



# The Future of the IAC

## ACEEE's vision for an expanded IAC

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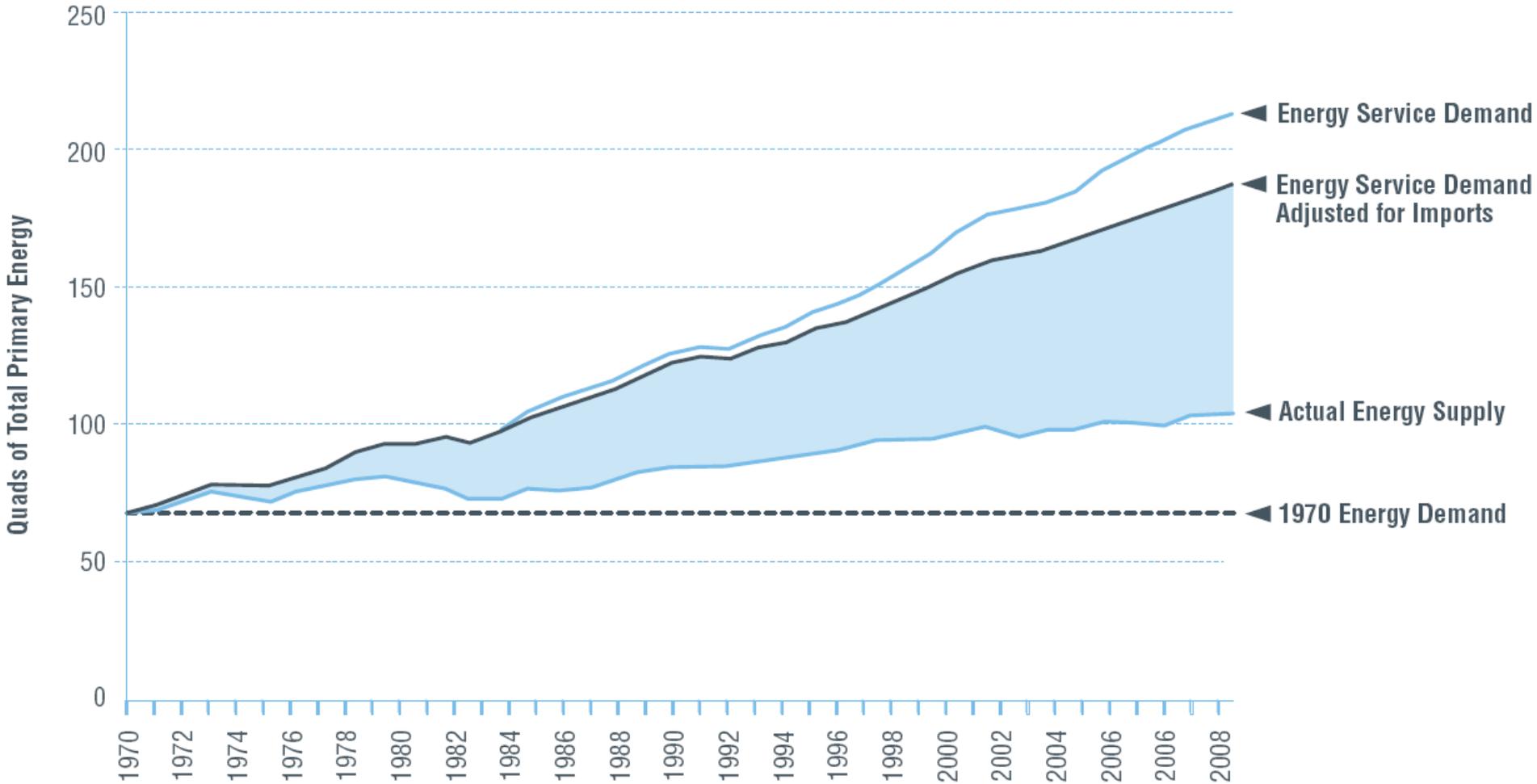
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# The American Council for an Energy-Efficient Economy (ACEEE)

- Non-profit 501c(3) dedicated to advancing energy efficiency through research and outreach
- 38 staffers in Washington DC, Delaware, Michigan and Wisconsin
- Focus on end-use efficiency in industry, buildings, utilities, transportation, economics and federal/state policy
- Offer conferences and publications
- Funding:
  - Foundation/federal grants: 41%
  - Specific contract work: 21%
  - Conferences and pubs: 34%

# Efficiency is Important



# ACEEE Industry Program

- State EE Potential Studies (Res, Com, Ind)
- Emerging Technologies
- Industrial Programs Survey and Report
  - Program Managers' Network
- CHP policy work on state and federal levels
- Industrial Working Group
- Industrial Energy Efficiency Legislation (State & Federal)
  - Stimulus
  - FY09 Omnibus, FY10 Budget
  - Energy Bill, Climate Bill, EERS

# Barriers to Industrial Energy Efficiency

- Assessments to identify savings
  - Access to industry-specific expertise
  - Expanded workforce with EE experience
- } **Workforce**
- Capital?
    - Programs that offered engineering assistance but lower \$ incentives fare better than higher incentives alone
    - Changes in current economic climate



# Funding?

- 2007

- DOE: \$24 Billion
- EERE: \$1.5 Billion
- ITP: \$46 Million
- IAC: \$4 Million

- Stimulus?

- Energy Bill.

# Industrial Assessment Center Program

- Energy savings:
  - ~\$100,000/audit
  - \$4.5 billion total since 1974
- Workforce Development
  - Uniquely experienced graduates →
  - Indirect effect - teaching

## Benefits of Hiring IAC Program Graduates

- Qualifications
  - Technical proficiency
    - Engineering
    - ENERGY
  - Real world experience
    - Audits
    - Manufacturing processes
    - Calculations
    - Presentations
    - Confident
    - Recognize opportunities
    - Leadership



# Industrial Assessment Center Program

- Dept. of Energy-funded IACs are located at accredited engineering schools across the US
- Engineering students perform single day assessments of local manufacturing facilities
- 26 centers across the US
- Over 14,000 assessments have been conducted since the program's inception in 1974
- Over 100,000 energy, waste, and productivity recommendations
- Total implemented savings: \$4.5 billion
- FY08: 255 participating students



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- IAC: \$4 Million → **\$8 Million?** → **\$40 Million**

# Expanded IAC program

- Expand the network of IAC centers to meet needs for more assessment services
  - Expanded federal role should be complemented with state co-funding
- Student activities
  - conferences, training, coordination, etc.
- New program elements that explicitly enhance workforce development
  - Satellite Centers
  - Trade Schools
  - Internships

# Expanded IAC program

- Expand IAC network
  - Centers of Excellence
    - ~10 best current IACs
    - Develop education materials, coordinate w/other schools and organization in state
  - Satellite Centers
    - Other IACs and other ABET accredited colleges
    - Provide more audits to harder to serve areas
  - Community Colleges and Trade Schools
    - Training on technical level
    - Opportunity to join audits; IAC scholarships

# Expanded IAC program

- Internship Program
  - Businesses sponsor IAC students
    - After audit, student works with firm on implementation
    - ESCOs, etc. provide training
  - Opportunity to hire IAC graduates

# Expanded IAC program

- Student Activities
  - DOE specialist training
  - Webcasts
  - Conferences
  - Etc...

# Expanded IAC program

- Coordination
  - Other IACs
  - RACs
  - MEPs
  - State Energy Offices
  - Manufacturing Associations

# Expanded IAC program

- Scope

- Remain focused on small to medium size
- Allow larger audits for Centers of Excellence

- Increase targeted skills

- Nuts and bolts installation and maintenance
- Program design and implementation
- Energy Modeling and Analysis
- Software Tools

# Expanded IAC Funding - \$40M

- Internship program - \$5-6 million:
  - Requires 1:1 employer match
- Centers of Excellence - \$8-10 million
  - \$750,000 - \$1 million each annually.
- Satellite Centers
  - \$500,000 each
- Community colleges and trade schools
  - \$100,000 - \$300,000 each
- 1:1 Matching state funds
  - Allows states to grow more satellite centers



American Council for an Energy-Efficient Economy

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