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U.S. Department of Energy
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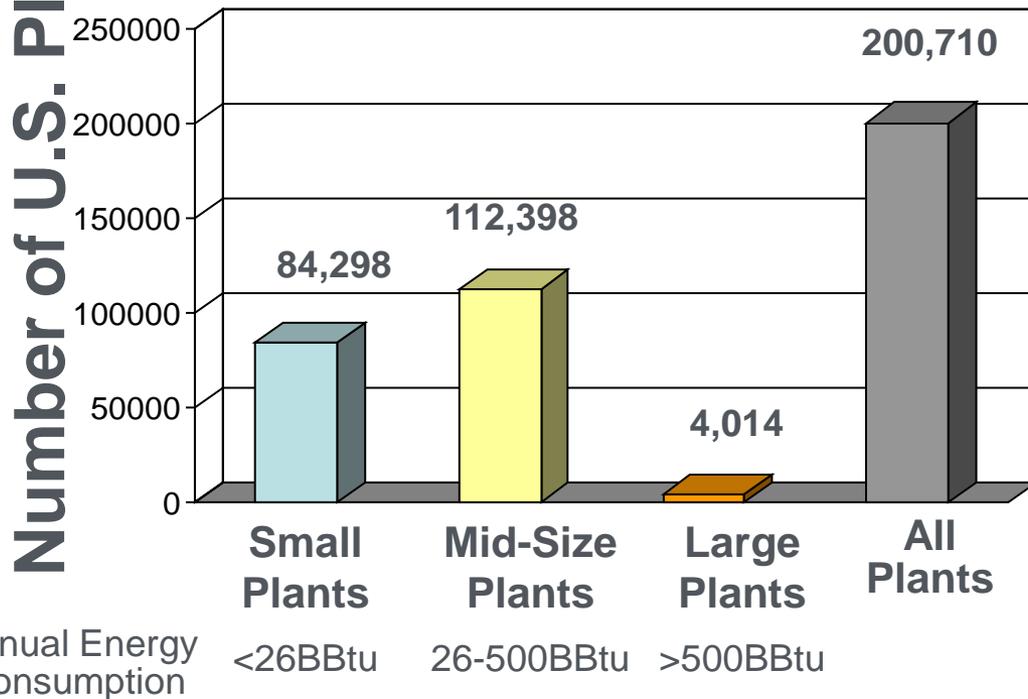
Energy Assessments and the IACs

With a focus on the History and Results

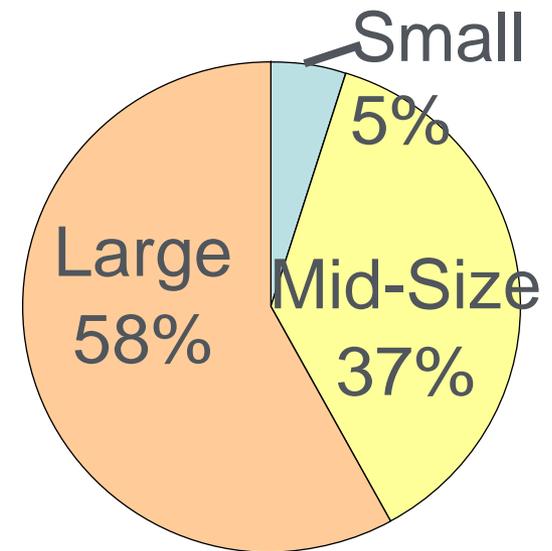
Assessments:

- *Always have had a Training component*
- *Industrial Assessment Centers*
 - *A long, proud history over 30+ years*
 - *Serving medium and small facilities*
- Large Assessments since 2006
 - Plant-wide assessments previously
- *Getting DOE Energy Tools into the marketplace*
- *Stimulates future privately-funded assessments*

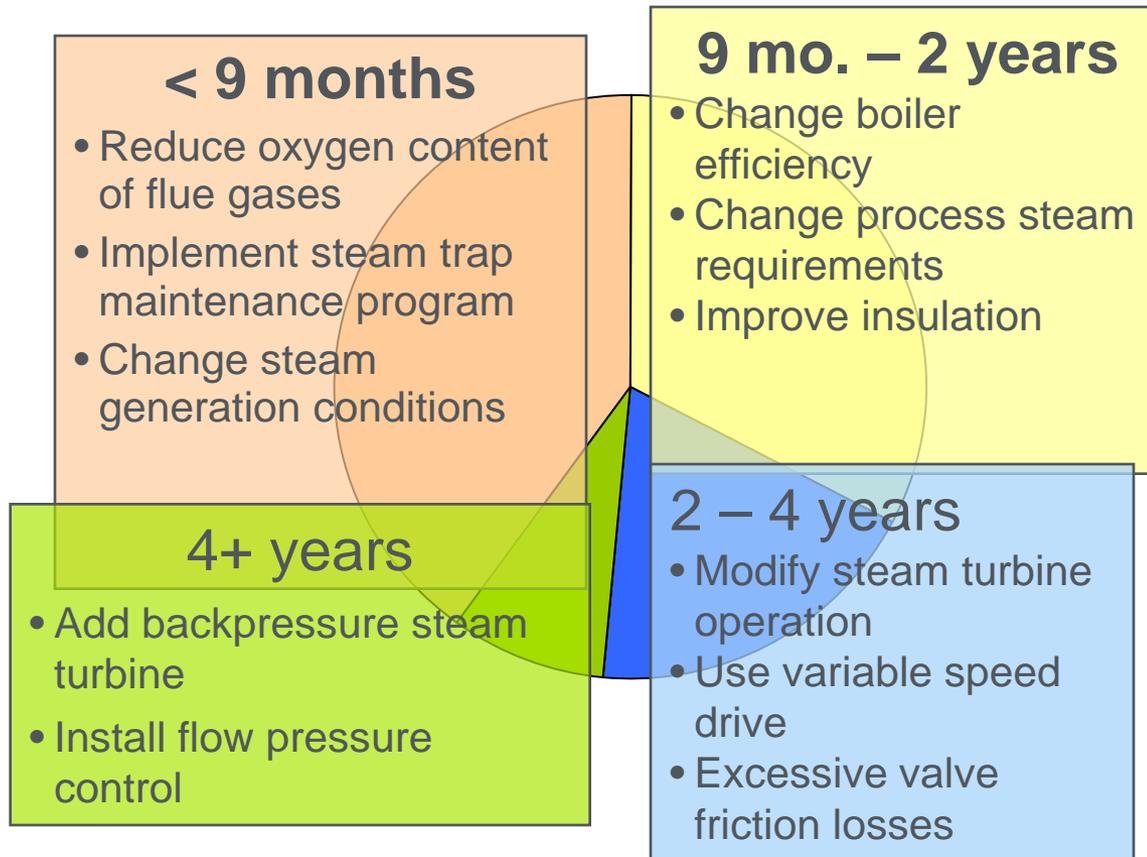
U.S. Manufacturing Plants: By Size



Percent of Total Manufacturing Energy



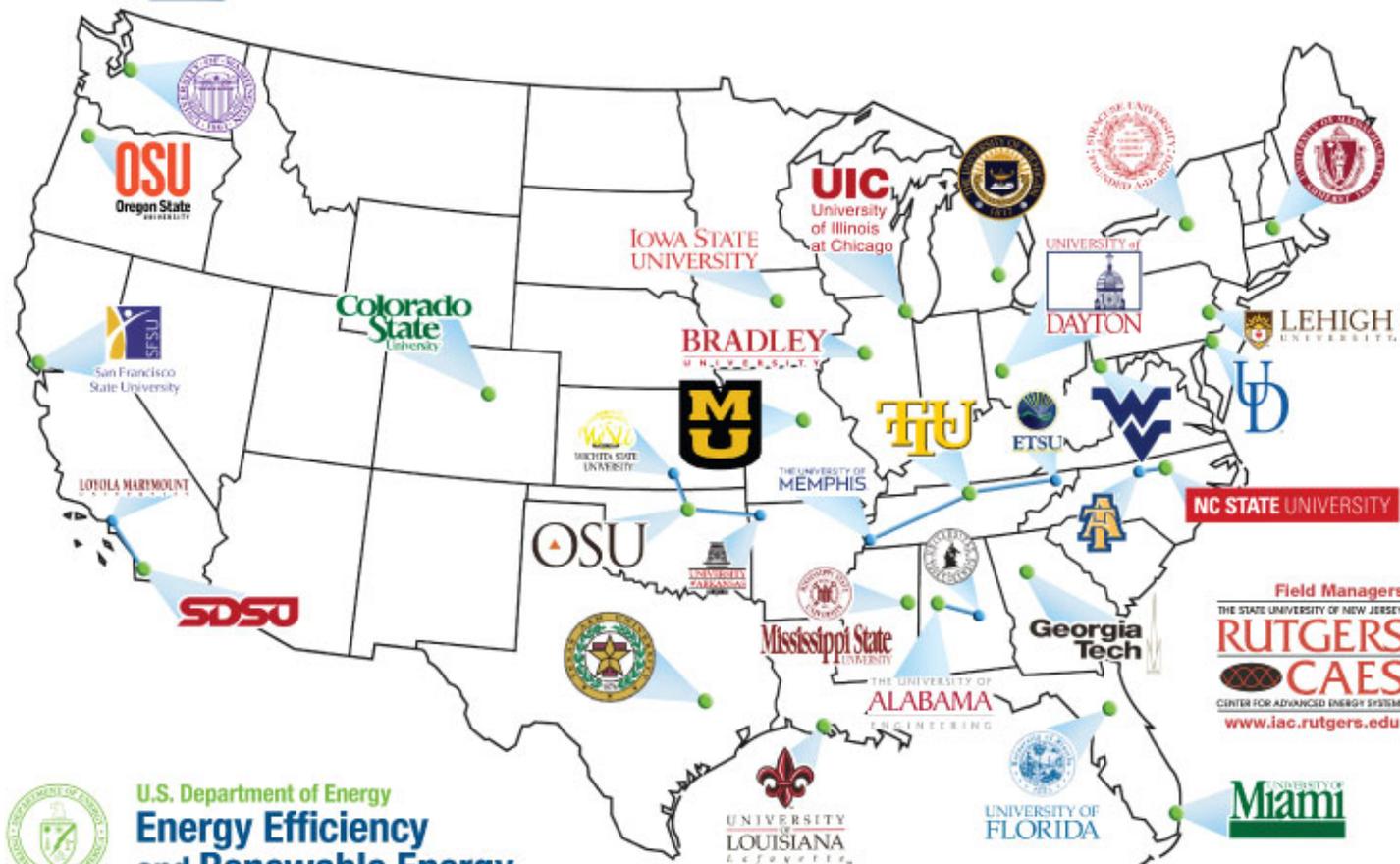
A relatively small number of plants account for large share of energy use.



Estimated Payback Periods for Recommended Actions



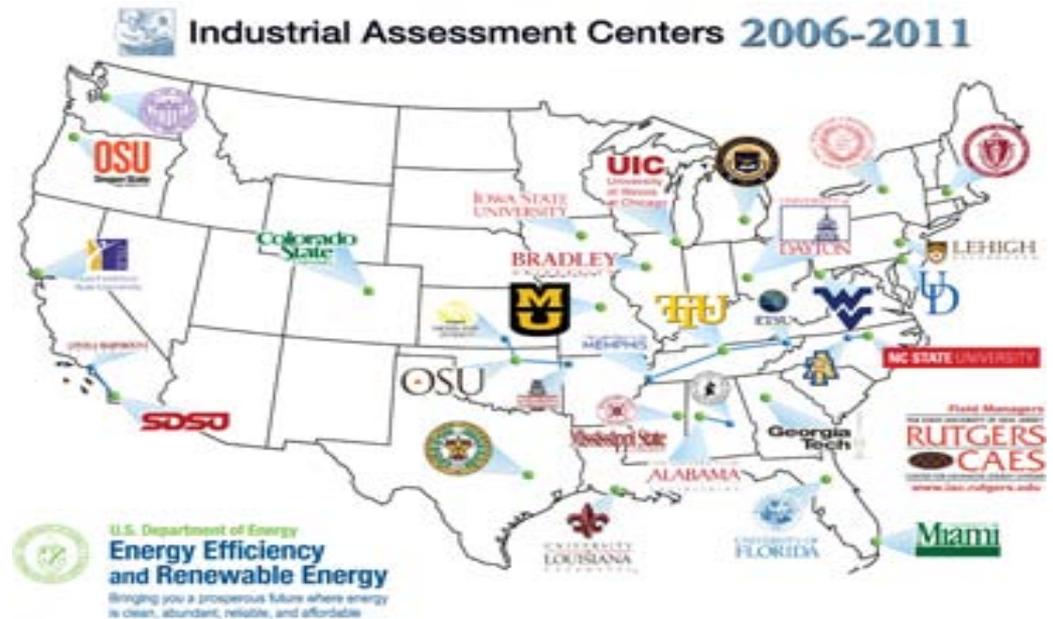
Industrial Assessment Centers 2006-2011



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

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

IACs generally serve 300 plants per year and typically identify savings of 8%-10% or roughly \$115,000/plant



Another interesting and productive year!

- Rutgers awarded as the IAC Field Manager
- Base program funding is expected to increase slightly in FY11
- 13 centers are partners with State Save Energy Now awards
- Recovery Act funds (\$1.8M) awarded to 15 centers in FY10

What's Ahead

- Recovery Act work to be completed mid-2011
- Solicitation in FY11 to re-compete the IAC awards

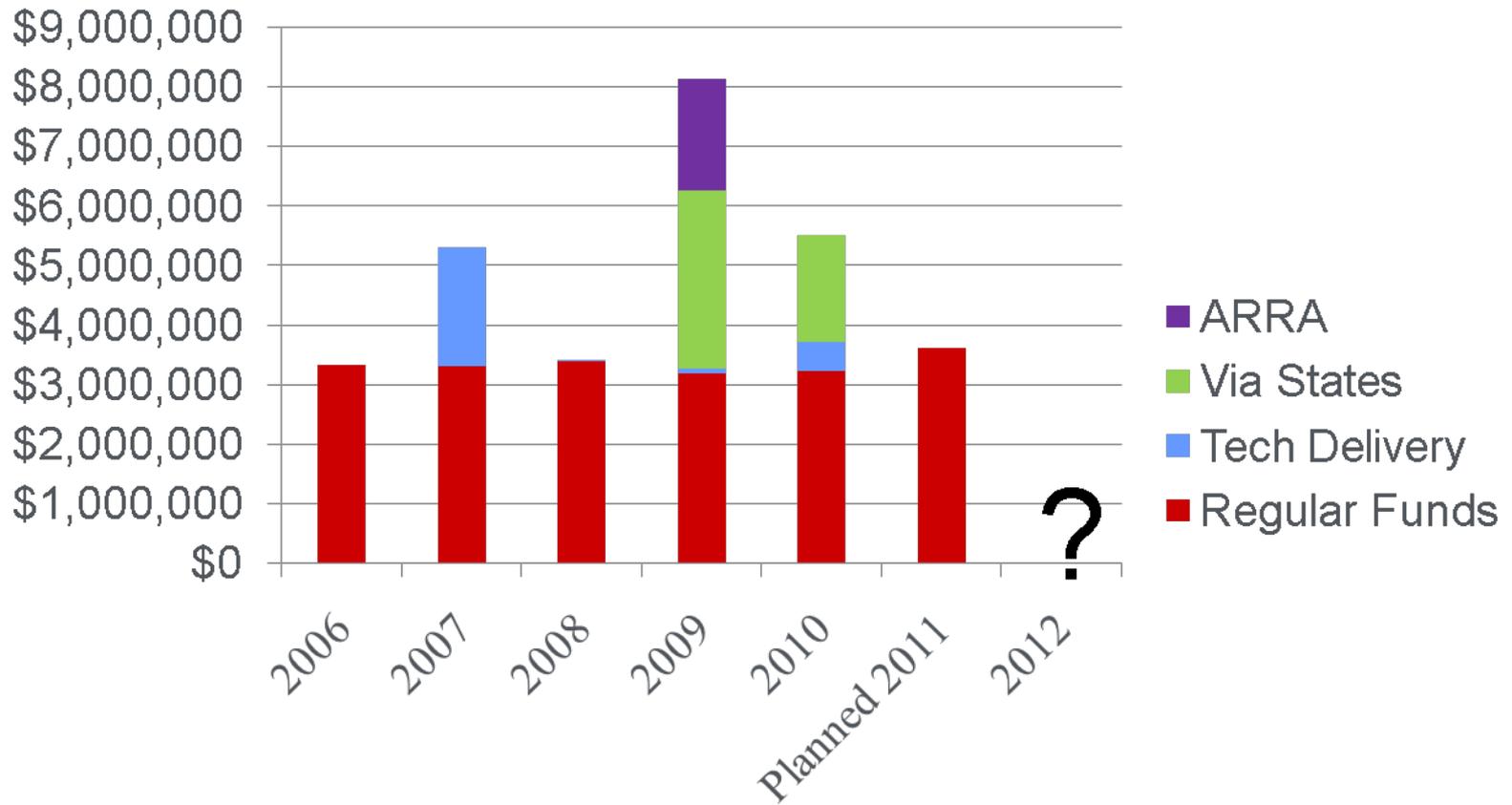


Center Statistics as of 1/25/11

- Regular Work
 - 79/397 assessment days completed (20%)
- ARRA Work
 - 118/170 assessments completed
 - (69%) **Excellent!**
 - 2 Centers 100% complete
 - 7 additional Centers at 70% or more complete
- Implementation
 - Currently, there are 60 late Implementation Reports for FY10 and 24 late reports for FY09 – **Need to work on this!**
 - Implementation is KEY



IAC Program Funding



Cumulative **Identified** Savings (2006 to Present)

With 1,781 plants reporting

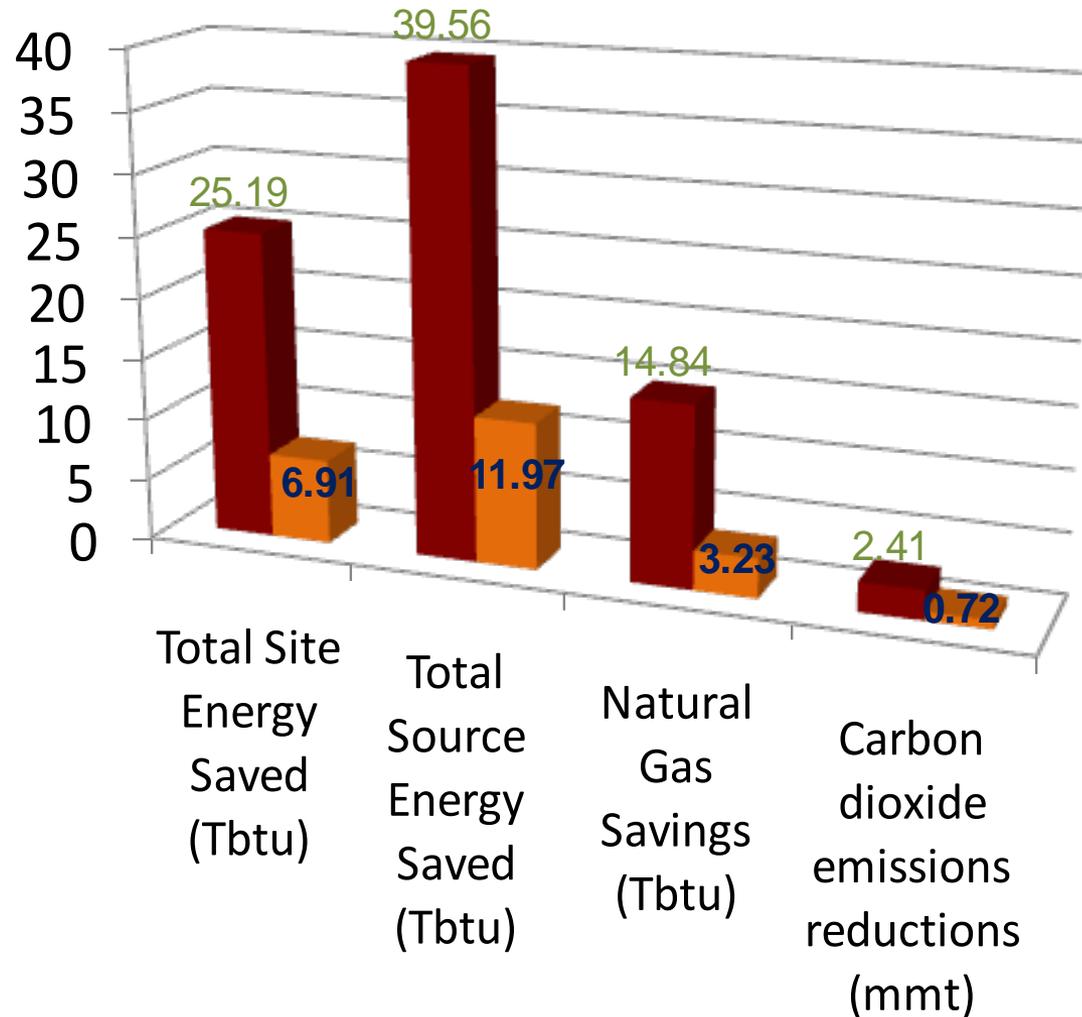
- 25.19 trillion Btu of total site energy savings
- 39.56 trillion Btu of total source energy savings
- \$287.00 million worth of potential energy savings
- \$79.10 million worth of potential non-energy savings
- 14.84 trillion Btu of potential Natural Gas savings
- 2.41 million metric tons of potential carbon dioxide emissions reductions

Cumulative **Implementation Savings** (2006 to Present)

With 1,505 plants reporting

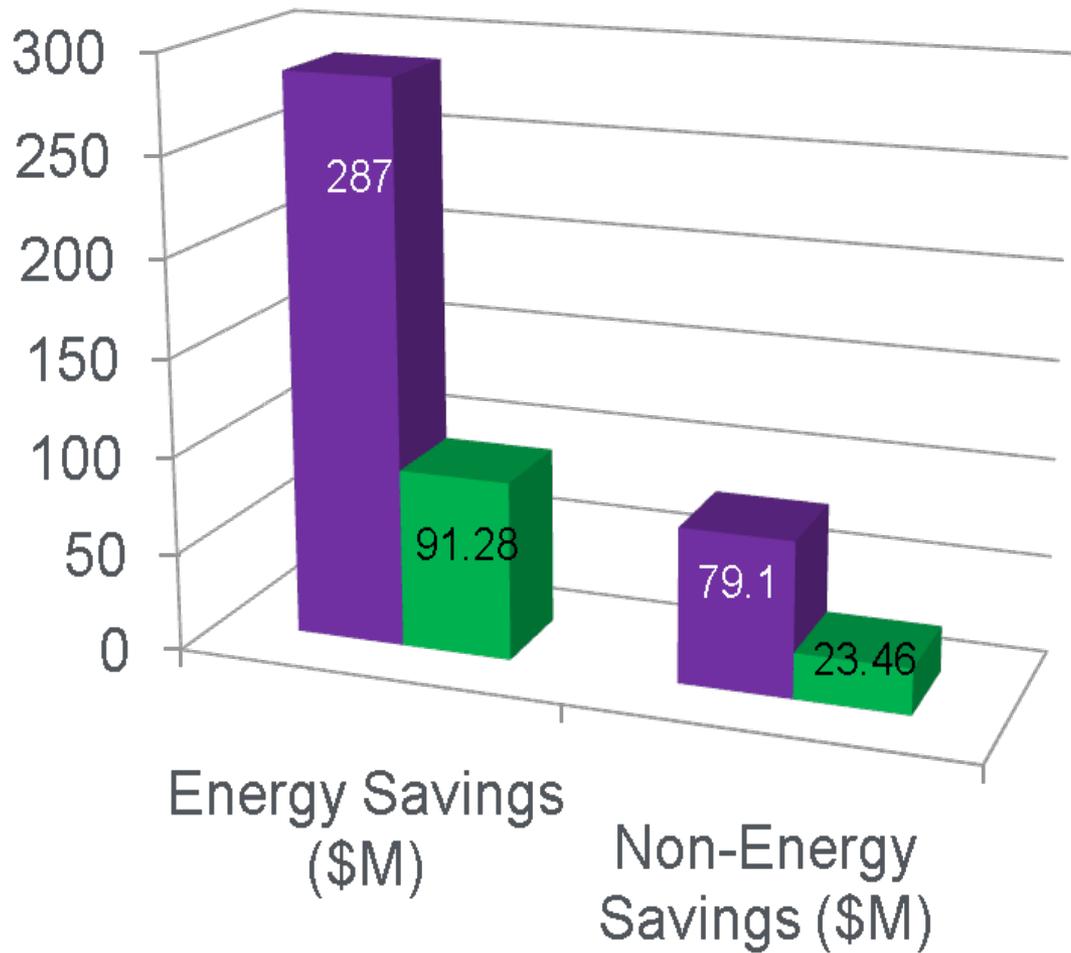
- 6.91 trillion Btu of total site energy savings has been fully implemented
- 11.97 trillion Btu of total source energy savings has been fully implemented (**equivalent to 1.8 million barrels of oil**)
- \$91.28 million worth of potential energy savings has been fully implemented
- \$23.46 million worth of potential non-energy savings has been fully implemented
- 3.23 trillion Btu of Natural Gas savings has been fully implemented
- 0.72 million metric tons of potential carbon dioxide emissions reductions has been fully implemented

Metrics – Energy Savings (2006 to Present)



- Identified Savings (1,781 Plants Reporting)
- Implementation Savings (1,505 Plants Reporting)

Metrics – Financial Savings



- Identified Savings
(1,781 Plants Reporting)
- Implementation Savings
(1,505 Plants Reporting)

Cumulative **Identified** Savings (2010 to Present)

With 93 plants reporting

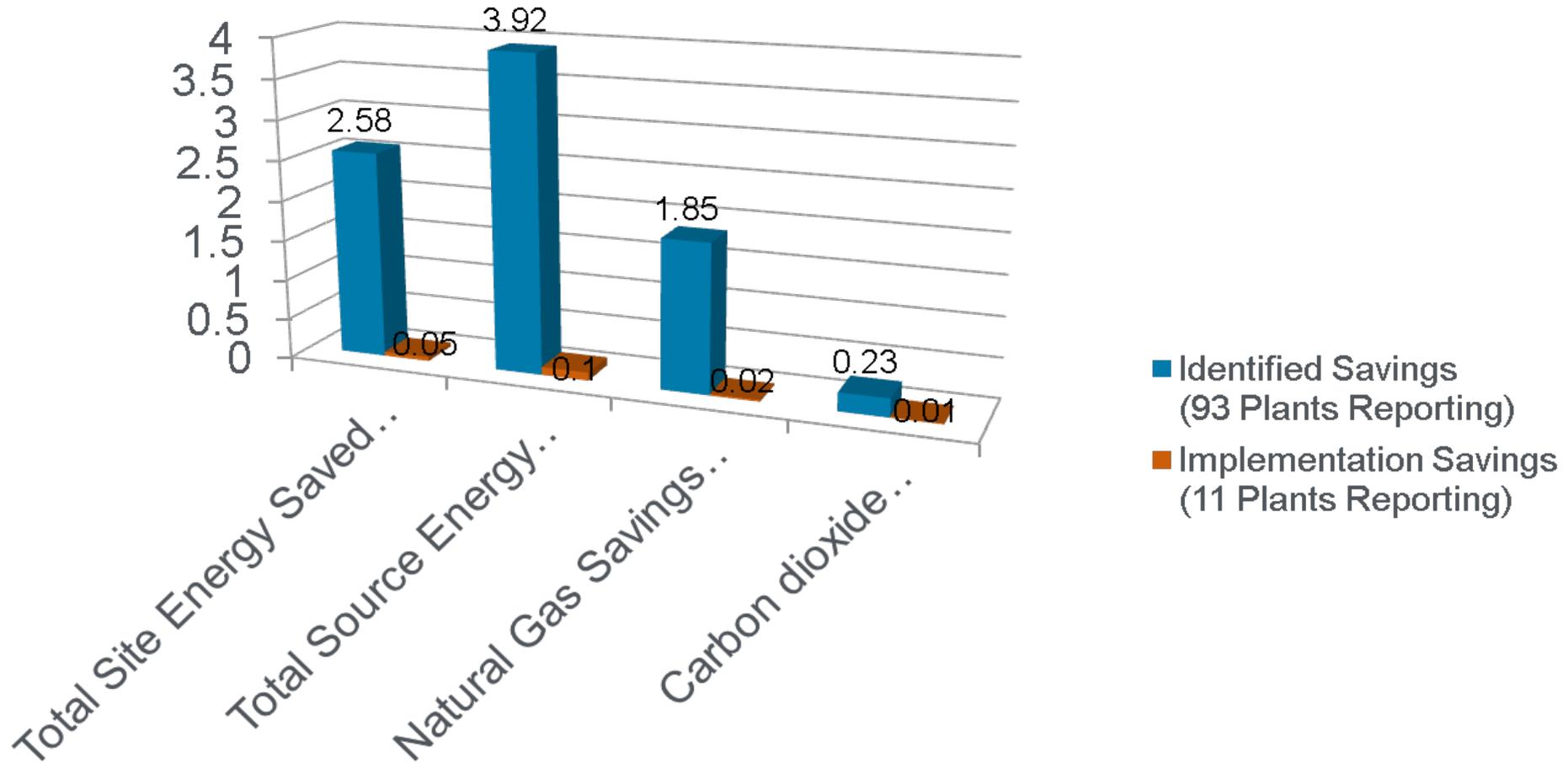
- 2.58 trillion Btu of total site energy savings
- 3.92 trillion Btu of total source energy savings
- \$25.86 million worth of potential energy savings
- \$8.39 million worth of potential non-energy savings
- 1.85 trillion Btu of potential Natural Gas savings
- 0.23 million metric tons of potential carbon dioxide emissions reductions

Cumulative **Implementation Savings** (2010 to Present)

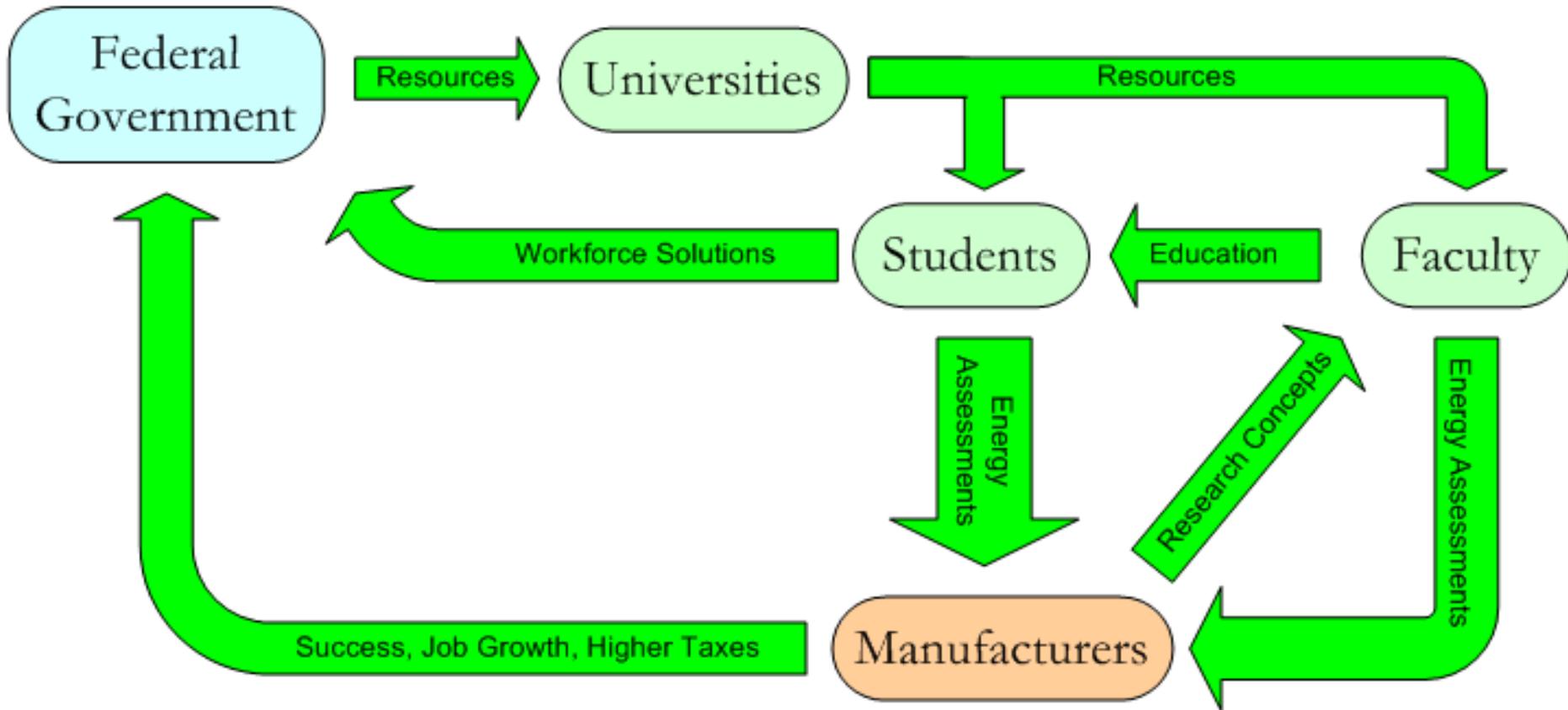
With 11 plants reporting

- 0.05 trillion Btu of total site energy savings has been fully implemented
- 0.10 trillion Btu of total source energy savings has been fully implemented
- \$0.91 million worth of potential energy savings has been fully implemented
- \$0.03 million worth of potential non-energy savings has been fully implemented
- 0.02 trillion Btu of Natural Gas savings has been fully implemented
- 0.01 million metric tons of potential carbon dioxide emissions reductions has been fully implemented

ARRA Metrics – Energy Savings



IACs...Who benefits?



The Government gets....

- Workforce development
- Energy savings
- Reduced carbon footprint
- Environmental improvements
- Jobs creation
- Healthier Businesses

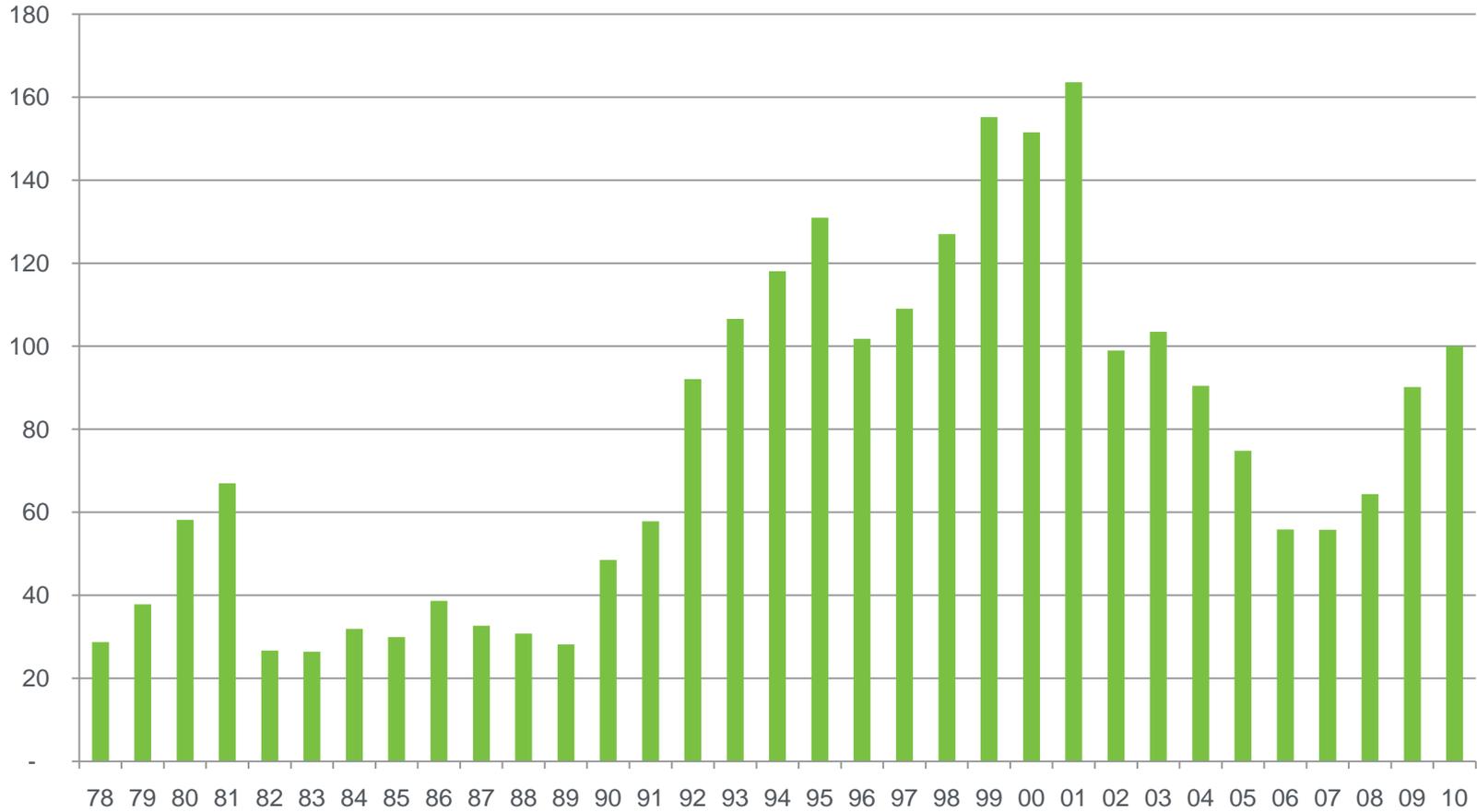


Industry gets.....

- Reduced energy costs
- Increased profits
- Pathway for continuous improvement
- Carbon savings
- Compare their energy intensity to other companies
- Enhanced community relations



ITP Funding History

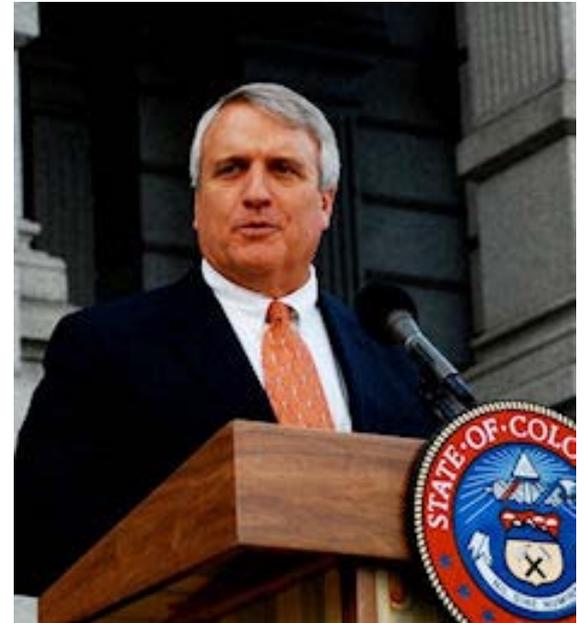


ITP funded 28 projects

- 12 awards are 3-year (about halfway thru)
- 16 are ARRA awards

Achievements to Date:

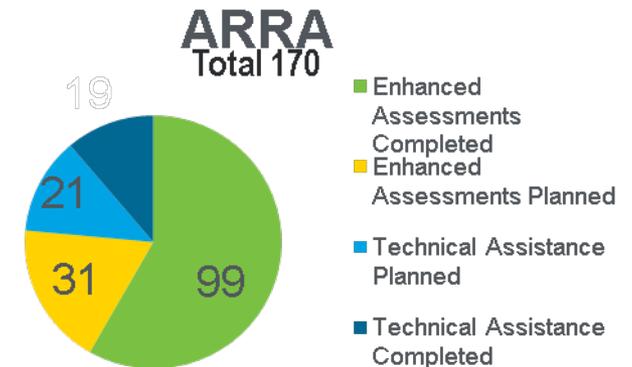
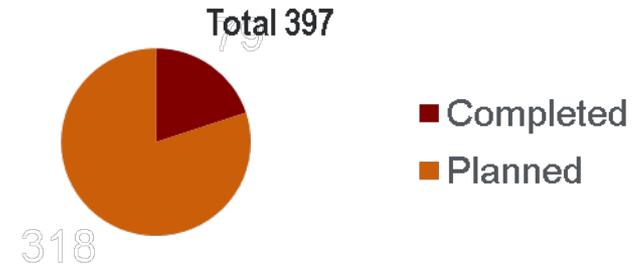
- Assessments: 283
- Training: 388 trainings, 2150 people
- 12 states doing SEP pilots
- 10.1 million Btu's of identified savings



IACs Additional Activities and Status

Center	Base	ARRA	State
Texas A&M, College Station	X	X	
Bradley University	X	X	
Colorado State University	X		X
University of Delaware	X	X	
Georgia Institute of Technology	X	X	X
Iowa State University	X		
University of Illinois, Chicago	X		X
Lehigh University	X	X	
University of Louisiana, Lafayette	X	X	X
University of Massachusetts	X		X
University of Miami	X		
Mississippi State	X	X	X
University of Missouri-Columbia	X		
North Carolina State	X	X	X
Oklahoma State University	X	X	
Oregon State University	X		
San Diego State University	X	X	
San Francisco State University	X		
Syracuse University	X		X
Tennessee Tech University	X	X	
University of Alabama	X	X	X
University of Dayton	X	X	
University of Florida	X		X
University of Michigan	X	X	X
University of Washington	X		
West Virginia University	X	X	X
Rutgers	X		X

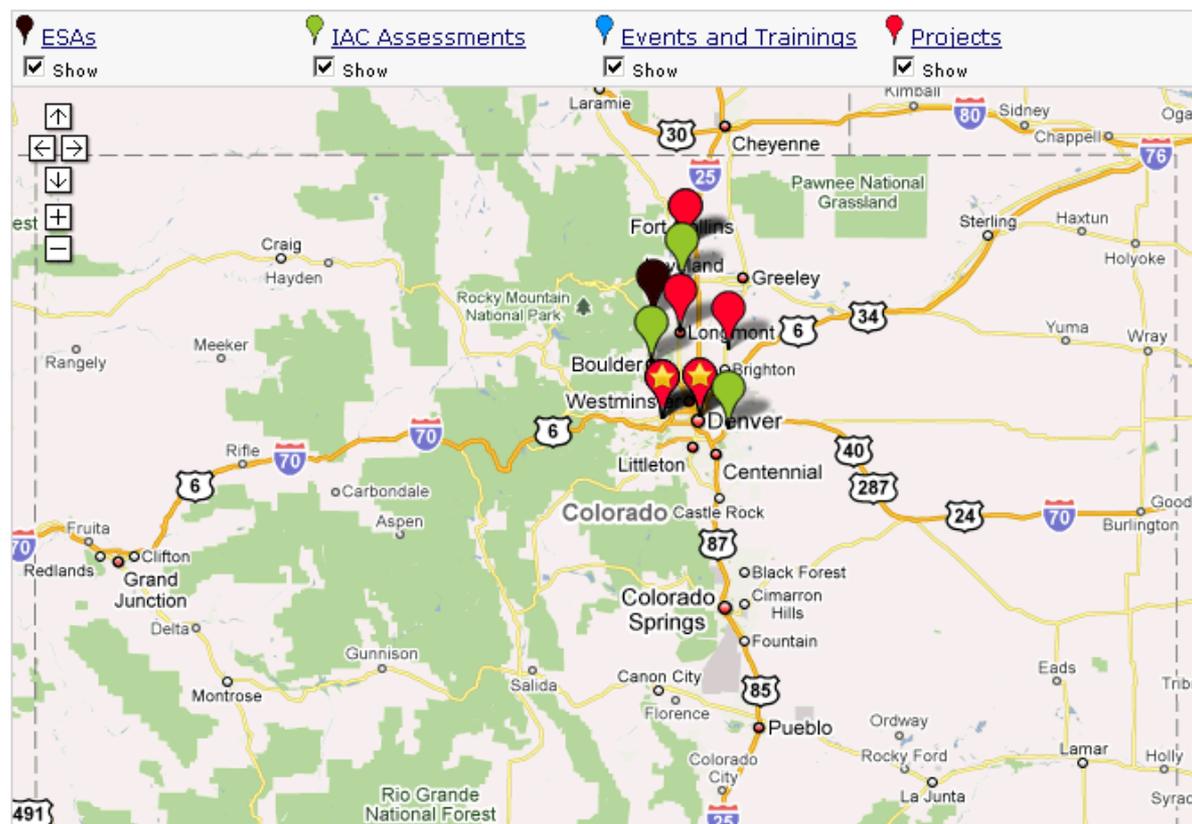
Base Assessments



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: [Back to full map](#)



- Energy Savings Assessments
- Industrial Assessment Centers
- Events and Training
- ITP Partner Projects including details and project successes

Thanks for all your hard work!

Questions?

