Retro-Cx process optimizes system operation and control in existing buildings that were not previously commissioned. Retro-Cx has the greatest promise for substantially reducing energy consumption with Entegriety's experience resulting in paybacks from 0.2 to 2.1 years.

## Ongoing Commissioning

Monitoring key technologies is essential to maintaining optimum system performance yet is typically beyond the owner's capacity. Operational staff can input utility information, but engineering knowledge is required to calculate performance.

Entegriety's Ongoing Cx solutions maintain long-term savings through the continued monitoring of energy savings with follow-up Cx, as needed. The results include improved system reliability and building comfort through optimization of system operation and control schedules based on actual building conditions.

## Building Enclosure Commissioning

Building Enclosure Cx is intended to assure building quality by establishing an explicit process to assure building quality and performance, manage risk and reduce costly changes and delays.

Entegriety's Building Enclosure industry qualified staff are well-versed in exterior façade design, building and material science, assembly construction, and performance test standards and methodology. This level of experience enables Entegriety to provide advice and guidance to the entire building team, thereby helping to improve the quality and performance of the building enclosure.

# COMPANY INFORMATION

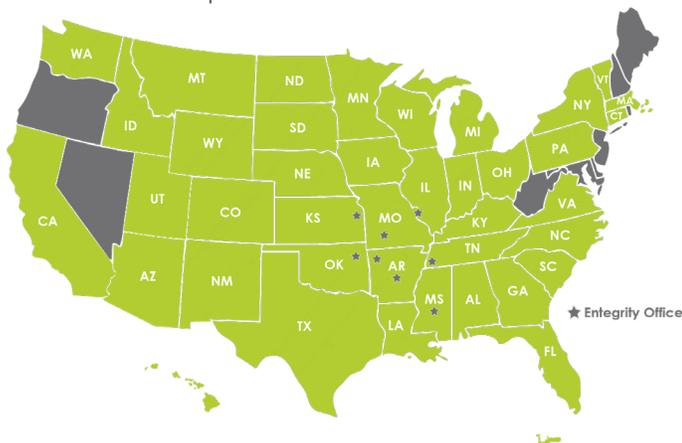
## ABOUT US

Entegrity is an independent building consulting firm specializing in sustainability, commissioning, energy services, solar and building testing.

Established in 2007 as a response to the growing demand for independent building commissioning services and sustainable building practices, Entegrity is a leader in sustainable design. We provide innovative solutions to develop and maintain high-performance, energy-efficient facilities that reduce environmental impact and realize significant upfront and lifecycle cost savings. Because we don't provide architectural or mechanical design services or represent any products or manufacturers, we're uniquely positioned to represent our clients in an independent and unbiased manner.

## PARTNERSHIPS & AFFILIATIONS

We encourage our team to be well-versed and actively engaged in our industry. We're a proud member of the U.S. Green Building Council; American Society of Heating, Refrigeration, and Air Conditioning Engineers; Association of Energy Engineers; AABC Commissioning Group; Air Barrier Association of America; American Institute of Architects; Building Owners and Managers Association International; and we're an ENERGY STAR® partner.



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