

ORGANIZER



India
SMART UTILITY
Week 2024

Session : Climate Resilience of Future Grids

Resilience - Climate - Sharing

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Something that is resilient is **strong and not easily damaged** by being hit, stretched, or squeezed.

People and things that are resilient are **able to recover easily and quickly** from unpleasant or damaging events.



A. Heat/Temperature predominant element in Climate

- **Electricity value chain (Generation/Transmission/Distribution /Consumption) has energy conversions that generate heat:**
- Chemical Energy → Mechanical Energy → Electrical Energy → Mechanical Energy (Consumer use)
- B. Waste Management and pollution Management is also relevant as a consequence of primary activity



OXFORD DICTIONARY

To have, use, do or pay something together with another person or other people

(दूसरों के साथ किसी बात में हिस्सेदारी करना)



- A. Avenues
 - Knowledge / Experience
 - Technology
 - Processes
 - Practices
- B. Stakeholders
 - Electricity value chain companies (G, T, D)
 - Consumers
 - Vendors
 - Regulators (CERC/SRC/CEA/BIS/Pollution Control Boards etc)
 - Governments

Existing Resilience Abilities – Are these adequate - ??



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- Self healing Grid / Network
- Frequency Management
- Predictive and Preventive Condition Management
- Advance Distribution Management System
- Demand Side Management
- Continuous upgrading of processes (ISO requirement)
- Human Resources Quality and Training
- Disaster Response
- AI and ML for Load Management being initiated
- Etc. Etc.

- Willingness and Respect for SHARING
- Emphasis and Participation for R&D
- Resources planning / preparedness essential element for reactive response

Need for organising cohesive support of all through:

National Disaster / Climate Management Force (on principals of NDRF)

- create 4 centers (N,E,W,S) at selected Discom offices
 - manning to be one senior supported by 6 juniors (for 24X7)
 - Appropriate communication reach with all Discoms to respective designated person
 - Data bank of human and equipment resources that can be available from Discoms on short notice
- (Detailed SOP once prepared to be the participating commitment)

THANK YOU

*For discussions/suggestions/queries email: **isuw@isuw.in**
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