



State of Idaho  
October 2022

## Governor's Office of Energy and Mineral Resources

The Idaho Governor's Office of Energy and Mineral Resources (OEMR) is responsible for coordinating energy and mineral resource planning and policy development for the State of Idaho.

Follow us on  
Twitter

Subscribe to  
our Monthly  
Newsletter

Visit our  
Website

### Updates

#### Idaho Minerals

The largest-to-date cobalt mining operation officially launched Friday, October 7th in the Salmon-Challis National Forest. The Australian-based mining and exploration company Jervois Global should produce 16,890 tons of cobalt over its eight-year lifespan. That amount should be enough to power up to 7 million electric vehicles. For more information regarding the Idaho Cobalt Belt click [here](#).

#### Electric Vehicles

Researchers have found that NASA technology used to help cool certain electrical systems in space can deliver five times the current of other electric vehicle chargers on the market, charging electric vehicles within five minutes. For more information on the technology click on the [link](#).

### Brainteaser:

#### How well do you know Idaho energy?

*Answer three energy trivia questions to get your afternoon off to a good start.*

- 1) The Idaho Statehouse has been geothermally heated for more than a century. How many state capitol buildings are geothermally heated?  
A) 8  
B) 0  
C) 13  
D) 24
- 2) In 2020, Idaho had the third lowest average electricity price among the states, in part because of the large amount of electricity that comes from relatively inexpensive hydropower. What percentage of the state's generation in 2021 did hydropower account for?  
A) 89%  
B) 73%  
C) 51%  
D) 94%
- 3) In 2021, renewable energy sources generated 74% of the electricity in Idaho, the fourth-highest share of renewable electricity for any state after which other states?  
A) California, Massachusetts and Florida  
B) Texas, California and Kansas  
C) Texas, California, and Florida  
D) Vermont, South Dakota and Washington

## Renewable Energy

Recently U.S. News and World Report ranked states with the best energy infrastructure. The criteria included energy availability, energy affordability and grid reliability. Washington, Oregon, Idaho and Montana account for 40% of the nation's hydropower generation. Click on the [link](#) for more information on the renewable energy resource.

## Energy Efficiency

The U.S. Department of Energy has awarded DOE's Argonne National Laboratory with \$600,000 in federal funding to work on two new projects that will advance cutting edge manufacturing and clean energy technologies. These projects should improve energy efficiency in chemical manufacturing and advance the use of carbon capture technology. Click on the [link](#) to see how Argonne is working with the largest chemical manufacturing company to optimize the efficiency of advanced mixing equipment.

## Nuclear Energy

The Leadership in Nuclear Energy Commission makes recommendations to the Governor on policies and actions of the State of Idaho to support and enhance the long-term viability and mission of the Idaho National Laboratory and other nuclear industries in Idaho. The LINE Commission met on October 12th. OEMR's Administrator, Richard Stover spoke at the meeting regarding OEMR's

\*Answers are listed on the bottom of this newsletter.

## Energy Outlook

The U.S. Energy Information Administration (EIA) has released a short-term outlook on the energy industry for the month of October. The report looks at estimated household expenditures for home heating this winter, average retail gasoline prices, a forecast in natural gas prices and consumption, predictions on electricity generation from renewable energy sources and coal and the expected residential electricity prices in the United States. [View the full report here.](#)

- EIA forecast that average household expenditures for home heating fuels will increase this winter due to higher expected fuel costs and higher energy consumption due to colder temperatures. Homes that heat with natural gas can expect a rise of 28%, heating by oil can see an increase by 27%, electricity by 10% and propane by 5% from October through March.
- U.S. crude oil production averages 11.7 million barrels per day in 2022 and 12.4 million barrels per day in 2023. The current record is 12.3 million barrels per day, which occurred in 2019.
- EIA expects retail gasoline prices will average \$3.80 per gallon, (gal) an increase from last month's forecast. Retail diesel prices will average \$4.86 per gallon in the fourth quarter of 2022. In 2023, EIA expects retail gasoline prices to be \$3.57 per gallon and retail diesel prices to be \$4.29 per gallon.
- U.S. consumption of natural gas averaged 87.9 Bcf/d in 2022, although this is an increase compared to 2021, EIA expects consumption to fall by 2.6 Bcf/d in 2023 because of declines in consumption in the industrial and electric power sectors.
- EIA anticipates U.S. sales of electricity to ultimate customers to increase by 2.7% in 2022, due to rising economic activity but also because of hot summer weather across the country. EIA expects the sales of electricity to fall by 0.9% in 2023.
- EIA expects the largest increases in U.S. electricity generation will come from renewable energy sources. Renewable energy sources, such as wind and solar, should provide 22% of U.S. generation in 2022 and 24% in 2023, up from 20% in 2021.
- EIA predicts the U.S. residential electricity price will average 14.9 cents per kWh in 2022, up 8% from 2021.
- U.S. coal production is likely to increase by 20 million short tons to 598 million short tons in 2022 and should total 581 million short tons in 2023.
- EIA predicts energy-related carbon dioxide (CO<sub>2</sub>) emissions in the United States to increase by 1.5% in 2022 and then to decrease 2.3% in 2023.

---

## Let Us Know About Your Energy Experience

---

The Office of Energy and Mineral Resources is seeking feedback from residents and businesses about their energy experience. This information will help our office better understand opportunities, priorities and perceptions regarding how we keep the lights on. Please take a few minutes to share your feedback about energy in Idaho through the following survey links:

Consumer: <https://www.surveymonkey.com/r/ZVFVGDS>

Industry: <https://www.surveymonkey.com/r/PXSXVJT>

---

## Governor Little Signs Proclamation making October 17th Idaho Geothermal Day

---

WHEREAS, World Geothermal Day is recognized as October 17<sup>th</sup> to acknowledge geothermal's undeniable contributions to resilient and reliable energy infrastructure and clean energy heating and cooling systems; and

WHEREAS, the Yellowstone Hot Spot on the earth's mantle left a trail of geothermal resources extending from our western border near Parma to our eastern border at Yellowstone National Park; and

WHEREAS, Idaho has an estimated 17,000 GWh of geothermal power potential within the state that requires a trained and technical workforce to discover and deliver reliable energy services to Idaho communities, promoting economic growth and creating jobs for Idahoans; and

WHEREAS, Idaho is one of seven states with geothermal utility-scale electricity generation, allowing geothermal to be a valuable baseload renewable energy resource that provides clean and reliable energy to the state; and

WHEREAS, geothermal power generation complements Idaho's diverse energy profile by providing the flexibility needed to meet the state's fluctuating energy demand and maintain grid security; and

WHEREAS, Boise is the site of the United States' first geothermal district heating system and now delivers naturally heated water to more than 6 million square feet of building space; and

WHEREAS, the Idaho Statehouse has been geothermally heated for more than a century, making it the only geothermally heated capitol building in the nation; and

WHEREAS, the U.S. Department of Defense has selected Mountain Home Air Force Base to demonstrate its initial geothermal power production plant; and

WHEREAS, geothermal resources create recreational opportunities by providing public access to many hot springs throughout the state; and

WHEREAS, geothermal resources have provided advancements in aquaculture and greenhouse technology throughout the State of Idaho;

NOW THEREFORE, I, BRAD LITTLE, Governor of the State of Idaho do hereby proclaim October 17, 2022, to be

## Geothermal Day

in Idaho, and I encourage all Idahoans to join me in this special observance.



*Lawrence Denney*  
LAWRENCE DENNEY  
SECRETARY OF STATE

IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Idaho at the Capitol in Boise on this 17th day of October, in the year of our Lord two thousand and twenty-two, and of the Independence of the United States of America the two hundred forty-seventh, and of the Statehood of Idaho the one hundred thirty-third.

BRAD LITTLE  
GOVERNOR

Governor Little proclaimed October 17th as Idaho Geothermal Day in recognition of geothermal's undeniable contribution to the State's resilient and reliable energy and clean energy heating and cooling systems. Thanks to the natural geological resources provided by the Yellowstone Hot Spot, Idaho has an estimated 17,000 GWh of geothermal power potential within the state. The City of Boise is home to the United States' first geothermal district heating system which delivers naturally heated water to more than 6 million square feet of building space, and the Idaho Statehouse is the only geothermally heated capitol building in the nation. For more information on geothermal energy click [here](#).

---

## National Energy Days in October

---

**October 5th** is recognized as the nation's **Energy Efficiency Day**. Individuals and businesses are urged to recognize ways to be more energy efficient in multiple areas, including vehicle efficiency, building efficiency, and generally in how we use energy through our economy on a local, national, and global level. Energy efficiency provides opportunities to create jobs and save money for consumers and businesses in rural and urban areas across the nation. For more information on National Energy Efficiency Day click on the [link](#).

**October 8th** is recognized as the nation's **Hydrogen and Fuel Cell Day**. Individuals and industry specialists are urged to acknowledge the opportunity to celebrate the lightest of chemical elements and its role in the transition to a clean energy economy. For more information on National Hydrogen and Fuel Cell Day click on the [link](#).

---

## State of Idaho Receives \$4 Million for Electric Vehicle Infrastructure

---



[10/4/22]  
FOR IMMEDIATE RELEASE

**Contact:**  
Richard Stover, Office of Energy and Mineral Resource, [richard.stover@oer.idaho.gov](mailto:richard.stover@oer.idaho.gov)

### State of Idaho Receives \$4 Million for Electric Vehicle Infrastructure

BOISE -- On September 27<sup>th</sup>, 2022, the Federal Highway Administration (FHWA) announced that the Idaho Electric Vehicle Infrastructure Deployment Plan required under the National Electric Vehicle Infrastructure (NEVI) Formula Program was approved for implementation. There is now \$4,425,511 in funds available to Idaho to strategically deploy EV charging infrastructure and to establish an interconnected network to facilitate data collection, access, and reliability. For the Fiscal Years 2022-2026, Idaho is expected to receive just under \$30 million through the NEVI Formula Program. A portion of the FY22 funding will be used to conduct a siting, access, and feasibility study to guide EV fast charger buildout.

Office of Energy and Mineral Resources Administrator, Richard Stover, announced "the approval of Idaho's NEVI plan is welcome news. This plan was the culmination of extensive outreach and community input and reflects a strong working partnership between the Idaho Transportation Department (ITD), Department of Environmental Quality (DEQ), the Office of Energy and Mineral Resources (OEMR), and other stakeholders and community members across Idaho. Its approval represents an important step in infrastructure, economic and workforce development in Idaho. Over the next year, we will be conducting a siting, feasibility, and access study to determine how and where to deploy this funding. This study will involve significant outreach to local communities, disadvantaged communities across Idaho, and possible funding partners. We are excited to get this plan moving."

The Idaho Electric Vehicle Infrastructure Deployment Plan may be viewed on OEMR's NEVI webpage. <https://oemr.idaho.gov/programs/national-electric-vehicle-infrastructure-program/>

###

On September 27th, 2022, the Federal Highway Administration (FHWA) announced that the Idaho Electric Vehicle Infrastructure Deployment Plan was approved for implementation. The deployment plan is required under the National Electric Vehicle Infrastructure (NEVI) Formula Program. For fiscal years 2022-2026, Idaho is expected to receive just under \$30 million through the NEVI Formula Program. Click to view [The Idaho Electric Vehicle Infrastructure Deployment Plan](#), [subscribe](#) to receive more information about NEVI or view the [ChargeWest video](#).

---

## Interested in EV Charging Infrastructure?

---

Click on the [link](#) to gain a better understanding about the national EV charging network build out. This story addresses the following:

- Federal requirements to access EV funding
- The supply of EV charging stations
- The demand of EVs over the past decade
- Considerations for the electric grid
- Criteria for determining where to place EV charging stations

---

## How Will the Bipartisan Infrastructure Law Impact Idaho?

---

The Idaho Strategic Energy Alliance ([ISEA](#)) was established in 2009 and continued by Governor Little through Executive Order [2020-18](#). ISEA is tasked with advising and providing information to elected officials, stakeholders, and the public on economically, efficient development of the state's energy resources. In 2022, the ISEA Board of Directors approved the establishment of an Energy Infrastructure Task Force to provide recommendations to the state for allocation of federal funding for energy provisions included within the Bipartisan Infrastructure Law.

Staff members of OEMR are working alongside taskforce members to identify funding opportunities that will become available to Idahoans for investments in energy infrastructure. The task force, alongside OEMR, is charged with providing a clearinghouse for information and technical assistance to Idaho businesses and communities on competitive grants relating to energy infrastructure, as well as providing recommendations for administering the formula and competitive funding opportunities associated with preventing outages, enhancing resiliency, and improving energy conservation and affordability to Idaho.

Here are competitive grant funding opportunities that will soon be available through the U.S. Department of Energy. Please reach out to Brenna Garro ([brenna.garro@oer.idaho.gov](mailto:brenna.garro@oer.idaho.gov)) for more information on the opportunities listed below or to request technical assistance.

- [The Rare Earth Element Demonstration Facility Funding Opportunity](#)
- [Carbon Capture Demonstration Projects Program](#)
- [Carbon Storage Validation and Testing](#)



---

# Daily Tips to Conserve Energy and Save Money

---

## Fall is Here! Consider the Following Tips to Stay Comfortable During the Cooler Months:

- 1) Open curtains and blinds during the day to allow sunlight to heat the home.
- 2) Cover drafty windows with a clear plastic film to the inside of window frames to keep the cooler weather out of the house.
- 3) Set the water heater to 120 degrees.
- 4) Use Light Emitting Diode (LED) light strings when celebrating the holiday season.
- 5) Replace furnace and heat pump filters once a month or as needed.

Click the [link](#) for additional tips to conserve energy and live comfortably during the cooler weather months.

## Top Ten Energy Users in an Average Residential Home

Did you know residential energy use is the third largest use of energy in the United States? Below find the top ten energy users in the average home.

### Appliance

- 1) Heating (47%)
- 2) Cooling (47%)
- 3) Water Heater (14%)
- 4) Lighting- depending on lighting used. (12%)
- 5) Washer & Dryer (13%)
- 6) Refrigerator (4%)
- 7) Electric Oven (3-4%)
- 8) TV, DVD, and Cable Box (3%)
- 9) Dishwasher (2%)
- 10) Computer (1%)

Click on the [link](#) for the average cost per top ten energy users in a home.

---

## Federal Funding Opportunities

---

OEMR staff track and monitor energy related federal funding opportunities and post notifications to [our website](#). Please contact OEMR with questions regarding the following federal funding opportunities.

- [\\$2.3 Billion Formula Grant Program Opened for States, Tribal Nations, and Territories.](#)
- [Advancing Equity Through Workforce Partnerships](#)
- [Geothermal Heating and Cooling Technologies at Federal Facilities](#)
- [\\$12.2 Million Available for Innovations in LED Technology](#)

- [Registration is Open for the National Community Solar Partnership \(NCSP\)](#)
- [Regional Clean Hydrogen Hubs](#)
- [Funding Notice: Bipartisan Infrastructure Law: Rare Earth Element Demonstration Facility](#)
- [Funding Notice: Bipartisan Infrastructure Law: Carbon Capture Demonstration Projects Program](#)
- [Funding Notice: Carbon Storage Validation and Testing](#)

Additional funding opportunities

- [DOE Energy Efficiency and Renewable Energy Office's Funding Opportunity Exchange](#)
- [USDA Funding Opportunity websites](#)
- [Local Infrastructure Hub](#),

## Recent Articles

["Could Crypto Miners Raise your Electricity Bills?"](#) (Idaho Statesman)

["Small Reactors Could Make Nuclear Energy Big Again."](#) (World Economic Forum)

["Nuclear Energy Modernization Ongoing at Idaho National Laboratory."](#) (Idaho News 6)

["Idaho Site Kicks Off First Phase of Demolition Work at Naval Reactors Facility."](#) (Department of Energy)

["How the "Battery Data Genome" Project Will Use Vast Amounts of Information to Build Better EVs"](#) (Inside Climate News)

["For Decades These Power Plants Ran on Coal. Now They Are Converting to Clean Energy."](#) (Fast Company)

["U.S. Department of Energy Launches \\$32 Million Program to Advance Domestic Supply Chain for Critical Minerals."](#) (National Energy Technology Laboratory)

["More Electric Vehicles in Idaho Means More Infrastructure is Needed. How ITD Plans to Keep Up with Demand."](#) (Idaho News 6)



## Meet OEMR Staff

**Richard Stover**- Administrator

**George Lynch**- Legal Counsel/Minerals Program Manager

**Marissa Warren**- Energy Program Manager

**Tammy Japhet**- Financial Manager/Loan Program

**Amanda Galvez**- Fiscal Specialist

**Emily Her**- Senior Policy Analyst

**Alexa Bouvier**- Policy Analyst

**Andrew Mentzer**- Policy Analyst

**Brenna Garro**- Policy Analyst



# OEMR Programs

OEMR offers the following programs:

## Energy Efficiency Awards

*\*Application Period is Now Closed*

Idaho Awards for Leadership in Energy Efficiency – Energy and Mineral Resources

## Government Leading By Example

*\*Accepting Applications*

Government Leading by Example – Energy and Mineral Resources (idaho.gov)

## State Energy Loan Program

*\*Reduced interest rates and flexible payment plans are now available. Apply today!*

State Energy Loan Program – Energy and Mineral Resources (idaho.gov)



## Answers to the Brainteaser:

1) B- None. Idaho is home to the only geothermally heated capitol building in the nation.

2) C- 51%

3) D- Vermont, South Dakota and Washington

Source: [State Electricity Profiles - Energy Information Administration \(eia.gov\)](http://eia.gov)

Source: [U.S. Energy Information Administration - EIA - Independent Statistics and Analysis](http://eia.gov)

State of Idaho- OEMR | 304 N. 8th St. Suite 250, Boise, ID 83720

[Unsubscribe amanda.galvez@oer.idaho.gov](mailto:amanda.galvez@oer.idaho.gov)

[Update Profile](#) | [Constant Contact Data Notice](#)

Sent by [amanda.galvez@oer.idaho.gov](mailto:amanda.galvez@oer.idaho.gov) powered by



Try email marketing for free today!