Welcomes

Capacity Building for DISCOMs Personnel

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NPTI - A PAN India Organization

New Delhi

Nagpur

Alappuzha

Durgapur

An ISO 9001:2015 & ISO 14001:2015 organization

Nangal

Faridabad

Guwahati

Trained over 4,94,000 power professionals over the past five decades.

HLTC Bengaluru

Neyveli

Shivpuri

PSTI Bengaluru

National Apex Body for Training and Human Resources Development in Power Sector. under the Ministry of Power, Govt. of India

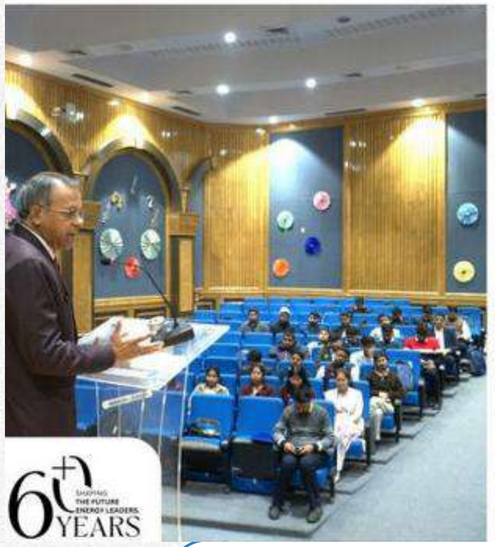
Major Mandate of NPTI

PM Surya Ghar Muft Bijli Yojana	Cyber Security	Training Under RDSS	System Operator Certification	Mission SAMARTH	Mandatory Foundation Program	Apex Institute
Training of DISCOM officials for implementation of the Grid connected Solar Rooftop under PM Surya Ghar Muft Bijli Yojana.	Cyber Security Training & Certification for Power Sector Professionals.	Training & Capacity Building Under Revamped Distribution Sector Scheme (RDSS).	Training & Certification of System Operators of Load Dispatch Centres.	Under Mission SAMARTH NPTI has conducted awareness programs for Farmers/ Pellet Manufacturers/Thermal Power Plant Officials/ Entrepreneurs/ Bankers etc.	Mandatory Foundation Programme for all fresh recruits of all CPSEs/ Autonomous Bodies under Ministry of Power.	NPTI together with its Training Institutes will function as a National Apex Body.

Mandatory Foundation Program for Training & Capacity Building of Fresh recruits in CPSEs/Autonomous Bodies under Ministry of Power

2846 TRAINED
IN
29 PROGRAMS

- **PARTICIPATING ORGANISATIONS: PFC, NTPC, POWERGRID, NHPC, CPRI, BEE, SJVNL, THDC, GRID-INDIA, REC, DVC, NEEPCO, MNRE, SECI**



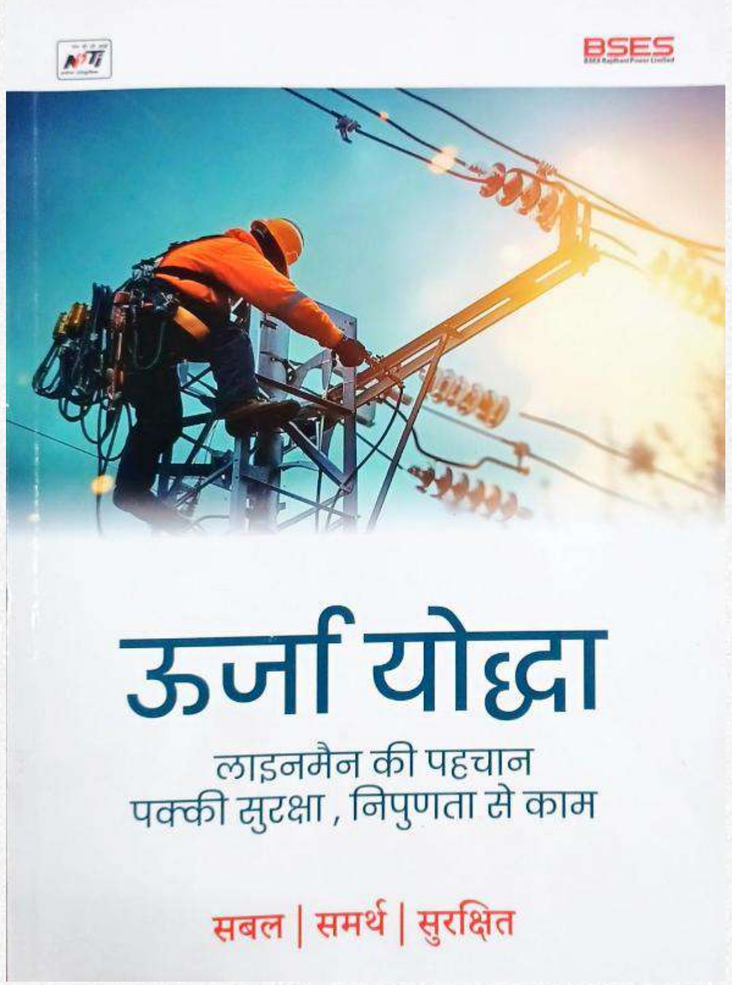
We-Power South Asia Region (SAR) - 100

- On the occasion of International Women's Day, NPTI-CO, Faridabad proudly welcomed the **South Asia Women - Power Sector Network** (WePOWER SAR100 - 2.0 Training Series) for a 3-day technical visit.
- The event was graced by **Sh. Pankaj Agarwal, IAS, Secretary, Ministry of Power, Government of India**, in the esteemed presence of **Dr. Mohammad Rehan, Director General, NISE**, **Ms. Emily Megow, First Secretary (Development), Australian High Commission**; and **Ms. Mandakini Kaul, South Asia Regional Coordinator, World Bank**.

NPTI as an Apex Training Body under Ministry of Power-conducted Induction Training (2022-26) for the following Utilities:

- APRAAVA Energy
- DVC
- GRID-INDIA
- MSETCL
- NHPC
- OHPC
- OTPC
- RRVUNL
- UPRVUNL
- UJVNL
- WBSETCL
- CSPDCL
- CSPTCL
- MPPGCL

Linemen Training Programs



- NPTI has trained around 2200 Distribution Linemen under “Urja Yoddha”, Programs and 2500 Distribution Lineman under “Urja Sarathi” Programs.

Training and Capacity Building of DISCOM Employees under PM SURYA GHAR MUFT BIJLI YOJANA (PMSGMBY)

NPTI has trained more than 24,665 DISCOM Employees under PMSGMBY

Glimpse of the Cyber Security Program for Power Sector

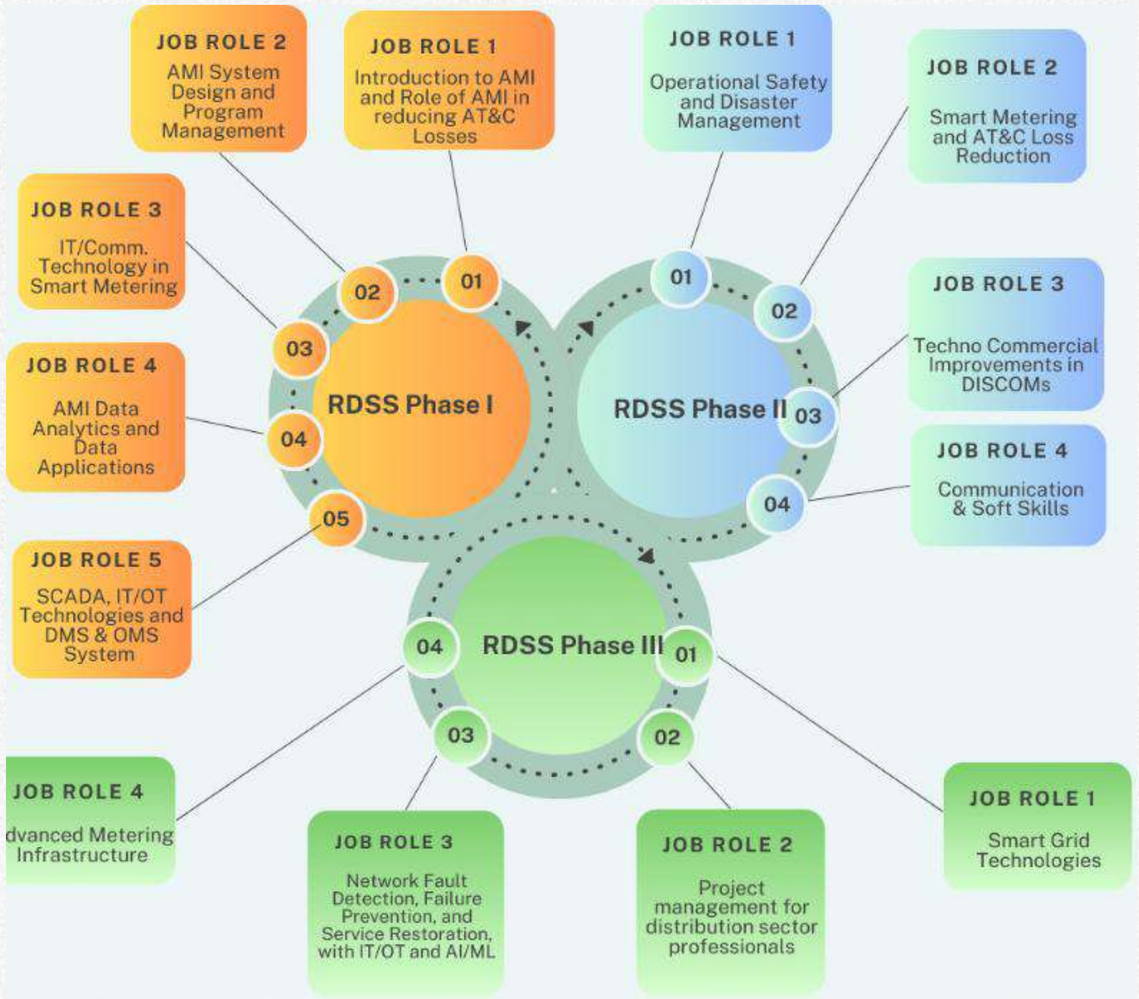
Basic Level	
No. of Programs	38
Total Trained	2725

Intermediate Level	
No. of Programs	4
Total Trained	213

DISCOM Employees	
No. of DISCOMs	23
Total trained	330+

Training and Capacity building under Revamped Distribution Sector Scheme (RDSS)

S. No.	Phase	Level of Participants	Topic of Training	No. of Trained
1	RDSS Phase-1	JE-CE	Introduction of AMI and role of AMI in reducing AT&C losses	8269
			AMI system design and program management	
			IT/Comm. Technology in Smart metering	
			AMI data analytics and data applications	
			SCADA,IT/OT technologies and DMS & OMS System	
2	RDSS Phase-2	Junior Staff/ Lineman/ Technician	Operational Safety and Disaster Management	8561
			Smart Metering and AT&C Loss Reduction	
			Techno commercial improvements of DISCOMs	
			Communication & Soft Skills	
3	RDSS Phase-3	Middle Management (JE-SE)	Smart Grid Technologies	1283
			Project Management for Distribution Sector Professionals	
			Network Fault Detection, Failure Prevention, and Service Restoration, with IT/OT and AI/ML	
			Advanced Metering Infrastructure	



Over 18,113 Professionals Trained under RDSS scheme

Glimpses of the Leadership and Strategic Management Program

S. No.	Particulars	Details
1	Training Program Name	Leadership and Strategic Management
2	Duration	3-Days (Residential)
3	Venue	NPTI Institutes
4	Level of Participants	SE and above

- **The Inaugural Program started on 22nd to 24th December, 2025.**
- **30 DISCOM Employees from 09 DISCOMs participated in this Training Programme.**

National SCADA Resource Centre (NSRC)

- A **state-of-the-art National SCADA Resource Centre (NSRC)** is being established at NPTI, Faridabad in association with PFC.

- NSRC will facilitate to provide **hands-on training on vendor-neutral platforms** on upcoming distribution SCADAs in various DISCOMs across India.

- The Training will be provided on the **same OEM SCADA** that will be installed in the respective DISCOMs.

Objective of NSRC Centre:

1. Promotion of Advanced Technologies such as SCADA/DMS.
2. Handholding of DISCOMs for the adoption of new technologies.
3. Platform for knowledge exchange and P2P Learning.

Functions of NSRC Centre:

1. 6 Cots system to cater comprehensive and on the concept of **"training on what you get" (TOWYG) basis** (Similar User Interface, function, menus and navigational techniques).

2. Comprehensive Training for **O&M practices on RTU/FRTU maintenance**.

3. Understanding **project implementation cycle of SCADA**, testing requirement incl. routine, type test, site , performance test etc.

4. **Customized Module for Management**, executives and Junior executives for effective usage of system.

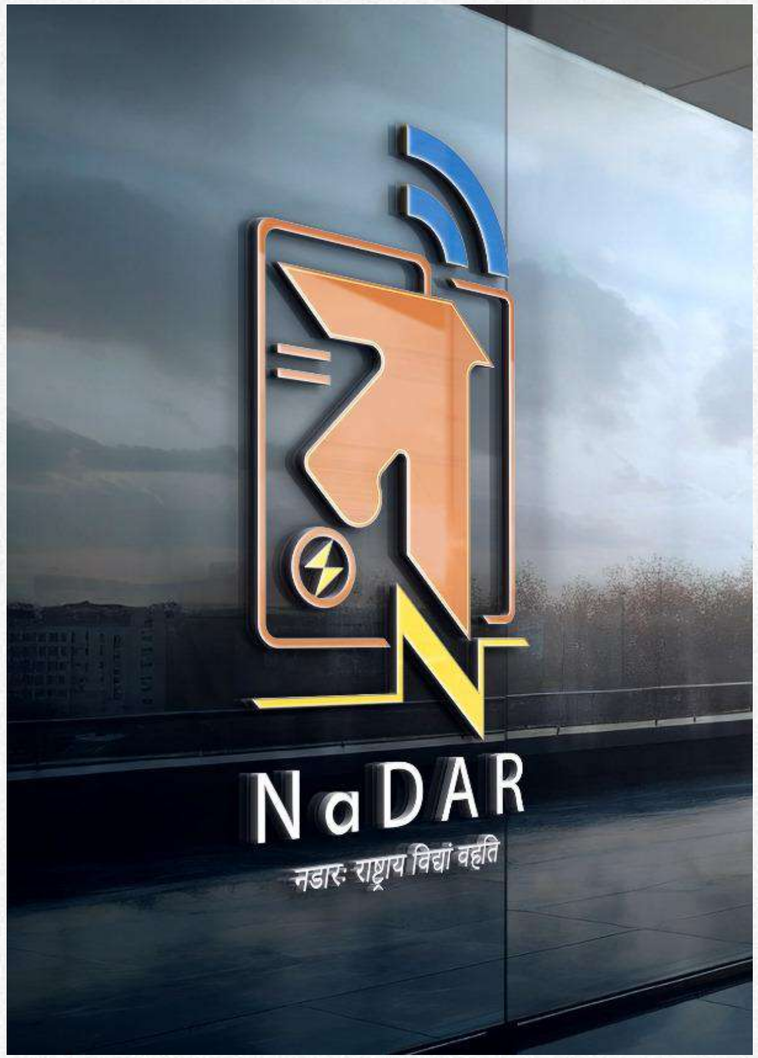
5. Higher Management Dashboard, understanding of KPIs, reports, Executives-regular O&M, **real-time supervisory & control**, report creation etc. for decision making, debugging/replacement etc.

6. Continue to **handhold utility for smooth implementation of SCADA** under RDSS. Also, pave way for SE Asia avenues in SCADA knowledge exchange in Distribution Sector.

Benefits of NSRC

1. Enhance SCADA manpower pool
2. Develop operator competency and audit productivity
3. Minimize outages due to operator errors
4. Ensure operator readiness
5. Plan contingencies in advance
6. Improve system safety/security
7. Uniform monitoring by PFC of SCADA implementation ACROSS India
8. Module fit to different categories and needs
9. Exhaustive O&M training and exposure
10. Annual indexing of utilities for effective usage of SCADA
11. Hub for SCADA knowledge and development of ecosystem on Indigenous technologies

National Data Analytics and Reporting Centre (NaDAR)



- Ministry of Power has approved the **establishment of National Data Analytics and Reporting Centre (NaDAR) at NPTI, Faridabad** in 52nd Monitoring Committee of RDSS
- Training and capacity building of DISCOM officials on **Used Cases developed by AMISPs** for Data Analytics and Reporting Systems.
- NaDAR Centre will provide the initial training to **10,000 DISCOM officials** on the same MDM with data analytics tool and reporting system, which is provided by AMISP in the respective DISCOMs.
- **The Major objectives of NaDAR Centre includes:**
  1. Hands-on training on **vender neutral platforms** to create pool of skilled manpower for DISCOMs.
  2. **Handholding of DISCOMs** for Data Analytics and Reporting System.
  3. Sharing/Demonstration of learning based **customized Used Cases** developed by various DISCOMs.

- **The Functions of NaDAR Centre:**

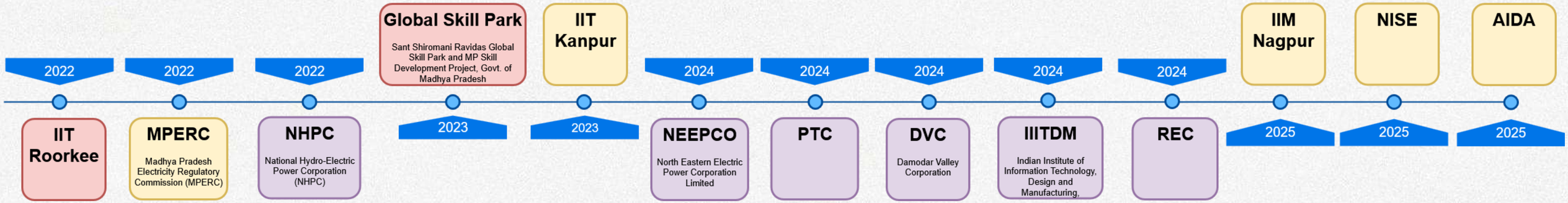
1. Training and Capacity Building of DISCOM officials for Data Analytics and Reporting System developed by AMISPs for **standard used cases** as per SOPs issued by Ministry of Power, Govt. of India i.e.,
    - **Revenue Protection,**
    - **Energy Audit,**
    - **Load Management,**
    - **Power Quality,**
    - **Loss Analytics,**
    - **Management Summary etc.**

2. **Handholding support** for Data Analytics for DISCOMs.

3. **Technical support and expertise** for operation and development of Use Cases.

4. To identify and **share/demonstrate the customized best Used Cases** additionally developed by DISCOMs.

Key MoU's with Industry/Institutes



- NPTI has signed a landmark MoU with the All India DISCOM Association (AIDA) on 29/07/2025 to **strengthen cooperation, technological advancement, and inclusive growth** in India's power distribution sector.
- The collaboration will focus on **assessing the training needs of DISCOM employees** and delivering advanced capacity-building programmes in areas such as **smart metering, SCADA, data analytics, cybersecurity, AI/ML, blockchain, IT/OT, network planning, and energy accounting**.

Thank You
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