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Quick Links

[OEMC Website](#)

[Calendar of Events](#)

[EnergyHelp Website](#)

[Other Energy Links](#)

[Presentations](#)

[Press Releases](#)

[Publications](#)

Dear OEMC,



Content Overview

- [Director's Farewell Remarks](#)
- [OEMC Helps Make Colorado a Leader in Energy Efficiency, Renewable Energy and Alternative Fuels](#)

Director's Farewell Remarks

Dear Friends,

Thank you for your support and partnerships in the many energy issues that face us today. We live in challenging times, but also exciting times.

It has been a great honor and opportunity to serve you as director of OEMC. I'd especially like to thank an exceptional group of people. The team at OEMC is a remarkable and dedicated group of professionals that have taken energy efficiency, renewable energy and alternative fuels in Colorado to new heights. Our state has a strong foundation on which to build and address these challenging energy issues, which touch all of our lives.

Many thanks also to all of you who have welcomed me in your communities, businesses, research labs, government offices, non-profits and farms and collaborated with our office as a partner.

Colorado has many exciting opportunities that lie ahead.

Best regards,

Drew

Governor's Office of Energy Management and Conservation (OEMC) Makes Colorado a Leader in Energy Conservation, Renewable Energy and Alternative Fuels

~ Is A Strong Central Resource on Energy Issues ~

Energy Efficiency

- Achieved \$150 million worth of energy efficiency projects (over eight years) by helping state and local governments leverage a private financing technique called “performance contracting.” Colorado is a nationally recognized leader and one of the top five states using this technique to make its buildings energy efficient.
- Created an aggressive “Greening Government” initiative involving all state departments (with Gov. Owens’ Executive Order).
- Developed a central resource to advance the practice of residential and commercial energy-efficient design and construction by developing an online hub that offers quick access to numerous building energy resources: www.buildingenergyinfo.org
- Created and maintained “Building Codes Website and Database” for building professionals.
- Co-created the national “Energy Hog” Ad Council education and conservation concept for children and adults.
- Provided design assistance to over 30 state and local governments to build energy efficient new buildings.
- Linked energy efficiency with forest health, by providing engineering assessments on heating with woody biomass (a biomass-heating video showing Boulder County’s Open Space will be released later in January).

Special Examples:

- Facilitated the Capitol Complex to complete a \$13.5 million building improvement project that was funded through resulting energy savings.
- Facilitated the design of a new state building to achieve national certification for energy and environmental efficiency (LEED-EB).
- Established an Energy Management Training series to help school, state buildings and college facility staff reduce energy costs.
- Guided teachers to incorporate energy education in the classroom

by supporting a Home Energy Contest.

Energy Efficiency - Low-income Weatherization

- Secured, in 2001 and 2006, (via the PUC) continuation of Xcel-OEMC funding partnership – Energy Saving Partners (E\$P).
- Expanded weatherization beyond home heating to include electric conservation.
- Incorporating renewable energy technologies into low-income weatherization.

HB 06-1200

- Secured bi-partisan support for low-income energy services (efficiency improvements and bill payment assistance) via HB 06-1200.
- Launching several new approaches to low-income energy efficiency, partnering with Youth Corps, emergency service providers and direct mail services to reach more homes more quickly.

Energy Efficiency- Distributed Generation

- Established the Colorado Fuel Cell Center (CFCC) with Gas Technology Institute, located at the Colorado School of Mines. CFCC's partners include CSM, NREL, and Versapower.
- Demonstrated the advantages of fuel cell technology at multiple sites including a fire station, large residential home, CU recreation center's pool, Denver's Federal Center, and with a portable 5kW fuel cell that can also produce hydrogen for the City of Fort Collins.
- Partnered with public and private groups on multiple microturbine installations to demonstrate how distributed power can be a clean energy technology, and how traditional fuels can be used with higher efficiency.
- Gained considerable knowledge and expertise in anaerobic digestion, Stirling Engine and other emerging technologies,

Energy Efficiency– Transportation

- Provided new technology leadership by converting a 2006 Toyota Prius into a plug-in hybrid electric vehicle (PHEV) that is capable of 125 mpg. Soon it will have Vehicle to Grid (V2G) capability, so it can receive electricity from or send it to the grid and it will also incorporate to Vehicle to Building (V2B) applicability. It is the State's first PHEV and could offer the first V2B capability in the world using

an automobile platform.

Renewable Energy

- Created the first Colorado Renewable Energy Financing Handbook as well as “how to” videos explaining small wind energy installations, anaerobic digesters used for producing power and a district heating facility using biomass.
- Installed a refurbished 65 kW wind turbine to blend with biopower produced from hog wastes.
- Commissioned Biomass Supply Study to address the Pine beetle issue.
- Commissioned Geothermal study which preliminarily shows Colorado may have the country’s second best geothermal resource behind Yellowstone.
- Proposed “thermal heat production” be part of Colorado’s Renewable Energy Portfolio. For example, rural Colorado schools could use wood chips to heat their buildings and be able to earn and sell Renewable Energy Credits (REC).
- Fostered wind energy development through co-sponsoring state wind resource map.
- Created statewide wind anemometer loan program to evaluate wind resources for potential development. There are twelve testing wind resources throughout the state.
- Partnered on a renewable micro-hydro power plant at Snowmass Ski Area that channels spring runoff through a turbine to generate approximately 250,000 kilowatt hours of energy annually, or comparable to 40 average-size homes a year, and preventing a half million pounds of carbon dioxide emissions.
- Helped to utilize wood as a blended fuel with coal in a Colorado power plant and helped to establish the first RECs using this blended fuel.

Alternative Fuels

- Created the “Governor’s E85 Coalition” to double the number of publicly accessible E85 pumps. The Coalition/OEMC won funding from U.S. DOE, to install publicly accessible E85 and biodiesel refueling stations at four locations throughout Colorado. Work will also include educating car dealers and the general public about the benefits of alternative fuels. Team members include Great Western Ethanol, General Motors, station owners, fuel distributors, and numerous state and local agencies. Clean Cities partners include Colorado Springs, Northern Colorado, and Denver Metro. DOE Share: \$388,000 Proposed Total Project: \$1,092,000. Total new

alternative fuel refueling stations to be installed by the Coalition may total as many as 45 over the next few years.

- Along side and outside of the DOE partially funded project, OEMC and the Governor's E85 Coalition will help install as many as thirty more E85 pumping facilities.
- Demonstrated how hog manure can produce electricity in Southeast Colorado using an anaerobic digester and a Stirling Engine.

Economic Development

- The Colorado Energy Research Institute was re-created and funded by OEMC. The energy office matched the Colorado School of Mines with \$450,000 (using private, non-state funds). CERI was originally created in 1974.
- Provided OEMC office infrastructure as initial support to the newly created Colorado "Renewable Energy Authority Board."
- Supported Spirae Inc. and the Colorado State University Engines & Energy Conversion Laboratory in "smart grid" technology to develop solutions for large-scale integration of renewables, distributed generation, and demand response into a seamless system that works for system operators, utilities, and end users. Provided two microturbines and assisted with funding for a small fuel cell to be part of the smart grid.
- Collaborated and supported the Metro Denver Economic Development Corporation (MDEDC) on the first Colorado Energy Magazine and Directory. The magazine and directory lists renewable energy and alternative fuels companies as well as provide vignettes of cutting-edge work.
- Showcased Colorado's leading edge private and public renewable energy and alternative fuels technologies as part of "Colorado Technology Week" in 2005 and 2006.

Waste Management

- Initiated electronics recycling task force and partnered with 15 sites statewide on e-waste collection events. Approximately 1,000 households and 200 small businesses and local governments participated, and a total of 357,216 pounds of unwanted computer equipment were collected for recycling and reuse.

OEMC receives federal funding, including support from the U.S. Department of Energy. For more information or input, please contact

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