



# National renewable energy lab logo

The National Renewable Energy Laboratory 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. The only federal laboratory dedicated to research, development, commercialization, and deployment of renewable energy and energy efficiency ...

Want to dig deeper into NREL's history? Download National Renewable Energy Laboratory History: 1977-2016.. Learn more about the people behind the laboratory's research developments by downloading Clean Energy Innovators: ...

The Energy Systems Integration Facility (ESIF) at the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) houses an unparalleled collection of state-of-the-art capabilities to study clean energy technologies at all scales--from developing and validating individual appliances or components to running megawatt-sized grid simulations.

This Image Gallery, provided by the National Renewable Energy Laboratory (NREL), is a collection of more than 30,000 photographs, scientific images, and videos related to renewable energy and energy efficiency technologies, along with photos and videos documenting life at the laboratory. NREL is the U.S. Department of Energy's primary national ...

The National Renewable Energy Laboratory (NREL) is transforming energy through research, development, commercialization, and deployment of renewable energy and energy efficiency technologies. Partner with us to accelerate the transition of renewable energy and energy efficiency technologies to the marketplace.

Note: As a U.S. Department of Energy research laboratory, NREL does not sell any products nor can it recommend any. Innovation and Partnership Opportunities Inventions and Inventors. If you have invented a renewable energy or energy efficiency technology, learn about NREL's innovation and entrepreneurship programs.

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The U.S. Department of Energy's National Renewable Energy Laboratory (NREL) is celebrating 40 years of innovation and ground-breaking research.Funded by the Office of Energy Efficiency and Renewable Energy and located in Golden, Colorado, the lab is driving a range of technological advancements that have helped establish the United States as a leader in clean ...

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SAM is a techno-economic computer model that calculates performance and financial metrics of renewable energy projects. Project developers, policy makers, equipment manufacturers, and researchers use graphs and tables of SAM results in the process of evaluating financial, technology, and incentive options for renewable energy projects.

A nonprofit organization created in association with the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) will provide new sources of capital to fund research activities and create additional scholarship ...

The history of the design and development of the National Renewable Energy Laboratory (NREL) in the United States illustrates how the plans for a new institute can be realized and evolve over four decades.

A serially complete collection of hourly and half-hourly values of meteorological data and the three most common measurements of solar radiation: global horizontal, direct normal and diffuse horizontal irradiance. It covers the United States and a growing subset of international locations.

The U.S. Department of Energy's National Renewable Energy Laboratory (NREL) announced the list of 40 presenters for the 2024 NREL Industry Growth Forum (IGF) today. The presenters cover a wide range of technologies across the cleantech landscape, but all hope to break new ground as our nation and the global community continue the transformation to a ...

The National Renewable Energy Laboratory 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. Grid Modernization Delivered to Your Inbox

The System Advisor Model(TM) (SAM(TM)) is a free desktop application for techno-economic analysis of energy technologies. It is used by project managers and engineers, policy analysts, technology developers, and researchers to investigate questions about the technical, economic, and financial feasibility of renewable energy projects.

33 Innovators Selected for DOE's Lab-Embedded Entrepreneurship Program, U.S. Department of Energy Office of Energy Efficiency and Renewable Energy July 10, 2024. LEEP Demo Day Spotlights Next Generation of Cleantech ...

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power line capacity and efficiency Statnano 10/30/2024 ORNL 3D prints "the lightest crack-free alloy" for ultrahot ...

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About NREL. At the National Renewable Energy Laboratory (NREL), we focus on creative answers to today's energy challenges. From breakthroughs in fundamental science to new clean technologies to integrated energy systems that power our lives, NREL researchers are transforming the way the nation and the world use energy.

The Thermal Test Facility (TTF) at the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) focuses on energy management of the built environment. The TTF is a flexible multipurpose laboratory that enables ...

With the Annual Technology Baseline (ATB), the National Renewable Energy Laboratory annually provides an organized and centralized set of such cost and performance data. The ATB uses the best information from the Department of Energy national laboratories' energy analysts. The ATB has been reviewed by experts and it includes the following ...

The National Renewable Energy Laboratory (NREL) develops clean energy and energy efficiency technologies and practices, advances related science and engineering, and provides knowledge and innovations to integrate energy systems at all scales. From breakthroughs in fundamental science to new clean energy technologies to integrated energy ...

The National Renewable Energy Laboratory (NREL), a Department of Energy national lab, is #TransformingEnergy as the nation's primary laboratory for renewable energy and energy efficiency research ...

National Renewable Energy Laboratory Innovation for Our Energy Future. NREL FY2008 Program Portfolio. Estimated \$304 Million. Updated March 2008. Solar \$72M. Wind \$31.6M. Bioenergy \$30M. Hydrogen \$15M. Vehicle Technologies \$12.2. ...

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