

# *Interactive Training Program on* **Renewable Energy for a Sustainable Future including Next Generation Grid Integration, Energy Storage and Cyber Security Challenges**

16 - 20 June, 2025

CBIP Centre of Excellence, Gurugram



*Organized by*



Central Board of Irrigation & Power

*Supported by*



Central Electricity Authority

CBIP Centre of Excellence is accredited as Grade A, Category-I training Institute in the field of Renewable Energy by Central Electricity Authority, Ministry of Power, Govt. of India

## INTRODUCTION

“As the world transitions towards a low-carbon economy, renewable energy has emerged as a vital component of a sustainable future. However, the integration of renewable energy sources into the grid poses significant technical, operational, and regulatory challenges. Next-generation grid integration, energy storage, and cyber security are critical components of a resilient and efficient renewable energy ecosystem. By harnessing the power of advanced technologies, such as smart grids, energy storage systems, and cyber security measures, we can unlock the full potential of renewable energy and create a more sustainable, efficient, and secure energy future for generations to come.”

## PROGRAM OBJECTIVE

Empower participants with the knowledge, skills, and expertise to navigate the evolving energy landscape and contribute to the transition to renewable energy.

This comprehensive training program is designed to equip participants with the knowledge, skills, and best practices necessary to address the challenges and opportunities of renewable energy integration, next-generation grid integration, energy storage, and cyber security.

## PROGRAM METHODOLOGY

Highly interactive training sessions by subject matter experts, Presentations from the experts, Case Studies, and Group Discussions

## PROGRAM COVERAGE

- Energy Sustainability: An Overview
- Solar PV System: Technologies, Design, installation, O&M, Issues and Challenges, case study
- Wind Turbine Technology Development including Wind Turbine Design, Wind Farms Planning & Designing and Installation, commissioning, troubleshooting of wind turbine including case study
- Energy Storage System: Materials and Devices
- Renewable Energy Grid Integration Issues
- Smart Grid & Smart Metering
- E- Mobility
- Cyber Security for Renewable Energy

## FACULTY

Experienced and reputed faculty having in-depth knowledge of subject shall be drawn from reputed organization.

## WHO SHOULD ATTEND

This training is ideal for energy professionals, engineers, academics, researchers, project managers, consultants, entrepreneurs seeking to develop expertise in renewable energy, smart grids, smart metering, e-mobility, cybersecurity etc. anyone interested in renewable energy & sustainability

## DATES AND VENUE

The program will be held on 16-20 June, 2025 at CBIP Centre of Excellence, Plot No.-21, Sector-32, Gurgaon. The timing of the program would be 10 AM to 05 PM

## PROGRAM HIGHLIGHTS

- Comprehensive Coverage: Explore diverse renewable energy sources, including solar, wind etc.
- Grid Integration Mastery: Understand the complexities of integrating renewable energy into existing power grids.
- Energy Storage Solutions: Delve into various energy storage technologies, including batteries, pumped hydro etc.
- Cybersecurity in Energy: Learn about the critical importance of cybersecurity in protecting renewable energy infrastructure.
- Practical Sessions & Case Studies: Engage in highly practical oriented sessions and analyze real-world case studies.



- Expert Faculty: Learn from experienced professionals and researchers in the renewable energy sector.
- Networking Opportunities: Connect with industry peers and expand your professional network.
- Certification: Receive a certificate upon program completion.

### PROGRAMME FEES

Fee would be Rs. 21,000/- per participant. + GST 18%.

Discounted fee Rs. 19,500/- per participant for members of CBIP. + GST 18%.

Group Discount facility would be made available for more than 5 nos. of participants from same organization i.e

Rs. 19,500/- per participant for non-members of CBIP. + GST 18%.

Rs. 17,550/- per participant for members of CBIP. + GST 18%.

The registration fee includes registration kit, working lunch, tea/ coffee during the event only. The participants will have to make their own arrangement for boarding and lodging, transport, etc. Registration fee once paid will not be refunded.

Spot registration facility will also be available provided prior Information is received.

### PAYMENT

All payments be made through cheque at par in favour of "Central Board of Irrigation & Power", payable at Gurugram OR by Bank Transfer to the following Bank Account-

Beneficiary Name : Central Board of Irrigation & Power

PAN No. : AAAJC0237F

GST No. : 06AAAJC0237F1ZW

Bank Details : Indian Overseas Bank, SCO 26, Sec. 31, Gurgaon, Haryana, PIN-122001

Saving Bank Account No. : 236701000000922 Branch RTGS/ NEFT/ IFSC : IOBA0002367

Branch Code : 2367

**After making the payment online in respect of the event, the details like UTR/Organization name to be furnished immediately.**

### ADDRESS FOR CORRESPONDENCE

**Shri. A. K. Dinkar**, Secretary, CBIP

Central Board of Irrigation and Power, MalchaMarg, Chanakyapuri, New Delhi -110021

**Shri Sanjeev Singh**, Director (Energy), CBIP

Central Board of Irrigation and Power, Centre of Excellence,

Plot No-21, Sector-32, Gurgaon, Haryana-122001

Tel No: 0124-4380272, 4035267, E-mail: [training@cbip.org](mailto:training@cbip.org), Website-[www.cbip.org](http://www.cbip.org)

**Nodal Officer:** Shri. Pradeep Gupta, Jt. Advisor, CBIP, M: 9910378062, E-mail: [pradeepgupta@cbip.org](mailto:pradeepgupta@cbip.org)

Shri. Jaideep Singh, Chief Manager (T), M: 9871718218, E-mail: [jaideep@cbip.org](mailto:jaideep@cbip.org)

### HOW TO REGISTER

The participants/participating organizations, desirous of attending the above training may register themselves by sending nominations in the above mentioned emails along with necessary payments. Participants are advised to bring GST No. of their organization along with name of office to whom the invoice is to be sent.

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**16 - 20 June, 2025**  
**CBIP Centre of Excellence, Gurugram**

## **REGISTRATION FORM**

(To be filled in block letters preferably)

Delegate \_\_\_\_\_  
(Surname) (First Name)

Designation \_\_\_\_\_

Name of Organisation \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ PIN \_\_\_\_\_

Phone \_\_\_\_\_ Mobile \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Dated \_\_\_\_\_ Signature \_\_\_\_\_

### **ADDRESS FOR CORRESPONDENCE**

*All correspondence relating to the event should be addressed to:*

**Shri A. K. Dinkar**, Secretary, CBIP

Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi -110021

**Shri Sanjeev Singh**, Director (Energy), CBIP

CBIP, Centre of Excellence, Plot No-21, Sector-32, Gurgaon, Haryana-122001

Tel No: 0124-4380272, 4035267, E-mail: [training@cbip.org](mailto:training@cbip.org), Website-[www.cbip.org](http://www.cbip.org)

**Nodal Officers:** **Shri Pradeep Gupta**, Joint Advisor, CBIP; M : 9910378062 Email: [pradeepgupta@cbip.org](mailto:pradeepgupta@cbip.org)

**Shri. Jaideep Singh**, Chief Manager (T), M: 9871718218, E-mail: [jaideep@cbip.org](mailto:jaideep@cbip.org)

### **Note:**

- Photocopies of the registration form can be used for additional requirements, if any.
- Spot registration facilities will also be available, provided the prior information is received.