

**EVENT DAY 3: 14 MARCH 2024 (THURSDAY)**

**SESSION-6  
CLIMATE RESILIENCE OF FUTURE GRIDS  
(In Collaboration with CDRI)**



<b>Venue &amp; Time</b>	
Venue	<b>Regency- 1&amp;2</b>
Time	<b>India 14:15 ~ 17:15</b>
<b>Session Background</b>	
<p>As climate change leads to more frequent and severe weather events, future grids must be resilient to these challenges. This involves enhancing the physical infrastructure to withstand extreme conditions, incorporating advanced technologies for adaptive response, and ensuring the grid can recover quickly from disruptions. With increasing frequency and intensity of extreme weather events and constant rise in ambient temperatures, the resilience of utility services, including electricity distribution, is facing unprecedented challenges. Climate change is no longer a distant threat; it is a present reality that necessitates proactive measures to safeguard critical infrastructure and ensure uninterrupted service delivery.</p> <p>This session acknowledges the complex and multifaceted nature of the challenges utilities face, emphasizing the need for strategic planning, innovation, and collaboration to address these challenges effectively. This session serves as a comprehensive exploration of disaster management and climate readiness for the electric utilities with assets distributed over vast geographies. By addressing equipment standards, infrastructure redesign, advanced forecasting, collaboration, and strategic investment, utilities can better prepare themselves to withstand the growing threats posed by climate-related disasters and continue to provide reliable services to their customers.</p>	
<b>Discussion Points</b>	
<ol style="list-style-type: none"> <li>1. Equipment Specifications and Standards for Changing Weather Patterns</li> <li>2. Infrastructure Redesign for Flood Protection</li> <li>3. Cyclone-Resistant Pole and Tower Designs</li> <li>4. Undergrounding Distribution Lines</li> <li>5. Advanced Weather Forecasting and Emergency Plans</li> <li>6. Collaboration and Resources Sharing</li> <li>7. Investment in Emergency Equipment and Reserves</li> </ol>	
<b>Chair</b>	<b>UN Behera</b> , Former Chairman, Odisha Electricity Regulatory Commission
<b>Moderator</b>	<b>Ravi Seethapathy</b> , Advisor, ISGF
<b>Theme Presentation</b>	<b>Amit Tripathi</b> , Advisor-Power Sector, Coalition for Disaster Resilient Infrastructure (CDRI)
<b>Speakers</b>	<ol style="list-style-type: none"> <li>1. <b>Daniel Karmel Fernando Tampubolon</b>, Vice President, IT Business Partner Corporate, PT PLN (Persero), Indonesia</li> <li>2. <b>Pankaj Pandey</b>, Managing Director, KPTCL*</li> <li>3. <b>RR Mehta</b>, Former Mentor and Advisor, Reliance Infrastructure</li> <li>4. <b>Vandana Singhal</b>, Chief Engineer – Distribution Planning, Central Electricity Authority*</li> <li>5. <b>Arvind Singh</b>, CEO, TPCODL</li> <li>6. <b>Suvendra Kumar Senapati</b>, Head - Sales &amp; Commercial Services (EMEA &amp; IAPAC REGIONS), L&amp;T</li> <li>7. <b>Vivek Pandey</b>, Sr. GM- Grid India</li> </ol>
<b>Key Takeaways by Moderator</b>	

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**1ST INDIA - BRAZIL SMART ENERGY WORKSHOP  
THEMES: T&D LOSS REDUCTION AND BIOFUELS**

**13 MARCH 2024 (WED) | 14:00 ~ 17:45**

**VENUE: REGENCY- 5**

**IN COLLABORATION WITH LATAM SMART GRID  
FORUM AND BRAZIL-INDIA CHAMBER OF  
COMMERCE\***

FÓRUM LATINO-AMERICANO DE SMART GRID

**SMART GRID**



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**BACKGROUND**

The power systems of Brazil and India has several commonalities. Both the power systems are growing and changing fast with scaling up of distributed renewable energy resources. The T&D losses in parts of India and Brazil are very high which is a significant issue affecting efficiency and economic viability of the sector. Brazil has been a pioneer in the biofuels and has rich experience to share with India. At the G20 meeting in India in September 2023 a Global Biofuel Alliance was launched and in this alliance USA, Brazil and India are expected to play key roles. The workshop aims to strengthen the cooperation between India and Brazil in technology and experience sharing in areas such as T&D loss reduction, RE and EV integration with grids, Biofuels and application of emerging technologies such as AI, ML, Blockchain etc.

**Discussion Points**

**1. T&D Loss Reduction:**

- Successful experiences in India (Delhi, Bhiwandi, Ajmer etc) and lessons for Brazil and other countries
- Case studies from Brazil
- Policy and regulatory interventions required for grid strengthening and increasing the visibility of power flows

**2. Biofuels:**

- Global biofuel alliance
- Advances in biofuel technologies
- Production and utilization of biofuels
- Role of biofuels in national energy strategies
- Case studies from Brazil

**3. Other Areas for Collaboration:**

- AI, ML and Blockchain applications for utilities
- Street lighting

**AGENDA**



14:00 ~ 14:30	<b>INAUGURAL SESSION</b> <b>Welcome Address: Reji Kumar Pillai, President, ISGF</b>  <b>Special Address</b> <ol style="list-style-type: none"><li>1. <b>Fernando Mosna</b>, Director, ANEEL</li><li>2. <b>Cyro Vicente Boccuzzi</b>, Presidente - ECOee &amp; L.A. Smart Grid Forum</li><li>3. <b>Anil Rawal</b>, MD &amp; CEO, IntelliSmart Infrastructure Private Limited*</li><li>4. <b>Leticia Gomes</b>, India-Brazil Chamber of Commerce</li><li>5. <b>Pedro Piacesi de Souza</b>, Head of Energy and Environment Sector, Embassy of Brazil in New Delhi*</li></ol> <b>Inaugural Address: GV Srinivas, Additional Secretary-LAC, Ministry of External Affairs*</b>
14:30 ~ 16:30	<b>Session 1: T&amp;D Loss Reduction Experiences in India and Brazil</b> <b>Moderator: Ravi Seethapathy, Advisor, ISGF</b> <b>Speakers</b> <ol style="list-style-type: none"><li>1. <b>Subhadip Raychaudhuri, Additional General Manager, TPDDL</b></li><li>2. <b>Cyro Vicente Boccuzzi</b>, Presidente - ECOee &amp; L.A. Smart Grid Forum</li><li>3. <b>Felipe Tenorio Vicente</b>, Deputy-Regulation, Light, Rio de Janeiro</li><li>4. <b>Brajesh Kumar</b>, Sr Executive Vice President and Business Head, BSES Yamuna Power Limited</li><li>5. <b>Arvind Singh</b>, CEO, TPCODL*</li></ol>
16:30 ~ 17:30	<b>Session 2: Biofuels</b> <b>Moderator: Sunil Kumar, Joint Secretary, MoPNG*</b> <b>Session Speakers:</b> <ol style="list-style-type: none"><li>1. <b>Monish Ahuja</b>, Managing Director, Punjab Renewable Energy Systems Private Limited (PRESPL)</li><li>2. <b>Amitabh Malaviya</b>, CEO, Araville Green Energy Ventures Pvt Ltd*</li><li>3. <b>Cyro Vicente Boccuzzi</b>, Presidente - ECOee &amp; Latin American Smart Grid Forum</li><li>4. <b>Bárbara Teruel</b>, Associate Professor and Coordinator of the Digital Agriculture and Energy Laboratory, State University of Campinas (UNICAMP)</li></ol>
17:30 ~ 17:45	<b>Closing Remarks by Moderators</b>

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