



EVENT DAY 3: 20 MARCH 2025 (THURSDAY)

BUILDING RESILIENT UTILITY ASSETS FOR CONGESTED CITIES AND CLIMATE RESILIENCE

SESSION PARTNERS: CDRI

Venue & Time

Venue	Regency 5
Time	India 14:00 – 17:00

Session Background

Rapid urbanization, congestion, and load growth together with climate change impact needs new attention on utility assets. EHV has entered our congested cities and so has proliferation of MV stations due to reliability, PV, BESS, EV and DERMS. Further, climate resiliency warrants asset preparedness against high impact events.

In the last decade digital and solid-state power technologies have progressed substantially in the electric power industry. Substations design-builds using solid-state switches/ breakers, solid-state transformers, fiber-optic sensors, 61850 communication protocols, easier undergrounding for cables are now possible. Environmentally protective “Cube/Shell” designs with smaller footprint (than current GIS stations) can be engineered using BIMS technology.

This session will hear from experts on how large and very congested cities can benefit from these advancements to meet load growth, RE integration as well as climate change resiliency needs.

Discussion Points

1. Equipment Specifications and Standards for Changing Weather Patterns
2. Infrastructure Redesign for Flood and Cyclone Protection
3. Undergrounding Grids, Sub-stations and Distribution Lines
4. Dynamic Line Rating (DLR)
5. Fiber Optic Sensors for Realtime Monitoring of Temperature of Grid Assets in NMS/DMS/ADMS
6. Advanced Weather Forecasting and Emergency Plans
7. Collaboration and Resources Sharing
8. Investment in Emergency Equipment and Reserves
9. Grid Forming Inverters
10. Islanding Schemes in Cities/States
11. Building Resiliency Against Cyber Attacks

Chairs	Ghanshyam Prasad , Chairman, CEA*
Moderator	Ravi Seethapathy , Advisor, ISGF& Executive Chairman, Biosirus Inc.
Theme Presentations	<ol style="list-style-type: none"> 1. Tata Power, Odisha 2. L&T PTD* 3. PT.PLN, Indonesia



Speakers	<ol style="list-style-type: none">1. Darmawan Prasodjo, President Director, PT.PLN, Indonesia*2. Amit Prothi, DG, Coalition for Disaster Resilient Infrastructure (CDRI)*3. Sanjay Banga, President – T&D, Tata Power Company Ltd4. Gajanan Kale, CEO, TPDDL5. Husain Lootah, EVP Transmission, Dubai Electricity and Water (DEWA)*6. R Srinivasan, SVP Engineering, L&T PT&D*7. Abel Didier Tella, Director General, Association of Power Utilities in Africa8. N Venu, President APAC, Hitachi Energy*9. Jayant Kumar, GM Digital Engineering, L&T PT&D*10. Cyro Boccuzzi, President, Eco-EE and President, Latin American Smart Grid Forum, Brazil
Key Takeaways by Moderator	
Coordinator: Anand Kumar Singh anand@indiasmartgrid.org	



EVENT DAY 3: 20 MARCH 2025 (THURSDAY)
POWER SYSTEM FLEXIBILITY AND DERMS
SESSION PARTNER: ASPENTECH

Venue & Time

Venue	Crystal 2
Time	India 14:30 ~ 17:00

Session Background

As renewable energy penetration increases, managing grid flexibility has become essential to maintaining stability and reliability. Distribution Energy Resource Management Systems (DERMS) are advanced solutions that enable efficient integration, monitoring, and optimization of Distributed Energy Resources (DERs) such as solar, wind, battery storage, electric vehicles, and flexible demand-side resources. These systems provide real-time control to balance supply and demand, mitigate variability in renewable generation, and enhance grid resilience.

India has already achieved 100 GW+ grid connected solar generation resources including 15 GW of rooftop solar PV systems. The PM Surya Ghar Yojana launched in 2024 has a target of 10 million rooftop solar installations with a cumulative capacity of 30 GW on fast track by 2027. Besides, installation of EV charging stations are also accelerating fast. Managing millions of these distributed generation resources and EV charging load points will be impossible for DISCOMs without advanced digital tools to monitor and manage them efficiently. In this context, DERMS would play a crucial role in DER integration, improving grid flexibility, and avoiding curtailment of RE generation and help manage frequency regulation, voltage control, and demand response. This is essential for maintaining a stable and resilient grid as India accelerates its transition to a low-carbon energy future.

Discussion Points

1. Distributed Energy Resource Management Systems (DERMS) – importance of DERMS and how it integrates with the wider grid management systems and the benefits they bring in terms of operational flexibility and efficiency
2. Challenges of DISCOMs in implementing DERMS and supportive solutions available for facilitating integration with existing infrastructure, data management and interoperability
3. DER Registry and how it supports preparing foundation work for DERMS
4. How to develop a strategic roadmap – a practical and cost-effective – for implementation of DERMS in DISCOMs
5. Global Best Practices and Case Studies - examining successful DERMS deployments worldwide, highlighting key learnings and strategies for effective implementation in India
6. Cyber Security measures for the distribution grid with millions of DERs, EVs and Smart Meters

Chair	RS Dillion , Member, CERC*
Moderator	Ravi Seethapathy , Advisor, ISGF and Executive Chairman, Biosirus Inc.
Theme Presentation	Anand S , Principal Solution Consultant, Solution Consulting, AspenTech India Private Ltd.
Speakers	<ol style="list-style-type: none"> 1. Lawrence Jones, Sr Vice President, Edison Electric Institute, USA 2. Jaiprakash Shvahre, MD, GUVNL* 3. Abhishek Ranjan, CEO, BRPL 4. GE Vernova 5. Rahul Chakrabarti, Director, Professional Services, AspenTech India Private Ltd. 6. Om Dubey, Director, CCR, Australia 7. Akilur Rahman, CTO, Hitachi India 8. Sylvie Tarnai, Chief Strategy Officer, Energy Pool, France* 9. Zhibo Ma, Market Manager, National Grid, UK*



	<ol style="list-style-type: none">10. SC Saxena, Director (Market Operation), Grid-India*11. KVS Baba, CMD(Retd.), Grid-India*12. Terry Mohn, Chair, Australian Microgrids; and Advising Executive, General MicroGrids*13. Gridspertise, Italy14. Tata Power15.
Coordinator: Disha Khosla disha@indiasmartgrid.org	



**EVENT DAY 2: 20 MARCH 2025 (THURSDAY)
2ND INDIA - BRAZIL SMART ENERGY WORKSHOP (IN
COLLABORATION WITH LATAM SMART GRID FORUM AND BRAZIL-
INDIA CHAMBER OF COMMERCE*)**

Venue & Time

Venue	Regency 5
Time	India 16:00-19:00



FORUM LATINO-AMERICANO DE SMART GRID



Session Background

The global energy landscape is undergoing a transformative shift, driven by the urgent need for sustainable development, climate change mitigation, huge growth in electrification and technological innovations. This session aims to foster collaboration and knowledge exchange between Brazil and India stakeholders to address critical challenges and opportunities in energy transition. Key focus areas include the implementation of Smart Grids, reduction of T&D losses, integration of renewable energy sources, development of biofuels, and the adoption of smart mobility and urban mobility solutions. Additionally, the session will explore the role of regulatory frameworks and policies in enabling innovation and scaling up smart energy solutions. By sharing best practices, identifying collaborative opportunities, and discussing cutting-edge technologies, this session seeks to pave the way for a more resilient, efficient, and sustainable energy future

Discussion Points

- Smart Metering as a Service – the Indian Model:**
 - Continuation of Smart Meter Dialogue from LATAM 2023
 - Sharing Indian experience of Smart Metering as a Service Against Monthly Fee
- Grids Implementation**
 - Strategies for Developing Robust Smart Grid Infrastructure
- T&D Loss Reduction:**
 - Common Challenges in Transmission and Distribution (T&D) Loss Reduction
 - Collaborative Approaches and Technologies for Minimizing Energy Losses
- Renewable Energy Integration:**
 - Assessing the Current State of Renewable Energy Adoption in Brazil and India
 - Digital Tools for DER Integration
 - Identifying Opportunities for Collaboration in Solar, Wind, and Bioenergy Projects
- Bio Fuels Development:**
 - The Role of Biofuels in Energy Transition and Climate Change Mitigation
 - Exploring Joint Research and Development Initiatives in Biofuel Technologies
- Smart Mobility Solutions:**
 - Electric Mobility Landscape in India and Brazil
 - Collaborative Projects for accelerated rollout of charging infrastructure and electric vehicles (EVs)
 - Evolving Trends and Technologies in Electric Mobility
- Regulatory Frameworks and Policies:**
 - The Importance of Supportive Regulatory Environments to Foster Innovation
 - Policy Gaps and Potential Reforms to Promote Smart Energy Solutions



14:30 ~ 15:00	INAUGURAL SESSION Welcome Address: Reji Kumar Pillai, President, ISGF and Chairman, Global Smart Energy Federation (GSEF) Special Address <ol style="list-style-type: none"> Cyro Vicente Boccuzzi, Presidente - ECOee & L.A. Smart Grid Forum Leticia Gomes, Manager, Institutional Relations, India-Brazil Chamber of Commerce Pedro Piacesi de Souza, Head of Energy and Environment Sector, Embassy of Brazil in New Delhi Anil Rawal, MD, IntelliSmart Infrastructure Sandip Dhamija, CEO, TP Power Plus Ltd Inaugural Address: Vinay Kumar, Director - LAC, Ministry of External Affairs*
15:00 ~ 16:00	Session -1: T&D Loss Reduction Experiences in India and Brazil and Smart Metering as a Service – the Indian Model Moderator: Ravi Seethapathy, Advisor, ISGF; Executive Chairman, Biosirus Inc Speakers: <ol style="list-style-type: none"> Subhadip Raychaudhuri, Additional General Manager, TPDDL Cyro Vicente Boccuzzi, President - ECOee & L.A. Smart Grid Forum Felipe Tenorio Vicente, Deputy-Regulation, Light, Rio de Janeiro Brajesh Kumar, Sr Executive Vice President and Business Head, BSES Yamuna Power Limited Arvind Singh, CEO, Tata Power Western Odisha Distribution Company Ltd
16:00 ~ 17:00	Session 2: Biofuels Moderator: Ravi Seethapathy, Advisor, ISGF; Executive Chairman, Biosirus Inc, Canada Speakers: <ol style="list-style-type: none"> Bárbara Teruel, Associate Professor and Coordinator of the Digital Agriculture and Energy Laboratory, State University of Campinas (UNICAMP) Mohnish Ahuja, Founder and CEO, PRESPL Neeraj Atray, Principal Scientist – Biofuels, Indian Institute of Petroleum (IIP) Amitabh Malaviya, CEO, Araville Green Energy Ventures Pvt Ltd Cyro Vicente Boccuzzi, President - ECOee & Latin American Smart Grid Forum Vishal Rawat, Director General, Biodiesel Manufacturers Association of India Chandra Kumar Jain, Grain Ethanol Manufacturers Association of India (GEMA)
17:00 ~ 17:15	Closing Remarks by Moderators
Coordinator: Aashima Chaney +91 9871752530 aashima@indiasmartgrid.org	