



National Association of
State Energy Officials

NASEO's 2018 Midwest Regional State Energy Officials Meeting

Policy Issues and Program Activities

May 9-10, 2018
Minneapolis, Minnesota

<i>Illinois</i>	<i>Minnesota</i>
<i>Indiana</i>	<i>Missouri</i>
<i>Iowa</i>	<i>Ohio</i>
<i>Michigan</i>	<i>Wisconsin</i>

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Office of Energy, Illinois Environmental Protection Agency

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Illinois' Energy Policy Issues:

- Integration of an energy storage project and renewable generation: how do we go from concept to planning to implementation?

State Energy Program Activities:

- **Illinois Wastewater Treatment Plants (WWTP) Program** – The Illinois State Energy Office recently kicked off its WWTP Program. The project is a collaborative effort, with robust stakeholder involvement and technical support from a number of partners, included Illinois EPA's Bureau of Water. The objective of the program is to reduce energy use, energy costs or both at Illinois WWTPs, as well as improve water quality in Illinois waterways. Illinois EPA's office of Energy identified two primary projects of the WWTP Program:
 1. WWTP Energy Audits
 2. Energy Efficiency Upgrades
- **Energy Storage and Renewable Energy**--(see policy issue, above) Illinois EPA is working on a demonstration project that connects critical infrastructure with energy storage and renewable generation. The critical infrastructure could be a hospital, a first responders center, or even a school that serves as a disaster shelter. The renewable generation and storage portions of the project will ideally be highly visible where the energy storage component touches on resiliency in the case of grid disruption or power outage.
- **Energy Conservation Code Training** – The Illinois Energy Office is working with the Smart Energy Design Assistance Center (SEDAC) to implement Illinois Energy Conservation Code training, education, and technical assistance. The training and education is both web-based and in-person targeting both commercial and residential applications of the code throughout the State.
- **Illinois Clean Energy Fund** – Revolving Investment Fund with Clean Energy Trust (CET) as the implementing partner. CET identifies and invests in Illinois-based early-stage clean energy businesses. The Fund's targeted sectors include renewable energy, energy efficiency, energy storage, water resource management, next-generation transportation, alternative fuels, and smart grid technologies.

Other (Non-SEP) Activities:

- **Illinois Biofuels Infrastructure Program** – USDA-funded program to install hundreds of high-blend ethanol pumps and tanks across the state.

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Indiana Office of Energy Development (OED)

Indiana's Energy Policy Issues:

- Integration of energy storage and renewable energy on the grid. Indiana has seen significant growth in utility scale wind and solar projects, and we want to continue to maximize unused/underutilized energy resources.
- Zoning issues and Renewable Energy Development. We've had intense local opposition to wind development in parts of the state over the past 4-5 years, but in this past legislative session we saw attempts to potentially create statewide zoning regulations for energy development projects. This is primarily a concern on renewable energy, but has also spilled over into oil and gas development as well. Over half of the counties in Indiana with potential for utility scale wind development have bans or moratoriums on wind energy projects.
- Alternative fuels and vehicle deployment. We work closely with agriculture, fuel, and transportation organizations to reduce barriers and coordinate development of biofuels, hybrid, natural gas, and propane options for consumers. The policy focus is integrated into our legislation and program development through informal working groups with key stakeholders.
- Energy Emergency Response and Cybersecurity
- Supporting and protecting Indiana's coal industry, where possible
- Rural Development

State Energy Program Activities:

- Propane School Bus grants: We've continued to fund propane-powered school buses through grants for public schools around the state. In the most recent year we've funded 40 buses at an average of \$7,122 per bus.

Other (Non-SEP) Activities:

- Hoosier Homegrown Fuels (Biofuels Infrastructure Partnership): As Indiana's BIP grant from USDA, the Hoosier Homegrown Fuels Blender Pump Grant Program (HHF) seeks to increase the availability of and use of higher ethanol blends in Indiana. Matching funds are from our Corn Marketer's Association (using check-off funds), we used no state or SEP funds in the grants. Four rounds covering (73 pumps) have been announced and all funds have been obligated.
- We've started a new Energy Services Coalition Chapter in Indiana, which our Director is serving as the Public-Sector Co-Chair.

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Iowa Economic Development Authority (IEDA) - Iowa Energy Office

Iowa's Energy Policy Issues:

- **Iowa's 2018 Legislative Session**

The 2018 Iowa legislative session has produced some unfavorable proposed bills that would go counter to the Iowa Energy Plan and, against the Plan's support of energy efficiency (EE). IEDA has been active in stakeholder engagement (legislators; EE advocates; large industrials, utilities, etc.) to ensure that any final energy legislation aligns with the strategies and objectives of the Plan.

- **Iowa Energy Center (IEC)**

Legislation signed in 2017 transferred the authority of the IEC to IEDA. The IEC is a utility funded entity that has been managed by Iowa State University and it offers both energy grants, as well as a 0% revolving loan fund to support the development of renewable energy production projects. Beginning October 1st, 2017, IEDA took over management of the IEC. The legislative mission of the IEDA-led IEC is to support implementation activities of the Iowa Energy Plan.

State Energy Program Activities:

- **Iowa Energy Plan**

IEDA, along with collaboration and support from the Governor's Office and the Iowa's DOT of the Plan's leadership team, continue to lead implementation efforts of key, near-term strategies of the Plan.

- **Rural Pilot – Energy Expertise**

Per the Iowa Energy plan, IEDA was tasked with developing and funding a pilot program that makes available energy expertise and technical assistance to rural communities. IEDA and the Iowa Association of Municipal Utilities (IAMU) have partnered on an innovative and collaborative two-year pilot program to provide technical energy expertise to IAMU's rural utility members and communities. Iowa has also invested state money into this pilot program.

- **Energy Assurance**

The Iowa Department of Agriculture and Land Stewardship and the Iowa Utilities Board have primary responsibility for the state's Energy Assurance Plan. The functions they oversee include energy planning and coordination for the state, promoting the synchronization of risk management activities and emergency response preparedness programs/plans.

Other (Non-SEP) Activities:

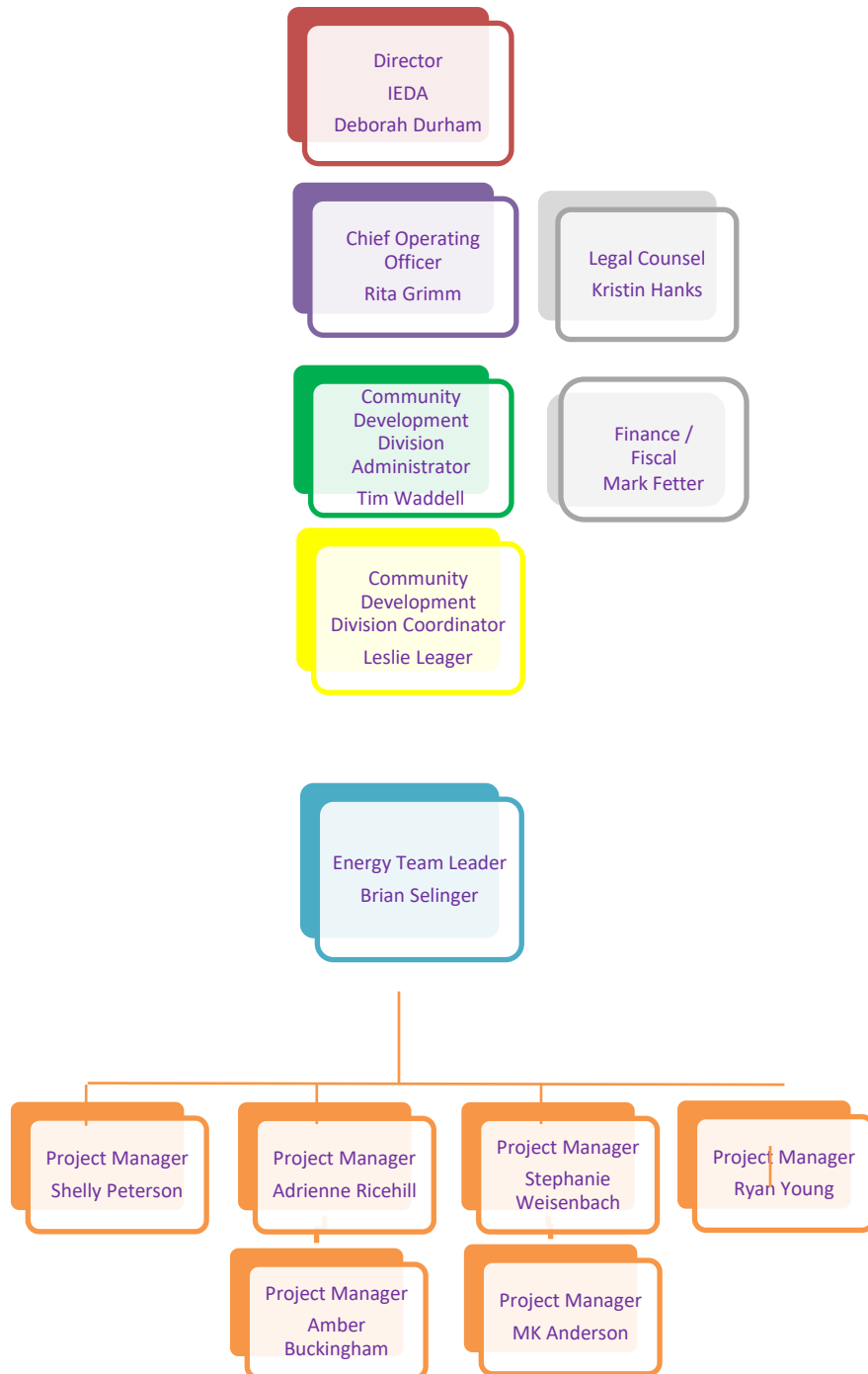
- **Iowa Clean Cities Coalition**

The Iowa Clean Cities Coalition is a program that incorporates a variety of public and private stakeholders to coordinate education and technical assistance on alternative fuels and advanced vehicle technologies, especially for fleets. The mission of the national Clean Cities program is to advance the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum consumption in transportation. It is housed at the IEDA and a designated member of the U.S. Department of Energy's Clean Cities program.

- **VW Settlement Efforts**

As a result of two related Volkswagen settlements, the state of Iowa is expected to receive approximately \$21 million in environmental mitigation trust funds over the next ten years. The Governor's office tasked the Iowa DOT as the lead agency and IEDA as their key partner in managing the state's efforts around the mitigation trust funds. In April 2018, the Governor's Office approved Iowa's draft Beneficiary Mitigation Plan and now it is available for public input through late May.

**Iowa Economic Development Authority (IEDA)
IEDA / Iowa Energy Office Organizational Chart**



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MICHIGAN ENERGY OFFICE (MEO)

MEO's Energy Policy Issues:

- Energy Legislation passed in late December 2016, went into effect April, 2017 – Continue engaging stakeholders on key sections of the new/amended legislation and implementing Demand Response, Performance Based Regulation, Energy Waste Reduction and On-Bill Financing provisions.
- Stakeholder engagement process discussing a common energy optimization program for the Michigan's Upper Peninsula.

State Energy Program Activities:

- **Stakeholder Engagement activities** – Continue to involve stakeholders in program needs and design.
- **Communities:** (Besides LED Street Lighting Upgrades and Benchmarking projects)
 - **Community Energy Management Services** – Continue outreach to communities implementing CEM Best Practices. (E Benchmarking, Zoning Ordinances, E Action Plans and incorporate E goals/targets into local planning docs; E training for municipal staff and local leaders; identifying funding mechanisms, other tools/resources to facilitate EERE projects)
 - **2030 Districts** – Supporting both Detroit and Grand Rapids to engage stakeholders to participate in reaching their energy goals.
- **Industry Sector:**
 - **Energy Technology Commercialization Services** – Provide commercialization services by connecting companies to MEDC and other partners and/or funding opportunities. Through the Michigan Clean Energy Business Development pilot, a grant was issued to a non-profit business incubator to assist small businesses in Michigan to advance and bring to market clean energy technologies, with emphasis on achieving energy waste reduction in manufacturing processes and the production of innovative energy waste reduction equipment and components. The grant started in March 2018, with three referrals received to date. The one active client project is directed to energy efficiency improvements to current indoor lighting systems.
 - **AgriEnergy Demonstrations** – Through the Michigan Farm Energy Program (MFEP), we are supporting energy audits and water assessments in food processors, evaluating the MFEP and developing a program sustainability plan, along with case studies and on-farm field days showcasing the demonstration technologies.

Other (Non-SEP) Activities:

- VW Settlement/Electrify America – MEO is working with the Michigan Department of Environmental Quality - lead agency on VW Mitigation Trust Fund Projects – on potential ZEV projects.
- Participating in the Clean Energy for Low Income Communities (CELICA) Accelerator
- Participating in the CHP for Resiliency Accelerator
- Participating in the Sustainable Wastewater Infrastructure of the Future Accelerator
- Overseeing an Upper Peninsula Energy Waste Reduction Program with electricity and natural gas utilities and energy optimization service providers to develop a common EO program for all rate classes.
- Agriculture & Rural Communities Energy Roadmap – evaluating the energy gaps, issues and opportunities for Michigan rural communities and the agriculture industry to improve programs and policies.

MINNESOTA STATE ENERGY OFFICE

The State Energy Office (SEO) helps Minnesota achieve its clean energy goals by accelerating the use of energy efficiency and renewable energy practices, providing residents with accurate energy information, supplying assistance to local units of government, and educating businesses about best practices to achieve efficient and safe buildings. SEO has six teams and is part of the Minnesota Department of Commerce.

CLEAN ENERGY TECHNOLOGIES supports the development of wind, solar, bioenergy, and other clean energy projects in MN, advances clean energy policies and programs, and accelerates clean energy business in MN. The team:

- Supports a growing clean energy economy through expert technical assistance. From 2013-2017, solar jobs in MN increased from 814 to 4,256¹, a 523% jump.
- Supports a growing MN solar market. MN added 467 MW of solar capacity in 2017, up from 246 MW in 2016 and less than 1 MW in 2009.
- Secured two 2016 U.S. Department of Energy SunShot Initiative grants of more than \$2 million to propel MN's solar industry.

The **ENERGY EFFICIENCY & ASSURANCE** team provides technical assistance to public entities on energy efficiency and renewable energy projects, establishes sustainable building practices, and monitors information on energy security, reliability, and emergency response issues. The team:

- Administers the Guaranteed Energy Savings Program (GESP) that has helped five state agencies, colleges, and cities implement major energy-saving projects, with guaranteed energy savings of \$800,000 annually; more projects are in the pipeline.
- Coordinates the Local Energy Efficiency Program (LEEP) that complements GESP by facilitating investment grade energy audits.
- Sponsors Minnesota B3 Benchmarking, a program that tracks and manages energy use in over 8,500 public buildings in the state. B3 has identified over \$23 million in potential energy savings in over 1,500 identified buildings.
- Compiles a weekly energy and emergency situational awareness report to ensure the state is prepared to respond if energy is in short supply, and conducts the MN State Heating Oil and Propane Price Survey.

MN's **CONSERVATION IMPROVEMENT PROGRAM (CIP)** is nationally recognized as a leader in utility efforts to help MN residents and businesses save energy. Commerce oversees CIP, which is administered by the state's 180 electric and natural gas utilities.

- Achieved energy savings of more than \$3.2 billion for MN consumers and businesses from 2008-2013.
- Every dollar invested in CIP provides \$4 in energy savings, environmental benefits, and new economic activity.

- In 2017, ACEEE ranked MN's CIP 4th most effective in the country.
- MN ranked 9th in the 2017 ACEEE State Energy Efficiency Scorecard and has ranked in the top 10 in 10 of last 11 years.

The **WEATHERIZATION ASSISTANCE PROGRAM (WAP)** is a state program administered by Commerce through 24 local service providers that implement free home energy upgrades for income-eligible homeowners and renters, permanently reducing their energy bills.

- Reduces a household's energy bills by 30% on average.
- Returns \$4.10 to households in energy savings for every \$1 invested in the program.
- Provided weatherization services to 1,700 low-income Minnesota households in 2017.

The **SEO OPERATIONS** team administers energy financing programs and coordinates contracts, procurement, funding opportunities, and data management for the State Energy Office. The SEO Operations team:

- Administers two loan programs and sponsors four third-party administered loan and lease programs.
- Leverages nearly \$20 million in revolving loan programs for energy efficiency projects serving residential, business, nonprofit, and public sectors.
- Provides technical expertise in coordinating funding opportunities, contract procurement, and data management.

The **PROGRAM CONNECTIONS** team supports energy initiatives through outreach events and published materials. It responds to consumer questions about energy and provides accurate information to help Minnesotans make informed choices about their energy use.

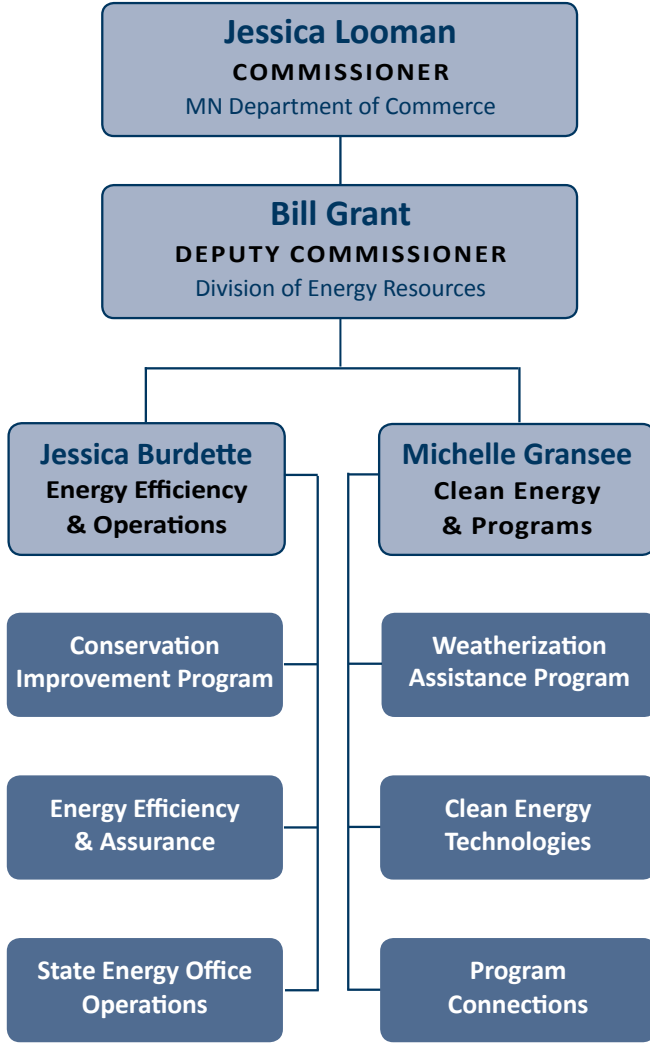
- In 2017, responded to over 3,000 energy calls and emails via the Energy Information Center.
- Connects annually with over 250,000 people at outreach events such as the 2017 MN State Fair Eco Experience.
- Distributes more than 15,000 print pieces, mostly the Home Energy Guide, to residents and businesses.
- Manages a U.S. Department of Energy grant focused on reducing the overall energy burden of low-income households.

⁽¹⁾ Solar Foundation 2017 MN solar job census

MINNESOTA STATE ENERGY OFFICE

Organizational Chart
April 2018

State Energy Office Staff Directory
mn.gov/commerce/energy/



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- Bill Dixon
- Ivan Karnes
- Suzy Meneguzzo
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- *Jake McAlpine 651.539.1866
- Jack Kluempke
- Stacy Miller
- Lise Trudeau

Program Connections

- *Kim Havey 651.539.1761
- Marty Duda
- Mark McLaughlin
- David Swanson
- Terry Webster

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Wisconsin Office of Energy Innovation

Wisconsin OEI's Energy Policy Issues:

- Energy Assurance: Delegated responsibility to conduct planning, monitoring, and coordinate emergency response.
- Anaerobic Digesters: Continued effort to address energy production/savings, nutrient management, and water quality in severely affected areas of the state.
- Public Sector and Rural Support – providing solutions for high energy use and reduction in communities, with an emphasis on water and wastewater utilities.

State Energy Program Activities:

- Energy Assurance:
 - Ensuring fuel supply is available in northeast Wisconsin while the Westshore pipeline is shut-down.
 - Updating Energy Assurance Plan with an actionable plan that will facilitate expeditious and essential response, includes a comprehensive Petroleum Shortage Contingency Plan.
 - Launch of Generator Readiness Grant to fund tap switches, that can accept generators during an energy emergency, at bulk fuel terminals.
 - Actively participating in Dark Sky Exercise.
- Conducting a Survey of Clean Energy Investments grants to measure the impacts of community grants to aid in future programs.
- [Energy Innovation Grant Program](#), RFP to be released in early May, over \$25 million available for planning and implementation grants for energy efficiency and renewable energy projects for k-12 schools, municipalities and manufacturers in the first year of program. Energy storage and resiliency are included in this effort.
- Energy Market Development Efforts with a specific focus on transportation, geothermal, and biogas.
- Transparency on Wisconsin's energy consumption by providing current statewide energy statistics and progress towards change, including a breakdown of energy use in state facilities.
- Increasing stakeholder engagement – Wisconsin Energy Innovation Summit May 23-24, 2018. More information [here](#).

Other (Non-SEP) Activities:

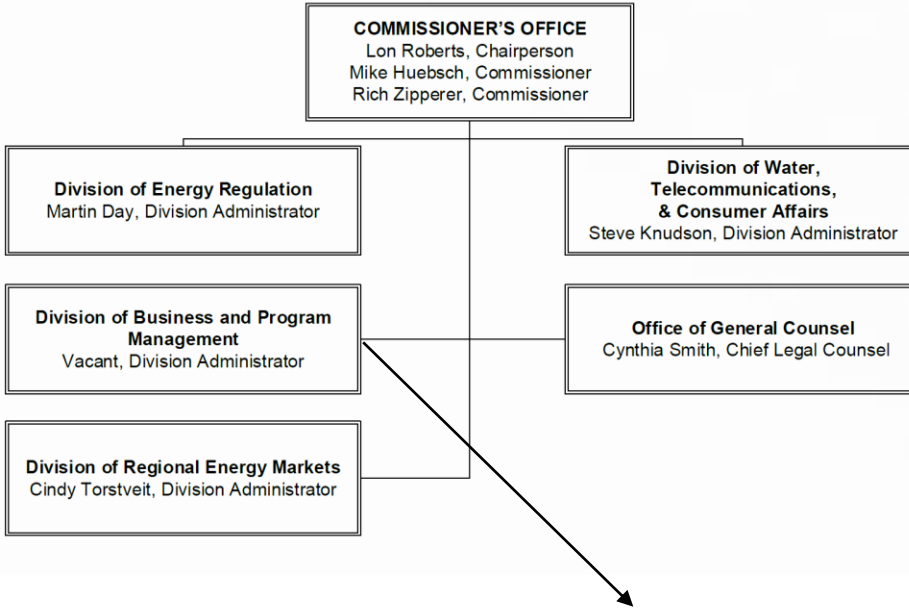
- [Focus on Energy Program](#) (\$95 million annually) - Wisconsin utilities' statewide energy efficiency and renewable resource program that works with eligible residents and businesses to install cost-effective energy efficiency and renewable energy projects:
 - Launched Quadrennial Planning Process which provides a framework for the program over the next quadrennium 2019-2022.
 - Integrated Anaerobic Digester System Program RFP – awarded a \$15 million project to BC Organics, aiming for completion early 2019.
 - “Get Connected, Use Energy Smarter” – continued partnership effort with Internet Service Providers and Municipal and Electric Coops to expand offerings to underserved, rural areas of the state.
 - Preparing for the launch of Request for Proposals for Program Administrator.
- [Municipal Energy Efficiency Technical Assistance Program](#) – provides owner's representative services to municipalities, cities, towns, counties, K-12 School districts to help them realize their energy efficiency goals.
- [Biofuels Retail Advancement in Wisconsin Transportation \(BRAWT\)](#) – installation of 152 pumps and 28 tanks at 29 gas stations in Wisconsin to accommodate increased mid-level ethanol blends to consumers.
- Statewide Wood Energy Team - Woody Biomass Market Development (USDA-Forest Service)
- Website - <https://psc.wi.gov/Pages/Programs/OEI.aspx>

For further information, please feel free to contact Maria Redmond, maria.redmond@wisconsin.gov or (608) 266-1521.



Wisconsin Office of Energy Innovation

PUBLIC SERVICE COMMISSION OF WISCONSIN



DIVISION OF BUSINESS & PROGRAM MANAGEMENT Public Service Commission of Wisconsin

