



One-Day National Workshop on 5G Applications in the Power Sector

09th September, 2025

5G



Organized by
NATIONAL POWER TRAINING INSTITUTE

AN ISO 9001 2015 & 14001 2015 ORGANISATION
(MINISTRY OF POWER, GOVT. OF INDIA)

In collaboration with

DEPARTMENT OF TELECOMMUNICATION
(MINISTRY OF COMMUNICATIONS, GOVT. OF INDIA)

Venue: NPTI Corporate Office, NPTI Complex, Sector-33, Faridabad – 121 003, Haryana, India



About NPTI



National Power Training Institute has been set up by the Government of India under the Ministry of Power, to function as the National Apex Body for Human resources development of the Indian Power Sector. The corporate office of NPTI is located at NPTI Complex, Sector-33, Faridabad, Haryana. NPTI operates on all India basis with 11 constituent Institutes spread over the country. The Institutes are at Faridabad, Badarpur, Nagpur, Durgapur, Bangalore (PSTI and HLTC), Neyveli, Guwahati, Shivpuri, Nangal and Alappuzha.

NPTI has over 60 years of professional expertise in the field of Training, Education and HRD in Power Sectors with industry specific Technical Interface. NPTI has been in the forefront of the Power Industry in developing Hi-Tech Training facilities such as Multimedia Computer Based Training (CBT) Centres and the State-of-the-art Full scope and Distributed Digital Control High - Fidelity, High Quality, Real - Time Training Simulators.

About 5G Use Case Labs



The Indian Government, through the Department of Telecommunications (DoT), has set up 100 5G use case labs across various engineering institutions and universities under the “100 5G Labs Initiative” launched in 2023. The main objective is to promote innovation, R&D, and skill development in 5G technology by providing students, researchers, and startups with hands-on access to 5G test environments.

These labs allow institutions to develop, test, and demonstrate 5G-based applications for different sectors such as smart cities, healthcare, agriculture, education, transportation, and energy.

About Workshop

National Power Training Institute (NPTI), in collaboration with the Department of Telecommunications (DoT), is organizing a One-Day Workshop on "5G Applications in Power Sector" on 9th September 2025 at NPTI Corporate Office, Faridabad.

The workshop aims to explore the transformative potential of 5G technology in enhancing the efficiency, reliability, and sustainability of the power sector. It will focus on cutting-edge innovations such as Artificial Intelligence/Machine Learning (AI/ML), drone technologies, and other digital solutions that can redefine operational practices and open new opportunities for growth.

This platform will bring together **experts, innovators, academicians, and practitioners** from diverse domains to deliberate on sector-specific 5G use cases and identify potential pilot projects. The discussions and knowledge-sharing will help in shaping strategies for the adoption of emerging technologies in the power

Highlights of the Training

- Role of Technology (5G/AI/ML) in the Power Sector.
- Panel Discussion: Unleashing emerging technologies (IOT, Ai, ML & 5G) for effective use in power sector.
- Use of Drones in power Sector.
- Security Considerations in the Power Sector.

Target Audience

Eminent experts from the Power Industry, Telecom Sector, Private Enterprises and Academia, along with senior officers from Central and State Power Utilities.

Registration

Payment of the training fee is not required.

Nominated Participants will have to fill up the Google Form with the link:

Link to register: <https://forms.gle/8HPVdipoyvZXeGcb8>

Last dates of registration: **05th September 2025.**

PATRON

Dr. Tripta Thakur
Director General
NPTI-CO, Faridabad

Sh. Radhacharan Shakya
ITS Additional Director General
& Head of Haryana LSA

COORDINATORS

Dr. N. K. Shrivastava
Director
NPTI-CO, Faridabad
Email: nksrivastava.npti@gov.in

Sh. Karan Goyal
Director (Technology)
Haryana LSA

Smt. Bhawana Choudhary
Deputy Director
NPTI-CO, Faridabad
Email: bhawana.npti@gov.in

Sh. Manoj Kumar Sharma
Deputy Director
NPTI-CO, Faridabad
Email: manoj.npti@gov.in

