

EBCx Services

Has over 40 years of experience making buildings operate comfortably, safely and energy efficiently.

Our business started as a family owned mechanical contractor in Miami, FL, founded by Cal Gordon in 1958.

Scott Gordon, Cal's son started working in the business in 1973, and moved to Johnson City, TN in 2001. With over four decades of experience in the mechanical contracting, controls, engineering and energy services industries, Scott established EBCx Services in 2016.

The history behind EBCx Services provides decades of hands-on experience helping to make the built environment operate comfortably, safely and energy efficiently. We roll up our sleeves and do what it takes to make buildings work.

Services

- Energy Audits / Assessments
- Existing Building Commissioning (EBCx, RCx)
- New Building Commissioning
- Performance Verification
- Control System Retuning
- Trouble Shooting / Diagnostics
- Building Enclosure Testing
- Indoor Air Quality (IAQ) Investigations
- Thermal Infrared Imaging / Analysis
- Testing, Adjusting & Balancing (TAB) of HVAC Systems
- Training

Credentials

- Certified Energy Manager (CEM)
- Certified Measurement & Verification Professional (CMVP)
- Certified Demand Side Manager (CDSM)
- NEBB Certified Professional
- Class A Certified Air Conditioning Contractor Florida (CAC021304)
- Certified Indoor Air Quality Professional (CIAQP)
- Certificate Member (CM) with RSES
- LEED AP O+M

Associations

- NEBB
- ASHRAE
- Association of Energy Engineers (AEE)
- Refrigeration Service Engineers Society (RSES)

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EBCx Services
Optimizing Buildings since 1981

**Making Schools
Work...Comfortably, Safely
and Energy Efficiently**



**Improving the physical
learning environment
and reducing energy
costs in schools**

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The physical learning environment plays an increasingly important role in overall student success. High performing schools offer the integrated technology and specific spaces that contribute to increased educational outcomes.

These facilities are also impacted by environmental considerations such as lighting, indoor air quality, temperature, humidity and noise levels.

All of these considerations can contribute to the outcome of student success.

Essential for school environments:

- Provide comfortable rooms for student and teacher satisfaction
- Reduce toxins and particles to provide excellent Indoor Air Quality (IAQ)
- Provide proper temperature and humidity levels throughout the school
- Maintain special areas such as cafeteria, kitchen, auditoriums, computer labs at correct temperature and humidity levels
- Provide student safety with proper ventilation, exhaust and carbon monoxide monitoring
- Provide proper lighting levels and lighting quality conducive to the learning environment

While school districts are expecting more from their facilities, budgets for operating and maintaining the facilities continue to remain relatively flat. EBCx Services identify energy savings and facility performance improvement opportunities to create a more energy efficient school.

EBCx Services focuses on low cost measures that generate significant energy cost savings. We also identify capital improvement projects when equipment and systems are discovered to be operating beyond their useful service life.

Technical Professional Services

EBCx Services offers a complete array of technical professional services to address energy efficiency and indoor environmental goals on both new and existing schools. We closely follow advancements in building technology and take a holistic, lifecycle view of energy consuming systems. Our technical professional services include:

- Existing Building Commissioning (EBCx)
- Commissioning (Cx) new buildings
- Energy Audits
- Building Envelope Leakage Testing
- Indoor Air Quality (IAQ) Investigations
- Testing, Adjusting and Balancing (TAB)

Existing Building Commissioning (EBCx)

EBCx, also known as retro-commissioning (RCx) identifies no-cost and low-cost opportunities to reduce energy while improving the physical learning environment.

An important step in the EBCx process is to perform an ASHRAE Level 1 or 2 Energy Audit. EBCx addresses the following important elements in schools:

- Improves comfort (temperature/humidity)
- Enhances Indoor Air Quality (IAQ)
- Improves Indoor Environmental Quality (IEQ) lighting/acoustics
- Reduces energy costs
- Extends equipment life
- Reduces repair costs

Measurement & Verification (M&V)

When an energy project is performed, either in a single school or entire school district, it is critical that an M&V Plan is in place to validate that energy savings are achieved and maintained over time.

EBCx Services has various cost-effective approaches to M&V, ranging from monthly or quarterly review of utility data, to remote analysis of the Building Automation System (BAS).

