

Hydrogen Technology

Fueling the Future

Hydrogen provides an essential solution to decarbonize economies throughout the world.

Why Hydrogen?

The prediction of increased hydrogen share in the global energy mix by 2050



Energy Sources for Hydrogen



Solar



Wind



Natural Gas



Geothermal



Biomass



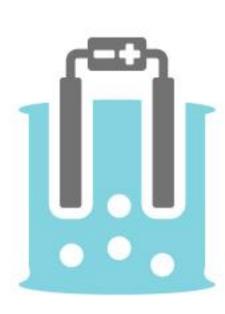




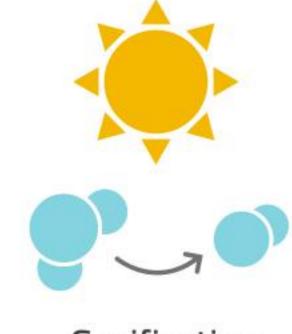
Electricity

Methods to Produce Hydrogen

Hydrogen can be extracted from various energy sources and produced in multiple ways.



Electrolysis



Gasification



CCUS

Storage and Distribution Hydrogen is compressed and stored until it's needed to be used.

Alternatives to compression for long distance transport include hydrogen liquefaction or its conversion to ammonia.



Many of the world's critical energy challenges can be tackled by

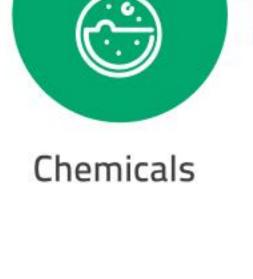
Uses for Hydrogen

integrating hydrogen into current technology. As a renewable energy source, hydrogen makes for a more sustainable and long-lasting alternative for every industry.







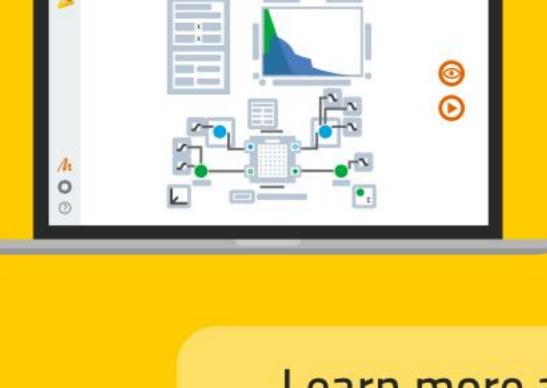




Design hydrogen-integrated technology



Simulation for Hydrogen Technologies



System simulation enables companies to:

- Reduce development time and costs Improve product efficiency

Learn more about how Modelon's simulation solutions can help you!

Sources: www.iea.org/reports/the-future-of-hydrogen

www.energy.gov/eere/fuelcells/articles/infographic-hydrogen-clean-flexible-energy-carrier

