

Press release

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The Fraunhofer Institute for Solar Energy Systems ISE in Germany and the U.S. Department of Energy's National Renewable Energy Laboratory NREL will collaborate on Hydrogen and Fuel Cell Research

The two largest research organizations for renewable energy research in the world, the Fraunhofer Institute for Solar Energy Systems ISE in Germany and the U.S. Department of Energy's National Renewable Energy Laboratory NREL have signed a Memorandum of Understanding (MOU) for close collaboration on hydrogen and fuel cell technologies research.

The official launch will be Monday October 10, 2016 at the WORLD OF ENERGY SOLUTIONS in Stuttgart. Under this MOU, hydrogen and fuel cell technology experts from Germany and the United States will collaborate closely on research and development (R&D) activities to accelerate progress in these fields.

Fraunhofer ISE considers hydrogen and fuel cell technology an integral component of the German 'Energiewende', the transformation of the energy system towards renewable energies resulting in a reduction of CO₂ emissions by 80 to 95% of 1990 levels by 2050.

Using electricity from renewable energy sources such as wind and solar, hydrogen can be produced by water electrolysis and used as fuel in diverse applications including fuel cell cars and buses causing no harmful emissions. Furthermore hydrogen is an excellent feedstock for the catalytic conversion with CO₂ to produce liquid synthetic fuels and replace diesel or gasoline (Power to Liquid).

Fraunhofer ISE's work in hydrogen technologies comprises fundamental research on the production, conversion and catalytic processing of hydrogen as well as models to investigate the role of hydrogen in the future energy system. NREL's long-term research and development activities supported by DOE's Fuel Cell Technologies Office in the Office of Energy Efficiency and Renewable Energy include research on advanced electrolysis, hydrogen fueling infrastructure, and analysis of grid-scale hydrogen system performance.

The objectives of this collaboration are to accelerate progress toward shared R&D goals and ensure sustainable use of hydrogen and fuel cell technologies. This collaboration will make use of complementary research and capabilities at NREL and Fraunhofer ISE in the following areas:

- Electrolysis, including cell, stack, and system R&D and characterization
- Hydrogen infrastructure research and development

WORLD OF ENERGY SOLUTIONS

October 10–12, 2016
Messe Stuttgart, Germany



www.world-of-energy-solutions.com

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Host:



Partner:



- Analysis and modeling for grid-scale implementation of hydrogen systems
- Field validation, performance data collection and evaluation of hydrogen systems
- Accelerated stack and system evaluation, testing, and deployment.

Learn more about NREL's hydrogen and fuel cell research and R&D at Fraunhofer ISE:

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WORLD OF ENERGY SOLUTIONS 2016

The WORLD OF ENERGY SOLUTIONS 2016 takes place from October 10-12, 2016 in Stuttgart.

The current program can be found at
www.world-of-energy-solutions.com/program

WORLD OF ENERGY SOLUTIONS combines the potentials and networks of the leading international companies and brings them to Stuttgart. The convergence of power generation, storage systems and mobility solutions along with the technologies and services related to the segments battery, hydrogen and f-cell applications are the main focus.

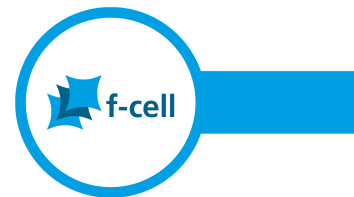
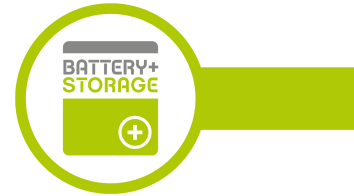
If you have any questions regarding booking booth space and the side program, please contact Julia Krägeloh of Peter Sauber Agentur Messen und Kongresse GmbH, Tel. +49 711 656960-56, julia.kraegeloh@messe-sauber.de

If you have any questions regarding the conference and the sponsors, please contact Silke Frank of Peter Sauber Agentur Messen und Kongresse GmbH, Tel. +49 711 656960-55, silke.frank@messe-sauber.de

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WORLD OF ENERGY SOLUTIONS
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