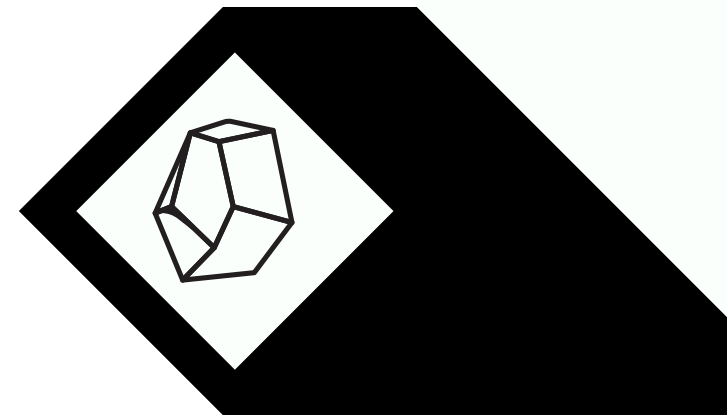


The Many Colors of Hydrogen

Although hydrogen is a colorless, odorless, clean-burning gas, some producers, marketers, and other organizations use a color code like the one below to categorize hydrogen based on the hydrogen source, production technology, and carbon capture.

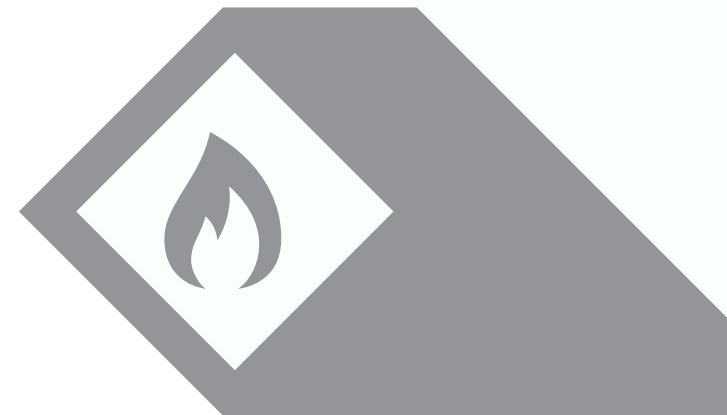
Black Hydrogen

Black hydrogen is produced with energy generated from bituminous coal.



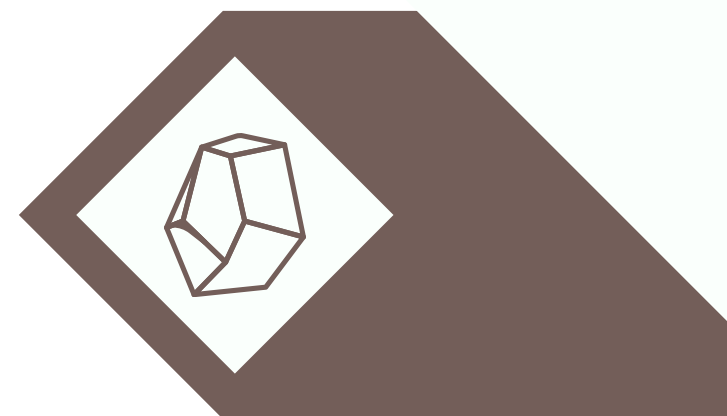
Gray Hydrogen

Gray hydrogen is produced with energy generated from natural gas or methane.



Brown Hydrogen

Brown hydrogen is produced with energy generated from lignite (brown coal).



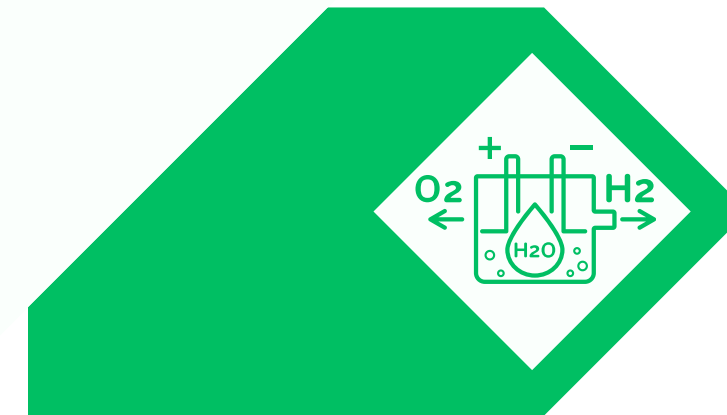
Blue Hydrogen

Blue hydrogen is produced with energy generated from natural gas or methane with carbon capture, utilization, and storage.



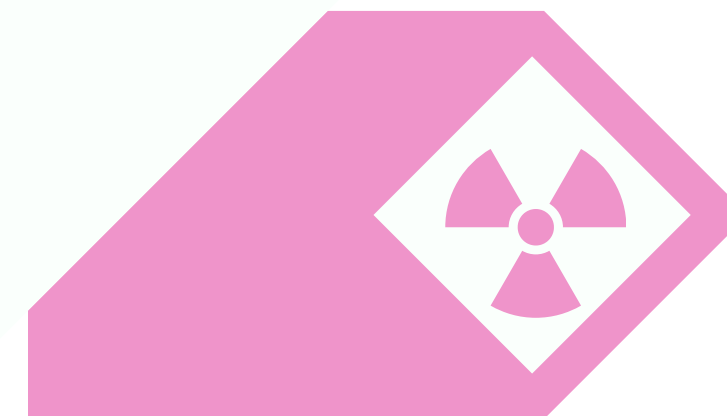
Green Hydrogen

Green hydrogen is produced by splitting water molecules apart via a process called electrolysis that is powered by renewable energy sources.



Pink Hydrogen

Pink hydrogen is produced with energy generated from nuclear sources.



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Sources: "Hydrogen 101: Frequently Asked Questions About Hydrogen for Decarbonization," National Renewable Energy Laboratory
"Hydrogen Explained," U.S. Energy Information Administration