

BRIC SOLAR 2014 - A HIGHLIGHT

The maiden Conclave from School of Solar Energy was held on 18th February 2014. Delegates from various leading industries, organizations and universities graced the dais and the conclave was a huge success. Bridging Research and Industry Conclave on Solar was an initiative to find a cusp between two completely different domains and as a result converge in healthy collaborations. High level delegates from industry shone light on students in various aspects and provided motivation for directions for research where industry seems to be lagging in current scenario. Ace academicians inspired students to carry out extensive research and provided the knowledge of how important the 'tools of thoughts' can be in field of research. School of Solar Energy believes such conclaves can be a milestone event for students that may redefine ones perspective on industry and research.









PANDIT DEENDAYAL PETROLEUM UNIVERSITY

Pandit Deendayal Petroleum University addresses the need for trained and specialized human resource for energy industry worldwide. It intends to expand the opportunities for students and professionals to develop intellectual knowledge base with leadership skills to complete in the global arena. This objective is being addressed through a number of specialized and well-planned undergraduate and postgraduate energy education programs and intensive research initiatives.

PDPU's lush green & clean campus is located on Knowledge Corridor in the periphery of Ahmedabad & Gandhinagar. The state's remarkable cultural, technological and economic resources nourish the University's mission and enrich its life, just as the University, in turn enriches the city. In its vibrant urban environment, Pandit Deendayal Petroleum University offers a diversity of learning experiences, a balance between career preparation and liberal education, teaching, and research and endeavors to instill in its students an understanding that stature as an individual and value as a member of society depend upon continual learning.







ORGANISING TEAM CONTACT

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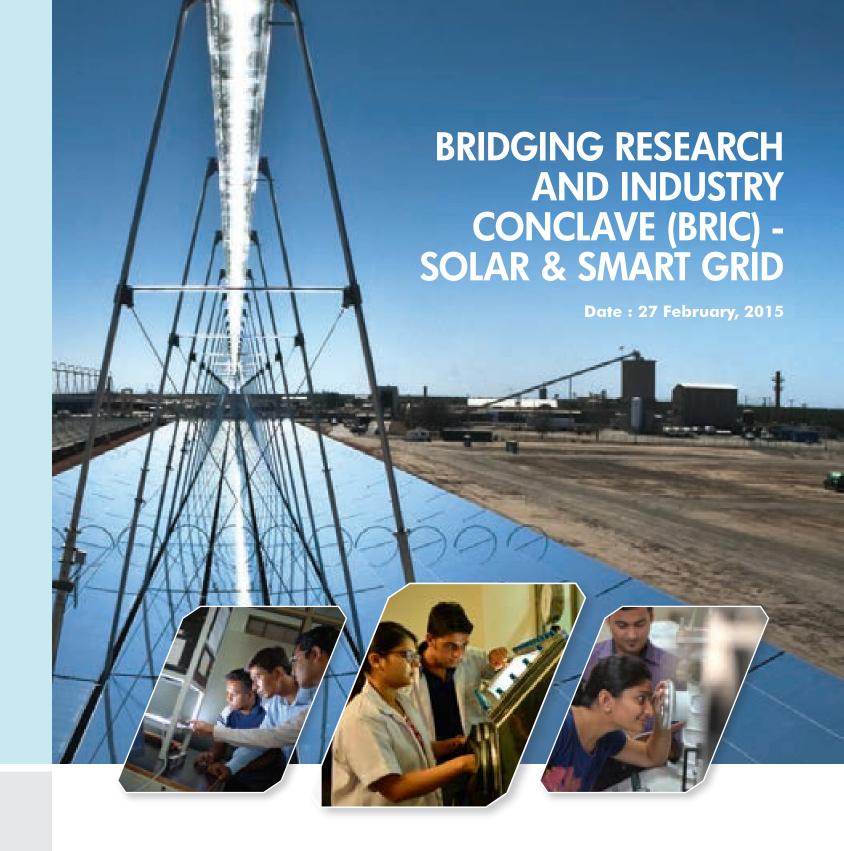


PDPU

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Pandit Deendayal Petroleum University (PDPU) is organizing BRIC - Solar & Smart Grid (Bridging Research & Industry Conclave - Solar & Smart Grid) on February 27, 2015 at Gandhinagar, Gujarat. It is organized with objective to provide a unique platform to researchers, innovators, technocrats, Corporates, funding agencies and R & D organizations to interact, exchange and share the knowledge and resources for research and innovation. BRIC will showcase science, technology and innovation and aims to create new partnerships between industry, research, academic institutions and governments. The conclave will advance technology-based innovation and entrepreneurship, encourage commercial ties and boost research and development.





SOLAR RESEARCH **DEVELOPMENT CENTER**

Solar Research Development Center (SRDC) at Pandit Deendayal Petroleum University is established for applied research in solar energy technologies with a view to interface the industrial need through academic excellence. The research areas include Silicon Photovoltaics, Multi junction materials and devices, new materials devices, Performance and Validation of quality with standard testing procedures. Also there are research projects undertaken in the area of Concentrated Solar Thermal, Concentrated Solar Photovoltaics and Balance of Systems for off-grid and distributed solar.



- Brainstorm the emerging trends in solar industry through diversified panel consisting of experts in
- Develop a future roadmap for skill enhancement in with the expertise of giants.
- the growth of solar industry by financially aiding



BENEFITS OF ATTENDING

This conclave presents a perfect networking opportunity for member's involved in different parts of value chain of solar energy and smart grid sector. It also aims to serve as a knowledge disseminating experience for the participants and students. It's an exercise to have better understanding of the nuances of solar energy sector from leading professionals and players in the industry.

KEY TOPICS TO BE DISCUSSED

SOLAR PHOTOVOLTAIC: THE INDIAN PERSPECTIVE

The technological advancement in the field of solar cells & the prospects of India in manufacturing of Solar Cells

SMART GRID & DISTRIBUTION

Vision of India to achieve a smarter infrastructure in existing grid technologies, its challenges in the field of AMI, DSM, Renewable Energy Integration and their solution. Also, the discussion on Rural Electrification using smart solutions.

ENERGY ECONOMICS: A ROAD TO SUSTAINABLE SOLAR

Market outlook of Solar, Cost benefits and advantages to market and consumer with application of net metering, solar roof top and discussion on its policies and Economic analysis of Solar Industry in achieving grid parity.

SOLAR THERMAL TECHNOLOGY

Harvesting & performance of CSP and Solar Thermal in India, Research innovation in Solar Thermal Technologies, Case studies and Heating-Cooling technology development for sustainable

WHO SHOULD ATTEND

BRIC - Solar & Smart Grid aims in creating a platform for the industrialist, academicians, researchers and technocrats through information sharing and provides networking opportunities. The conclave will enrich the participants by providing opportunities to interact with innovators, researchers and key policy and decision makers from government and private sectors.

The conclave will be beneficial to:

- TECHNOCRATS FROM SOLAR INDUSTRIES
- POLICY MAKERS & MANAGERS
- ACADEMICIANS & RESEARCHERS
- TRUSTS & FOUNDATIONS
- ENERGY ENGINEERS





LAB FACILITIES

SRDC has state-of-art research facilities in the area of Device Fabrication Lab and Device Characterization Lab.

DEVICE FABRICAITON LAB:

- DC Sputtering Thin Film Coating
- PF Co-Sputtering Oxide and Metal Film Coating
- PVD System Metal Coating by Evaporation
- Spray Pyrolysis Oxide Semiconductor Deposition'
- Spin Coater
- Deposition by Cyclic Voltammeter
- Hydrothermal Method
- Temperature Controlled Vacuum Furnace
- Open and Tubular Furnace for Oxidation
- Glove Box
- PV Modules with Data Logging Facility
- LCPV System with Tracker

DEVICE CHARACTERIZATION LAB:

- Field Emission Scanning Electron Microscope
- Energy Dispersive X-Ray Spectroscopy
- X-Ray Diffraction
- Electrochemical Characterization
- Photoluminescence Spectroscopy
- Spectral Response Measurement (IQE/EQE)
- Hall Effect Measurement Solar Simulator for Cells
- Battery Test System



