

Macro Roundup Article

Headline: [Hidden Hydrogen](#)

Article Link: <https://www.science.org/content/article/hidden-hydrogen-earth-may-hold-vast-stores-renewable-carbon-free-fuel>

Author(s)	Eric Hand
Publication	Science
Publication Date	February 17, 2023

Tweet: The US Geological Survey finds evidence of large stores of natural hydrogen, a source of carbon-free energy which might be enough to meet global demand for thousands of years. @erichand @ScienceMagazine

Summary: Contrary to conventional wisdom, large stores of natural hydrogen may exist all over the world, like oil and gas—but not in the same places. These researchers say water-rock reactions deep within the Earth continuously generate hydrogen, which percolates up through the crust and sometimes accumulates in underground traps. Critically, natural hydrogen may be not only clean, but also renewable. It takes millions of years for buried and compressed organic deposits to turn into oil and gas. By contrast, natural hydrogen is always being made afresh, when underground water reacts with iron minerals at elevated temperatures and pressures. There might be enough natural hydrogen to meet burgeoning global demand for thousands of years, according to a U.S. Geological Survey (USGS) model that was presented in October 2022 at a meeting of the Geological Society of America.

Related Articles: nan

Primary Topic: Global Warming

Topics: Factoid, Global Warming, News article, Science

Permalink: <https://www.edwardconard.com/macro-roundup/the-us-geological-survey-finds-evidence-of-large-stores-of-natural-hydrogen-a-source-of-carbon-free-energy-which-might-be-enough-to-meet-global-demand-for-thousands-of-years-erichand-sciencemagazi?view=detail>

Featured Image

Link: <https://www.edwardconard.com/wp-content/uploads/2023/02/Hydrogen-.png>