

STATES INDUSTRIES OF THE FUTURE



**FEDERAL/STATE/INDUSTRY
PARTNERSHIPS FOR A
SUSTAINABLE TECHNOLOGY EDGE**



**Office of Industrial Technologies
Energy Efficiency and Renewable Energy
U.S. Department of Energy**

INDUSTRIES OF THE FUTURE

The Office of Industrial Technologies (OIT), through partnerships with industry, government and non-governmental organizations, develops and delivers advanced energy efficiency, renewable energy and pollution prevention technologies for industrial applications. OIT is part of the Department of Energy's Office of Energy Efficiency and Renewable Energy.

OIT encourages industry-wide efforts to boost resource productivity through a strategy called Industries of the Future. Industries of the Future focuses on the following nine energy- and resource-intensive industries:



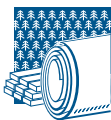
AGRICULTURE



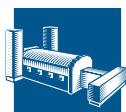
ALUMINUM



CHEMICALS



FOREST PRODUCTS



GLASS



MINING



METALCASTING



PETROLEUM REFINING



STEEL

OIT works to provide a broad array of products and services to industrial customers—from the shop floor, to labs, to the executive suite. We try to deliver a portfolio of productivity-enhancing products, services and emerging technologies to the right people, in the right amount to meet their needs.

WHAT IS THE STATES INDUSTRIES OF THE FUTURE PROGRAM?

Led by state governments, industries within the state, and other state organizations, states are using Industries of the Future Visions and Roadmaps to mobilize energy-intensive industries, and conducting a variety of activities to deploy advanced industrial technologies. The States Industries of the Future program is designed to focus implementation of Industries of the Future in individual states and regions, to provide entree to national visioning, roadmapping and partnership activities, and to support state efforts with OIT products and services.

A TYPICAL STATE APPROACH

- ✓ Establish state team and target industries
- ✓ Build industry interest and leadership
- ✓ Determine business and technology needs
- ✓ Develop partnerships and action plans
- ✓ Implement priority projects

WHAT'S IN IT FOR YOUR STATE?

- ✓ Foster industry growth and create new jobs
- ✓ Build alliances among key industries in the state
- ✓ Help state businesses compete more successfully for national resources
- ✓ Work with industry to solve environmental issues
- ✓ Improve efficiency of resource use

OIT PRODUCTS AND SERVICES



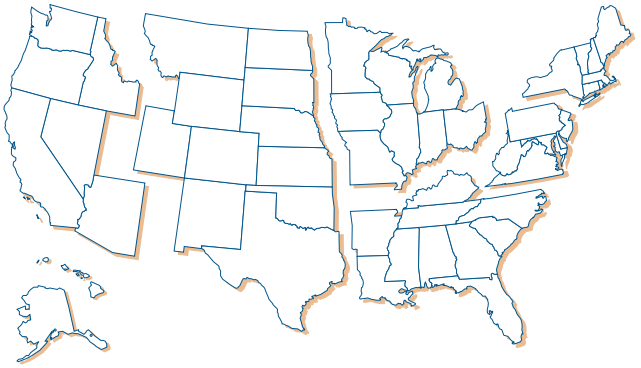
SELECTED OIT TOOLS

- ✓ Database and project locator of 8,000 industry-related projects throughout the Federal government
- ✓ Source book of financing techniques and case studies to aid in securing financial resources for technology improvements
- ✓ Software to help manufacturers improve performance and product selection for motors, adjustable speed drives and pipe insulation
- ✓ Inventory of manufacturing-related assistance organized by state
- ✓ Descriptions of commercially-available and emerging technologies that OIT has partnered in development
- ✓ Handbooks, workbooks, training manuals and fact sheets on a wide variety of industrial topics
- ✓ Catalog of information resources describing all OIT products and services

PROJECTS

In 1998, 17 states received 22 awards for industry-related projects under the State Energy program.

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| Alabama | Establish state forest products and chemical industry steering committees to promote adoption of national industry visions through an outreach campaign including a state-wide technology symposium |
| California | Focus state Industries of the Future (IOF) programs with the petroleum refining, chemicals, pulp and paper, and glass industries; work with stakeholders to overcome barriers in the use of combined heat and power (CHP) in California and to stimulate CHP market activity |
| Georgia | Conduct several conferences to educate the forest products, chemical, rubber and plastics, and carpet industries on state-of-the-art and emerging manufacturing technologies that will result in reduced energy consumption and improved environmental performance; accelerate deployment of efficient motors to Georgia municipal water pumping industry |
| Indiana | Identify Combined Heat and Power (CHP) opportunities within Indiana and work with industries to establish feasibilities and potential benefits |
| Iowa | Conduct regional technology workshops to promote motor systems and compressed air systems efficiency, use of adjustable speed drives and pollution prevention |
| Louisiana | Form an Industries of the Future steering committee for the chemicals industry and initiate the development of a Louisiana technical Roadmap through a statewide conference |
| Maine | In addition to distributing Industries of the Future information to state industries, the Maine Environment and Energy Center in partnership with the Maine Manufacturing Extension Partnership, is assessing the energy efficiency of the secondary wood products industry and plans to conduct a pilot cogeneration project |
| Michigan | Develop a prototype for state IOF program. Familiarize participants with products and opportunities developed by the National IOF effort through statewide meetings and workshops |
| Montana | Implement forest and wood product Roadmap in concert with Montana state industries |
| New York | The New York State Energy Research and Development Authority (NYSERDA) is conducting "Industrial Technology Blueprinting" for the state's glass/ceramics, forest products, and metal products finishing industries. In addition, NYSERDA delivers "Motor Challenge" technical assistance to its customers |
| North East Regional Industrial Collaborative | Collaborative of New England States led by the New York State Energy Research and Development Authority (NYSERDA) which holds regional forums to coordinate state participation and sponsors cross-cutting technical assistance for its industries in combined heat and power, utility restructuring, motor, steam, and compressed air systems |
| Ohio | Conduct meetings and workshops on improving motor-driven system efficiencies. Establish Ohio chemical industry collaborative, holding regional meetings in Cleveland and Cincinnati culminating in chemical IOF conferences. |
| Tennessee | Establish state IOF program, initially focusing on one industry; develop industry/National Lab/academia network to promote energy efficiency through demonstrations, seminars and publications |
| Vermont | To introduce CHP and renewable energy technologies to its industries, the state is sponsoring CHP workshops and developing a Fuel Market Assessment Guide to promote biomass energy development efforts |
| Virginia | Form Energy Management Partnership to provide participating companies with training, energy surveys and technical support |
| Washington | Initiate state IOF programs with small- to medium-sized industries in the chemicals/agriculture by-products, forest products/bio-products, metal casting and glass industries. Develop software tool for sizing and siting Combined Heat and Power units |
| West Virginia | Continue state IOF program and expand from five to seven industries—new industries are metal casting and coal mining |
| Wyoming | Initiate state IOF in forest products industries focusing on deploying energy efficient technologies through technical assistance and training |



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Additional Resources:

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