



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

Industrial Technologies Program

IAC Program Update and SEN Support

IAC Student Meeting

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**U.S. Department of Energy
Industrial Technologies Program (ITP)**



Lisa Barnett

- Attended Washington State University, B.S. in Business Administration
- Over 20 years of federal service with the U.S. Department of Energy and Navy
- Served as contracting officer, market analyst and program lead
- Manage National Industrial Competitiveness for Energy, Environment and Economics (NICE3), Inventions and Innovation (I&I) and Industrial Assessment Centers (IACs).

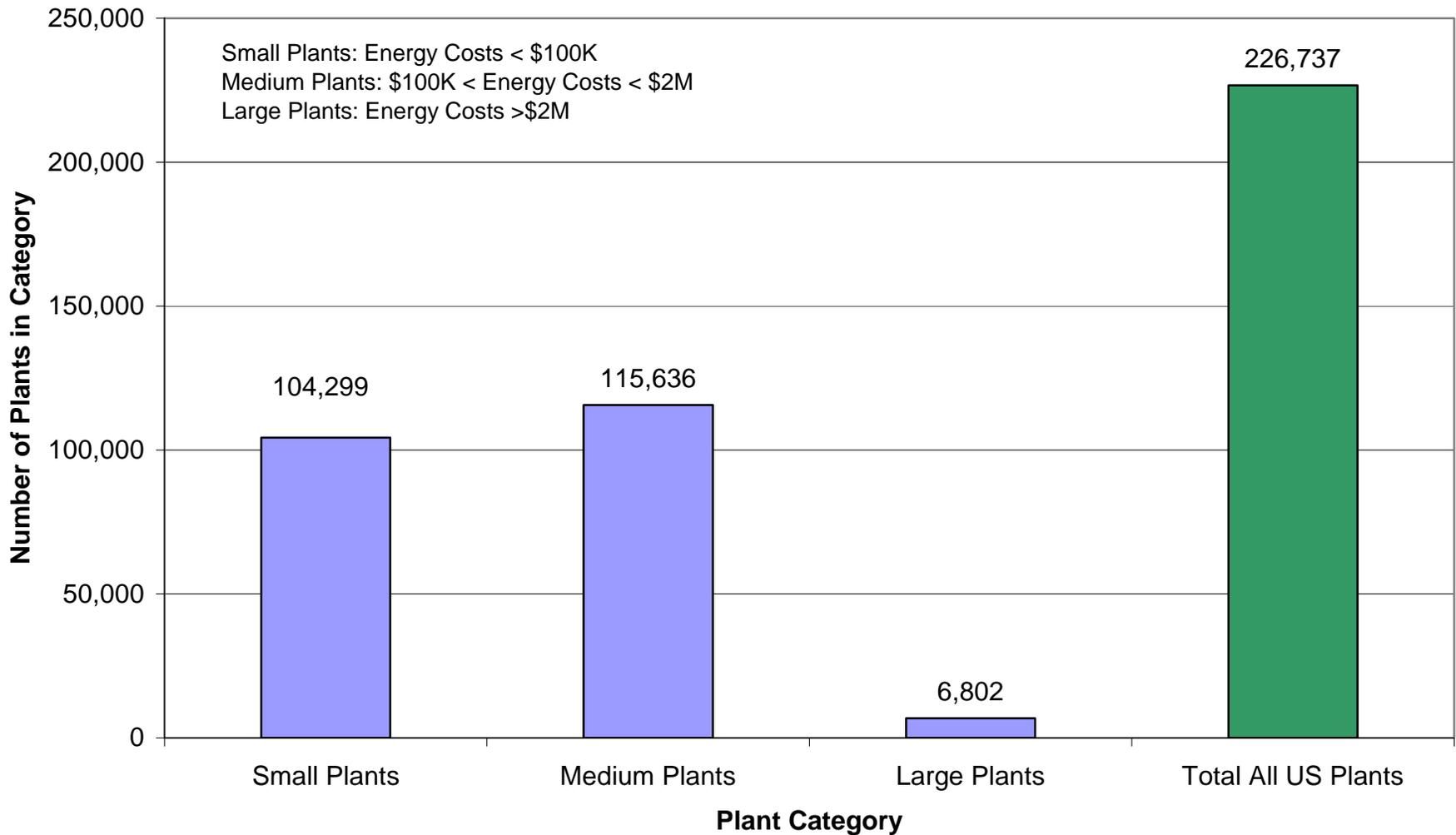


IAC Background

- Industrial Assessment Centers (IAC) is a sub-program under the Industrial Technologies Program, in the Office of Energy Efficiency and Renewable Energy at the U.S. Department of Energy.
- IAC Program goals are: (1) to save energy, reduce waste and improve productivity of small- and medium-sized industrial manufacturers in the US; and (2) to train the “next generation” of energy-savvy engineers.
- The IACs serve small- and medium-sized manufacturers through a network of 26 IACs located at universities nationwide. These IACs also train engineering students – the “next generation” of energy professionals.

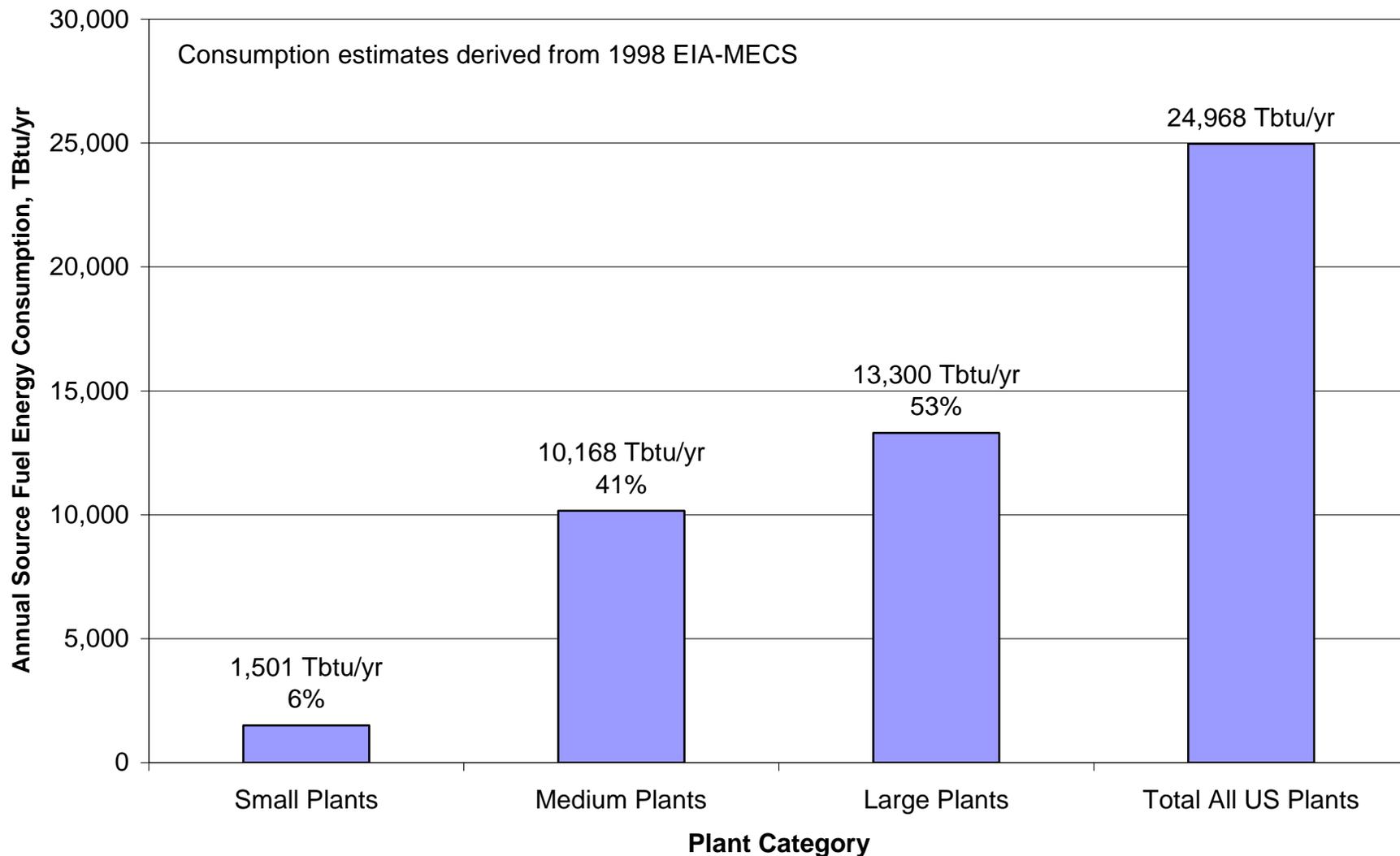


Distribution of U.S. Manufacturing Plants





Consumption of Energy by U.S. Manufacturing Plants

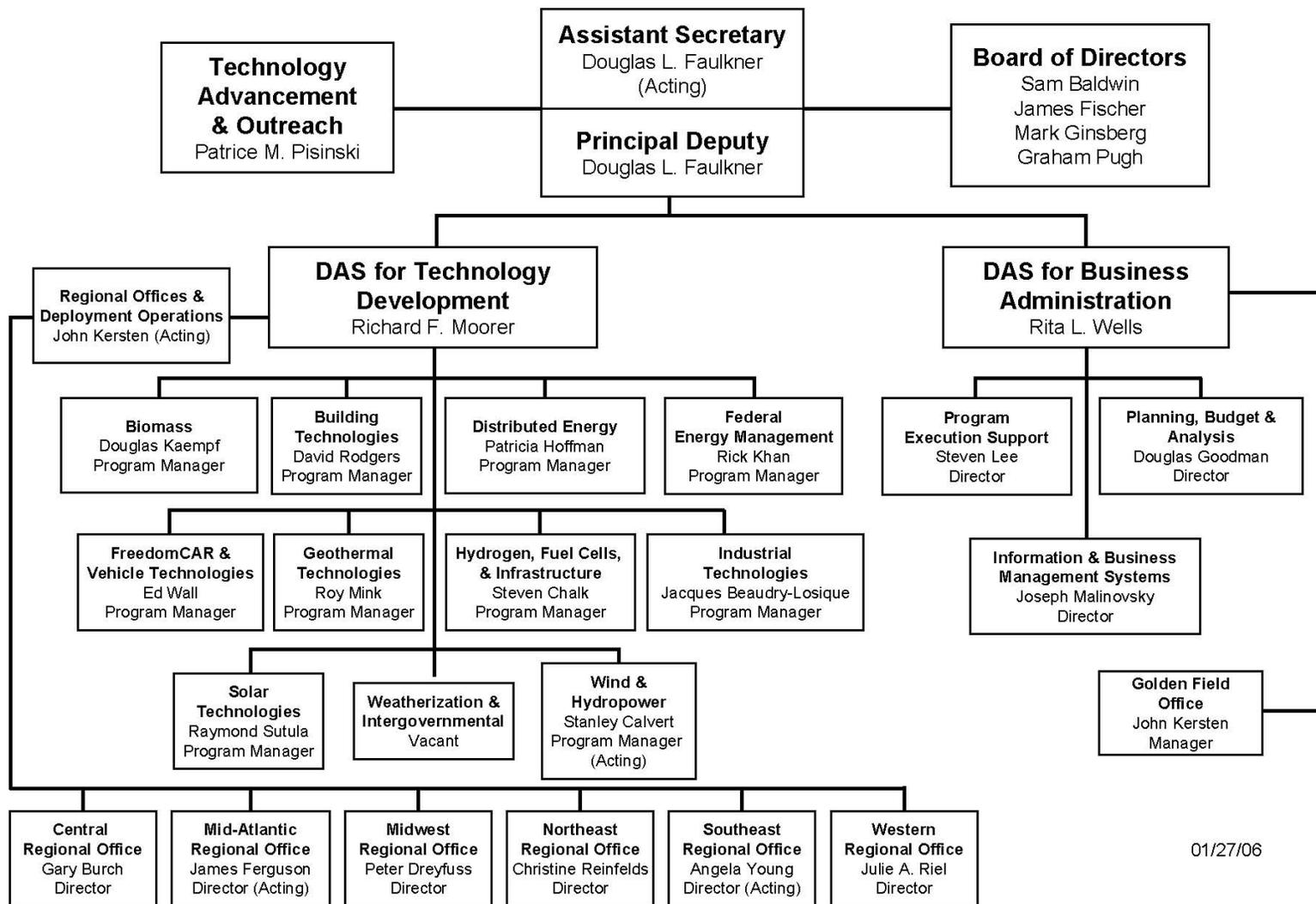




U.S. Department of Energy
Energy Efficiency and Renewable Energy

Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable

Office of Energy Efficiency and Renewable Energy
Organization Chart





IAC Facts- Assessments and Centers

- The IAC started as the EADC (Energy Analysis and Diagnostics Centers) in the late 1970's.
- Since 1977, over 13,000 assessments have been conducted by over 2,300 engineering students.
- In 2004, the average implemented energy savings per assessment was 6,800 MMBtu/yr, or \$30,000 per year.





IAC Facts- Our Students

- Approximately 250 engineering students are employed annually
- Each year, 120-180 students graduate from the program
- 40% to 50% of our graduates move on to careers in energy
- Engineering fields: Mechanical, Industrial, Electrical
- Student status: Undergraduates – 67%, Graduates – 33%
- Average time spent working for IAC: 18 months





IACs Implement U.S. Energy Policy

- Often, we are “First Responders” in times of need
 - SEN assessments for Industry
 - FEMP 2001 California assessments, 2006 Energy Savings Expert Teams (ESET)
 - ITP Showcases
- IACs have conducted assessments for small, medium *and large* energy-consuming plants.
- IAC faculty and students are DOE Qualified Specialists.
- IACs cultivate regional relationships with industry and state organizations.
- IACs develop and test BestPractices software tools.
- IACs deliver DOE information materials and software to clients.



Fiscal Year 2007 Budget

- IAC Center solicitation for Fiscal Years 2007-2008 closed January 24, 2006. Center selections are currently under review.
- IAC Fiscal Year 2006 Budget - \$6 million.
- DOE requested funding reduction to \$4 million in 2007 for IAC activities.
- Fiscal Year 2007 budget request will result in the reduction of the number of Centers and students employed.
- DOE will add more Centers, if Congress appropriates more funding above the DOE request.



Priorities

- SEN Initiative
 - Conduct overflow assessments for ESA applicants
 - IAC assessments are vehicles for the SEN message: distribute SEN information and software materials, focus on reducing NG consumption, use BP steam and process heating software tools
 - Centers hold one-day workshops for local manufacturers
 - Deliver lectures via national webcasts
 - Link to SEN from your webpage
 - Contact old clients to offer SEN information and software materials
 - Promote energy efficiency in plants through your local media outlets
 - Collaborate with state and regional energy offices to promote SEN



Priorities (Cont'd)

- Activities

Centers should complete assessment goals for 2006.

Work with clients to improve implementation of ARs, save more energy, and reduce natural gas consumption!

Strive for 100% follow-up on 2005 implementation reports.

Ensure that all active students are entered in the IAC Student Registry (located at www.iacforum.org).

Ensure that all departing students take the exit interview, which is part of the student registry.



Questions or Comments?

- Contact Information

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