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Industrial Assessment Center Program

Part of the Advanced Manufacturing Program (formally ITP)

Training and Assessments:

- *Always has had a training focus*
- *Industrial Assessment Centers*
  - *A long, proud history over 30+ years*
  - *Serving primarily medium and small facilities*
- *Getting DOE Energy Tools into the marketplace*
- *Stimulates future privately-funded implementation and energy savings*

IAC Current Status

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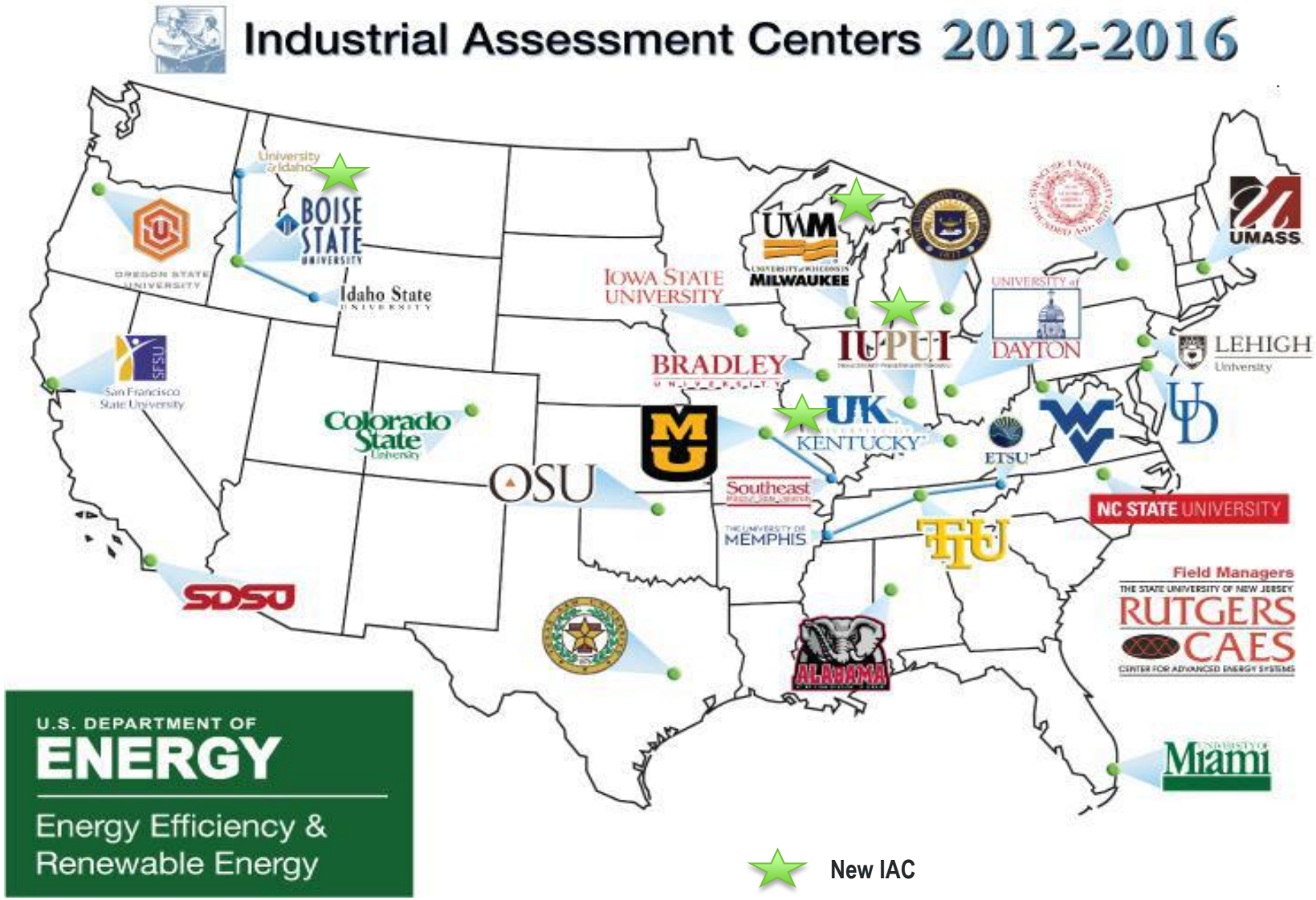
Another busy and productive year!

- 24 Universities selected for FY12 – 16; 4 new IACs
- Over 350 active and 180 new students this in FY11
- Nearly 1800 assessments completed since 2007; over 15,000 since inception
- 13 centers are partners with State Save Energy Now awards
- Recovery Act assessments and assistance activities are complete

What's Ahead

- Finish up work on the "old" IAC awards
- Complete negotiations on awards
- Training of new IACs and directors in November
- Starting assessments for FY12

New Map


Industrial Assessment Centers 2012-2016
University of Idaho
BOISE STATE UNIVERSITY
Idaho State UNIVERSITY
OREGON STATE UNIVERSITY
San Francisco State University
Colorado State University
OSU
SDSU
IOWA STATE UNIVERSITY
BRADLEY UNIVERSITY
UWM
UNIVERSITY of WISCONSIN MILWAUKEE
IUPUI
UK KENTUCKY
Southeast
THE UNIVERSITY OF MEMPHIS
ETSU
UNIVERSITY of DAYTON
UMASS
LEHIGH University
NC STATE UNIVERSITY
Field Managers
THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS CAES
CENTER FOR ADVANCED ENERGY SYSTEMS
ALABAMA
Miami
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New IAC

Who do the IACs Serve?

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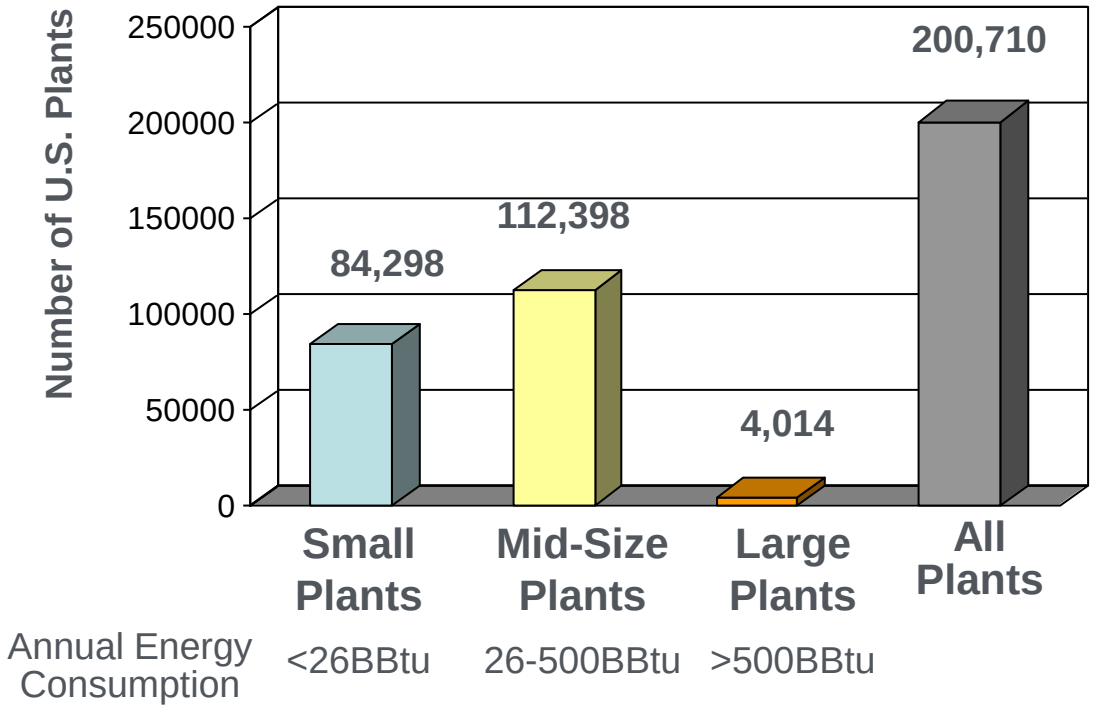
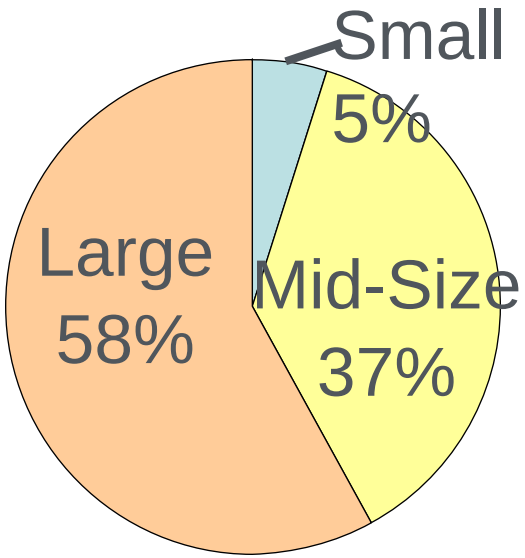
U.S. Manufacturing Plants: By Size



Percent of Total Manufacturing Energy



A relatively small number of plants account for large share of energy use.

Industrial Assessment Centers

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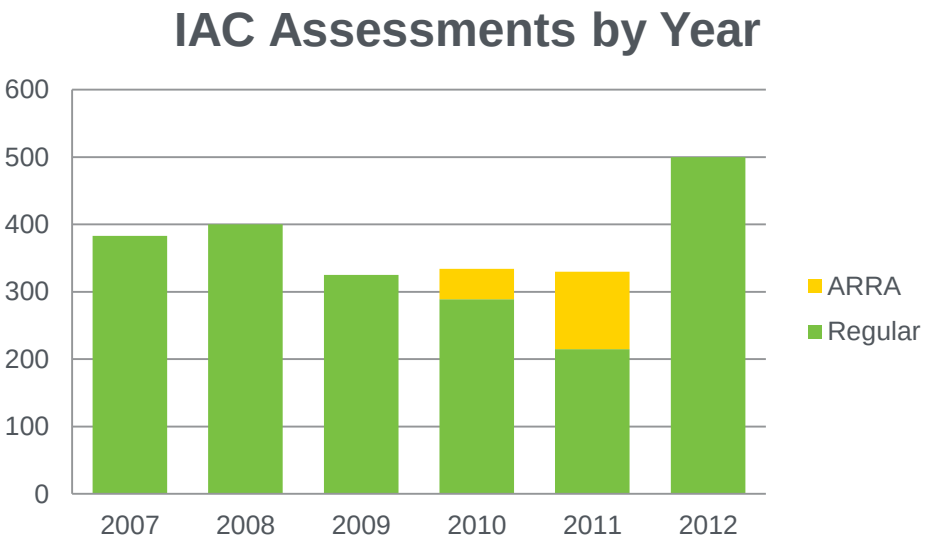
IACs serve 300 - 400 plants per year; planning on 500+ in coming years



Current Status

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Center Statistics as of 10/1/11

- Regular Work
  - 344/392 assessment days completed (88%)
  - 15 Centers 100% complete
- Recovery Act Work
  - 167 of 167 assessments completed (100%)
  - 96% of the funds expended
  - All awards to be closed-out
- Implementation
  - Currently, only 68% of Implementation Reports for FY10 are uploaded and still missing a few from FY09– **Need to work on this!**
  - Implementation is measure of the program
  - Please work to complete all FY10 reports ASAP, and stay on track with FY11 reports

Comparison of Non-ARRA vs. ARRA

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Average Identified Savings

	Non- ARRA Assessments (2,055)	ARRA Assessments (166)
Total Site Energy Savings (BBtu)	13.23	23.25
Total Source Energy savings (BBtu)	21.38	37.78
Energy Savings	$158,000	$258,000
Non-Energy Savings ($)	$42,000	$54,000
Natural Gas Savings (BBtu)	7.72	13.98

Comparison of ARRA vs. Non-ARRA

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Average Implemented Savings

	Non- ARRA Assessments (1,664)	ARRA Assessments (61)
Total Site Energy Savings (BBtu)	4.36	21.35
Total Source Energy savings (BBtu)	7.58	26.76
Energy Savings	$58,000	$153,000
Non-Energy Savings ($)	$14,300	$5,400
Natural Gas Savings (BBtu)	2.05	18.11

Comparison of ARRA vs. Non-ARRA

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Why the Difference Between ARRA and Non-ARRA?

- Focus on larger facilities
- Enhanced assessment techniques that include:
  - Additional time preparing for and conducting assessments
  - Implementation support after the assessment
  - Including partners such as MEPs and Utilities
  - Focus on multiple systems
  - Other reasons??

- ARRA IACs have been asked to provide an evaluation of enhanced activities in their final progress report

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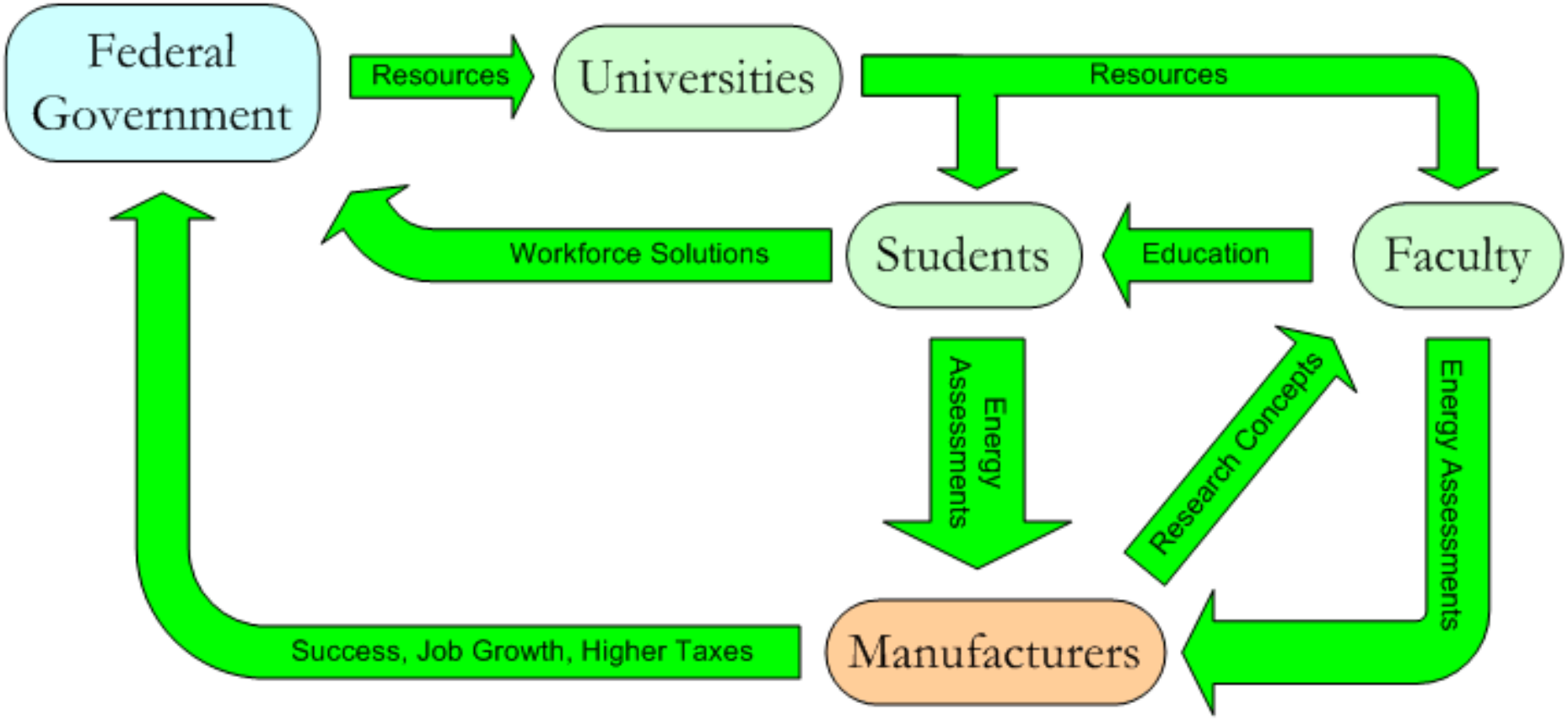
IACs…Who benefits?



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The Country gets….

- Workforce development
  - In-plant experience
  - Integration with school's curricula
  - COOP/Internship Opportunities
  - Certifications
  - ISO 50001 Training
- Energy savings
- Reduced carbon footprint
- Environmental improvements
- Jobs creation
- Healthier Businesses

IAC Benefits

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Industry gets…….

- Free audit services
- Reduced energy costs
- Increased profits
- Pathway for continuous improvement
- Carbon savings
- Enhanced community relations
- Relationship with the university
- <u>Access to an already trained workforce</u>

Mapped State Activities

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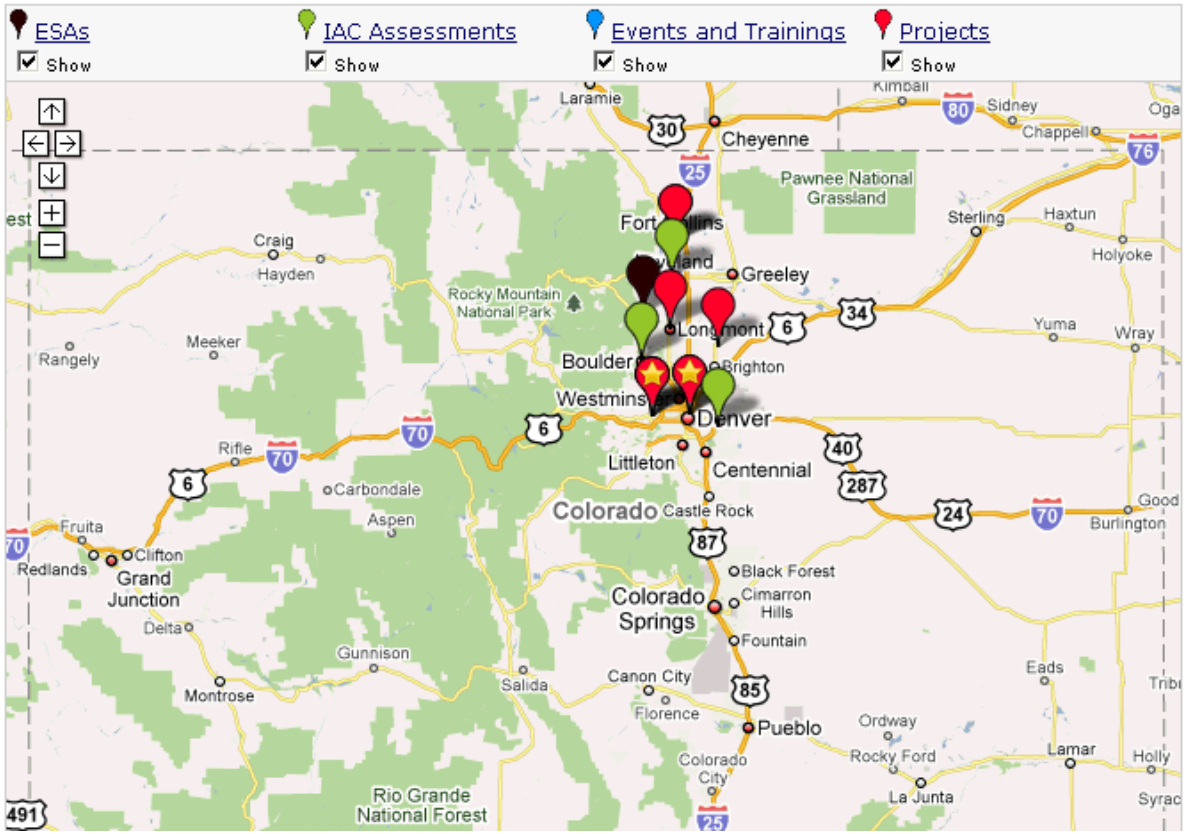
Mapped ITP State Activities

The following map provides a visual representation of ITP activities in Colorado. Click the checkboxes to filter certain activities. You may click the pushpin icon to show activity details. All locations are approximate. Following the map, there are lists that provide ITP activities (Energy Savings Assessments, Industrial Assessment Centers, Events and Trainings, and ITP Partner Projects) in Colorado.

View another state: Colorado Back to full map



- Energy Savings Assessments
- IAC Assessments
- Events and Training
- ITP Partner Projects including details and project successes

http://www1.eere.energy.gov/industry/states/state_activities/main_map.asp

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So What's Important…..

- Student registrations
- Timeliness of audit reports and client followup
- Student impact (training, certifications, coops/internships, careers
- Integration with universities' curriculum
- Innovative learning techniques
- Sharing the program on-line with each other and industry

Thanks for all your hard work!

Questions?