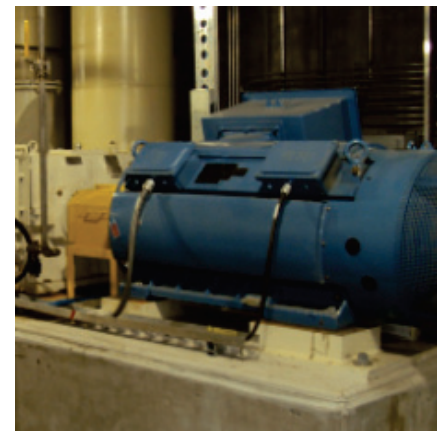
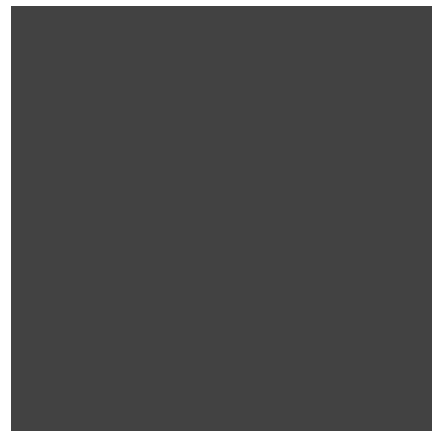




NASEO

National

Association

of State Energy Officials

Industrial Energy Efficiency: State Perspectives



January 2012

About NASEO

- Only national non-profit organization whose membership includes the 56 governor-designated energy officials from each state and territory
- Improve the effectiveness of state energy programs and policies
- Seven Regional Coordinators across the nation to aid in sharing lessons learned for successful policy and program replication
- Act as a repository of information on issues of particular concern to the states and their citizens (e.g., financing, buildings, industrial, transportation)
- Committee structure includes, Renewables, Electricity, Buildings, Industry, Energy Assurance, Financing, Government Affairs
- Serve as the voice of SEOs in Washington, DC



Presentation Overview

- National Initiatives
- NASEO's Approach
- SEO Funding for Industrial Efficiency
- NASEO Databases
- State Examples
- Results



+National Initiatives

- Release of ISO 50001: *Energy Management Systems*
 - Framework for organizations to incorporate energy performance into their management practices
- Superior Energy Performance
 - Certification program for industrial & commercial facilities
 - Requires implementation of ISO 50001 +
 - Currently – 23 pilot projects across the US
 - First set of pilot projects in TX supported by the TX State Energy Office achieved certification early last year
 - Achieved 6.5 – 17% energy performance improvements over 3 years
- Industry included in DOE's Better Buildings Initiative
 - Goal to upgrade 1.6 billion sq. ft. in commercial and industrial space
 - Could include more than 300 manufacturing plants
- Transition from DOE ITP to AMO
 - New program manager: Dr. Leo Christodoulou

+ NASEO's Approach

- Nearly every SEO operates industrial and manufacturing programs
 - Retooling, advanced manufacturing, competitiveness
- Many SEOs work with DOE's AMO
 - ~ \$22 million for Save Energy Now programs
- NASEO's Industrial Committee
- NASEO partners with industry, DOE, ACEEE and others
 - Focuses on policy and industry challenges
 - Supports projects that promote job growth in the states
- Enhanced cooperation among SEOs and state research institutions.

*The Committee will be convening at the 2012 NASEO/ASERTTI Energy Outlook Conference
"Modernizing U.S. Buildings and Energy Infrastructure"*

www.energyoutlook.naseo.org

+ NASEO's Approach (Cont'd)

SEE Action Network: Industrial Energy Efficiency and Combined Heat & Power Working Group

- Co-chair: Todd Currier, Washington States University Extension Energy Office
- Co-chair: Greg White, Michigan Public Service Commission
- Focus on manufacturing sector
- End Goals:
 - Achieve a 2.5% average annual reduction in industrial energy intensity through 2020
 - Install 40 GW of new, cost-effective CHP by 2020.
- First-year Goals:
 - Achieve 0.5% reduction in industrial energy intensity
 - Install 2 GW of new, cost-effective CHP.



Key Drivers: Economic Development

- **Michigan** - *Pure Michigan Business Connect*
- **Ohio** - *Ohio Third Frontier*
- **Tennessee** - Jobs4TN/INCITE
- **California** - California Infrastructure & Economic Development Bank
- **Florida** - Enterprise Florida
- **Idaho** - Project 60
- **Maryland** - Invest Maryland
- **Texas** - Texas Enterprise Fund
- **Virginia** - Commission on Economic Development and Job Creation



State Energy Program (SEP): Funding

- **\$125 million** authorized by Congress
- **Under ARRA, an additional \$3 billion was allocated to SEOs.**
 - 100% of these funds are under contract for state-selected projects.

Each \$1 of SEP funding:

- Annual savings of 1.03 million source BTUs
- Cost savings of \$7.22
- Leverages \$10.71 of state & private funds



Industrial Efficiency: Funding

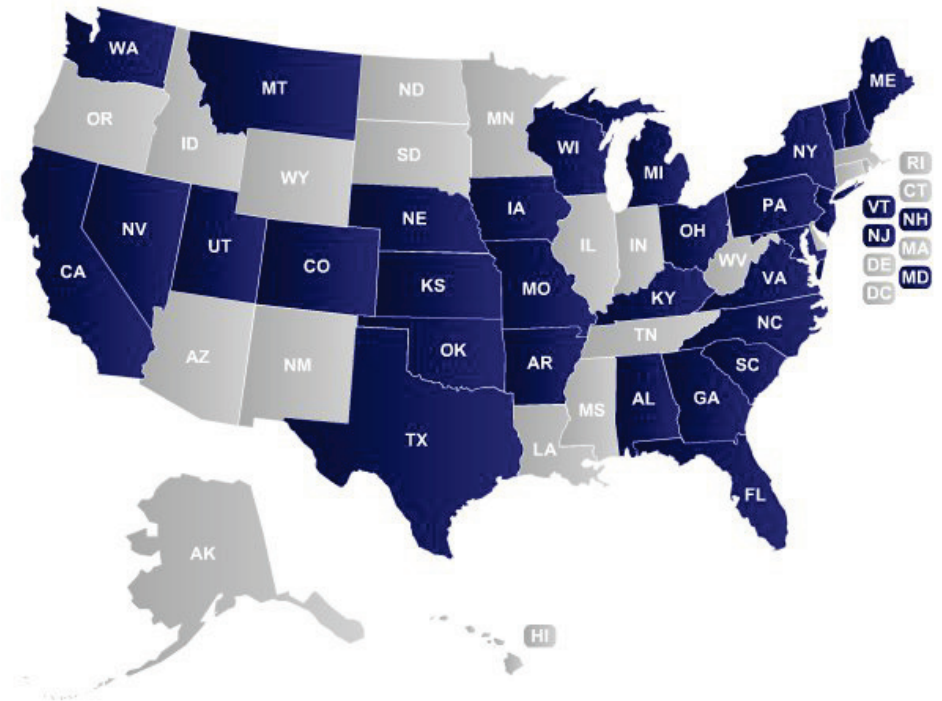
Data from NASEO's paper, "State and Industry Partnerships: Advancing U.S. Industrial Competitiveness Through Energy Efficiency and Advanced Energy Technology Investments"

- **~\$870 million total** funds for industrial efficiency through SEOs
- **\$456 million from state funding sources:**
 - Systems benefit charges
 - State appropriations
 - Proceeds from greenhouse gas credit sales
 - Public bond financing initiatives
- **\$345 million from federal funds**
 - Of this, \$280 million from ARRA
- **\$70 million from other sources**
 - Utilities
 - Universities

+ Databases:

NASEO State Energy Loan Fund (SELF)

- 34 states
- 66 funds
- Over \$925,000,000 in state energy revolving loan funds
 - Includes \$364 million for industrial financing programs
- Contains Information on:
 - Funding sources
 - Fund size and focus
 - Web links
 - Contact information

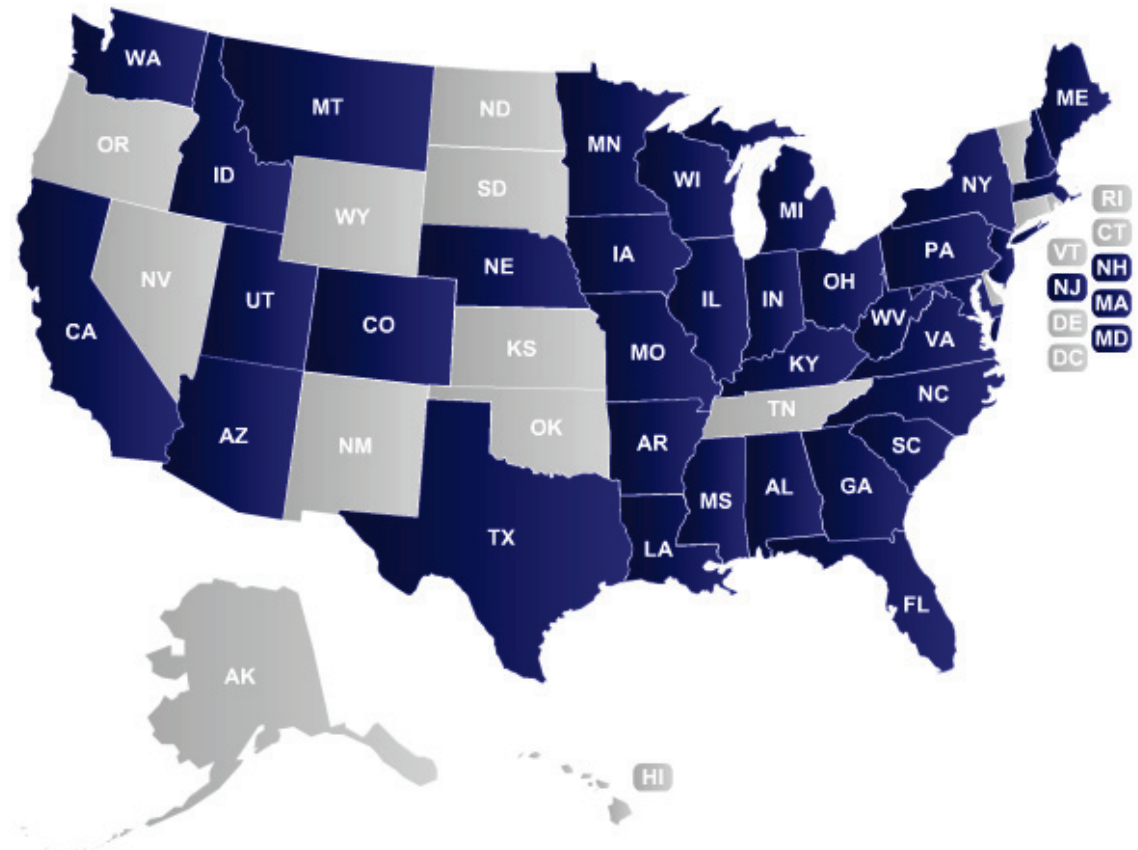


<http://www.naseo.org/resources/selfs>



Databases: State Energy Programs for Industry

Data on 35 SEO
administered
energy programs
for manufacturers
and the industrial
sector





State Example: Minnesota

	Funding Level	Type of Assistance	Eligible Sectors
Implementing an Ind. EE Program in MN	\$922,252	Audits, TA	Industrial
Emerging Renewable Energy Industries Grant	\$4,000,000	Grants	Industrial
Energy Efficiency RLF	\$10,000,000	Financing	Ind. & Comm.*
Energy Programs in C & I Buildings	\$4,100,000	Grants	Ind., Comm.*, Public

*excludes non-profits

Total Funding: \$19,022,252



State Example: Michigan

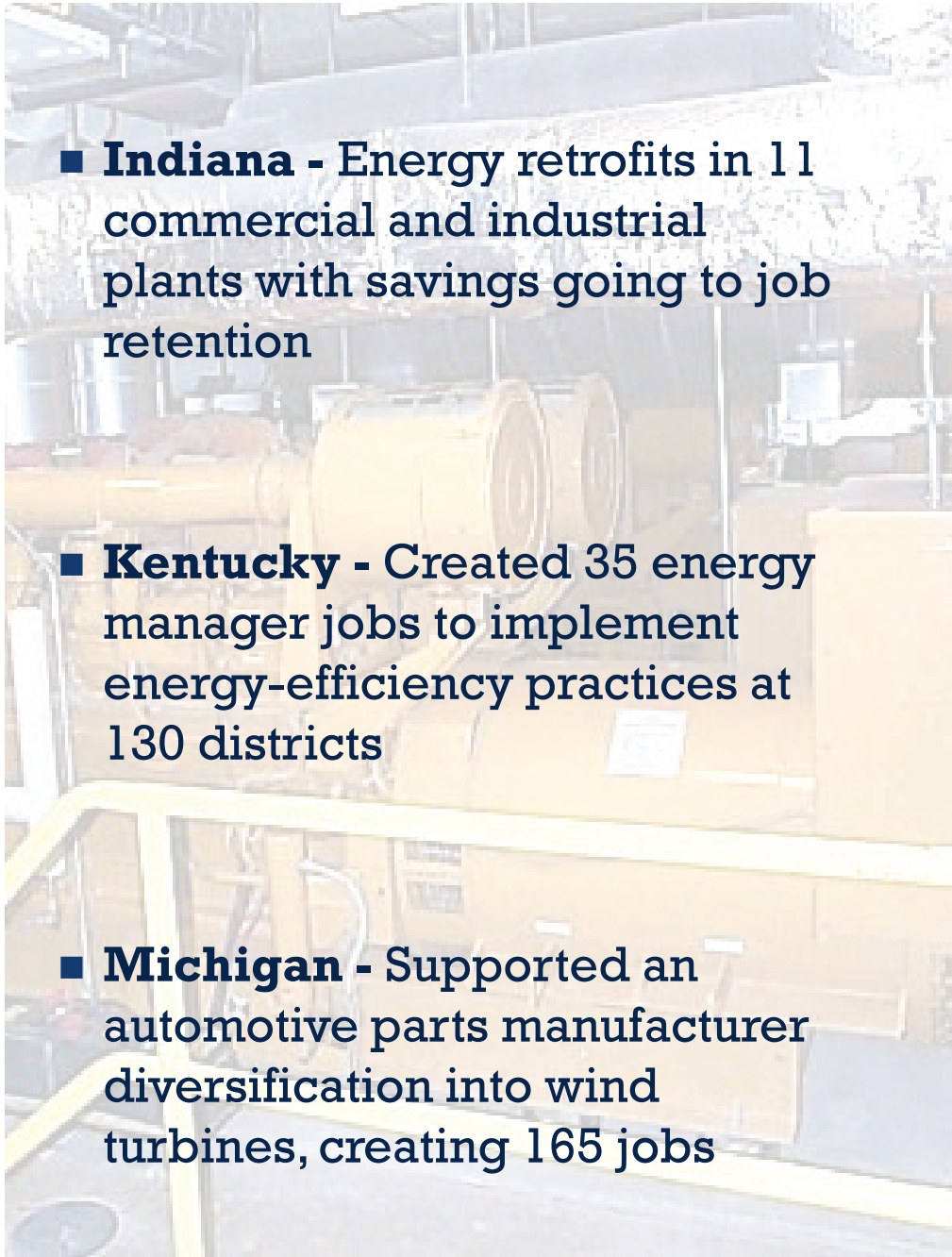
	Funding Level	Type of Assistance	Eligible Sectors
MI Regional Delivery of SEN Program	\$830,550	Audits, TA	Industrial
Clean Energy Advanced Manufacturing	\$49,380,000	Grants, Financing	Industrial
Retired Engineer TA	\$1,000,000	Audits, TA	Ind., Comm.*, Public
EE Technology Demonstration	\$1,750,000	Grants	Industrial & Public

*excludes non-profits

Total Funding: \$52,960,550



Results: Industrial Sector at Work

- 
- A faded background image of an industrial facility, showing large yellow pipes, machinery, and structural elements.
- **Indiana** - Energy retrofits in 11 commercial and industrial plants with savings going to job retention
 - **Kentucky** - Created 35 energy manager jobs to implement energy-efficiency practices at 130 districts
 - **Michigan** - Supported an automotive parts manufacturer diversification into wind turbines, creating 165 jobs



NASEO Staff

- David Terry, Executive Director
- Jeff Genzer, General Counsel
- Kate Marks, Managing Director
- Donna Brown, Director of Accounting and Administration
- Bill Nesmith, Senior Advisor
- Chuck Clinton, Senior Advisor
- Maurice Kaya, Senior Advisor
- Jeff Pillon, Director – Energy Assurance Programs
- Shemika Spencer, Grants and Programs Manager
- Julia Friedman, Program Manager
- Diana Lin, Program Manager
- Garth Otto, Project Manager
- Chris Wagner, Project Manager



NASEO Regional Coordinators

- Chuck Clinton, Regional Coordinator – Mid Atlantic
 - Chuck Guinn, Regional Coordinator – Northeast
 - Brian Henderson, Regional Coordinator – Southeast
 - Jeff Pillon, Regional Coordinator – Midwest
 - Jim Ploger, Regional Coordinator – Central
 - Jim Arwood, Regional Coordinator – Southwest
 - Bill Nesmith, Regional Coordinator – Northwest
-



Thank you!

David Terry, Executive Director
NASEO
dterry@naseo.org

