

Hydrogen and Fuel Cell Technologies R&D at NREL

Golden, Colorado



NREL's Hydrogen Technologies and Systems Center is facilitating the transition to a new energy future built on the use of diverse and abundant renewable resources by developing technologies for the production of a common fuel – hydrogen. At NREL, we lead hydrogen and fuel cell R&D in addition to hydrogen infrastructure analysis and hydrogen technology validation activities. Our research supports a diverse range of customers – the Department of Energy, industrial clients – across multiple disciplines including photovoltaics, bioenergy, transportation, wind, building efficiency, and basic sciences.

Research Capabilities

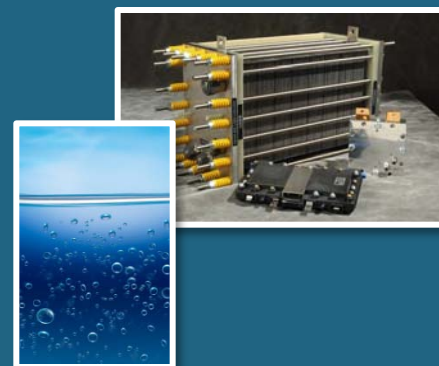
- Small fuel cell and fuel cell systems testing
- Fuel cell component manufacturing development
- Hydrogen safety sensor development and assessment
- Photo electrochemical systems and material development
- Hydrogen storage materials and systems
- Photobiological hydrogen production
- Hydrogen production via biomass fermentation

Laboratory and Testing Facilities

- Hydrogen Sensor Evaluation
- Photoelectrochemical R&D
- Fuel Cell Testing
- Fuel Cell Manufacturing

Partner with us.

www.nrel.gov/hydrogen



NREL

**National Renewable
Energy Laboratory**

Innovation for Our Energy Future

NREL is a national laboratory of the U.S. Department of Energy Office of Energy Efficiency and Renewable Energy, operated by the Alliance for Sustainable Energy, LLC

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