

Fraunhofer ISE Develops Solar-Powered Ice Maker and Solar Dryers for Fishermen and Farmers in Kenya  
Fraunhofer ISE and GHD are developing the National Hydrogen Strategy of the United Arab Emirates Prof.  
Dr. Christopher Hebling receives the Global Excellence Award by Energy and Environment Foundation

expansion of a sustainable energy system. Adapting to market developments, we have restructured our business areas within "Energy Technologies and Systems": Low-temperature thermal use of solar energy was added to the renamed "Energy-Efficient Buildings" business area and "Solar Thermal Power Plants and Industrial Processes" was

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 account, such as the light requirements of certain plant varieties underneath agrivoltaic and biodiversity-PV systems or also the grid feed-in at certain ...

3 ???&#0183; The Fraunhofer Institute for Solar Energy Systems ISE is developing easy-to-use and reproducible solutions for replacing gas and oil heating systems in existing multi-family homes with partners in the project "LC R290". The research focus is on heat pumps that use the refrigerant propane (R290). With a consortium of twenty companies from ...

Prof. Dr. Hans-Martin Henning is Director of the Fraunhofer Institute for Solar Energy Systems ISE in Freiburg, Germany and Professor for "Solar Energy Systems" at the Institute of Sustainable Systems Engineering in the Faculty of Engineering, University of Freiburg. He is chairman of the Expert Council on Climate Issues (appointed by the ...

The precise measurement of solar cells and modules is of crucial importance in solar technology or photovoltaics. As one of the world's leading laboratories, the photovoltaic calibration laboratory at the Fraunhofer ISE (CalLab) provides ...

The Fraunhofer Institutes for Solar Energy Systems ISE and for Mechanics of Materials IWM in cooperation with industrial partners have explored routes for highly cost effective mass manufacturing ...

The Fraunhofer Institute for Solar Energy Systems ISE has developed a fuel cell system to power a portable computer. The components are a four-cell polymer electrolyte membrane fuel cell (PEMFC ...

The newest edition of the study by the Fraunhofer Institute for Solar Energy Systems ISE on the electricity generation costs of various power plants shows that photovoltaic systems now produce electricity much more cheaply than either coal or gas-fired power plants, even in combination with battery storage.

1 ?&#0183; Researchers from Fraunhofer's "MaNiTU" project produced a perovskite silicon tandem solar cell with a conversion efficiency of 31.6% on an area of 1cm<sup>2</sup>;. Image: Fraunhofer ISE. In ...

At Fraunhofer ISE, we are dedicated to two strategic methods for the manufacturing of ASSB. The production of individual components (cathode, separator and anode) for the self-standing design, allows us to resemble the ...

and solar energy systems by generating excellent research results, carrying out successful projects, cooperating with partners and founding spin-off companies. In this way, it intends to contribute to the transformation of the energy supply system until finally only renewable energy sources are used efficiently. The Institute

1 ?&#0183; Germany's Fraunhofer Institute for Solar Energy Systems ISE has shared results from its five-year lighthouse project MaNiTU. The project, involving six Fraunhofer institutes, worked to ...

The impact of renewables and solar energy for future generations is driven by dedicated people world-wide. To advance knowledge and career prospective in solar energy the Fraunhofer Institute for Solar Energy Systems ISE together ...

20 ?&#0183; Researchers at the Fraunhofer Institute for Solar Energy Systems ISE (Fraunhofer ISE) in Germany are developing copper metallization technology to avoid using silver in perovskite-silicon tandem ...

3 ?&#0183; "Close industrial cooperation is the next step in establishing this future technology in Europe," summarized Prof. Andreas Bett, Institute Director at the Fraunhofer Institute for Solar ...

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. Search. Fraunhofer Institute for Solar Energy Systems ISE. Fraunhofer Institute for Solar Energy Systems ISE. Energy-Charts. Renewable Energy Data; Research Projects;

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