

**International Conference on
Smart Technologies for Energy, Sustainability & Industry (STESI)
July 22-23, 2026**

Department of Electrical Engineering, Manipal University Jaipur

Special Session ID	SS-06
Title	From Assets to Ecosystems: Lifecycle Intelligence and Governance of Power Infrastructure
Tentative Topics	<ul style="list-style-type: none"> 1. AI/ML-based lifecycle and degradation modeling of power assets 2. Data-driven asset health assessment and predictive maintenance 3. Digital twins for long-term infrastructure planning and validation 4. Climate resilience and risk-informed infrastructure design 5. AI-enabled techno-economic and multi-objective optimization 6. Governance, regulatory, and ownership frameworks for infrastructure assets 7. Human-centric and explainable AI for operator decision support 8. Transition risk analysis and stranded asset management 9. Socio-technical integration in infrastructure decision-making 10. Utility-scale case studies and real-world implementations
Special Session Organisers	
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