



**THE LEHIGH UNIVERSITY  
INDUSTRIAL ASSESSMENT CENTER**

**PROVIDES ASSESSMENTS  
PAID FOR BY THE  
UNITED STATES  
DEPARTMENT OF ENERGY**



**TO IMPROVE PRODUCTIVITY  
AND ENERGY USE IN  
SMALL AND MEDIUM  
SIZED PLANTS**



**INDUSTRIES OF THE FUTURE**

**PROGRAM OVERVIEW**

The Lehigh University Industrial Assessment Center (IAC) is one of 26 centers supported by the U.S. Department of Energy (DOE) at universities across the country. The Lehigh University IAC provides plant assessments at *no cost* to eligible small and mid-sized manufacturers.

Assessments are performed by a team consisting of a Lehigh University faculty member and upper-level undergraduate and graduate engineering students. During a site visit, students take measurements to audit the facility's use of energy and resources. With the guidance of the Lead Assessor, a Lehigh University Professor, students generate a confidential report identifying opportunities to save energy, reduce waste, and improve productivity. On average, recommended actions from an assessment result in annual cost savings of \$55,000.

**ELIGIBILITY REQUIREMENTS**

- Standard Industrial Classification (SIC) Codes 2000-3999
- Up to \$100 Million in Sales
- \$200,000 to \$5 Million in Annual Utility Bills (with appropriate approval)
- Fewer than 500 Employees
- No in-house professional staff to perform the assessment
- Some limitations do apply on assessments performed at multiple facilities with the same corporate entity

**THE ASSESSMENT PROCESS**

A complete IAC assessment consists of the following four steps:

1. *Pre-Assessment Analysis.* The purpose of this analysis is to collect preliminary information about the facility, which gives the IAC team some background data regarding utility bills and usage. This analysis must be completed prior to arrangement of an assessment date.
2. *Site Visit.* The IAC team conducts a one-day site visit to study the manufacturing process, using diagnostic equipment to procure measurements related to energy, productivity, and material waste.
3. *Report.* Within sixty days of the assessment, the IAC team submits a confidential report to the company, detailing the team's analysis and money-saving recommendations, along with estimates of related costs, performance, and payback periods.
4. *Follow-Up.* Approximately six months after the report is sent to the company, the IAC contacts the company to conduct an Implementation Survey to determine which, if any, of the recommendations were implemented. The implementation rate is a factor used to measure the success of the IAC program.

**ALL SERVICES PROVIDED  
FREE OF CHARGE!**

*Confidential.* A Confidentiality Agreement is signed by both the company and the Lehigh University IAC. The report prepared specifically for the company does not include the company name.

*Minimal Time Commitment.* In most cases, the IAC team visits a facility for one full day to examine the manufacturing process and take measurements.

*Non-Regulatory.* IAC assessments do not monitor compliance with any regulations. They are designed to offer technically sound and economically feasible advice to save energy, reduce waste, and increase productivity.

*No Obligation.* The plant incurs no obligation to act on recommendations; however, the IAC team's success is measured by the amount of energy and money saved.

*Provides Experience for Students.* Each IAC assessment provides practical experience and training for Lehigh University engineering students, who learn to analyze industrial processes and professionally communicate their analyses to company management.

#### *Contact Information*

To schedule an assessment, or if you have any questions, please contact:

Professor A. Oztekin  
Phone: 610-758-5742

Email: [lehighiac@lehigh.edu](mailto:lehighiac@lehigh.edu)

Website: <http://www.lehigh.edu/~inluiaac>

## IAC ASSESSMENT BENEFITS

*No Cost for Assessments.* Since the program is supported by the U.S. Department of Energy, there is no cost to eligible manufacturers.

*Increased Profitability.* Implementation is a simple way to make your business more cost efficient and profitable. On average, IAC assessment recommendations that have been implemented save a plant over \$55,000 per year, with payback periods averaging twelve to eighteen months.

*Increased Competitiveness.* The IAC team may be able to introduce proven advanced equipment and recent technological practices and innovations to give your plant a competitive edge.

Industrial Assessment Center  
Department of Mechanical  
Engineering and Mechanics  
Lehigh University  
356 Packard Laboratory  
19 Memorial Drive West  
Bethlehem, PA 18015

Phone: 610-758-5742  
Fax: 610-758-6224

Contact: Professor A. Oztekin  
Email: [lehighiac@lehigh.edu](mailto:lehighiac@lehigh.edu)  
Websites: <http://www.lehigh.edu/~inluiaac>  
<http://iac.rutgers.edu>



LEHIGH  
UNIVERSITY



## INDUSTRIAL ASSESSMENT CENTER

Creating bottom-line  
returns for manufacturers  
by saving energy and  
resources



U.S. Department of Energy  
Energy Efficiency and Renewable Energy