NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Partnering with NREL

Through partnerships with companies and organizations, the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) accelerates the transfer of renewable energy and energy efficiency solutions to practical application. We leverage public, private, and international investments to rapidly move high-value research to commercialization.

Serving Partner Needs through Our Capabilities

We extend our R&D capabilities and expertise worldwide, along with access to our world-class research facilities. We can tailor our technical assistance based on your needs.

Our R&D capabilities allow us to develop and advance renewable energy and energy efficiency technologies more effectively through the full R&D life cycle—from basic scientific research through applied research and engineering; to testing, scale-up, and demonstration.

NREL's R&D areas of expertise include:

- Renewable electricity
- Renewable fuels
- Integrated energy system engineering and testing
- Strategic energy analysis.

We also use our expertise to provide technical assistance applying renewable energy and energy efficiency technologies. This includes planning, integrated resource assessment, project development, and market and economic development.

> *"Through partnering with NREL, SiXtron taps into R&D expertise and capabilities to optimize our process for making solar cells more efficient and less costly. Our association with NREL provides independent validation of our technical results as we move to commercialize it around the globe."*
>
> Zbigniew Barwicz, President and CEO
> SiXtron Advanced Materials
> Montreal, Canada

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.

Offering Flexible Partnering Arrangements

We offer two main contractual mechanisms for working with our partners. Each option is dependent upon the customer and needs of the project, such as intellectual property management, scope of work, contract amount, and time frame.

- **Cooperative Research and Development Agreement**—for partnerships with the private sector. Allows collaboration, cost sharing, and pooling of R&D program results. NREL provides access to its technical expertise, facilities, and equipment.
- **Work-for-Others Agreement**—enables the private sector and government organizations to employ NREL 's capabilities without intending to perform joint research. We offer the following types of work-for-others agreements:
  - **Technical Services Agreement**—provides an accelerated mechanism for technical consulting and analysis for projects up to 3 years and $250,000.
  - **Analytical Services Agreement**—provides simplified contracting for projects less than $25,000 up to a 3-month duration.
  - **Funds-In Agreement**—allows a nongovernment entity to pay NREL to conduct a research-oriented project and may allow the entity to obtain title to inventions.

Establishing Collaborative Partnerships

If you'd like to explore a partnership with NREL, your first step is to discuss a proposed project with an NREL technical contact. This will ensure that the project would be mutually beneficial, serving not only your needs but also meeting the lab's criteria.

Technical Area Contacts

Renewable Fuels and Vehicle Systems	
Bioenergy	John Ashworth, 303-384-6853
Hydrogen	Bob Remick, 303-275-3830
Transportation	Bob Rehn, 303-275-4418
Renewable Electricity and End Use Systems	
Solar and Photovoltaics	John Benner, 303-384-6496
Wind and Hydropower	Dave Simms, 303-384-6942 Brian Smith, 303-384-6911
Electricity Resources	Dave Mooney, 303-384-6782
Building Systems	Ron Judkoff, 303-384-7520
Geothermal Technologies	Tom Williams, 303-275-4485
Energy Sciences	
Biosciences	Jim Brainard, 303-384-6462
Computational Science	Steve Hammond, 303-275-4121
Chemical and Materials Science	Bill Tumas, 303-384-7955
Energy Analysis	
Energy Analysis	Robin Newmark, 303-275-4602
Integrated Applications	
Crosscutting Technologies, Finance, and Analysis	Nancy Carlisle, 303-384-7509

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

National Renewable Energy Laboratory
1617 Cole Boulevard, Golden, Colorado 80401
303-275-3000 • www.nrel.gov

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.

NREL/FS-7A10-52398 • August 2011

Printed with a renewable-source ink on paper containing at least 50% wastepaper, including 10% post consumer waste.

Photo credits, Front top left to right; PIX# 15429 Jack Dempsey, PIX# 15432 Patrick Corkery, PIX# 18067 Mercury Solar Systems, PIX# 01436 Jim Yost, PIX# 15105 Todd Vinzant, PIX# 14708 Scott Hughes, PIX# 14574 Jack Dempsey, PIX# 14731 Keith Wipke, PIX# 04649 V. Tolbert, Oakridge National Laboratory, PIX# 12681 Jim Yost, PIX# 15693 Patrick Corkery, PIX# 11070 Kramer Junction Company.

Back top left to right; PIX# 19089 Dennis Schroeder, PIX# 16479 Todd Spink, PIX# 15119 Marjorie Schott.