Solar energy research institute singapore

Who is Solar Energy Research Institute of Singapore?

Solar Energy Research Institute of Singapore |10,937 followers on LinkedIn. SERIS is a research institute at the National University of Singapore(NUS). SERIS is supported by NUS,the National Research Foundation Singapore (NRF),the Energy Market Authority of Singapore (EMA) and the Singapore Economic Development Board (EDB).

What is solar energy research & development (R&D)?

SERIS conducts research, development, testing and consulting on solar energy technologies and their integration into buildings and power systems. The institute's R&D spectrum covers industrially relevant materials, components, processes, systems and services, with an emphasis on solar photovoltaic cells, modules and systems.

What makes Seris a great solar Institute?

Over the last decade, SERIS has grown to become one of the leading applied solar institutes in the world. Today, the institute has a staff strength of 220, including 139 scientists, engineers and technicians, 56 postgraduate research students, 25 technical infrastructure and administration personnel.

Does Singapore have a solarroof programme?

Behind the scenes of Singapore's increasing solar deployment is a collective effort across the public sector,the private sector and individual households. Among these are JTC's SolarRoof programme,where companies lease out their roof space for solar panel installations.

What is a floating solar farm in Singapore?

In 2016, the Solar Energy Research Institute of Singapore (Seris) at the National University of Singapore unveiled its floating solar test bed - a 1 megawatt-peak (MWp) installation - at Tengeh Reservoir. Positive results from this testbed paved the way for a larger 60MWp floating solar farm at Tengeh, which opened in July 2021. This groundbreak...

Best Presentation Award for talk titled "Placement and sizing optimization for PV-battery-diesel hybrid systems" at IEEE International Conference on Sustainable Energy Technologies (ICSET), Hanoi, Vietnam, Nov 2016. The paper is authored by Carlos D. Rodriguez Gallegos, Manuel S. Alvarez Alvarado, Oktoviano Gandhi, Dazhi Yang, Wenjie Zhang, Thomas Reindl and Sanjib ...

The Advanced Solar Cells Group focuses on the development and commercialisation of low-cost high-efficiency solar cells. One focus area is the exploration of novel or advanced processes and technologies that enable to approach the practical 1-Sun efficiency limit of ~27% of single-junction silicon solar cells while maintaining low manufacturing costs ($/Wp) and excellent long-term ...

The market report is the first in a series of reports on floating solar - titled "Where Sun Meets Water" - being produced by the World Bank Group and the the Solar Energy Research Institute of Singapore (SERIS), with funding provided by the World Bank"s Energy Sector Management Assistance Program (ESMAP) and the Government of Denmark.

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The REC@NUS Corp Lab will bring together complementary research expertise and talent from NUS and REC Solar, in partnership with the Nanyang Technological University, to facilitate Singapore"s manufacturing of cost-effective high-performance tandem solar cell technologies. The project will comprise about 40 researchers and aims to train up to ...

There is a wide range of feasibility studies offered by SERIS, from much focused technical enquiries to comprehensive studies including commercial and regulatory aspects. Examples include: Technical requirements for grid connection of PV systems in Asian countries Commercial and regulatory feasibility of large scale PV project Feasibility studies are customised and ...

Floating PV Figure 1. The world"s largest floating PV testbed managed by SERIS, located in Tengeh Reservoir, Singapore. Floating solar or floating PV (FPV) refers to the installation of PV on water bodies, such as lakes, reservoirs, hydroelectric dams and other often under-utilized water bodies, with PV panels usually mounted upon a pontoon-based floating structure. ...

R& D Photovoltaics | Renewable Energy · o PhD in Photovoltaics (Solar Cells) with a strong understanding of photovoltaic device physics, materials science, and energy conversion.
o An entrepreneur at heart and enthusiastic about commercializing research.
o Software developer in past life.
o Passionate and loves to talk about renewable energy and sustainable ...

The Solar Energy Research Institute of Singapore (SERIS) is Singapore"s national institute for applied solar energy research. It commenced operations in 1st April 2008. SERIS is sponsored by Singapore"s National Research Foundation (NRF) via the Singapore Economic Development Board (EDB), as well as the National University of Singapore (NUS ...

With lots of sunshine in Singapore, solar energy is our most promising renewable energy source. Our goal is to achieve at least 2 gigawatt-peak (GWp) of installed solar capacity by 2030, meeting the annual electricity needs of around 350,000 households. ... (Photo courtesy of the Solar Energy Research Institute of Singapore, SERIS) Related ...

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Head of Urban Solar Solutions at Solar Energy Research Institute of Singapore · Dr. LIN Fen (Serena) has over 15 years of experience in cutting edge technologies in both Photovoltaic (PV) and Semiconductor industry. She currently serves as a Senior Research Fellow and Head of Urban Solar Solutions Group in Solar Energy Research Institute of Singapore (SERIS) at the ...

In the longer term, the Solar Energy Research Institute of Singapore (SERIS) has estimated that Singapore has the technical potential to deploy up to 8.6 GWp by 2050, which would constitute around 10% of the projected electricity demand then. Learn more about Singapore"s Energy Story and EMA"s plans to create a cleaner energy future.

SERIS comprises four research clusters and two central service units. The research clusters conduct research, development, testing and consulting on solar energy technologies and their integration into buildings and power systems. The two service units provide central services such as administration, facility support and QESH (quality, environment, safety & health) ...

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