

Fraunhofer institute for solar energy systems





Overview

The Fraunhofer Institute for Solar Energy Systems ISE (or Fraunhofer ISE) is an institute of the . Located in , the Institute performs applied scientific and engineering for all areas of . Fraunhofer ISE has three external branches in Germany which carry out work on solar cell and semiconductor material development: the Laboratory and Service Center (LSC) in , the Technology Cente.

Das Fraunhofer-Institut für Solare Energiesysteme ISE in Freiburg ist eines der größten Solarforschungsinstitute. Unsere rund 1400 Mitarbeitenden arbeiten für ein nachhaltiges, wirtschaftliches, sicheres und sozial gerechtes Energieversorgungssystem auf Basis erneuerbarer Energien.

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The Fraunhofer Institute for Solar Energy Systems ISE in Freiburg, Germany is one of the largest solar research institutes. With a staff of about 1400, we are committed to promoting a sustainable, economic, secure and socially just energy supply system based on renewable energy sources. We.

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 efficiently and on an environmentally sound basis. Focusing on energy.

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Photovoltaics is a fast growing market: The Compound Annual Growth Rate (CAGR) of PV installations was about 27% between 2014 to 2024. The intention of the »Photovoltaics Report« is to provide up-to-date information on the PV market and on efficiencies of solar cells, modules and systems.

Moreover.

47.6% 929 15250 10.

Woche des Wasserstoffs: Fraunhofer ISE lädt am 29. Juni zum Tag der offenen Tür ein »Unsere Technologien machen PV-Module nachhaltiger – durch Materialeinsparung, Effizienz- und Produktivitätssteigerung.« »Effiziente Flächennutzung: Unsere integrierten PV- Technologien bringen mehr Solarenergie in. What is the Fraunhofer Institute for Solar Energy Systems ISE?

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What is Fraunhofer ISE 'innovation4e'?

The research blog of Fraunhofer ISE »Innovation4E« offers a platform for information and exchange. Fraunhofer ISE develops materials, components, systems and processes in eight business areas.

What is Fraunhofer ISE's highest efficiency solar cell?

Fraunhofer ISE holds several world records in the high efficiency solar cell sector, such as the record efficiency value for both-sides contacted silicon solar cells (26 %) and the top efficiency of 47.6 % for a four-junction solar cell based on a III-V multi-junction cell architecture.

What services does Fraunhofer ISE offer?

For agriphotovoltaics, floating PV, vehicle-integrated PV, urban PV, biodiversity PV and BIPV. At Fraunhofer ISE, we benefit from this infrastructure for our



research and development activities: Our services range from the calibration of individual cells and modules to customer-specific tasks such as the calibration of bifacial modules.

Where can I study solar energy engineering?

To advance knowledge and career prospective in solar energy the Fraunhofer Institute for Solar Energy Systems ISE together with University of Freiburg is offering a MSc. study program in solar energy engineering. Students will engage in the technology and engineering of photovoltaic and solar thermal systems and grid integration.



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[Fraunhofer ISE concludes perovskite-silicon tandem ...](#)

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 identify

[Harvesting the Sun for Power and Produce](#)

In the demonstration project "Agrophotovoltaic - Resource Efficient Land Use" (APV-Resola)" led by the Fraunhofer Institute for Solar Energy Systems ISE, solar modules for electricity production are installed directly ...



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OverviewHistoryResearch and developmentService UnitsCooperationSpin-OffsStaff, Infrastructure and FinancingExternal links



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**Peter NITZ , Head of Department , PhD ,
Fraunhofer Institute for Solar**

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 ...



[Fraunhofer Institute for Solar Energy Systems \(ISE\)](#)

Focusing on energy efficiency, energy conversion, energy distribution and energy storage, the Institute develops materials, components, systems and processes in twelve business areas and offers accredited testing ...



Solar Energy Engineering

Solar Energy Engineering The continuing education program in Solar Energy Engineering provides profound insights into the physics, technology and system design of solar cells, photovoltaic systems and solar thermal devices. It ...



[Photovoltaic Plants with Battery Cheaper than ...](#)

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 ...



[Fraunhofer Institute for Solar Energy Systems ISE](#)

Today, with over 1,200 employees, Fraunhofer ISE is the largest solar research institute in Europe and one of the world's most important driving forces and research partners for an energy supply based on 100 percent renewable ...



Energy-Charts

The Fraunhofer Institute for Solar Energy Systems ISE has published new data on net public electricity generation for the first half of 2025. Despite record-breaking solar output, the share of renewable energy dropped to 60.9 percent ...



[Center for High Efficiency Solar Cells](#)

With the new laboratory building, Fraunhofer ISE aims to continue developing new, groundbreaking solar cell types and technologies in the future and thus increase the competitiveness of the German and European photovoltaic ...





Fraunhofer Institute for Solar Energy Systems. Annual Report ...

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