

## 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>

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**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.

**Primary Topic:** Global Warming

**Topics:** Factoid, Global Warming, News article, Science

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