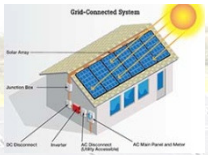
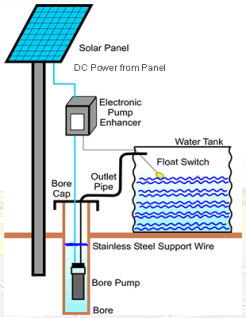
Short term training program

On

Solar Water Pumping and Standalone Rooftop PV System

30-31 March, 2017





Organized by

Department of Solar Energy

Solar Research & Development Center

Pandit Deendayal Petroleum University

Raisan, Gandhinagar, Gujarat-382007

About the University

Pandit Deendayal Petroleum University is located in Gandhinagar, which is the capital city of Gujarat and located 23 Km North from a well developed city called Ahmedabad with a population of 8 million people. The city is famous for its remarkable cultural development and social life. Pandit Deendayal Petroleum University (PDPU) has been established as a Private University through the State Act enacted on 4th April, 2007. The University offers programs to address the need for trained human resources in the domains of Science, Technology, Management and Humanities. It intends to broaden the opportunities for students and professionals to develop core subject knowledge which are duly complemented by leadership training interventions, thereby helping the students to make a mark in the global arena. This objective is being further addressed through a number of specialized and well-planned undergraduate, post-graduate and doctoral programs as well as intensive research projects.

About the Department

The Department of Solar Energy at Pandit Deendayal Petroleum University (PDPU) aims to impart education, training and services; perform cutting-edge research and development; and enable discrete, as well as interdisciplinary technologies; to accelerate the deployment of renewable energy for a sustainable growth; foster a clean environment to enhance human standards of living and develop a skilled workforce and empower a young generation of leaders. The Department of Solar Energy at PDPU conducts teaching and research in the technologies needed to harness and supply solar energy efficiently, on an economically sound basis. The department operates in close collaboration with Solar Energy research wing of GERMI Research, Innovation & Incubation Centre (GRIIC) as well as other national and international institutes/labs such as IIT Bombay, IIT Delhi, IIT Jodhpur, IIT Gandhinagar, SP University, CHARUSAT, SVNIT Surat, NIRMA University, CSMCRI Bhavnagar, NPL, ISCT Hyderabad, Georgia Institute of Technology, University of Toronto, Nagoya Institute of Technology, University of Saskatchewan and many others.

Objectives of the Workshop

A large percentage of India's population is dependent on agriculture for livelihood. The canal based irrigation system is limited to some areas only. As a result, farmers in most part of country are dependent upon pump sets for irrigation. The power consumed by agriculture sector is nearly 20% of installed power generation capacity in the country. More than 4 billion litre of diesel and 85 million tons of coal are thus consumed per annum to support water pumping for irrigation. Solar Pumps poses a new opportunity to replace conventional energy source. Beside, the pumping, roof top PV systems have come up in the country in big way by already crossing the capacity mark of 1GW. The key aspect of the program is to disseminate the basic and applied knowledge base in the integration of solar PV for agricultural pumping and stand alone roof top installations where grid power is unavailable or less reachable, such as rural and remote areas. The program will cover technical and policy related topics, broadly,

- Solar Water Pumping
- Rooftop PV System
- Energy Storage
- Policies and Regulations
- PV Modules and Systems

Program Schedule

Day-1: 30th March, 2017

09:00-10:00 AM Registration
10:00 – 11:00 AM Inauguration, Introduction and Program Overview
11:00 AM – 01:00 PM Grid-connected solar micro-grids for agriculture purpose by Dr. Omkar Jani
01:00 – 02:00 PM Lunch
02:00 – 04:00 PM SRDC Lab Demonstration
04:00 – 06:00 PM Galvanic Energy Storage: A Possible option for Solar Power Application by Prof. Indrajit Mukhopadhyay

Day-1: 31st March, 2017

10:00 AM – 12:00 PM Solar Energy and DC Pumping by Prof. N. Jotwani
12:00 – 01:00 PM 1 MW Power Plant Visit
01:00 – 02:00 PM Lunch
02:00 – 04:00 PM Fundamental Aspects of PV Modules and their integration by Dr. Abhijit Ray
04:00 – 05:00 PM Demonstration of Solar Thermal Prototype System
05:00 – 06:00 PM Valedictory and Conclusion

Who can participate?

B.Tech., M.Tech., M.Sc. & Ph.D. students, professionals working in industry and any other interested individual can participate. Farmers, PSU Officials, water pump mechanics, agriculture dept. Officials, Discom Officials, Senior Energy Department Officials of Govt. of India and Officers from State Nodal Agencies etc are also welcome to participate.

Duration: 2 days (Accommodation available on payment basis in PDPU boys' / girls' hostel on request)

Course Fees: Rs. 3000/- for industry participants,
Rs. 1000/- for working individuals from academia
Rs. 500/- for students* (Provision of waiver can be made for farmers, state govt. and central govt. officials)
Venue: Department of Solar Energy, PDPU
Raisan, Gandhinagar, Gujarat

Organizing Committee

Patron:
Prof. T. Kishen Kumar Reddy, (DG, PDPU)

Convener: Prof. H.B.Raghavendra, Director, School of Technology, PDPU

Coordinator:
Prof. Indrajit Mukhopadhyay, Head, Dept. of Solar Energy, PDPU
Dr. Abhijit Ray, Dept. of Solar Energy, PDPU
Dr. Ranjan K. Pati, SRDC, PDPU

Supporting Staff:
Mr. Ankit Panchal, SRDC, PDPU

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*No registration fees for PDPU Students

Registration Form

1. Name:_____

2. Gender: Male/Female

3. Qualification:_____

4. Designation & Affiliation: _____

5. Address: _____

6. Email:_____

7. Phone:_____

Registration online:

https://docs.google.com/forms/d/e/1FAIpQLSe4Fpspfi5fwnv9nuUBG8bRihJwGSkMYSp-AQ1jOiEcq0eP-A/viewform?c=0&w=1

Last Date of Registration: 22nd March, 2017

I enclose a demand draft of Rs_____ Drawn in Favor of "Pandit Deendayal Petroleum University", Payable at Gandhinagar, Gujarat-382007 or deposited Rs._____ through NEFT (Oriental Bank of Commerce, IFSC: ORBC0100933, A/C Name: Pandit Deendayal Petroleum University, A/C No.: 09332151005094

Transaction ID/DD No.: