

Natural Hydrogen

Clean, Affordable, Reliable. No Compromises.

What Is Natural Hydrogen?

- Natural hydrogen is a gas that forms naturally when water reacts with iron-rich rocks in the Earth's subsurface in process called serpentinization
- This gas accumulates in underground reservoirs that can be accessed using proven methods and technologies
- Unlike manufactured hydrogen, it requires minimal land, water, and energy to extract, and has a low carbon footprint



Why is Natural Hydrogen a Low Carbon Energy Opportunity?

- It produces no carbon emissions when used
- It provides a low-carbon alternative to hydrogen made from fossil fuels
- It reduces dependence on foreign energy sources, minimizes environmental impact, and can fuel everything from data centers and aviation to agriculture and construction

Why are you focused in California?

- Iron-rich rocks are present up and down California because of the unique geology of the west coast of the North American continent
- Natural hydrogen has been detected in a variety of geologic settings across California, notably in and around the Coast Ranges indicating active geologic hydrogen generation and movement underground
- Koloma has one of the largest hydrogen data sets in the world and has conducted extensive analyses on where commercial production of hydrogen has the greatest potential to be found in commercial quantities. Field studies are needed to identify where commercial quantities of sub-surface hydrogen may be "trapped" underground
- The region has the potential to lead the way in natural hydrogen and pioneer a clean energy future