

Fraunhofer ISE is committed to promoting sustainable, economic, safe and socially just energy supply systems based on renewable energies. The Institute's research provides the technological foundations for supplying energy ...

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US cadmium telluride (CdTe) thin-film solar manufacturer First Solar has agreed to pursue further thin-film technology development with Germany's Center for Solar Energy and Hydrogen Research ...

A wet day is one with at least 0.04 inches of liquid or liquid-equivalent precipitation. The chance of wet days in Wallis and Futuna varies significantly throughout the year. The wetter season lasts 8.2 months, from September 29 to June 4, with a greater than 41% chance of a given day being a wet day. The month with the most wet days in Wallis and ...

ENERGY TECHNOLOGIES AND SYSTEMS Prof. Dr. Hans-Martin Henning Energy Efficient Buildings. Solar Thermal Power Plants and Industrial Processes. Hydrogen Technologies and Electrical Energy Storage. Power Electronics, Grids and Smart Systems. PHOTOVOLTAICS Dr. Andreas Bett. Silicon Photovoltaics. III-V and Concentrator Photovoltaics. Emerging ...

Solar PV generated 32.4TWh over the period, a 15% increase from the same period in 2023. Wind generation led the pack "by far" with 73.4TWh, Fraunhofer said, constituting 34.1% of the total ...

RWE Renewables has partnered with the Fraunhofer Institute for Solar Energy Systems ISE and the Brandenburg University of Technology Cottbus-Senftenberg (BTU) to further develop technologies for the floating ...

The project is conducted in collaboration with Zimmermann PV-Tracker. Image: Fraunhofer ISE. German research organisation Fraunhofer Institution for Solar Energy Systems (Fraunhofer ISE) has ...

Dr. Elias Frei took over as head of the Hydrogen Technologies division at the Fraunhofer Institute for Solar Energy Systems ISE in Freiburg on October 1, 2024. The chemist previously held leading positions at BASF SE. More Info . Brochure. Hydrogen Technologies.

The new location complements Fraunhofer ISE's test fields on Gran Canaria and in the Negev desert in Israel.

Image: Fraunhofer ISE. German research body Fraunhofer Institute for Solar Energy ...

A research team from the Fraunhofer Institute for Solar Energy Systems ISE has now produced a PV module using perovskite silicon tandem solar cells from Oxford PV. With an efficiency of 25 percent and an output of 421 watts on an area of 1.68 square meters, it is the world's most efficient silicon perovskite tandem solar module in industrial ...

Photovoltaic systems equipped with solar trackers show a 20 to 30 percent gain in energy yield compared to fixed ground-mounted systems. Besides this, the layout design and alignment can take other criteria into ...

By Florian Clement, Sebastian Tepner, Michael Linse, Linda Ney, Noah Wengenmeyr, Maximilian Pospischil, Andreas Lorenz & Ralf Preu, Fraunhofer Institute for Solar Energy Systems ISE, Freiburg, Germany

ISES invites you to join this month's webinar in which we welcome Christian Breyer, Professor for Solar Economy at LUT University, Finland and Hans-Josef Fell, President of the Energy Watch Group for a webinar on their latest joint publication, the study on Global Energy Systems based on 100% Renewable Energy.. The study, published this April, is the first of its ...

This paper reports on the latest advances in passivated emitter and rear cell (PERC)-based shingled solar cell activities at Fraunhofer ISE. The approach taken is to fabricate 6" host wafers from

Uli W&#220;RFEL, Head of Department | Cited by 5,600 | of Fraunhofer Institute for Solar Energy Systems ISE, Freiburg (ISE) | Read 155 publications | Contact Uli W&#220;RFEL

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