

*The low-cost, low-carbon solution for
the energy transition*

Iron Range Exploration is a technology-advanced natural hydrogen exploration company that has identified the presence of significant hydrogen reserves here in the United States. By leveraging its experience, a proprietary database, and a suite of data analytics tools, Iron Range Exploration aims to enable large-scale clean hydrogen production with 24/7 dispatchability and global reach. Iron Range Exploration is dedicated to the safety of people, community, environmental and cultural preservation along with overall operational excellence.

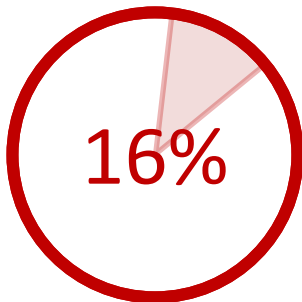
Natural Hydrogen at a Glance:

- Natural Hydrogen has the lowest carbon intensity score and utilizes under 10 acres of land
- Natural Hydrogen has no external water or energy inputs needed
- Natural Hydrogen could be the first primary energy source discovered since Nuclear

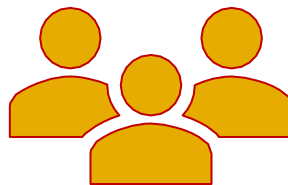
About Iron Range Exploration

Iron Range Exploration's team boasts extensive natural resource exploration experience, bringing together the best and brightest across the energy industry, including data scientists, seismologists, geologists, geochemists, and engineers.

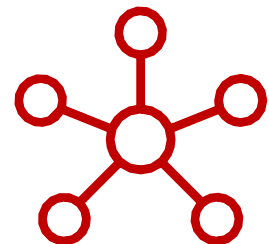
Iron Range Exploration seeks to demonstrate global leadership in delivering a new source of hydrogen with the potential to enhance energy security.



*Estimated Impact of the US H₂
Industry Reduction in CO₂
Emissions by 2050*



*Over 700k+ Jobs Expected to be
required by 2030 to support the
hydrogen market (per DOE
Hydrogen Fuel Shot)*



*Growing and Emerging Market: The
hydrogen market reached an estimated
87 Million Tons Per Annum (Mtpa) in 2020
and is expected to grow as much as
580Mtpa by 2050 according to McKinsey*

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Clean Hydrogen and the Energy Transition

Clean hydrogen has become a highly coveted energy transition fuel, enabling decarbonization in transportation, agriculture, steel production, high-grade industrial heat, and more. Natural hydrogen especially stands out when compared against the current hydrogen production technologies available today, as these other methods are energy-intensive, carbon-intensive, require many years to scale, and significantly disrupt the natural landscape. The Continental US contains significant natural hydrogen reservoirs which can be produced at large scale, around the clock (24/7), and with a low CO₂, land, and water footprint. **Natural hydrogen has the potential to be a game changer, introducing new use cases and driving market growth via low cost, scale, and certainty of supply.**

Natural Hydrogen Overview

Natural hydrogen is produced by geochemical water-rock reactions in source rock found across the globe, including many locations in the United States. Numerous natural hydrogen seeps and subsurface occurrences have been identified and studied worldwide. Bringing natural hydrogen to market requires discovery of reservoirs containing trapped hydrogen, production of that hydrogen through wells, gathering and purification at the surface, and reinjection of non-hydrogen gases.

This naturally occurring and regenerative gas offers tremendous potential to industrial looking for ample, affordable commercial-hydrogen.

Natural Hydrogen's Opportunity

Iron Range Exploration is focused on the full cycle execution required to deliver hydrogen at commercial scale, which will:

- Create domestic, high-paying quality jobs
- Provide economic uplift to mineral owners through lease bonuses and royalty payments
- Provide a new low-cost clean resource for process heat in steel and paper mills
- Enable greater growth in the synthetic fuels industry, which are critical for decarbonizing several key industries
- Fuel turbines or boilers at power plants, cutting emissions



Exploration Site