

NREL National Renewable Energy Lab

The National Renewable Energy Laboratory (NREL) is the United State's primary laboratory for renewable energy and energy efficiency research and development.

NREL's mission and strategy are focused on increasing the impact on the U.S. Department of Energy's and our nation's energy goals by meeting market objectives to accelerate the research path from scientific innovations to market-viable alternative energy solutions. At the core of this strategic direction are NREL's research and technology development areas. NREL's research and technology areas span from understanding the resource, its conversion to electricity and fuels, and ultimately to its use in homes, buildings and vehicles. Thereby directly contributing to our nation's goal for finding new renewable ways to power our homes, businesses, and cars.

R&D Expertise

NREL's focused R&D capabilities are positioned to advance national energy goals by developing innovations to change the way we power our homes and businesses, and the way we power our automobiles. NREL's R&D areas of expertise are: • Renewable electricity — solar, wind, biomass, geothermal • Renewable fuels — biomass, hydrogen • Integrated energy system engineering and testing — buildings, electric systems and transportation infrastructures • Strategic development and analysis — economic, financial, and market analysis, planning and portfolio prioritization [Click to download the PDF - NREL - Energy Storage Fuel Cell Vehicle.](#)