

INTRODUCTION

Power is vital for the development and sustenance of a nation's economy. To cope with the impending scarcity of energy sources, exploration of renewable sources of energy appears to be the only solution. Solar energy is a good alternative in this regard as it is considered to be the cleanest, most abundant renewable energy source available. Today's technology allows us to harness this resource in several ways, giving the public and commercial entities flexible ways to use both the light and heat of the sun.

Solar energy including Thermal and Photo-Voltaics (PV), is the second largest renewable energy source after wind energy. There is optimum potential for generating solar power using unutilized spaces on rooftops and wastelands around buildings. Small quantities of power generated by each individual household, industrial building, commercial building and so forth, can be used to partly fulfill the requirements of occupants of the same, and surplus generated, if any, can be fed into the grid. The ROOFTOP OFF GRID on the building's roof space can be installed as effective replacements of Diesel Generator (DG) gensets during load-shedding.

The National Institute of Solar Energy (NISE), Faridabad, has selected the Dibrugarh University Institute of Engineering & Technology (DUIET) as a Training Partner to create awareness on solar energy in the North-East India. NISE has sanctioned 1 (one) training programme to the DUIET, Dibrugarh University, and the DUIET will organize a Three-Day Training on ROOFTOP OFF GRID during **26th – 28th February, 2017.**

OBJECTIVES OF THE WORKSHOP

- ❖ To acquaint the participants with information on Solar Energy.
- ❖ To create awareness on various applications of Solar Energy.
- ❖ To enlighten the participants of various schemes related to off-grid solar energy production and distribution.
- ❖ To develop Entrepreneurship skill

WORKSHOP CONTENTS

- Application of RE technology to meet energy needs in the Rural Areas.
- Availability of New and Renewable Resources
- Various government schemes on off grid solar technologies
- State and Central govt. policy and schemes for Solar Photovoltaic systems
- Solar based off grid lighting system
- Discussion on major components of a solar PV system, inverter and battery

- Solar thermal specifications and its applications. Concentrated solar thermal technologies for cooking and process heating
- Hybrid solar power systems
- Scope of solar biomass hybrid solar power generation system in the North east India
- Options for finances from banks, loans etc.
- Entrepreneurship skills and soft skills

HIGHLIGHTS OF THE PROGRAMME

Resource persons will be from the Ministry of New and Renewable Energy (MNRE), AREDa and In-house experts

ELIGIBILITY, SELECTION AND DATES

This programme is open to the target audience: **Farmers; Women from Rural communities; Village Level renewable energy Service Companies; Panchayat and Village heads; Officers from State Nodal Agencies; Officials from State and Central Agriculture departments; Unemployed youth; Entrepreneurs from the north east.**

The number of participants is limited to **30 (thirty)** and will be selected on a **first-come-first-serve** basis.

Submission deadline– 25th February, 2017.

Selected candidates shall be intimated about selection by e-mail or phone by **25th February, 2017.**

ORGANIZING COMMITTEE

Chief Patron:

Prof. Alak Kumar Buragohain
Vice Chancellor, Dibrugarh University

Patron:

Prof. M.N.Dutta,
Registrar, Dibrugarh University
Prof. L.K.Nath,
Dean (S&E), Dibrugarh University

Coordinator:

Dr. Mukul Chandra Bora, Director
DUIET, Dibrugarh University

Team:

Mr. Madhurjya Saikia, Assistant Professor,
Department of Mechanical Engineering.
Mr. Keshab Biswakarma, Assistant Professor,
Department of Mechanical Engineering.
DUIET, Dibrugarh University

SOLAR ENERGY AWARENESS PROGRAMMES IN THE NORTH EAST

A THREE-DAY WORKSHOP

on

Rooftop Off Grid

26th – 28th February, 2017

at

Dibrugarh University Institute of Engineering & Technology,
Dibrugarh University, Dibrugarh (Assam)

REGISTRATION FORM

1. Name (in Block Capital Letter):
2. Gender:
3. Date of birth:
4. Designation (if any):
5. Institution/organization:
6. Address for communication (including post office and district):
7. e-mail:
8. Phone/Mobile No:
9. Educational qualification:
10. Experience, if any (Years):

Place:

Date:

Signature of the applicant

DECLARATION

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the workshop and pledge to attend all the sessions. I also undertake the responsibility to inform the organizers in case I am unable to attend the programme.

Place:

Date:

Signature of the applicant

SPONSORSHIP CERTIFICATE

Mr./Ms. _____

is an employee of our Department/Institute. His/her application is hereby sponsored/ forwarded and he/ she will be allowed to attend the workshop on **Rooftop Off Grid** during 26th – 28th February, 2017, at DUIET, Dibrugarh University.

Place:

Date:

Signature of Sponsoring Authority

Designation:

Official Seal:

REGISTRATION FEE

There is no registration fee to attend the programme. Selected participants will be offered refreshments (tea and lunch) during the workshop. **Candidates shall have to arrange their accommodation and transport on their own.**

Brochure and registration form can also be downloaded from our institute website: www.dibru.ac.in

ABOUT THE INSTITUTE

Dibrugarh University Institute of Engineering & Technology (DUIET), Dibrugarh University was established in the year 2009 with an aim to cater the need of quality Technical manpower required by the Industries. This is the only Engineering College besides Jorhat and is situated in the vicinity of different Oil, Coal, Tea and Fertilizer Industries. The Institute is presently offering 4 year B.Tech programme in **Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering and Petroleum Engineering**. The Institute has more than 35 young and dynamic faculty members working with commitment and dedication towards producing efficient future Technocrats of India. DUIET is presently running one M. Tech. programmes with specialization in Fluid, Thermal and Energy Engineering. The PhD programme in Engineering and Technology under Dibrugarh University was started in the year 2015 in collaboration with Jorhat Engineering College and the Institute has a vision to open Ph.D. programmes in all the Departments in the near future.

ADDRESS FOR CORRESPONDENCE

1. Mr. Madhurjya Saikia

Assistant Professor

Department of Mechanical Engineering

E-mail: duiet.btech@gmail.com

Mobile-

Dibrugarh University Institute of

Engineering & Technology,

Dibrugarh University

P.O. Rajabhetta-786004, Assam

Or

2. Mr. Keshab Biswakarma

Assistant Professor

Department of Mechanical Engineering

Email: duiet.btech@gmail.com

Mobile-

Dibrugarh University Institute of

Engineering & Technology,

Dibrugarh University

P.O. Rajabhetta-786004, Assam

SOLAR ENERGY AWARENESS PROGRAMME IN THE
NORTH EAST

A THREE-DAY WORKSHOP

on

Rooftop Off Grid

26th– 28th February 2017

Sponsored by

NATIONAL INSTITUTE OF SOLAR ENERGY
(An Autonomous Institute under the Ministry of
New and Renewable Energy, Government of India)
Faridabad-Gurgaon Road, Gurgaon 122003

Coordinator

Dr. Mukul Chandra Bora



Organized by

**DIBRUGARH UNIVERSITY INSTITUTE OF
ENGINEERING & TECHNOLOGY**
(A Constituent College of Dibrugarh University)
DIBRUGARH-786004, ASSAM, INDIA