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WYOMING ENERGY RESOURCES DIRECTORY

ABOUT

Population: 578,803

Size: 97,814 square miles (253,348 kilometers)

Capital: Cheyenne

Governor: Mark Gordon

President of the Senate: Ogden Driskill

Speaker of the House: Albert Sommers

BUSINESS CLIMATE

- · No corporate or personal state income tax
- No inventory tax
- No franchise tax
- No occupation tax
- No value-added tax
- Energy Matching Funds

THE FACTS

Spend Less & Earn More: Wyoming has the most business-friendly tax climate in the nation.

Regulatory Environment: Embracing a lowregulatory, minimally red-tape environment, Wyoming ranks as a top state for ease of doing business – year in, year out, including state permitting primacy. Wyomingites have a rich heritage in free enterprise and minimal government interference, which has allowed businesses to remain free from unnecessary and burdensome regulations.

Access to Government: Wyoming has been described as one large town with really long streets where everyone knows everyone. The accessibility to government officials remains unparalleled in the United States. Your questions and comments will be expeditiously and fairly addressed.

COME SEE WHAT WE CAN OFFER AND LEARN FOR YOURSELF WHY IT'S BETTER IN WYOMING!

Wyoming has always taken great pride in responsibly managing our natural resources. From productively managing our agricultural land and bountiful minerals to wildlife and its habitat, Wyoming is a recognized leader. Wyoming's people consider properly managing natural resources a way of life, part of our cultural identity, and a legacy we will give to our children and grandchildren.

Wyoming energy powers the nation. In these

times, an all-of-the-above energy philosophy is paramount. That means we remain committed to our legacy energy sources such as oil, natural gas, coal and traditional mining - knowing we can always improve how we use them. And we embrace new energy technologies such as renewables, hydrogen, advanced nuclear, carbon capture and rare earth and critical material as essential to a prosperous future. Why limit our possibilities? Our battle should not be over the

source of energy, but how fast we can deploy the technologies to manage CO_2 while maintaining the highest reliability at the lowest cost.

Change and innovation are inevitable - they always have been. Science and engineering are poised for trailblazing advances which will transform technology, improve natural resource management, enhance outdoor recreation, and cultivate agriculture. Wyoming is the tip of the spear, and the University of Wyoming is at the epicenter of research and technology development. Wyoming is solving the challenges of our time - not with talk but with action. Preserving the U.S. economy, our way of life, and national security demands all the energy Wyoming can produce. Wyoming is recognized for being forward-thinking on climate and energy. We can proudly point to significant accomplishments which establish Wyoming's energy and environmental leadership. We are poised to do more.

In 2022, the Wyoming Legislature established the Energy Matching Funds to invest in and

spur innovation and transformative projects. And, according to the Tax Foundation, for more than a decade, Wyoming has offered the "Best Business Friendly Tax Climate in the US" with no personal or corporate income tax, very low property tax, no value-added tax, no gross receipts tax, sales tax exemptions for manufacturing, and a state government committed to low regulation and business-friendly policies.

Wyoming's economy is already diversifying,

and we know her people will be the driving force of her future, as they have always been. I remain dedicated to ensuring that Wyoming's people create their own future and are a part of and benefit from our efforts. That includes creating and keeping a nimble, skilled, and ambitious workforce, which was the impetus for launching the Wyoming Innovation Partnership (WIP). WIP brings together education, workforce development, and industry to foster economic development, ensuring Wyoming's people are equipped and ready to seize the days ahead when opportunity knocks.



WHEN IT COMES TO WYOMING ENERGY, MORE IS MORE

By: Rob Creager, Executive Director, WEA

Last fall, fossil fuels made headlines as delegates at the UN Climate Change Conference in Dubai announced an empty deal to transition "away from fossil fuels in energy systems." As it stands, 80 percent of the world's energy comes from coal, oil, and natural gas resources. Wyoming produces 40 percent of our country's coal and ranks 8th overall in crude oil production and 9th in natural gas production.

While the debates over the virtues of fossil fuels have taken up a lot of headline space, we here in Wyoming know better. There is a glaring omission to this so-called deal – but it is something that I, as the Executive Director at the Wyoming Energy Authority (WEA), am laser-focused on.

The demand for energy is heading inexorably in one direction – upward. Not by a little, but by a lot. The Energy Information Administration (EIA) has been projecting that world energy consumption will grow close to 50 percent by the year 2050.

The simple truth is that we will need all kinds of energy to meet these rising demands and to do so in a way that does not compromise reliability or affordability. From coal to wind to natural gas to nuclear, more is more.

Luckily, Wyoming has abundant natural resources and the cando mindset to capitalize on this challenge. From fossil fuels to world-class wind, to the largest uranium reserve in the nation, and newly discovered rare earth elements, we have it all. We have an opportunity to steer our country to a new energy future as an honest, reliable, and pragmatic partner. We have an opportunity to show, not just tell, our country's leaders and anyone else who will listen that the future of energy is a future that embraces not just one source or another.

Through investments that support research, development, and innovation, the state of Wyoming's goal is to advance the production of Wyoming-sourced energy. The WEA was created in 2020 by merging the scopes of the Wyoming Infrastructure Authority, the Pipeline Authority, and the State Energy Office – effectively consolidating the state's energy agencies into one entity designed to coordinate across the energy spectrum to advocate, facilitate, and advance our energy economy effectively. We believe that supporting a broad, diversified energy portfolio is critical to Wyoming's future.

As Governor Gordon accurately portrayed Wyoming's approach in a recent "60 Minutes" interview by saying, "We want to be part of the solution. There are some really remarkable things that if we stop talking about what we shouldn't do and start talking about what we can do and how we can embrace that future." This is the future that the WEA will champion.

One of the ways we are achieving that future is through the Energy Matching Funds, appropriated by the Wyoming Legislature and delegated to our office by Governor Gordon. This source of cost-share funding is intended to spur innovation and to provide incentives to energy projects looking to site in Wyoming.

The ten projects awarded by the Energy Matching Funds demonstrate exactly how this state can improve and advance our legacy forms of energy while embracing new forms, all while increasing the resiliency of our energy economy. BWXT Advanced Technologies' microreactor assessment project is a great example of this. The vision of this nuclear project is to assess the viability of not just producing nuclear power but creating the full nuclear value chain from manufacturing and deploying a microreactor fleet to supplementing Wyoming's existing power generation.

This approach is attracting the attention of Wyoming's trona and manufacturing industries – both L&H Industrial in Gillette and Tata Chemicals in Green River recently partnered to collaborate with BWXT AT and bring a whole of Wyoming approach to this emerging industry. If these microreactors prove successful, this project could both generate crucial manufacturing jobs for Wyoming and help one of our most valuable industries remain competitive in a global market.

The second project capitalizes on Wyoming's pioneering efforts around Class VI well primacy. This project will drill three wells designed to inject carbon dioxide permanently underground. The Sweetwater Carbon Storage Hub, a public-private project between the University of Wyoming School of Energy Resources, Frontier Carbon Solutions, and the federal CarbonSAFE initiative, intends to develop a permanent carbon management solution for Wyoming's fossil fuel industry, prolonging it for future generations. Projects like this are vital for our fossil fuel industry, and Wyoming will continue to be a leader in this space.

With this groundbreaking funding source, we have a unique opportunity to support the future of Wyoming energy – and the nation's energy – today. The first round of Energy Matching Fund projects received \$19.1 million, leveraging \$52.1 million of federal or private funds. The second round of projects has even



ROB CREAGER, EXECUTIVE DIRECTOR, WEA

more robust numbers: \$37.5 million worth of projects were funded, leveraging \$127.1 million. With the third round of funding approved in April of 2024, the total amount awarded by Wyoming comes to \$67.7 million, leveraging \$186.6 million of outside funding – almost three times the state's investment.

The answer to our world's urgent energy needs will not be solved by excluding entire categories of energy systems. This is not an either-or solution but an everythingwe-have solution. Fortunately, Wyoming has a lot to work with in terms of resources and willingness, and we are determined to use it.





RECENT WYOMING ENERGY PROJECTS

1. AMERICAN RARE EARTH, HALLECK CREEK, ALBANY COUNTY

American Rare Earths's exploration in Albany County recently announced stellar findings of higher concentrations of minerals than previously thought. The project is moving towards test mining at the Halleck Creek Project in Wyoming, one of North America's largest deposits of rare earths. It has filed an application with the Wyoming Department of Environmental Quality.

2. ATR PARTNERS, ALPHA ENRICHED AIR ENHANCED OIL Recovery, Carbon Sequestration and Hydrogen Production Pilot Project, Campbell County*

This project aims to recover an additional 4.8 million barrels of oil from Alpha Field by using enriched air for enhanced oil recovery. The enriched air provides increased efficiency, which has been made possible by recent advancements in air separation technology.

3. BLACK HILLS ENERGY AND BABCOCK & WILCOX, BRIGHTLOOP™ - BLUE HYDROGEN DEMONSTRATION PLANT, GILLETTE*

While currently in the planning and design phase, once constructed, this facility will demonstrate the groundbreaking chemical looping process, BrightLoop, to produce fifteen metric tons of hydrogen a day. The final project would serve as the foundation for expanded hydrogen production using Powder River Basin coal, not only from the WyoDak mine but from other sites across Wyoming, creating new value streams for one of Wyoming's legacy resources.

4. BWXT ADVANCED TECHNOLOGIES, ASSESSMENT OF APPLICATIONS, Development of technologies & knowhow in wyoming, statewide*

The demonstration of a lead microreactor unit has the potential to supplement existing power generation resources to meet future growing energy needs. The lead unit would serve as a pilot plant for a fleet of microreactors that could be deployed across the state and region. The project has partnered with Green River's Tata Chemicals to determine end-use power generation and Gillette's L&H Industrial as a manufacturing partner.

JACKSON

YELLOWSTONE

BRIDGER TETON



* as Energy Matching Funds



5. COWBOY CLEAN FUELS TRIANGLE Unit Carbon Capture and Storage Projects, Campbell County*

The project, which uses the byproducts of sugar beet refining as feedstock, dilutes and injects the byproducts into deep coalbed methane wells. The feedstock is naturally converted into CO_2 , which gets permanently sequestered by hydrostatic pressures, and methane, which can be brought to market.

6. EXXONMOBIL CARBON CAPTURE, LA BARGE

An expansion project is underway at the facility to capture up to 1.2 million metric tons of CO_2 in addition to the 6-7 million metric tons already captured each year.

7. FLOWSTATE SOLUTIONS, CO, AND HYDROGEN PIPELINE SAFETY: AI-DRIVEN LEAK DETECTION, CASPER*

Using an innovative AI-driven leak detection solution, Flowstate aims to enhance pipeline transport safety and efficiency for Wyoming's core energy sectors. By providing advanced leak detection for pipelines (for CO₂, hydrogen, natural gas, etc.), the technology ensures fewer disruptions, reduces product loss and revenue impacts, and helps companies comply with regulations.

8. JONAH ENERGY, PINEDALE

In 2021, Jonah achieved the Gold Standard, awarded to companies that develop verified emissions measurement, for its initial data submission to the United Nations-sponsored Oil and Gas Methane Partnership 2.0 (OGMP 2.0). The multi-year efforts to innovate around emissions monitoring, measurement, and reduction have resulted in one of the lowest documented emissions profiles of any producer in the country.

9. MEMBRANE TECHNOLOGY AND RESEARCH, CARBON Capture and storage activities at basin Electric's DRY Fork station, Gillette*

Working at Wyoming Integrated Test Center, MTR is advancing its innovative membrane-based post-combustion carbon capture process through the final pre-commercial stage of development. The goal of this project, which is partially funded by the Department of Energy, is to design, build, and operate a 150-tonne-per-day CO_2 large pilot plant using a 10-megawatt-electric (MWe) equivalent slipstream of flue gas from a coal power plant, achieve a greater than 90% CO_2 capture rate, and produce pipeline-quality CO_2 .

10. POWER COMPANY OF WYOMING, CHOKECHERRY AND SIERRA MADE WIND ENERGY PROJECT, RAWLINS

When completed, the Chokecherry Sierra Madre will be the largest on-shore wind farm in North America at around 3,000 megawatts of nameplate capacity.

11. RAMACO BROOK MINE, SHERIDAN

In May of 2023, Ramaco announced their discovery of a major deposit of REEs, potentially the largest in the United States and worth \$37 billion, at the Brook Mine outside of Sheridan. This followed eighteen months of extensive core drilling and independent chemical analysis in partnership with researchers from the Department of Energy's National Energy Technology Laboratory and geologists at Weir International, Inc.

12. RARE ELEMENT RESOURCES BEAR Lodge Project, Upton

Rare Element Resources's Bear Lodge Project in northeastern Wyoming is developing what could be another North American source of rare earth elements. With its expected over forty-year life, the project has the opportunity to produce many of the critical rare earths necessary to support today's evolving technologies. Construction began in December 2023.

13. ROCKY MOUNTAIN POWER GATEWAY SOUTH TRANSMISSION LINE, MEDICINE BOW

Rocky Mountain Power's 416-mile, single-circuit, 500-kilovolt, overhead, alternating-current transmission line will link the Medicine Bow to Mona, Utah.

14. SOUTHERN POWER SOUTH CHEYENNE Solar, Cheyenne

Under development, this solar project on 1,391 acres will generate 150 megawatts, with a short transmission line running north to a Black Hills Energy substation. The permit was approved in January 2023, and construction is scheduled to be completed in 2024.

15. TERRAPOWER[™] NATRIUM[™] REACTOR DEMONSTRATION PROJECT, KEMMERER

The site of TerraPower's first advanced nuclear reactor will be operational in approximately seven years.

16. TALLGRASS ENERGY EASTERN WYOMING SEQUESTRATION HUB, LARAMIE COUNTY

The project is studying the potential to sequester CO₂ in the Wyoming Denver-Julesburg Basin to support the development of a commercial-scale sequestration hub in Eastern Wyoming. The information from this phase will provide the basis for a full implementation of a regional sequestration hub, which includes Tallgrass's development of a multi-state CO₂ transmission system.

* as Energy Matching Funds

17. UNIVERSITY OF WYOMING, INTEGRATION OF PRODUCED WATER THERMAL DESALINATION AND Steam Methane Reforming for Efficient Hydrogen Production, Wamsutter*

Steam methane reforming is a well-established technology for producing hydrogen, requiring methane and clean water. The UW team is designing, building, and field-testing a supercritical water desalination and oxidation unit, integrated with steam methane reforming functionality, to ultimately produce one ton of hydrogen a day using produced water at a cost of around 15% below existing methods. This system will be transportable for demonstration at other Wyoming locations.

18. UNIVERSITY OF WYOMING AND FRONTIER Carbon Solutions, Sweetwater Carbon Storage Hub, Granger*

The Sweetwater Carbon Storage Hub will work to further legitimize efforts for large-scale carbon sequestration in Southwestern Wyoming by seeking to complete site characterization and preparation for permitting Class VI wells. The potential of successful large-scale carbon sequestration poses a myriad of benefits to Wyoming – including extending the life of Wyoming's legacy resources by providing carbon management solutions for difficult-to-abate industrial processes.

19. VISIONARY METALS CORP, KING SOLOMON NICKEL AND COBALT PROJECT, FREMONT COUNTY*

The geologic research and development project focuses on evaluating Wyoming's mineral resource potential for nickel, cobalt, and platinum group elements. Byproducts from the deposit could also include copper.

20. WILLIAMS SOUTHWEST WYOMING HYDROGEN HUB ECHO SPRINGS FEASIBILITY STUDY, OPAL

A nearly \$1 million feasibility study grant was awarded by the Wyoming Energy Authority to evaluate water access, compatibility and asset integrity in support of green hydrogen production and transport near Wamsutter and Opal, Wyoming. The study concluded that dedicated hydrogen pipelines are needed, but existing natural gas compressors are compatible, modern turbines require small adjustments, and water is available.

21. THE WILLIAMS ECHO SPRINGS CARBONSAFE STORAGE AND COMPLEX FEASIBILITY STUDY, WAMSUTTER*

This feasibility study assesses the development of a saline CO_2 storage hub near Williams' Echo Springs gas plant near Wamsutter, Wyoming. The team will drill one stratigraphic test well, sample six stacked formations, produce a model of CO_2 injection and develop all supporting documents for a Class VI permit to enable further development of the site.



INDUSTRY PROFILE **LEGACY INDUSTRY PROFILE**



THE WYOMING OIL AND GAS INDUSTRY EMPLOYED MORE THAN 19,000 PEOPLE WITH AN ANNUAL PAYROLL OF NEARLY \$1.12 BILLION IN 2019. (PETROLEUM ASSOCIATION OF WYOMING, 2023)

OIL

Wyoming currently ranks 8th in the nation in crude oil production, averaging 244,000 barrels daily in 2022, accounting for slightly more than 2% of U.S. total crude oil output. *(U.S. Energy Information Administration (EIA), 2023)* Wyoming has five petroleum refineries with a total operable capacity of 168.5 Mb/day. *(U.S. Department of Energy, 2021)*

Wyoming has:

- 4,257 miles of crude oil pipelines
- 1,379 miles of refined product pipelines

GAS

Wyoming is 9th in the nation in natural gas marketed production, producing 1,109,232 million cubic feet in 2021, accounting for approximately 3% of U.S. marketed gas production. The state is home to 28 natural gas processing facilities with a total of 5,979 MMcf/day capacity. Wyoming has two liquefied natural gas (LNG) facilities with a total storage capacity of 6,051 barrels.

Wyoming has:

- 6,838 miles of natural gas transmission pipelines
- 5,429 miles of natural gas distribution pipelines

According to EIA, Wyoming ranks among the top 10 states in both natural gas reserves and marketed natural gas production. Wyoming has nine natural gas underground storage sites that can hold a combined 156 billion cubic feet of gas, approximately 1.7% of the U.S. total storage capacity. Despite this production, Wyoming ranks 33rd in the nation in total carbon dioxide emissions, producing 59.1 million metric tons.









COAL

Wyoming currently ranks 1st in the nation in coal production, producing 238,773 thousand short tons in 2021. (U.S. Energy Information Administration, 2023) Wyoming has been the top coal-producing state since 1986, accounting for about two-fifths of all coal mined in the United States in 2020. The state holds nearly twofifths of U.S. coal reserves at producing mines. According to the EIA, Wyoming has ten major coal fields, including eight of the ten largest coal mines in the nation.

Wyoming coal mines employed just over 51,000 workers directly in the industry in 2019, collecting an average wage of \$93,905, excluding benefits. A coal miner's take-home pay is nearly twice the statewide average wage of \$49,756 per worker.

CARBONTECH

Coal and carbon are essential resources for products beyond electricity generation. Some of the applications include:

- Building and construction products
 - Char-bricks
 - Drywall boarding
 - Plaster
 - Structural members
 - Roofing and waterproofing materials
- Health care products
- Electrical devices
- Agricultural products
 - Soil fertility
- Asphalt and paving materials and products
- Carbon fiber mats
- Phenol

INDUSTRY PROFILE

CARBON CAPTURE UTILIZATION AND SEQUESTRATION (CCUS)

CARBON MANAGEMENT LEADER

With an abundance of natural resources, Wyoming is known as the "Energy State," and for good reason. Wyoming consistently ranks high in traditional, emerging, and renewable energy sources.

BUSINESS ENVIRONMENT

Wyoming has been a leader in energy for more than 100 years and is home to a highly-skilled, well-trained workforce with a high energy IQ. Wyoming knows what it takes to support major energy projects, and the state has a history as the nation's leader on energy issues.

POTENTIAL

With the existing pipelines for transporting, using, and storing CO_2 in place, Wyoming is ready for continued CCUS development. The Wyoming Pipeline Corridor Initiative allocated corridors for the future use of pipelines associated with CCUS. Approximately 2,000 miles of pipeline corridors throughout Wyoming have been identified as essential. In terms of sequestration, Wyoming has Class VI wells primacy for CO_2 injection and geological formations suited for sequestration. The Enhanced Oil Recovery Institute has in-depth mapping demonstrating the potential for CCUS.





The Wyoming Pipeline Corridor Initiative (WPCI) establishes corridors on public lands dedicated for future use of pipelines associated with carbon capture, utilization and storage (CCUS), enhanced oil recovery (EOR) and delivery of associated petroleum products.

CO₂ SOURCES

INDUSTRY TYPE SIZED BY CAPTURABLE CO,

- 🛁 Power Plants
- 🛁 Gas Processing
- 📫 Trona
- Cement Processing
- Refinery
 Chemical Manufacturing
- CO, Storage Projects
- WYOMING PIPELINE CORRIDOR INITIATIVE
- Lateral Line
- Trunk Line
- Geologic Storage



A FUTURE FOR CCUS IN WYOMING

WYOMING CARBONSAFE PROJECT

Wyoming CarbonSAFE is focused on investigating the feasibility of practical, secure, permanent geologic storage of carbon dioxide (CO_2) emissions from coal-based electricity generation facilities near Gillette, Wyoming. The study will include the collection of data from these formations and will also investigate regulatory and business issues related to implementing a CO_2 storage site in the region.

EXXONMOBIL

The company plans to expand existing carbon capture and storage operations at its LaBarge, Wyoming facility, which has already captured more CO_2 than any other facility in the world. The expansion project will capture up to 1 million metric tons of CO_2 , in addition to the 6-7 million metric tons already captured each year.

INTEGRATED TEST CENTER

One of the only such facilities in the world and the largest in the U.S., the Integrated Test Center provides space for researchers to test Carbon Capture, Utilization and Sequestration (CCUS) technologies using 20 MW of actual coal-based flue gas at the Basin Electric facility. Along with testing capture technologies, additional research looks at taking flue gas and turning it into a marketable commodity. The ITC is one of the few research and testing facilities at an operating coal-fired power plant, allowing for real-world testing at an active power plant, alleviating typical concerns over being able to transfer technology from a lab to a plant.

SUPPORTED INDUSTRY RESEARCH & TRAINING PROGRAMS

UNIVERSITY OF WYOMING SCHOOL OF ENERGY RESOURCE'S CENTER FOR ECONOMIC GEOLOGY RESEARCH (CEGR)

CEGR research scientists actively collaborate with industry, the state of Wyoming, local governments, and national laboratories to characterize Wyoming's vast subsurface resources for carbon dioxide sequestration, oil and gas recovery, and mineral extraction.

INDUSTRY PROFILE

NUCLEAR

ENERGY LEADER

Wyoming is known as the "Energy State," and for good reason. Wyoming consistently ranks high in traditional, emerging, and renewable energy sources. In November 2021 TerraPower and Rocky Mountain Power announced the selection of the Naughton Plant in Kemmerer, Wyoming, as the site of the Natrium[™] advanced nuclear reactor demonstration project.

ENERGY CULTURE

Wyoming has been a leader in energy for more than 100 years and is home to a highly skilled, welltrained workforce. Wyoming knows what it takes to support major energy projects, and the state has a history as the nation's leader on energy issues. Many utilities have made significant investments in Wyoming's grid. Our state is pleased to be the home of this next generation of nuclear power facilities.

NUCLEAR ENERGY INDUSTRIAL DEVELOPMENT

As nuclear energy undergoes a renaissance in the United States, the State of Wyoming is at the forefront of nuclear energy research, development, and value-added industrial development in this space. Repatriating and growing the nation's energy supply chain, especially the supply chain around nuclear energy, is critical for our nation's security. Wyoming companies are at the forefront of new and advanced technological advances in supplying the nation's leading nuclear energy companies with critical components to ensure new nuclear technologies will be ready to deploy. Wyoming, along with the State of Idaho through the Intermountain West Nuclear Energy Corridor (INEC), has been designated one of the 31 Tech Hubs by the Economic Development Administration and the only hub dedicated to nuclear energy. Wyoming has been recognized as a leader in nuclear energy industrial development and looks forward to being the global leader in the nuclear energy renaissance.



"I am thrilled to see Wyoming selected for this demonstration pilot project, as our great state is the perfect place for this type of innovative utility facility, and our coalexperienced workforce is looking forward to the jobs this project will provide. I have always supported an all-ofthe-above energy portfolio for our electric utilities. Our state continues to pave the way for the future of energy, and Wyoming should be the place where innovative energy technologies are taken to commercialization."

- WYOMING GOV. MARK GORDON



SUPPORTED ENERGY RESEARCH CENTER

University of Wyoming, School of Energy Resources Nuclear Energy Research

Center. NERC seeks to connect and provide opportunities for research, economics, regulation and more in emerging nuclear energy markets and tackle important issues to help create a robust nuclear economy in Wyoming and the region.

TERRAPOWER

Beginning construction in the summer of 2024, the Natrium[™] demonstration plant is intended to validate the design, construction, and operational features of the Natrium advanced reactor technology. Along with PacifiCorp and GE Hitachi Nuclear Energy, members of the demonstration project team include engineering and construction partners Bechtel, Energy Northwest, Duke Energy, and nearly a dozen additional companies, universities, and national laboratories.

BWXT

Announced in 2023, BWXT is working on the demonstration of a lead microreactor unit that has the potential to supplement existing power generation resources to meet future growing energy needs. The lead unit would serve as a pilot plant for a fleet of microreactors that could be deployed across the state and region. The project has partnered with Green River's Tata Chemicals to determine end-use power generation and Gillette's L&H Industrial as a manufacturing partner.

URANIUM ENERGY CORP.

A recent announcement was made that UEC will be re-starting operations at the Christensen Ranch In-Situ Recovery operations in the Powder River Basin. Wyoming holds the largest deposit of uranium in the United States - estimated at 350 million pounds.

INDUSTRY PROFILE

WIND ENERGY

\$6 BILLION INVESTED BY WIND COMPANIES IN WYOMING

HALF OF THE BEST QUALITY ON-SHORE WIND CAPACITY IN THE CONTINENTAL UNITED STATES

3RD LARGEST IN WIND GENERATING CAPACITY IN THE US IN 2020 ³

WIND IN WYOMING

ENERGY LEADER

With abundant natural resources, Wyoming is known as the "Energy State," and for good reason. Wyoming consistently ranks high in traditional, emerging, and renewable energy sourcesincluding wind. The "Energy State" was named first of 11 states in the Mountain West and Pacific Northwest regions by the National Renewable Energy Laboratory (NREL) for Developable Nameplate Wind Power Production by class.

BUSINESS ENVIRONMENT

With a tax climate extraordinarily favorable for business, higher education programs to develop a workforce skilled in wind energy technology and wind resources consistent with utility-scale production, Wyoming is poised to be a leader in the wind power industry.

POTENTIAL

There are approximately 8 gigawatts (GW) of proposed and under construction wind energy in Wyoming, and 472 GW of technologically possible capacity. The proposed 8 GW is enough energy to power almost 6 million homes, 20 times the number of households in Wyoming.

ŹZGZBAW OF PROPOSED/PLANNED INSTALLATION

WYOMING'S WIND PROJECTS

CHOKECHERRY SIERRA MADRE WIND ENERGY PROJECT

Currently under construction in Carbon County, Wyoming, this project will be the largest single wind power project in North America, and one of the largest in the world. The project is designed to have a nameplate capacity of at least 3,000 MW and is estimated to produce enough clean electricity to power approximately 1 million households, resulting in a reduction of CO_2 emissions of 7-11 million tons per year.

TRANSWEST EXPRESS

The Transwest Express is a highvoltage interregional transmission system extending 732 miles from central Wyoming to southern Nevada. Using both HVDC and HVAC technology, along with the midpoint terminal, will increase the flexibility and physical transmission capacity of the Western U.S. power grid. A critical energy infrastructure, TWE provides Western electricity markets with brand-new, direct access to Wyoming's geographically diverse, complementary, highcapacity wind energy supplies. Scheduled to be completed in 2027.

WORKFORCE TRAINING AND EDUCATION

There is a growing demand for jobs in the wind energy sector, including researchers, engineers, trade workers, technicians and transportation workers. Wyoming has developed programs at both the university and community college levels.

- The Wind Energy Research Center (WERC) at the University of Wyoming's (UW) School of Energy Resources is a collaboration with the College of Engineering and Applied Science dedicated to improving wind energy technology and its applications in Wyoming.
- The Wind Energy program offered at Laramie County Community College provides students with the critical skills needed to become successful technicians in the rapidly growing market.



INDUSTRY PROFILE HYDROGEN

HYDROGEN IN WYOMING

ENERGY LEADER

With an abundance of natural resources, Wyoming is known as the "Energy State," and for good reason. Wyoming consistently ranks high in traditional, emerging, and renewable energy sources, including hydrogen. Wyoming has 25% of the nation's hydrogen production feedstock from both hydrocarbon and renewable resources, existing export infrastructure to reach high-value markets such as California and the Rocky Mountain metropolitan areas, and infrastructure for managing and storing CO₂ from blue hydrogen.

BUSINESS ENVIRONMENT

Our state has a tax climate extraordinarily favorable for business and higher education programs to develop a workforce skilled in hydrogen technology. Wyoming's favorable business environment includes easy access to year-round recreational opportunities and wide-open spaces. Here, recreation and economic opportunity go hand-in-hand. With our tax-friendly climate and workforce training grants, Wyoming understands and supports all forms of energy development.

POTENTIAL

- 25% of national hydrogen production feedstock
- · Green and blue hydrogen production and potential export hubs
 - · Existing export infrastructure to reach high-value markets
 - · Local offtake potential at retiring coal power generation stations or the Rocky Mountain metropolitan areas
 - · Infrastructure for blue hydrogen includes
 - CO₂ transportation infrastructure
 - Geological formations for CO₂ sequestration

BUSINESS DEVELOPMENT

Black Hills Energy, a utility company, has analyzed with GE how to modify their existing natural gas generators at their Cheyenne Prairie generating station to use up to a 30% blend of hydrogen.

Williams Companies has evaluated production and transportation of green hydrogen, including what the best methods are for transporting hydrogen using existing infrastructure, as well as identifying water sources for proposed electrolysis.

Babcock & Wilcox, together with Black Hills Energy and Ohio State University, completed an engineering study to review the techno-economic feasibility of producing low carbon intensity hydrogen gas from Wyoming coal using an oxidation and reduction chemical processing system to convert coal to generate hydrogen.



A HYDROGEN ECONOMY

ROADMAP TO BUILD A Hydrogen Economy

Wyoming's Hydrogen Roadmap provides a course of action with specific roles and responsibilities for various stakeholders for five years, from 2022 to 2026. This roadmap leverages the combined strengths of these stakeholders to deliver on our shared vision while simultaneously addressing the challenges that must be overcome.



SUPPORTED INDUSTRY RESEARCH PROGRAMS

UNIVERSITY OF WYOMING, SCHOOL of Energy resources hydrogen Energy research center

H2ERC conducts advanced research on key technical aspects of the hydrogen production, delivery, and deployment sector and how they complement and enhance Wyoming's already robust energy sector, helping to diversify its economy. They recently received an award from the Department of Energy and the Wyoming Energy Authority to lead a collaborative project integrating a produced water thermal desalinization technology along with autothermal or steam methane reforming (ATR/SMR) for efficient hydrogen production.

INDUSTRY PROFILE EMERGING INDUSTRY PROFILE

In the true spirit of frontier exploration and innovation that encapsulates the state's all-of-the-above energy strategy, Wyoming is a leader in new and developing energy industries. Building off our heritage resources, Wyoming is leveraging the state's high IQ in energy to develop technologies that will enhance America's energy security in the 21st Century.

SOLAR

Wyoming saw its first utility solar project built in 2019, with additional interest in commercial solar projects around the state. In the 2020 Wyoming State Legislative session, Senate File 0036 – Large-scale solar and wind energy facilities – placed the permitting of commercial-scale solar projects (more than .5 MW of power) under Wyoming's Industrial Siting Council.

Enbridge has plans to build Wyoming's largest solar farm with construction beginning in 2025. Located on approximately 4,000 acres southwest of Cheyenne, the proposed Cowboy Solar Project would generate just under 800 MW of power, and will help power the growing data center industry in the city.

INDUSTRIAL, CRITICAL AND RARE EARTH MINERALS

Wyoming mines the most uranium in the United States, producing approximately 173 thousand pounds in 2019 and employing 125 people. Wyoming's known reserves are estimated at 350 million pounds.

Wyoming is blessed with an abundance of industrial minerals and rare earth elements (REEs) and is the number one producer of both trona and bentonite. These industrial minerals are found in everyday items such as kitty litter and plastics, are critical











elements in the production of wind turbines and solar panels, and are currently being researched for further use and as part of the increased interest in coal-to-products development.

Wyoming hosts significant deposits of REEs and other critical minerals. Our coal reserves have a variety of rare earth elements. Economic mineral commodities such as gold and copper and strategic mineral commodities such as uranium and helium are also found in Wyoming. When coupled with historical data and a proven mineral extraction history, Wyoming is uniquely positioned to become a national leader in developing domestic critical mineral production.

POSITIONING WYOMING FOR GROWTH

HB61 SOURCE MATERIAL ASSOCIATED WITH MINING-AGREEMENT

HB61 passed during the 2023 Legislative Session. This act authorizes the Governor to negotiate on behalf of the state of Wyoming with the federal Nuclear Regulatory Commission (NRC) for the state to assume primary regulatory authority over source material byproduct (generally, uranium or thorium) recovered from any mineral resources, like rare earth elements, that occurs from mining in the state.

BEAR LODGE PROJECT

Rare Element Resources is positioning the Bear Lodge Project in northeastern Wyoming to be the next North American source of rare earth elements. With its premier location and expected +40-year life, the project has the opportunity to produce many of the critical rare earths necessary to support today's evolving technologies.

HALLECK CREEK RARE EARTHS PROJECT

American Rare Earths is a rare earths exploration project located in the central Laramie Mountain range of southeastern Wyoming. With a globally significant exploration target of over one billion tonnes of mineralized rare earth rocks, the 100% owned Halleck Creek project has the potential to be among the largest rare earths deposits in the United States.

WHY WYOMING?

Ranked as the nation's "Most Business-Friendly Tax Climate" since 2013, Wyoming offers a pro-business mindset, industry incentives, a skilled workforce, and wide open spaces full of adventure that allow businesses and people to thrive.

Wyoming's higher education institutions continue to take a prominent role in fostering economic diversification, entrepreneurship, and innovation. The Wyoming Innovative Partnerships (WIP), created in 2021 by Governor Gordon, is a collaboration to align education and workforce development in order to support innovation, entrepreneurship, and research to help drive Wyoming's economy. WIP supports economic growth and efforts to build a highly-skilled, ambitious, and qualified workforce by linking community goals with the state's economic strategy. This partnership will be driven by data to ensure a return on investment for the people of Wyoming.

Building a strong workforce is important to the growth Wyoming has seen in the manufacturing and energy sectors in recent years. Other initiatives to support this growth can be seen from **Manufacturing Works** and the **Wyoming Innovative Entrepreneurs**, as well as **Wyoming's Manufacturing Sales Tax Exemption.**

Manufacturing Works, housed at the University of Wyoming, is Wyoming's NIST MEP center and assists Wyoming manufacturers, producers and entrepreneurs in increasing their productivity and performance, growing their revenues, as well as strengthening their global competitiveness. They tailor their services to meet the critical needs of Wyoming manufacturers. Wyoming's Innovative Entrepreneurs (WIE) exists to grow and diversify Wyoming's economy by helping Wyoming entrepreneurs think big and tap into information and resources that help them upgrade and accomplish their individual missions and increase their company's longevity. WIE is an affiliate of the Alliance of Wyoming Manufacturers, a nonprofit membership organization for Wyoming manufacturers focused on maintaining a legislative and regulatory environment that supports and encourages the growth of Wyoming's manufacturing economy.

The Manufacturing Sales Tax Exemption exempts the sales tax burden on the sale or lease of machinery to be used directly and predominantly in manufacturing tangible personal property, as well as the sales of power or fuel to a person engaged in the business of manufacturing, processing or agriculture when the same is consumed directly in the manufacturing process.

The state of Wyoming is incredibly business-friendly, not just economically, but in our regulatory environment as well as the open access to policymakers and influential leaders in our tight-knit state.

CHECK OUT THE FOLLOWING PAGES TO SEE OTHER WAYS WYOMING CAN HELP YOUR BUSINESS!



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WYOMING BUSINESS COUNCIL

Members of the Wyoming Business Council team and board on an underground trona tour at Sisecam in Green River, Wyoming.

Through leadership, policy, and investments, the Wyoming Business Council (WBC) stands firmly upon Wyoming's heritage while advancing innovation, business creation, and growth in order to build resilient communities and create opportunities to thrive. We envision a future where traditional Wyoming values and innovation go hand-in-hand to create opportunities so communities can confidently withstand economic uncertainties and continue to thrive for generations to come.

Created in 1998, the WBC is a team of passionate professionals with a wide breadth of knowledge and expertise in recruitment, development, and investment services. Our team is focused on creating new opportunities for current and future generations of Wyomingites by adding value to Wyoming's core industries (natural resources, tourism and outdoor recreation, and agriculture) and leveraging them to activate new economic sectors such as healthcare, financial, scientific and professional services, digital and technology, arts and culture, and advanced manufacturing.

The Business Council is headquartered in Cheyenne with offices in Casper, Cody, Evanston, Laramie, Riverton, Torrington, and Wright.

Find out more about the WBC's mission and its approach to

economic development at wyomingbusiness.org/about.

Wyoming offers the most businessfriendly tax climate in the US, a pro-business attitude, and wideopen spaces full of adventure. With a skilled workforce and industry incentives, Wyoming is a great place to grow a business.



LEARN MORE

Wyoming offers and how the Wyoming Business Council can help your business





WYOMING ENERGY AUTHORITY

As the State of Wyoming's department of energy, the Wyoming Energy Authority advocates, facilitates and advances Wyoming's energy economy. Created in 2020 by the Wyoming State Legislature, the WEA merged the Wyoming Infrastructure Authority, the Wyoming Pipeline Authority and the State Energy Office.

The Wyoming Energy Authority supports the growth of a secure and prosperous future for Wyoming's energy and natural resources. This includes harnessing the full value of our energy resources with an allof-the-above energy mix: products from our legacy industries, along with the newer players of renewable energy and emerging opportunities in CCUS, hydrogen, advanced nuclear, geothermal, and rare earth elements.

Wyoming's energy resources cover the entire spectrum, including all sources of generation and extraction, distribution through transmission lines, pipelines and export facilities, and end-use and consumption. We know that energy development and the protection of our environment can go hand in hand, and we consistently support energy technology research, commercialization, and deployment to continue moving our industries forward.

The WEA coordinates with the entire energy spectrum, empowering collaboration, innovation and growth by:

- Promoting and supporting the development of commercial energy projects.
- Preserving existing markets while identifying and pursuing new areas for market development.
- Promoting Wyoming's energy resources and providing education, data and resources with the benefits of Wyoming's energy assets.
- Leveraging financial opportunities to develop efforts conducive

to the sustainability of the energy sector in Wyoming.

- Leveraging Wyoming's diverse energy resources for the benefit of Wyoming citizens while preserving environmental stewardship.
- Supporting the progression of innovative technologies and practices into the Wyoming energy sector.
- Navigating the Wyoming energy sector through emerging opportunities and helping frame best practices for other communities and states.
- Developing and promoting public policies and regulations to ensure the sustainable use of Wyoming's energy resources.







School of Energy Resources

THE UNIVERSITY OF WYOMING SCHOOL OF WYOMING SCHO

The School of Energy Resources (SER) at the University of Wyoming collaborates with stakeholders at the state, national, and international levels to advance energy



technologies and policies to grow and support Wyoming's robust energy sector. SER's mission is energy-driven economic development for the state of Wyoming. In upholding its mission, SER is dedicated to achieving excellence in its three pillars -- energy education, outreach and research.

Academics

Fully interdisciplinary and collaborative, SER capitalizes on partnerships with other University of Wyoming departments. Offering a B.S. degree in Energy Resource Management & Development and funding graduate students in departments across campus devoted to energy research, SER is training the future energy leaders of Wyoming.

Outreach

SER transfers technology and knowledge to a broad range of constituents. SER collaborates extensively with partners to provide timely access to information to stakeholders and Wyoming decision-makers about dynamic energy developments stemming from research.

Research

SER's research programs focus on maximizing energy production, minimizing the environmental footprint and leading technology innovation, always to benefit the state. Through its Centers of Excellence, SER bridges the gap between academia and industry – and ensures that the technology and policy solutions developed can be deployed.

SER provides funding for the Centers of Excellence (COE) to be established as mechanisms to bring together faculty and graduate students from multiple disciplines to develop important energy research programs. Work conducted in the COE's can stem from cutting-edge technical development to research and advocacy for policy and regulation.

Researchers at SER partner directly with businesses and organizations to perform the necessary research, testing, and modeling on energy topics. Projects are advanced toward commercialization with the goal of a full transition to industry and business entities for wide-scale deployment.





WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

The Wyoming Department of Environmental Quality (DEQ) consists of seven divisions: Air Quality, Water Quality, Solid and Hazardous Waste, Land Quality, Industrial Siting, Abandoned Mine Lands, and Administration. Together we ensure that Wyoming's natural resources are managed to maximize the economic, environmental and social prosperity of current and future generations. The department does this through a combination of monitoring, permitting, enforcement, remediation and restoration activities, which protect, conserve and enhance the environment while supporting the responsible development of Wyoming's resources.

INDUSTRIES WE SERVE

More than 5,000 businesses work with us each year to ensure that operations at more than 28,000 individual facilities throughout the state are in compliance with state and federal laws, rules and regulations.

Some of the businesses and operations include:

- · Oil and Gas Development
- Power Plants
- Large Industrial Projects

- Mining (Coal, Hardrock, Uranium, Rare Earth Minerals)
- Solar and Wind Farms
- Carbon Sequestration
- Supporting Wyoming's Environment and Energy Development

DEQ provides meaningful oversight to enable responsible economic development. Our agency staff is responsive to the needs of large and small businesses in Wyoming. We provide the guidance necessary to ensure that your business has the best information to comply with state and federal regulations and minimize environmental impacts.

A STEP AHEAD

The Wyoming Department of Environmental Quality received primacy over Class VI wells for Carbon Sequestration on September 3, 2020. Wyoming is one of only three states to have received primacy for implementing the Class VI program, and can complete permitting for a well in as little as 10 months.



WYONING DEPARTMENT OF WORKFORCE SERVICES



The Wyoming Department of Workforce Services (DWS) offers a variety of business support for the energy industry from business training and support to workers' compensation and apprenticeships and internship programs. Most services listed below are free and available to businesses throughout Wyoming.

BUSINESS TRAINING AND SUPPORT UNIT

- Administers Workforce Development Training Fund grants, including apprenticeship, internship, business training, pre-hire, and pre-obligation grants.
- Assists companies with training grants from application to reimbursement.
- Provides technical assistance in the establishment of Registered Apprenticeship programs.

WORKFORCE CENTERS

- Posts job openings and matches job seekers with available jobs.
- Assists with specialized recruitment and screening services.

RISK MANAGEMENT SERVICES

- Provides an understanding of your Workers' Compensation account, including the industry base rates and Experience Modification Rating (EMR).
- Ideas on how to be proactive in preventing injuries and methods to reduce costs after an injury has occurred.

- Offers discounts for safety programs, drug testing programs, and employers willing to invite and work with a Workers' Compensation Safety and Risk (WCSR) Safety Specialist or an Occupational Safety Health Administration (OSHA) Consultant.
- Utilizes Wyoming Safety Improvement Fund program to help businesses implement health and safety training programs, or assists with the purchase of health and safety equipment up to \$10,000.

WORKERS' COMPENSATION SAFETY AND RISK

- Identifies and addresses occupational safety and health hazards.
- Assists employers with tools to manage their safety and health processes better.
- · Improves workplace safety and health programs.
- Assists in reducing Workers' Compensation costs.
- Performs safety consultation and industrial hygiene consultation.
- Offers other services, including safety management assessment and advice, written safety and health program development assistance, safety culture assessment and behavior change process assistance, and safety team/committee development and enhancement.



WYOMING OIL AND GAS CONSERVATION COMMISSION





The Wyoming Oil and Gas Conservation Commission (WOGCC) was established by Wyoming Statute in 1951. For 73 years, the agency has overseen Wyoming's oil and gas activities in a manner that ensures the responsible development and management of Wyoming's oil and gas resources while providing appropriate environmental stewardship for Wyoming citizens. Nationally, Wyoming ranks 8th in oil production and 9th in natural gas production.

The WOGCC seeks to work cooperatively with industry during the entire life of a well: from establishing spacing units, permitting, drilling, completions, operations, and plugging and reclamation. The engineering team works with operators to prioritize the processing of drilling permits, and our team of inspectors works statewide to ensure safe and clean locations and facilities. As a government agency, we believe that an open line of communication is fundamental to the success of all stakeholders. The WOGCC regulates all Class II injection and disposal wells, including permitting, aquifer exemptions, drilling, injection reporting, witnessing required mechanical integrity testing, and plugging operations. Wyoming is at the forefront of carbon capture, utilization, and sequestration and the WOGCC helps facilitate that through the unitization of pore space for Class VI wells and through permitting of CO₂ EOR in Class II wells.

In today's world where data is king, it is more important than ever to make decisions based on robust and upto-date information. One of the most important functions that the WOGCC serves is as the data repository for the oil and gas industry for the state of Wyoming. We aim to provide easy access to accurate information for industry and the general public alike.





THE ENHANCED OIL RECOVERY INSTITUTE

The Enhanced Oil Recovery Institute (EORI) is the only technical group funded directly by the State of Wyoming exclusively devoted to improving and enhancing oil and gas recovery in Wyoming fields. Since 2004, the Enhanced Oil Recovery Institute has successfully accomplished its mission through direct collaborative work with the oil and gas industry in Wyoming providing high level technical support to minimize stranded reserves, increase production and add revenue to the State.

EORI:

- Provides a unique and significant service to the oil and gas industry exclusively in Wyoming.
- Works collaboratively with operators to seek solutions to improving production, increasing reserves, and extending the life of Wyoming fields.
- Maximizes the economic potential of the oil and gas industry in Wyoming.
 - Estimated increased oil production of over 40MM Barrels.
 - Estimated increased Severance Tax Revenue of over \$300MM.

- Encourages and facilitates testing and evaluation of technologies to improve oil recovery in Wyoming reservoirs.
- Benchmarks innovative petroleum industry practices and transfers "know-how" to Wyoming operators through workshops and industry meetings that highlight EORI project results.
- Support for pipeline transportation and development in Wyoming.

FOCUS AREAS:

- IOR and EOR Technologies Appropriate for Field Development
- Geologic Studies
- Reservoir Characterization
- Reservoir Modeling and Simulation
- · Field Pilots and Cost Share Projects



RESOURCES DRECTORY

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