

## 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.

**Increases Profitability.** Implementation is a simple way to make your business more cost efficient and profitable. On average, implemented IAC assessment recommendations save a plant over \$55,000 a year with paybacks coming within 12 to 18 months.

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

### Info Card

If you are interested in having the North Carolina State University IAC contact you about performing an assessment, cut out this card along the dashed lines and drop in the mail or fax the completed card to (919) 515-7968.

Name

Title

Company

Address

City, State and ZIP

Phone

Fax

**Confidential.** All information will be kept strictly confidential. The report prepared specifically for your company will not have your name on it or be released to the public.

**Minimal Time Commitment.** In most cases, the IAC team will visit your 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 on how to save energy, reduce waste and increase productivity.

**No Obligation.** Your plant is not obligated to implement any recommendations, but the IAC team's success is measured by the amount of energy and money that is saved.

**Provides Experience for Students.** Each IAC assessment helps provide practical experience and training to North Carolina State University engineering students who learn to analyze various industrial processes and professionally communicate their analysis to company management.

### Contact Information

If you have any questions about the North Carolina State University Industrial Assessment Center or wish to schedule an assessment, fill out the Info Card to the left and mail or fax it back. Or if you prefer, call Dr. James Leach at (919) 515-5228 or e-mail him at [leach@eos.ncsu.edu](mailto:leach@eos.ncsu.edu). You can also visit our web site at [www.mae.ncsu.edu/centers/iac](http://www.mae.ncsu.edu/centers/iac).

NC STATE UNIVERSITY



## INDUSTRIAL ASSESSMENT CENTER

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



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

## Program Overview

The North Carolina State 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 North Carolina State University IAC provides plant assessments at no cost to eligible small and mid-sized manufacturers.

Assessments are performed by a team consisting of a North Carolina State University faculty member and upper-level undergraduate and graduate engineering students. During a site visit, students take measurements to audit how the facility uses energy and resources. With the guidance of their professors, students then generate a confidential report identifying opportunities to save energy, reduce waste, and improve productivity. On average, IAC assessment recommendations that are implemented wind up saving a facility over \$55,000 annually.

To find out more about Industrial Assessment Centers, visit the program's web site at [www.oit.doe.gov/iac](http://www.oit.doe.gov/iac). There you can find more about the history of the IAC, links to the IAC Database, and resources to help perform your own assessment.



Engineering students, supervised by their professors, record their observations of a compressor operation at a recent IAC assessment.

## The Assessment Process

A complete IAC assessment consists of the following four steps:

- 1. The Pre-Assessment Analysis**—The purpose of this analysis is to collect some preliminary information about the facility and give the IAC team some background data regarding utility bills and usage. This analysis must be completed prior to arranging an assessment date.
- 2. The Site Visit**—The IAC team will conduct a one-day site visit to study the manufacturing process and to make energy, material waste and productivity-related measurements using diagnostic equipment.
- 3. The Report**—Within 60 days of the assessment, the IAC team will submit a confidential report to the plant manager detailing the team's analysis and money-saving recommendations, along with estimates of related costs, performance, and payback periods.
- 4. The Follow-Up**—In two to six months after the assessment, the IAC team will contact the plant manager to determine which, if any, of the recommended measures have been implemented. The implementation rate helps to measure the IAC program's success.

## Eligibility

In order to qualify for an IAC assessment, a manufacturing plant must be categorized in Standard Industrial Classification (SIC) Codes 20-39, be located within 150 miles of the North Carolina State University campus, and meet three of the four following criteria:

- Gross sales below \$100 million
- Fewer than 500 employees at the plant
- Annual utility bills more than \$100,000 and less than \$2 million
- No in-house professional staff to perform an assessment



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