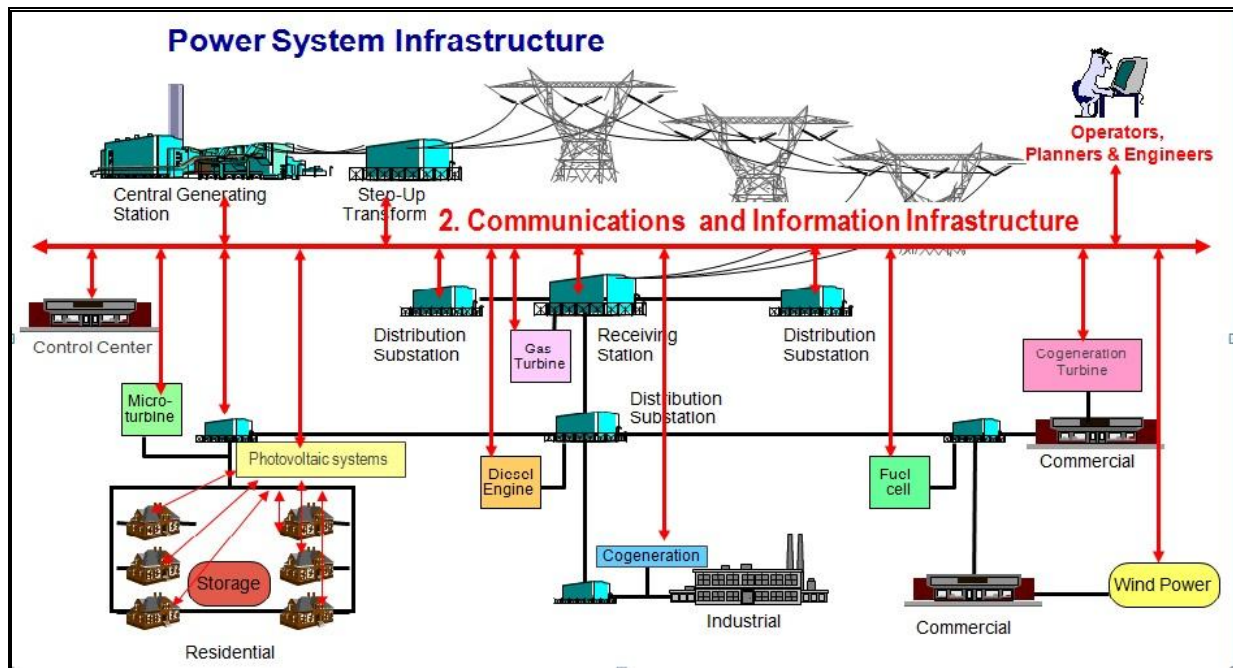




# One Day National Workshop on Cyber Security Issues and its Strategic Avoidance Solution for Transmission Utilities 19<sup>th</sup> Feb-2018



at  
**NPTI-PSTI, Bangalore**

Organised By:

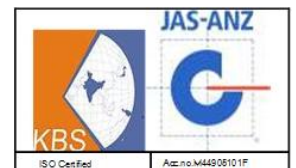
**NATIONAL POWER TRAINING INSTITUTE**

An ISO :2008 &14001:2004 Organization  
(Ministry of Power, Govt of India)

Power Systems Training Institute, Bangalore  
Post Box No 8201, Subramanyapura Road,  
Banshankari II Stage, Bangalore-560070

Ph:-080-26713758,2693436, Fax:080-26713758

[www.nptibangalore.in](http://www.nptibangalore.in) e-mail:- [psstinpti@yahoo.com](mailto:psstinpti@yahoo.com)





## ABOUT NPTI

National Power Training Institute (NPTI) an ISO 9001 & ISO 14001 organization under Ministry of Power, Govt. of India, is a National Apex body for Training and HRD in Power sector with its Corporate office at Faridabad. NPTI is a leading Integrated Power Training Institute at New Delhi, Nangal, Bengaluru, Neyveli, Duragapur, Guwahati and Nagpur. NPTI has more than 50 years of professional expertise in the field of training and HRD in Power Sector after training from its regional Institute at



## About the Workshop

Protection of the critical infrastructure is the primary objective of any nation and the Power Sector assumes top priority. Power Distribution Operation Systems are vital components in Power Systems. Since they are responsible for reliable power delivery between Power Generators and Customers "CyBER Security" is a critical universal issue, and is supported by the National Smart Grid Mission, Govt. of India. Distribution companies across India are on the road to digitization. As they ramp up, it is important that they consider the potential perils to their networks and to their customers, and embed Cyber Security as a core component of the design.

Government of India, in line with National Cyber Security Policy 2013 has created four sectoral Computer Emergency Response Teams (CERTs) to mitigate cyber security threat in Power Systems, for Transmission, Thermal, Hydro and Distribution.

Distribution utilities are also increasingly exposed to the growth of the connected Internet of Things (IoT) domestic devices, such as connected home hubs and smart appliances. These bring a new risk to distribution companies, which is hard to quantify.

"Cyber Security needs an ongoing focus, and distribution utilities in India need to build competencies that help protect the entire value chain. Innovation, Training of People and Eco-System Collaboration will be the key."

The workshop would give an opportunity to the participants to deliberate upon

the various issues related to Distribution utilities in Power Sector, expected cyber security threats in the complex environment and will address the grave concern of a secure cyber infrastructure and related developments. An extensive review on the cyber security objectives and requirements along with the risk evaluation process shall be deliberated upon in the workshop.

## TOPICS TO BE COVERED

1. Evolution of cyber threats
2. Cyber security key challenges covering: Appreciation of threat itself, Challenges in the discovery of the threat, Identifying the perpetrator or the source of the threat, Determining the appropriate response, Lack of international legal framework.
3. Cyber security objectives: Confidentiality, Integrity, Availability
4. Cyber security requirements: Identification, Authentication, Authorization, Trust, Access Control, Privacy
5. Components of cyber security strategy: Prevention, Detection, Response, Recovery
6. Five step methodology: Selection of cases with cyber security considerations, Risk assessment methodology, Development of security architecture, High level security requirements, Assessment of Smart Grid standards
7. Privacy and Smart Grid
8. Research and development themes: Device level, Cryptography and key management, Systems level, Networking issues.

## SPEAKERS

Eminent Experts from technology suppliers on Cyber Security, Policy Makers, Distribution Companies, Academicians etc. will be addressing the participants. The program will be conducted in an interactive environment providing greater scope for discussion. Emphasis will be on highly participative style of learning.

## WHO SHOULD PARTICIPATE

Power Sector Professionals, Researchers, Professionals from Academic & R&D Institutions including info. Security

## Participation Benefits

A critical evaluation on upcoming challenges with innovative idea is highlighted to achieve a roadmap of Distribution Utilities infrastructure.

## How to Register

Registration fee of Rs.5000/- + GST @ 18% = Rs.5900/- per delegate is required to be paid by demand draft/ECS drawn in favour of "Power Systems Training Institute" payable at Bengaluru.

- |                             |                                                                       |
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### Expert Committee

Prof. (Dr.) Rajendra Kumar Pandey, Director General, NPTI

### Convener

Shri. Sanjay D Patil, Deputy Director, PSTI, NPTI

### Chairman of Working Committee

Shri. Sanjay D Patil, Deputy Director, PSTI, NPTI  
(M) 9480253706, e-mail:- sanjay.npti@gov.in

### Organising Committee

Mrs. Piyali Sarkar, Assistant Director, PSTI, NPTI  
Sh.K.Vetrivel, Assistant Director, PSTI, NPTI  
Sh. V.Suresh Babu, Assistant Director, PSTI, NPTI  
Sh.S.Ravi Kumar, Assistant Director (Civil), PSTI, NPTI

*Please address all correspondence to:*

**The Head of Institute  
National Power Training Institute  
Power Systems Training Institute  
Post Box No.6201, Banashankari II Stage  
Yarab Nagar, Subramanyapura Road  
Bangalore- 560 070  
e-mail:- pstinpti@yahoo.com  
Please visit www.nptibangalore.in**

