



第二届中美能效论坛

UAIEE and IACs

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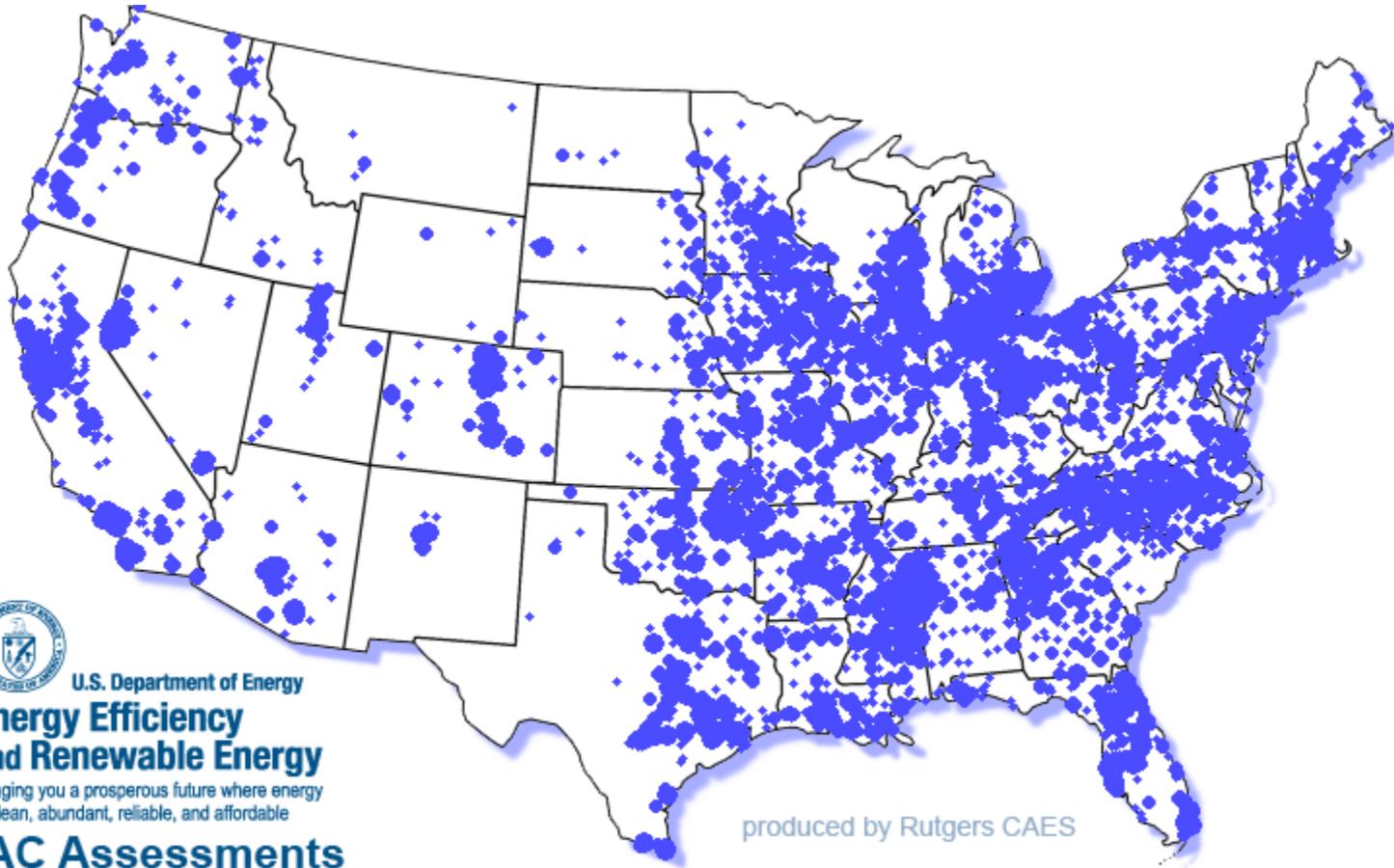
Industrial Assessment Centers

- Started in **1976**
- Currently **26 Centers** across the US
- **Almost 15,000** Assessments
- Assessments in **all 50 States**
- **Over 111,000** Recommendations
- Continues to Grow yearly by:
 - **400** assessments
 - **3,000** recommendations





IAC Assessments of Small and Medium Manufacturers



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**
Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable
IAC Assessments

produced by Rutgers CAES



Industrial Assessment Centers

- ABET Accredited Engineering Universities
- Director must be a teaching faculty member
- Generally have additional faculty and staff members
- Have a team of, on average, more than 10 undergraduate and graduate engineering students





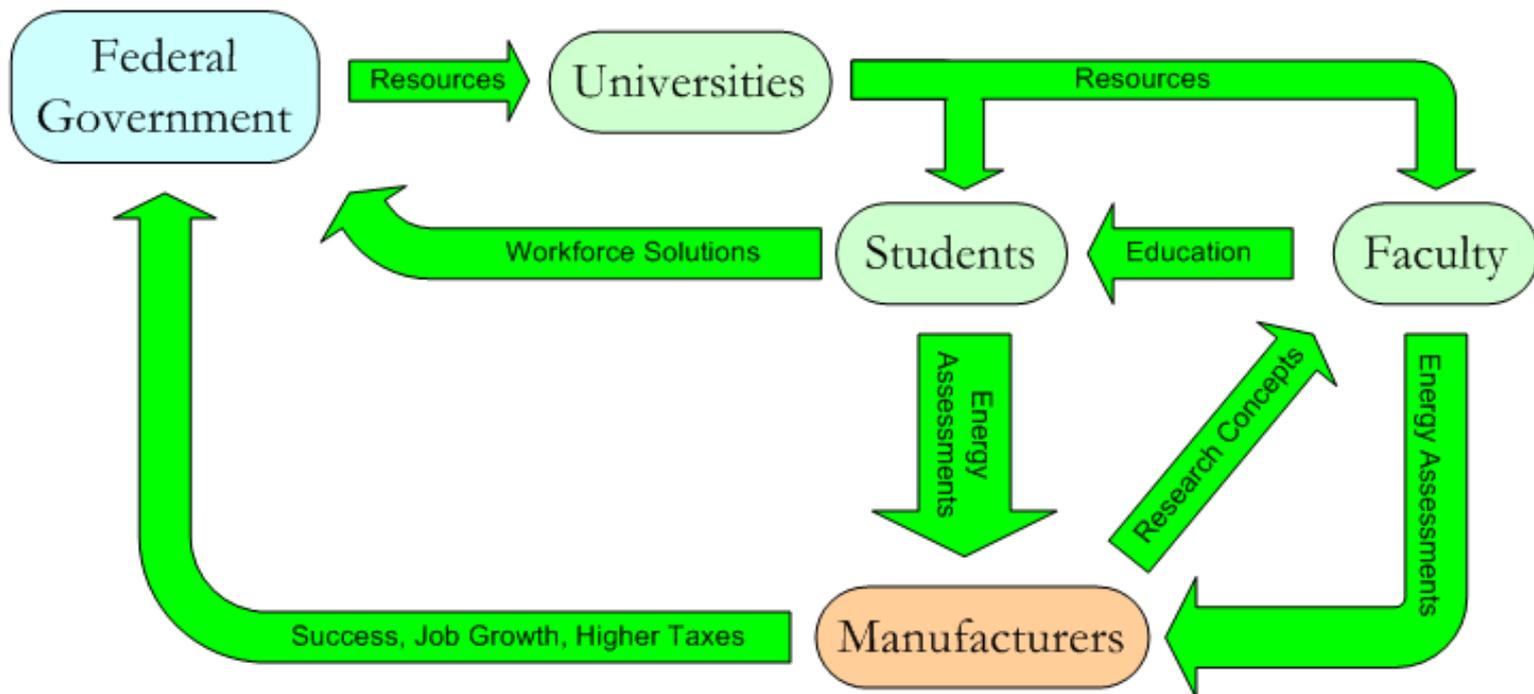
Focus of the IAC

- Student Experience and Training
 - Provides real-work experience working with industry and energy
- Advanced Technology Deployment
 - Increases awareness and de-mystifies new technology for manufacturers
- Research
 - Assessments provide opportunities to identify and develop research ideas
- Saving Energy



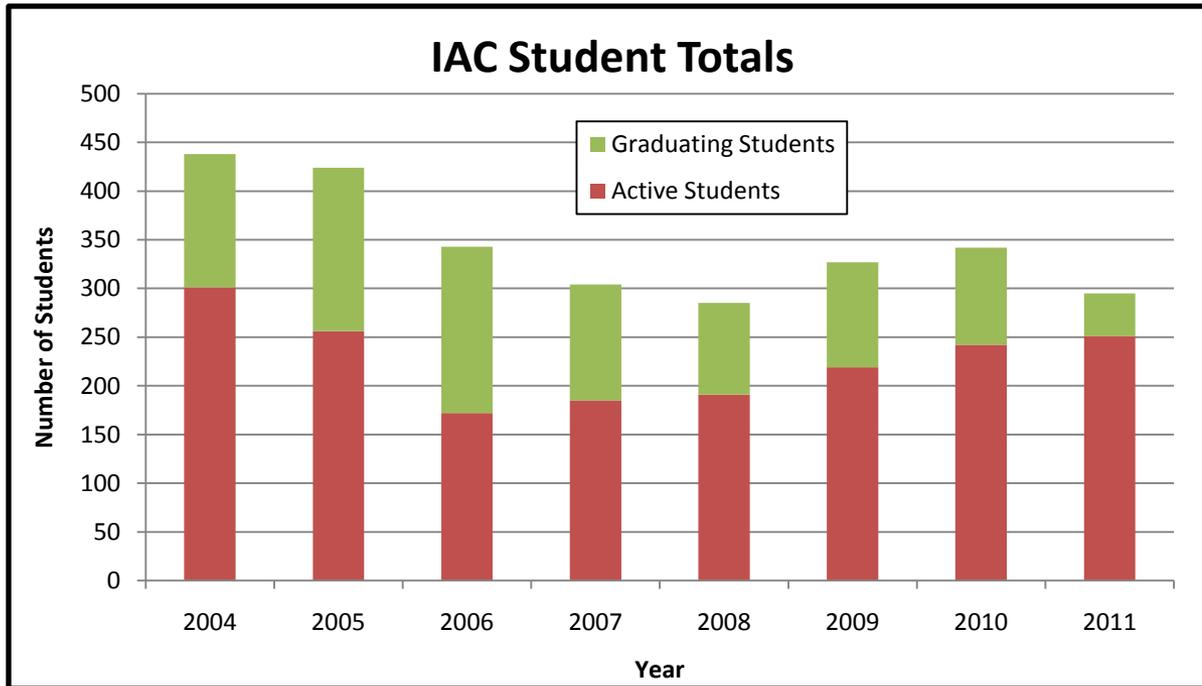
IAC Benefits

IAC Program... Who Benefits?





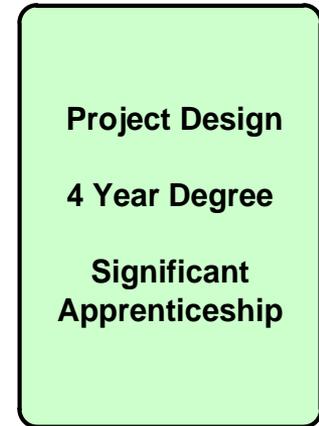
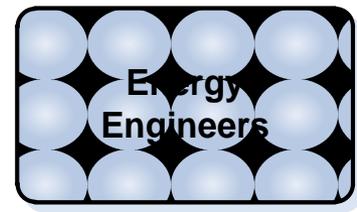
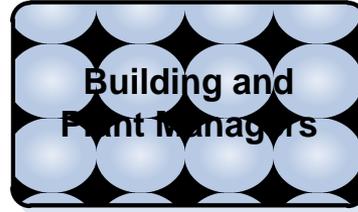
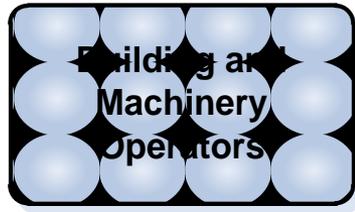
IAC Students



- Student Population: 75% Undergraduate, 25% Graduate
- Includes: Mechanical, Electrical, and Industrial Engineers
- Average Number of Assessments Conducted per Student: 18
- 60% of departing IAC students go into energy-related careers



Workforce Development

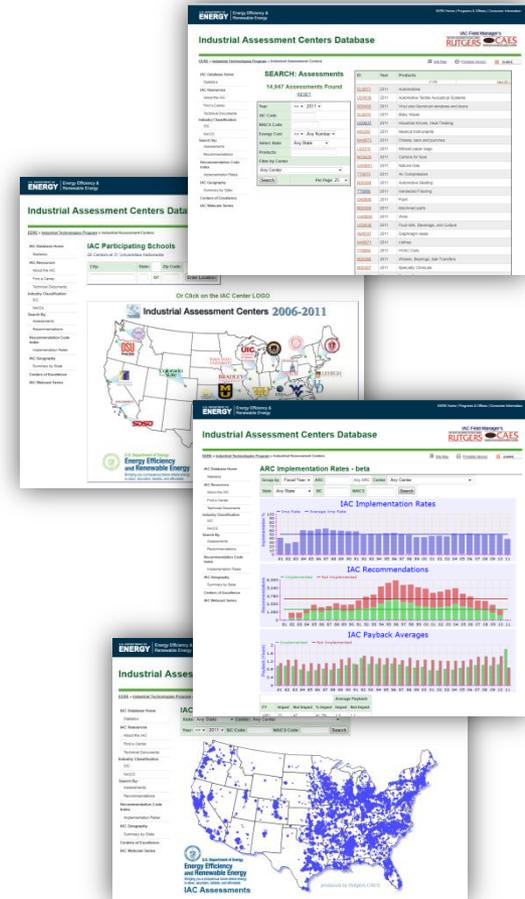




IAC Online Database System

Contains ~15,000 Assessments

- Registers all industrial assessments and other major activities
- Tracks detailed results and plant follow-up responses
- Generates comprehensive program reports and statistics
- Evaluates center and program performance
- Public internet access to:
 - Assessments results, statistics, case studies, and technical documents



<http://iac.rutgers.edu/database/>



China-US Industrial Energy Efficiency University Symposium

October 16-19, 2010, Beijing

- First UAIEE and IAC cooperative activity
- Development and operational details of the IAC were presented and discussed, concentrating on methods, goals, and lessons learned
- Objectives and focuses of the UAIEE and IAC assessments were exchanged
- Assessment equipment, tools, and evaluation software were reviewed
- Plans for future collaborations were outlined





IAC Directors Meeting 2011

- Annual Meeting of all IAC Directors and the Department of Energy
- Topics include:
 - Program Direction
 - Center Activities
 - Research Developments
- UAIEE Representatives will participate
- It will be located Niagara Falls this year





Future Collaborations

- Working exchanges
 - IAC Directors Meeting in July 2011 UAIEE
 - Workshop in 2012
- Capacity building: Xi'an Process Heating Assessment Workshop in June 2011 with NECC and UAIEE
- Database discussions: Share experiences on database development
- Personnel training: IAC staff and student exchanges
- More Frequent Dialogue to support development of the UAIEE





UAIEE and IACs

Thank You