



National Productivity Council

Training Programme on “Training on Emerging Solar Technologies & Reactive Power Management”



29th January to
02nd February
2024
GOA

1. ABOUT NPC

National Productivity Council (NPC) is an autonomous organization under the Department of Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Government of India. The present expertise available in NPC has a resource base of professionals from fields such as Economics, Industrial Engineering, Human Resource Management, Energy, Environment, IT, Project Monitoring and Evaluation, Research Studies and Baseline Surveys. In addition, services of external professionals and subject matter specialists are also sought on a need basis, depending upon the nature and scope of work. NPC extends services from its headquarter at New Delhi and 12 regional offices across the country. NPC has professionals from diverse fields to provide Consultancy, Capacity Building and Project Monitoring Unit (PMU) services to various organisations including Central Government Ministries and State Governments.

2. PROGRAMME THEME

India has the largest transmission network in the South Asian region. The robust transmission grid in India can be further developed for wholesale electricity markets within India and cross-border transactions with the ultimate objective of bringing in rationalised tariffs for the electricity consumer and upgrading the quality of life. The transmission sector has grown significantly over the last few years, led by a need to cater to the growing load and provide connectivity to generation projects across India. The transmission network has also expanded its boundaries to facilitate power from neighbouring countries like Nepal, Bhutan and Bangladesh.

As of January 2021, the total transmission line length within India stood at 4,34,963 circuit km (220 kV and above). While the line length grew at a Compound Annual Growth Rate (CAGR) of over 7% between financial year (FY) 2012- 13 and FY 2018-19, the AC substation capacity has grown at about 11% during this period.

It is essential for participants to know about several issues associated with the transmission sector and addressing challenges in the transmission value chain is an important step from the perspective of the long-term sustainability of the electricity sector. This NPC Training programme has been designed to provide the knowledge about transmission sector and recent developments in solar energy systems in India.

3. LEARNING OBJECTIVES

- To provide an understanding about Power Transmission and Regulatory framework of Power Transmission sector in India
- To provide an understanding about Renewable Energy systems and Emerging Solar Technologies.
- To provide an understanding about Reactive Power Management in power system
- To provide the participants with an opportunity to share their experiences.

4. BROAD PROGRAMME COVERAGE

The following topics shall be covered during the training.

- General Introduction about Power Scenario and Power Transmission in India
- Indian grid scenario, transmission line parameters with real case study, modelling of transmission line parameters

- Renewable & Non-renewable energy and latest technology trend in solar energy systems
- Reactive Power and Voltage Control
- Statutory Regulations in Transmission Sector and Electrical safety
- Case studies and panel discussions

5. METHODOLOGY

The Methodology of the training program would be participative in nature. Programme will be conducted through lecture sessions, case studies, model quiz supported by audio-visual aids and multimedia presentation, including small group activity.

6. PARTICIPANTS' PROFILE

All employees across all levels, working in Ministries, Central & State Government Departments, Central and State PSUs, Banks and financial institutions, Boards, Administrative Bodies, Co-operative Sector, Universities, Academic Institutions, etc.

7. FACULTY

The faculty for the training programme will comprise senior NPC Experts and other renowned and experienced Trainers from the respective field.

8. PROGRAMME FEE & VENUE

Programme Code	IE/GN/T12/486/23-24
Program Venue	Goa
Programme Fee	Residential Participants ₹ 60500/- + 18% GST
For Residential Participants	Check-in at hotel–29 th January 2024(12:00 PM) Check-out from Hotel –02 nd February 2024 (09:00 AM)

9. PAYMENT DETAILS

Programme fee inclusive of GST to be paid in advance. (Proof of payment to be attached along with application form.)	
<ul style="list-style-type: none"> • ECS Payment Details: State Bank of India, GIDC Electronic Estate Gandhinagar Branch; A/c No. 39739716062, IFSC Code. SBIN0007949 • DD/Cheque should be drawn in the name of NATIONAL PRODUCTIVITY COUNCIL payable at GANDHINAGAR, GUJARAT • NPC'S PAN No: AAATN0402F, NPC'S GSTIN: 24AAATN0402F1ZC 	

As per GOI notification No. 12/2017-Central Tax Rate dated 28.06.17, Sr. No. 72, Heading 9992 (at page no. 18 of the notification) No GST is applicable where "Services provided to the Central Government, State Government, UT Administration under any training programme for which total expenditure is borne by the Central Government, State Government, UT Administration."

10. HOW TO APPLY

- Nominations may be sent to the following address/email:

Program Coordinator (RD - Gandhinagar):

Vikas Meena, Deputy Director,

Mob: 8866943946, Email: vikas.meena@npcindia.gov.in

Address:

National Productivity Council

Regional Directorate, Gandhinagar

E-5, GIDC Electronic Estate, Sec 26 GIDC,

Gandhinagar, Gujarat – 382 028

Last date for receiving of nominations: (Two weeks before the scheduled date of programme)

11. GENERAL INSTRUCTIONS

- ❖ Due to the limited number of seats, it is recommended to send the nominations as per the attached format at the earliest, for ensuring availability. Acceptance of the nominations is subject to the seat availability and receipt of the programme fee latest by the last date for nominations.
- ❖ The Residential programme fee covers the professional fees towards training, board & lodge of the Participant(s). The fee once deposited is non-refundable, however, substitutions are allowed.
- ❖ Each participant should carry their ID cards and necessary letters / orders issued by their department for attending the training program.
- ❖ The Non-Residential programme fee covers the professional fee towards training, lunch and refreshments during the training program. The fee once deposited is non-refundable, however, substitutions are allowed.
- ❖ NPC shall not bear any charges towards participants' to & fro travel from their residence / place of stay and the training program venue. All participants shall make their own arrangement to reach the venue on time as per the programme schedule.
- ❖ Participants are requested to assure their health and safety during the training period and NPC will not be liable for medical expenses incurred by the participants during the program.
- ❖ NPC will not provide boarding and lodging before and after the dates of programme. Participants planning to stay longer than the scheduled duration should arrange the same at their own cost.
- ❖ Settlement of additional bills: The hotel will be instructed to open separate folio for each participant. Participants may directly settle their additional dues regarding family members, laundry, telephone, mini bar, room service, overstay etc. with the hotel before checkout.
- ❖ The participants shall be awarded a Certificate of Participation on successful completion of programme.
- ❖ Any other terms and conditions apply as may be notified by NPC at any point of time.
- ❖ Referring to GST guidelines, you are requested to confirm the applicability of GST payment for your department.
- ❖ Participants are required to follow the necessary COVID protocols during training.



NATIONAL PRODUCTIVITY COUNCIL

Send to: vikas.meena@npcindia.gov.in

APPLICATION FORM FOR NOMINATIONS

Title of Program: _____

Programme Date: _____

Details of Nominated Participants:

S. No	Name of Delegate	Designation	Mobile No.	Email ID	Official Address for correspondence
1					
2					
3					
4					
5					

Details of Nominating Authority:

Name: _____ Designation: _____

Organization: _____

Address: _____

Contact Number: _____ Email: _____

Signature

Details of Proof of payment of Programme fee (*RTGS / NEFT Details; Cheque, DD*):

Payment Particulars

- **ECS Payment Details:** State Bank of India, GIDC Electronic Estate Gandhinagar Branch; A/c No. 39739716062, IFSC Code. SBIN0007949
- In case of ECS Payment, the payment details should be intimated accordingly along with UTR number
- DD/Cheque should be drawn in the name of NATIONAL PRODUCTIVITY COUNCIL payable at GANDHINAGAR, GUJARAT
- PAN No: AAATN0402F, GSTIN: 24AAATN0402F1ZC



वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE



Training Coordinator:

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NPC - Head-Quarter:

National Productivity Council
5-6 Institutional Area
Lodhi Road
New Delhi – 110003