

Industrial Assessment Center

Industrial Assessment Center Program Energy, Productivity, Waste, Cybersecurity Assessments

➤ WHO ARE WE?

- The University of Florida Industrial Assessment Center (UF-IAC)
- Engineering faculty along with graduate and undergraduate students working in the area of industrial energy management, energy efficiency, renewable energy, waste reduction/pollution prevention, industrial productivity and cyber security.

➤ WHAT DO WE DO?

- UF-IAC team performs assessments in the areas of energy efficiency improvements, waste reduction, productivity improvements, and cyber security enhancements for manufacturing facilities at no cost to the manufacturing facility.
- The assessment team conducts an in-plant visit to identify potential improvements in industrial process and plant operations
- After the in-plant visit, potential scenarios are analyzed and a formal technical report is prepared and sent to the company describing the cost-effective measures including the expected savings, implementation cost and payback calculations.
- The UF-IAC performed more than 450 industrial assessments since 1990 with an expected energy and dollar savings between 20 and 40% of the total plant energy bill and with greater than 50% implementation rate for our recommendations

➤ WHY ARE WE DOING THIS?

- To help small-to-medium-sized industries reduce operating costs and improve productivity.
- To enhance the educational experience of our undergraduate and graduate engineering students and provide them with hands-on training in energy management and pollution prevention.

➤ WHAT COMPANIES ARE ELIGIBLE FOR OUR SERVICE?

- Companies must meet the following criteria (contact us for exceptions):
- Standard Industry Classification (SIC) Codes 2000 - 3999
- Energy expenditures ranging between \$100,000 and \$2.5 million, annually
- Annual gross sales of less than \$100 million
- Fewer than 500 employees
- No energy manager on staff
- Be located within 250-mile radius of Gainesville, Florida

➤ WHO PAYS FOR THIS SERVICE?

- The IAC program is funded by the U.S. Department of Energy (DOE)
- The UF IAC is one of 28 IAC's located at major universities throughout the United States

• WHAT ARE SOME TYPICAL MEASURES THAT WE ANALYZE?

Energy Savings Measures

- Lighting system retrofits
- Motor upgrades
- Heat recovery applications
- HVAC system upgrading
- Process equipment modifications
- Building envelope improvements, etc.

Waste Reduction Measures

- Process changes
- Recycling programs
- Inventory control
- Solvent alternatives, and many others

Productivity Measures

- Inventory control
- Labor optimization
- Defect reduction, and many others
- Layout changes
- Bottleneck mitigation
- Metrics, Baseline, Renewables, etc.

Cyber Security Measures

- Cyber security assessment
- Cyber security enhancements

➤ WHAT WILL THIS SERVICE COST THE COMPANY?

- The industrial assessment and subsequent report are provided to the company at ***no cost***
- The company must invest some time in the project as follows:
 - Answering questions on the telephone prior to the visit to provide some preliminary data, set a date for the plant visit, and give directions to the plant
 - Collect historical energy consumption and waste generation data prior to the plant visit, accomplished by providing copies of the utility bills and waste disposal bills, or giving permission for the company's utility to send the information directly to us
 - Conducting a tour of the facility guided by an employee familiar with the plant processes, energy consumption, and waste generation
 - Answering phone questions concerning report implementation 6-9 months after our visit
 - Answering occasional questions which may arise during report preparation

➤ IS THE ASSESSMENT REPORT CONFIDENTIAL?

- Yes, all aspects of the in-plant survey are kept confidential
- The identity of each plant participating is also kept confidential
- The IAC is not involved in regulation or enforcement in any way

➤ HOW CAN A COMPANY PARTICIPATE IN THIS PROGRAM?

Any eligible company can request that an audit be scheduled. To do so, call or write to Dr. S.A. Sherif or Dr. C. Cardenas-Lailhacar at their contact phone or email below.

➤ OUR FACULTY MEMBERS:

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