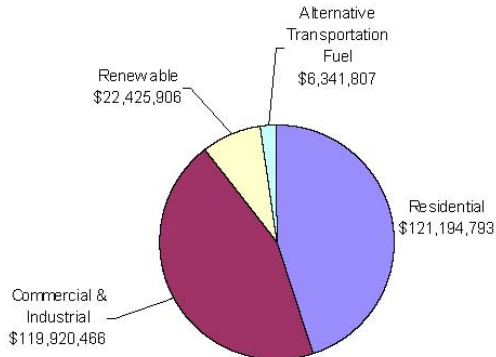


<http://www.doa.state.wi.us/energy/>

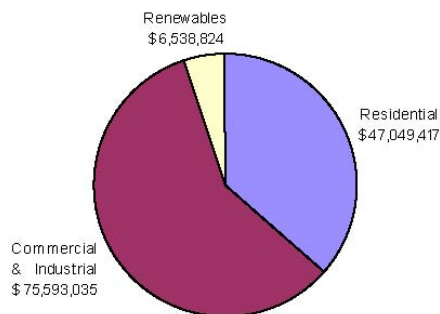
## Overview of Programs for the Wisconsin State Energy Office (SEO) 2001-2006



**2001-2006 Energy Efficiency Project Costs**



**2001-2006 Energy Savings in Dollars**



### Residential Programs

The SEO has utilized an integrated approach to advancing quality and energy efficiency in residential single and multifamily buildings beyond current market capabilities with existing and cutting-edge technologies and techniques. ENERGY STAR products and programs are promoted throughout the residential program.

**Building America** – Working with builders to build a more sustainable home that minimizes the use of resources both inside and out.

**Multifamily** – Researching test protocols to develop new standards for ENERGY STAR multifamily buildings. This information carries over to the Weatherization program.

**Building Codes** – Working with stakeholders to ensure State Building Codes are updated and looking for new ways to improve how we implement the state building energy code program.

**Focus on Energy** – Statewide residential energy efficiency program. Since 2001, these activities have saved over 358 million kWh, 54 thousand kW, and 8.1 million therms resulting in \$ 47 million savings.

### Commercial / Industrial Programs

**State Facilities** – The Governor set goals for state buildings to use 20% of their energy from renewable sources by 2011 and reduce energy consumption by 20% by 2010. To demonstrate the energy savings potential, the SEO began installing even higher efficiency lighting and other equipment into state facilities.

**Schools** - Provide technical assistance and incentives to help hundreds of schools each year implement energy-saving projects from lighting to boiler replacement.

**Energy Star / Commercial Lighting** - Produced case studies of low-cost ENERGY STAR lighting demonstrations in the State Capitol building and university student union.

**Travel Green Wisconsin** - Partnered with Department of Tourism to develop a green operations checklist and recognition program for tourism businesses in the state. Forty businesses have participated in the pilot phase and now the program will be promoted state wide.

**Small Businesses** - Promote energy efficient equipment demonstrations and provide incentives to promote installation in this hard-to-reach sector.

**Focus on Energy** – A statewide energy efficiency program working with the business community to find ways to better manage their natural gas usage and reduce their electricity consumption. To date they have saved over 534 million kWh, 99 thousand kW, and 37 thousand therms resulting in \$ 75

million savings.

## **Renewable Energy Program**

**Wind** – Developing model ordinances to assist local government to site large wind farms in their areas.

Supporting the certification of small wind machines so consumers can make informed purchasing decisions. Updating the state wind map and monitoring wind speeds around the Great Lakes.

**Solar** – Working with the building community to install photovoltaics and solar hot water in new homes.

**Focus on Energy** – A statewide program offering technical and financial assistance to customers interested in installing renewable energy technologies. Residential solar, commercial hot water, commercial wind and biogas production on the farm are the major technologies targeted in this program. To date, 188 systems were installed resulting in \$6.5 million savings.

## **BioIndustry**

Wisconsin's Bioindustry will utilize traditional and emerging technology to turn organic matter into biofuels, biopower and bioproducts. Wisconsin has a history of creating value added economic opportunities for agriculture and forestry. Looking forward, Wisconsin is positioned to be a national leader in the bioindustry as we build upon our historic strengths.

## **Energy Emergency Planning**

In 2006, Wisconsin's Emergency Management (WEM) Agency requested that SEO become the lead agency in responding to an energy emergency and prepare the Energy Support Function plan (ESF-12). SEO has completed the ESF-12 Plan, as mandated by Homeland Security, and will work with a consultant to update its existing energy emergency plan to provide greater detail on responding to and minimizing energy emergencies that impact Wisconsin.

## **Energy Statistics for Wisconsin**

Each year, SEO prepares an energy statistics publication, providing information on state energy use by fuel type and sector. The report also includes

information on fuel prices, expenditures and a variety of indices to measure how effectively Wisconsin is using energy. For example, between 2000 and 2005, Wisconsin's trend of using energy more efficiently has continued with Total Energy Use per \$1,000 of Gross State Product decreasing by 8 percent. This reflects the progress the state has made in using/promoting increased energy efficiency throughout the Wisconsin's economy.

## **Winter Fuels Summit & Winter Fuels Price Survey**

Each year, the SEO hosts a winter fuels summit which includes representatives of the natural gas, propane and heating oil industry, state energy regulators and others interested in winter heating fuel supplies and prices which prepares the division for the upcoming heating season. Throughout the winter, the SEO tracks heating oil, propane and natural gas prices and supplies and makes this information available through its web site, press releases and interactions with businesses, public interest groups and state citizens.

## **SEP Special Projects 2001-2006**

During this timeframe, the SEO successfully competed for over \$ 3.4 million to promote innovative approaches to energy efficiency and renewable energy generation in the state.

- ◆ Targeted Combined Heat & Power Outreach
- ◆ Industries of the Future Energy Fair
- ◆ FEMP – Greening the Job Corps
- ◆ ENERGY STAR in the Commercial Sector
- ◆ Energy Efficiency in Food Service
- ◆ Energy Building Code Training
- ◆ NICE3 Biopulping
- ◆ Power Quality Park
- ◆ Energy Smart Schools
- ◆ Biomass Education
- ◆ Million Solar Roofs
- ◆ E85 Refueling Stations
- ◆ Wisconsin Wind Working Group
- ◆ Great Lakes Coastal Wind Monitoring
- ◆ Clean Cities Coalition
- ◆ Solar Power Conference
- ◆ DOE Omnibus Grant

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## Alternative Fuels

This program's goal is to promote and demonstrate alternative fuels as a viable way to reduce air pollution, increase local economic development and decrease our dependence on foreign oil. Currently, Wisconsin has 5 operating ethanol plants with 3 under construction and 8 in the planning stages producing an estimated 977 million gallons. Use of ethanol increased 20% in 2005. To date, Wisconsin has 65 stations selling E85 and 14 biodiesel stations. The state fleet consumed 1.25 million gallons of gasohol in FY2006.

Clean Cities - Wisconsin has successfully partnered with the USDOE Clean Cities Program and Wisconsin Clean Cities - Southeast Area to garner funding for alternative fuels related initiatives.

2001-2006 Contribution Source	Administration	Residential	Commercial/Industrial	Renewable	Alternative Transportation Fuel	Total
SEP Federal	\$ 600,000	\$ 2,662,395	\$ 3,332,662	\$ 1,297,403	\$ 1,158,316	\$ 9,050,776
State/Public Benefits	\$ 1,077,800	\$117,054,299	\$ 110,842,091	\$ 19,794,729	\$ 2,773,238	\$ 251,542,157
PVE (Exxon/Stripper)		\$ 59,483	\$ 443,347	\$ 394,039	\$ 693,300	\$ 1,590,169
Private		\$ 732,392	\$ 3,806,184	\$ 579,419	\$ 1,528,271	\$ 6,646,266
Other		\$ 686,224	\$ 1,496,182	\$ 360,316	\$ 188,682	\$ 2,731,404
Total	\$ 1,677,800	\$121,194,793	\$ 119,920,466	\$ 22,425,906	\$ 6,341,807	\$ 271,560,772

Description	Total Awarded	Leveraging Ratio
Total Non-Federal	\$ 259,778,592	\$22
Total Federal	\$ 11,782,180	\$1