SOLAR PHOTOVOLTAIC PRACTITIONER TRAINING PROGRAM

Gain knowledge and confidence to successfully design and commission a Solar Power Plant

www.caresrenewables.com

www.bmsce.ac.in
ABOUT THIS PROGRAM

How to design a Solar Power Plant from scratch? How will I select components for a Solar Power Plant? Which type of Solar PV system is suited for my customer? Why are some solar panels and inverters more expensive than others? How will I compare different Solar Power Plants and Technologies? How to design and install a Solar Power Plant, which will last 25 years?

This comprehensive Solar PV Practitioner training program designed by Cares Renewables and delivered in partnership with BMS College of Engineering will help you answer these questions. We keep the training programs engaging through a mix of presentations, videos, case studies, design exercises, data sheets, demo of tools and solar components, remote monitoring of solar power plant. The design exercises in this course will help you design a power plant from the scratch and select components such as solar modules and inverters based on Key Performance Indicators from data sheet. Upon completion of this course you will be able to apply your knowledge to Design and Commission Solar Power Plants.

When? 12th to 16th of March 2018 9:00 am to 6:00 pm

Where? BMS College of Engineering, Basavanagudi, Bengaluru, Karnataka-19

Fees? Rs. 9,500 (Including GST)
WHAT YOU WILL LEARN

The program is divided into six modules to cover all aspects of Solar PV Power Plant. The topics covered in each module are listed below:

**Module 1 - Introduction to Solar PV**
- Need for Training
- Key Drivers of Solar PV Industry
- Solar PV System Characteristics, Types & Advantages
- Introduction to Remote Monitoring
- Fundamentals of Electrical for Solar PV

**Module 2 - Solar PV Panels**
- Solar PV – From Cells to Modules
- Characteristics and Familiarization of data sheet
- Quality Standards for PV Panels
- Key Performance Indicators of Solar Modules
- Advances in Solar PV Technology with Examples & Advantages
- Demo of Different Types of Solar Modules

**Module 3 - Solar PV Balance of System Components**
- Different Types of Structure and How to select Structure
- Cables Sizing – DC & AC
- Distribution Boxes and Combiner Boxes – SPD, MCB & Fuses: Sizing and Importance
- Earthing – Importance and Standard Methods

**Module 4 - Grid Tied System**
- Different types of Grid Tied Inverters
- Characteristics and Familiarization of Data Sheet
- Module Level Power Electronics – Optimizers & Micro-inverters
- Key Performance Indicators of Grid Tied System
- Design of Grid Tied System
- Practice Problems
- Tools for Design
- Demo of Grid Tied System
Module 5 - Off Grid & Hybrid System

- Battery - Characteristics, KPIs and Familiarization of Data Sheet
- MPPT and Charge Controller - Characteristics and KPIs
- Power Conditioning unit
- Design of off-grid system
- Hybrid System Characteristics
- Demo of Off-Grid System

Module 6 - PV System Installation and O&M

- Installation Practices – Good & Bad
- Cleaning of Panels – How to Clean Panels
- O&M Practices – Importance and Frequency
- Monitoring for O&M - How monitoring helps O&M

WHO SHOULD ATTEND?

Entrepreneurs

Entrepreneurs interested in starting a Company in the exciting field of Solar PV

Intrapreneurs

Managers from Companies who have plans to expand to Solar PV Sector

Professionals

Students and Professionals who are interested in starting a career in Solar PV or related field

Chief Engineers & Maintenance Managers

Engineers and Maintenance Managers of organizations who have plans to use Solar PV as a source of power

Research Scholars

Research Scholars interested in Solar PV and related applications.

CLICK HERE TO DOWNLOAD
AGENDA OF PROGRAM
WHY CARES SOLAR PV PRACTITIONER PROGRAM?

Experience of Training 7,000+ Participants

Cares is a Clean Technology Solutions Company with focus on R&D, Consulting, Project Development, and Training. We have trained more than 7,000 professionals in Solar PV sector through our different training programs.

The content for our training program is constantly updated to include recent advances in Solar PV Technology. We also incorporate feedback from past training sessions to improve our training methodology.

3 Research labs for Applied Research in Solar PV

Cares Cleantech Development Initiative is a joint initiative by Cares R&D and Training division to improve standards of Solar PV installations in India and drive innovation in Solar Sector. As a part of the initiative, we have established Solar PV Centers of Excellence and Labs for research in multiple institutes such as PSG Institute of Technology - Coimbatore, St. Joseph's Institute of Technology - Chennai and BMS College of Engineering - Bangalore. Through these labs we enable benchmarking of performance of technologies, applied research, and innovation in Solar PV sector.

90%+ Positive Feedback for Training

Our Sessions have received 90%+ positive feedback till date. This is a reflection of the quality of material we use and our unique pedagogy.

Certifications & Associations

Cares Renewables is a certified Solar Energy Training Network Partner of National Institute of Solar Energy under Ministry of New and Renewable Energy. We have conducted solar training programs for different national bodies such as National Productivity Council and Ministry of Micro, Small & Medium Enterprises in India.

Trainers with Industry Experience

Sessions will be handled by Subject Matter Experts, Research Fellows and Industry Leaders with multiple years of experience in Solar PV Industry.
SOLAR PHOTOVOLTAIC
PRACTITIONER TRAINING PROGRAM

Gain knowledge and confidence to successfully design and commission a Solar Power Plant

CLICK HERE TO
REGISTER NOW

FEES
Rs. 9,500* inclusive of GST for 40 hours of Comprehensive Training

*Fee includes lunch and refreshments during the program

LOCATION
BMS-Cares Solar CoE,
BMS College of Engineering,
Basavanagudi, Bengaluru,
Karnataka 560019

CONTACT US
info@caresrenewables.com
+91 90038 77641 | +91 77600 33396 | 0422-4387641
www.facebook.com/caresrenewables

www.caresrenewables.com
www.bmsce.ac.in