



The **Ohio Center for Industrial Energy Efficiency (OCIEE)** is a collaboration between the Ohio Office of Energy and major utilities in the state. OCIEE's mission is to provide best practices training and technology demonstration for Ohio's energy intensive companies. The overall goal is to make Ohio manufacturers competitive in domestic and world markets.

Training & Outreach

Training workshops focus on improving efficiency and waste reduction in energy intensive systems such as:

- Compressed Air Systems
- Data Centers
- Process Heating & Cooling
- Pumping
- Chilled Water
- Combined Heat & Power
- Steam
- Networked Lighting

These sessions are led by instructors with extensive practical background experience. Information on upcoming classes can be found at www.ohiociee.org/workshops.

OCIEE also provides outreach for energy efficiency project financing and state funded energy audits at the Ohio Energy Management Conference held each year in Columbus, Ohio. Case studies are presented to highlight results of Ohio's Energy Efficiency Programs.

Promoting Best Practices

M	Measure
A	Analyze
S	Select
T	Track
E	Evaluate
R	Report

OCIEE program activities enable best practices necessary for continuously improving energy performance. Training sessions are made possible with funding from the state of Ohio and its utility partners. Graphet Data Mining is coordinator for OCIEE's training events and its mission is to advance knowledge, tools, and data-driven techniques for energy efficiency. Workshops highlight the importance of a reliable and effective process to Measure-Analyze-Select & Act-Track-Evaluate-Report (MASTER) for sustainability.

Decision makers need access to skilled experts for prioritizing actions to reduce waste and setting realistic targets for performance improvement. Tracking and evaluating variations from target provide accountability for results. Reporting ensures company-wide awareness and fosters a culture of sustainability.

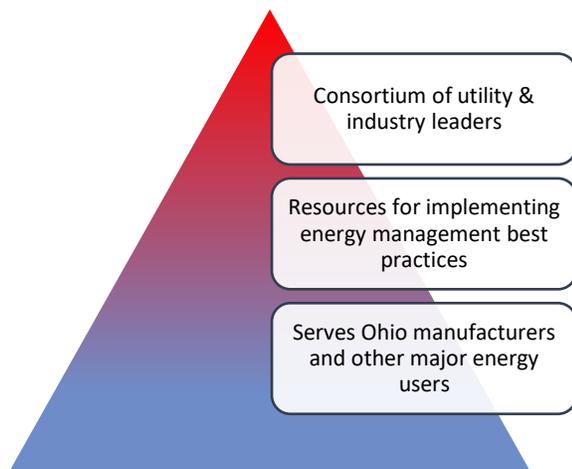
Data mining and analysis enhance operational efficiencies and uncover insights to describe, predict, and improve energy performance, which supports ISO 50001 compliance. The Superior Energy Performance (SEP) certification program accredited by the American National Standards Institute (ANSI) adds an energy performance improvement target to ISO 50001 requirements.

Supporting Ohio's Energy Efficiency Programs

Ohio's "Energy Efficiency Program" (EEP) offers assistance to facilities for setting strategic energy management priorities, identifying energy-saving opportunities and implementing projects.

The EEP for Manufacturers has supported over 120 implementation projects at facilities since 2002. State-approved facilitators are awarded grants to provide program services to manufacturers using a four-phased methodology, ensuring a culture for sustainable energy conservation at the site. A summary description of the four phases is provided here.

Phase	Description	Results
Phase I – Energy Management Diagnostic	Diagnostic session is conducted by a certified facilitator and attended by key decision makers for the site to review site energy management practices.	Identify five "Top Priorities" and benchmark company's results against a database of peer companies.
Phase II – Energy Management Planning and Technical Opportunities Assessment	ASHRAE level II assessment of the site to identify a list of technical opportunities to impact energy efficiency at their plant. Office of Energy funding at 75% of the audit cost, up to \$22,500.	Comprehensive analysis of the site's current energy usage and future efficiency capabilities. Develop an energy plan with short, mid, long term projects.
Phase III – Project Implementation/Resources for Funding	Companies may be eligible for financing through the Energy Loan Fund to implement energy efficiency measures identified in the Phase II technical assessment.	Provide grant funding support to implement projects that meet site business goals and improve energy efficiency.
Phase IV – Measurement and Verification	After installation of energy efficient measures, program facilitators work with the company to verify energy savings.	Actual data from before and after project implementation is reviewed to establish actual energy savings attributable to the energy efficiency measures.



Helping Ohio's Energy Champions MASTER Best Practices for Sustainability

www.ohiociee.org