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What is the Fraunhofer Institute for Solar Energy Systems ISE?
The Fraunhofer Institute for Solar Energy Systems ISE in Freiburg,Germany is the largest solar research institute in Europe. With a staff of about 1 400,we are committed to promoting a sustainable,economic,secure and socially just energy supply system based on renewable energy sources.

What makes Ise a good solar research institute?
"Our extremely productive and gentle laser processesenable the efficient use of highly available and cost-effective materials in PV production." The Fraunhofer Institute for Solar Energy Systems ISE in Freiburg,Germany is the largest solar research institute in Europe.

How can Fraunhofer ISE improve the efficiency of solar cells?
Many photovoltaic technologies developed at Fraunhofer ISE have found widespread use in global solar cell production; for example, the use of lasers or the TOPCon solar cell technology. With these and other PV technologies, the Institute has been able to achieve numerous efficiency records for different types of solar cells; for example,

What does a Solar Energy Institute do?
To realize this,the institute develops materials,components,systems and methods. Activities comprise the research of scientific fundaments of solar energy use,the development of production techniques and prototypes as well as the execution of demonstration facilities,testing and certifying of products.

Can photovoltaic systems be installed on Germany's roofs?
According to a study by Fraunhofer ISE,photovoltaic systems on Germany's roofs have a technical potential of approx. 560 GWp. So far,rooftop systems have mostly been installed on house roofs. However,with a widespread expansion of rooftop solar installations,there is a risk that the public's acceptance of photovoltaic systems could decline.

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.

Precise solar forecasts allow an improved integration of solar energy into our energy system. Our services also cover solar thermal power plants and their combination with photovoltaics and power-to-X technologies.

The Fraunhofer Institute for Solar Energy Systems ISE (or Fraunhofer ISE) is an institute of the Fraunhofer-Gesellschaft. Located in Freiburg, Germany, the Institute performs applied scientific and engineering research and development for all areas of solar energy .

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OverviewHistoryResearch and developmentService UnitsCooperationSpin-OffsStaff, Infrastructure and FinancingExternal linksThe Fraunhofer Institute for Solar Energy Systems ISE (or Fraunhofer ISE) is an institute of the Fraunhofer-Gesellschaft. Located in Freiburg, Germany, the Institute performs applied scientific and engineering research and development for all areas of solar energy. 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 Gelsenkirchen, the Technology Cente...

Researchers at the Fraunhofer Institute for Solar Energy Systems ISE, using a new antireflection coating, have successfully increased the efficiency of the best four-junction solar cell to date from 46.1 to 47.6 percent at a concentration of 665 suns. This is a global milestone, as there is currently no solar cell with a higher efficiency ...

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, data on inverters, energy payback time and price developments are presented.

Die Energy-Charts bieten interaktive Grafiken zu: Stromproduktion, Stromerzeugung, Emissionen, Klimadaten, Spotmarktpreisen, Szenarien zur Energiewende und eine umfangreiche Kartenanwendung zu: Kraftwerken, Übertragungsleitungen und Meteodaten

The Fraunhofer Institute for Solar Energy Systems ISE is engaged in establishing a sustainable, economic, secure and socially fair energy supply system. To realize this, the institute develops materials, components, systems and methods.

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The Fraunhofer Institute for Solar Energy Systems ISE, with a staff of about 1400, is one of the largest solar research institutes worldwide. The institute enables and contributes to achieving the energy transition which aims eventually for a sustainable, economic, secure, and socially just energy supply system based on renewable energy sources.

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