Our engineers work to optimize your buildings’ performance and energy efficiency using existing systems and equipment. We focus on all systems and equipment that use energy and affect energy consumption; this includes everything from HVAC equipment to building automation systems to building envelopes to lighting.

Existing Building Commissioning

This comprehensive and systematic process improves the operations of your building systems to ensure they meet occupant needs while minimizing energy use. Existing Building Commissioning provides healthy, comfortable, and productive work environments by bringing ventilation and indoor air quality up to standards, solving persistent problems with building operation, and training operations and maintenance staff to improve building performance.

Energy Efficiency Services

Energy Efficient Operations

After a building has been commissioned, CEE’s Energy Efficient Operations can maintain efficient HVAC operations for the long term. This program provides building operators with a customized step-by-step manual to check how their equipment is operating. The manual also provides instructions to diagnose any issues that may arise. In addition, CEE engineers follow up with building operators throughout the year to answer questions and help troubleshoot. This service gives operators the tools they need to identify problems before they amount to huge energy waste.

Performance Monitoring

CEE’s Performance Monitoring combines interval data from utility meters and trend data from building automation systems to see how equipment operation directly affects energy use. Our engineers analyze this powerful information and develop strategies to reduce peak demand and energy consumption.

Performance Certification

CEE has experience with ENERGY STAR’S® Portfolio Manager, which is an online tool that tracks energy use, water consumption, and greenhouse gas emissions. Our engineers gather the necessary information to determine the ENERGY STAR score for your building. If the building qualifies, with a minimum score of 75 or greater, CEE can help submit the building to achieve ENERGY STAR certification. If the building doesn’t qualify, CEE engineers can offer recommendations.

FOR MORE INFORMATION CONTACT:

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Traditional Audits

Level I- Walk-Through Analysis
Involves a brief walk-through aimed at gathering building characteristics including equipment type/condition. Efforts also include review of sample utility billing data resulting in an estimated energy index and breakdown. A report is generated indicating any low/no-cost energy conservation opportunities while also providing a list of additional capital measures worthy of further consideration.

Level II- Energy Survey and Analysis
This effort builds upon Level I and includes a more detailed building survey and energy analysis. Tasks include savings and cost analysis for all measures that meet the owner’s constraints and economic criteria. Changes to operations and maintenance procedures are included where applicable. Capital-intensive measures requiring additional engineering analysis and data collection are noted along with estimates for potential savings and costs.

Level III- Detailed Analysis of Capital Intensive Modifications
This effort builds upon prior levels and includes a more rigorous engineering analysis required for capital-intensive opportunities. Robust data collection is required in order to provide high confidence cost and savings figures.

Center for Energy and Environment
The Center for Energy and Environment (CEE) is a nonprofit organization that promotes energy efficiency to strengthen the economy while improving the environment. CEE conducts research and develops programs so that:

- Businesses operate more efficiently and profitably;
- Government agencies and nonprofits spend less on facilities and functions;
- Utilities achieve their energy-efficiency goals at least-cost; and
- Households save money and improve comfort.