INDUSTRY PROFILE

HYDROGEN

Wyoming BUSINESS COUNCIL

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 CO_2 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
    - CO_2 transportation infrastructure
    - Geological formations for CO_2 sequestration

BUSINESS DEVELOPMENT

Black Hills Energy, a utility company, is working with GE to analyze how to modify their existing natural gas generators at their Cheyenne Prairie generating station to use a blend of hydrogen.

Williams Companies is currently evaluating production and transportation of green hydrogen, including what the best methods are for transporting hydrogen using existing infrastructure, as well as providing water for proposed electrolysis.

Tallgrass Energy, as part of the Western Interstate Hydrogen Hub (WIH2), Tallgrass will produce clean hydrogen serving the power, transportation, and other industrial markets through its eH2Power project in New Mexico and Front Range Hydrogen project in Colorado and Wyoming.

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 over the next 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.

To view the roadmap, visit **wbc.pub/Hydrogen_Roadmap**

WESTERN INTERSTATE HYDROGEN HUB

This bipartisan, interstate coalition between Colorado, New Mexico, Utah, and Wyoming has been developing a regional strategy for the safe, clean, and sustainable use of hydrogen that will help to meet the region's diverse energy needs and policy goals, including reducing greenhouse gas emissions, using a broad range of feedstock to develop hydrogen, ensuring economic competitiveness, and supporting communities on the front lines of the energy transition. Eight projects across the four state region applied as WIH2 to be a hydrogen hub for the region.

SUPPORTED INDUSTRY RESEARCH PROGRAMS

UNIVERSITY OF WYOMING, SCHOOL OF ENERGY RESOURCES HYDROGEN ENERGY RESEARCH CENTER

A brand new developing center for advanced research into key technical aspects of the hydrogen production, delivery, and deployment sector, which stands to complement and enhance Wyoming's already robust energy sector, helping to diversify its economy.

FOR MORE INFORMATION

Wendy Lopez
wendy.lopez@wyo.gov
307.777.2806

Chance Price
chance.price@wyo.gov
307.286.2550