

ESA

Commissioning Services

ESA provides Commissioning (Cx) and Re-commissioning (Re-Cx) services for HVAC, BAS, electrical, security, and mechanical systems.

Commissioning is a systematic, documented process of ensuring that specific building systems perform interactively according to the design intent and the owner's operational needs.



Services Offered:

- ◆ Fundamental LEED® Commissioning
- ◆ Enhanced LEED® Commissioning
- ◆ Re-Commissioning and Retro-Commissioning for existing facilities
- ◆ Performance testing: proper installation, function, and programming

ESA's LEED® Commissioning services can provide an extra LEED® point to your project!

Benefits:

Commissioning assists in the delivery of a high performance facility by ensuring proper installation and function of building systems, creating a safe and healthful environment, optimizing energy use, reducing operational costs, and providing training to staff on the proper operation and maintenance of the facility.

In addition, commissioning benefits both owners and occupants through improved workplace performance in higher quality environments, reduced absenteeism, and improved employee retention.

Re-commissioning and Retro-commissioning can be beneficial to existing facilities in similar ways. Buildings are frequently subjected to operational changes and varying occupants and their original performance is often compromised. Re-Cx or Retro-Cx services will identify and correct issues to ensure a facility is operating at peak performance and efficiency.

Energy Service Associates, Inc.

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“For existing buildings, we found median commissioning costs of \$0.27/ft², whole-building energy savings of 15 percent, and payback times of 0.7 years. For new construction, median commissioning costs were \$1.00/ft² (0.6 percent of total construction costs), yielding a median payback time of 4.8 years (excluding quantified non-energy impacts).”

—<http://eetd.lbl.gov/Emills/PUBS/PDF/Cx-Costs-Benefits.pdf>



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ESA has performed a large variety of Cx, Re-Cx, and Retro-Cx projects. The following is a brief summary of several recent projects:



Falcon School District 49

ESA was Falcon's Cx Agent for over \$100 million of new construction, addition, and renovation projects including:

- ◆ 175,000 SF High School built to LEED Silver standards
- ◆ 160,000 SF High School built to LEED Silver standards
- ◆ 50,000 SF Elementary School
- ◆ Additions to 4 existing schools
- ◆ Athletics Fieldhouse
- ◆ Football field grandstands, concessions, and lighting

ESA has also recommissioned all of Falcon's existing facilities as part of the Falcon Energy Team.

Eagle County

ESA is the Cx Agent for the Eagle County Justice Center Expansion and Remodel Project. Eagle County builds to the "Eco-build Commercial" requirements; a local building code similar to the USGBC's LEED® Rating System.

The Walnut

ESA was the LEED Cx Agent for "The Walnut"; a 34-unit multi-residential complex achieving LEED Silver Certification. ESA performed Fundamental Cx and Enhanced Cx on the project as well as administrating the LEED certification process.

Boulder County

ESA was on the Re-Cx Team for a County-wide Re-Cx project that covered 13 facilities. The project included trending and data-logging all equipment, the implementation of cost effective energy conservation measures, and establishing new sequences of operation and control strategies.

Harrison School District Two

ESA was Harrison's Cx Agent for recent Bond construction projects including:

- ◆ Fox Meadow Middle School
- ◆ Mountain Vista K-8 School
- ◆ Gorman Administration Center

ESA also managed and commissioned a District-wide Controls and Security system retrofit project over 18 facilities.

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