

Host Utilities



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India
SMART UTILITY
Week 2024

Supporting Ministries



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MINISTRY OF POWER
GOVERNMENT OF INDIA



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MINISTRY OF POWER
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CENTRAL ELECTRICITY AUTHORITY

Session 6: Climate Resilience of Future Grids

Moderator Remarks

Presented By

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1. Equipment Specs. & Standards for Changing Weather Patterns
2. Infrastructure Redesign for Flood Protection
3. Cyclone-Resistant Pole and Tower Designs
4. Undergrounding Distribution Lines
5. Advanced Weather Forecasting and Emergency Plans
6. Collaboration and Resources Sharing
7. Investment in Emergency Equipment and Reserves

- 1. Ambient temperature rise with “net load” volatility (high RE), poses a thermal risk to critical assets (less longevity):**
 - a. Manage dynamically OR risk “name plate derating” (financial impact).
 - b. Will real-time asset operating temperature now become a necessity in operating critical assets?
- 2. Are hurricane-proof poles/wires the way forward or should it be underground cables?**
 - a. What will overhead and undergrounding standards look like going forward?
- 3. How should our future Substations look like to prevent flooding?**
 - a. Are there areas of critical retrofits today to prevent flooding?
- 4. Why have Standards not moved in tandem with climate change realities?**

THANK YOU

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