

2nd August 2019  
Le Meridian, New Delhi

# Powered by Tech

Disruptive Technologies Transforming Power Industry



Programme

Venue: Sovereign I

9.30 a.m. – 10.30 a.m.	Registration and Tea Coffee	
10.30 a.m. onwards	Inaugural Session	
<p><i>A reliable, economically competitive and environmentally sustainable electricity system is the cornerstone of a modern society. The Fourth Industrial Revolution builds on the digital revolution and combines multiple technologies that are leading to unprecedented paradigm shifts in the economy, business, society, and for individuals. It involves the transformation of entire systems. The electricity landscape is a prime example of the Fourth Industrial Revolution as it undergoes transformation, becoming more complex than ever before, with rapidly evolving technologies, emerging innovative business models and shifting regulatory landscapes.</i></p>		
10.30 a.m. – 10.35 a.m.	Welcome Address	<b>Mr. Deb A Mukherjee</b> , Chairperson, Energy and Environment Committee and Senior Vice President, The Bengal Chamber of Commerce and Industry and Managing Director, Cenergist Energy Private Limited
10.35 a.m. – 10.40 a.m.	Theme Address and Introduction of Power Think Tank of The Bengal Chamber of Commerce and Industry	<b>Mr. Gautam Ray</b> , Co-Chairperson, Energy and Environment Committee, The Bengal Chamber of Commerce and Industry and Executive Director (HR & Admin.), CESC Limited
10.40 a.m. – 10.50 a.m.	Industry Perspective-Fuel Security Concern	<b>Mr. P S Bhattacharyya</b> Former Chairman, Coal India Limited & Chairperson, Mining and Minerals Committee, The Bengal Chamber of Commerce and Industry
10.50 a.m. – 11.00 a.m.	Power for Future	<b>Shri Rakesh Kumar</b> , Director (Programmes), International Solar Alliance (ISA)
11.00 a.m. – 11.10 a.m.	Why do we need Nuclear Power	<b>Dr. Kirit Parikh</b> , Chairman, Integrated Research and Action for Development (IRADe)
11.10 a.m. – 11.20 a.m.	Industry Perspective	<b>Mr. Debasish Banerjee</b> , Managing Director- Distribution, CESC Limited
11.20 a.m. – 11.30 a.m.	Innovations in Power Industry – Opportunities for International Cooperation	<b>Ms. Ratika Jain</b> , CEO, Global Innovation and Technology Alliance
11.30 a.m. – 11.40 a.m.	Sustainable Power Generation	<b>Mr. S Roy</b> , Director(HR), NTPC Limited
11.40 a.m. – 11.50 a.m.	Indian Power Sector leveraging its Efficiency	<b>Shri Abhay Bakre</b> , Director General, Bureau of Energy Efficiency, Ministry of Power, Government of India

11.50 a.m. – 12.00 p.m.	India's Power Transition – Clean, Green and Sustainable	<b>Dr Ajay Mathur</b> , Director General, The Energy and Resources Institute (TERI)
12.00 p.m. – 12.05 p.m.	Conclusion	<b>Mr Arun K Mukherjee</b> , Chairperson Emeritus, Energy and Environment Committee, The Bengal Chamber of Commerce and Industry
12.05 p.m. – 12.10 p.m.	Changeover	
<i>Electrification, decentralization and digitalization are converging to create a smarter and more connected electric system. However, several challenges stand between the current system and a more efficient, sustainable and distributed future.</i>		
12.10 p.m. – 12.55 p.m.	Panel Discussion: Transformation of Discoms Improving Operational Efficiency- Role of Technology	<p>Session Chairperson: <b>Mr Ajay Shankar</b>, Distinguished Fellow, The Energy and Resources Institute (TERI )</p> <p>Panelists : Power Companies (Distribution and Generation) to be invited to share their case studies/journey with emerging technologies disrupting the industry</p> <ul style="list-style-type: none"> <li>• <b>Mr R C Agarwala</b>, Managing Director and Chief Executive Officer, Noida Power Company Ltd</li> <li>• <b>Mr Manthiram Shenbagam</b>, Chief Operating Officer, Tata Power Delhi Distribution Limited</li> <li>• <b>Mr. Abhishek Ranjan</b>, AVP, Systems Operation, BSES</li> </ul>
12.55 p.m. – 1.00 p.m.	Changeover	
<p><i>Countries reached a deal to address climate change in the Paris Agreement in COP 21 and in COP 24 a deal was made on almost every aspect of the Paris Rulebook affirming its resilience and the determination of Parties to press ahead with Intergovernmental Panel on Climate Change/IPCC's Reports.</i></p> <p><i>By 2030, India has pledged to increase the share of non fossil fuels capacity by 40% for electricity generation and lower the emission intensity of its GDP by 33-35% from 2005 levels. As energy sector is one of the key contributor to the CO<sub>2</sub> emissions in India, to drive 'energy transition' and making the sector relevant to the Nationally Determined Contributions (NDCs), the financial markets has a major role to play in bringing investments in renewables and clean energy technologies.</i></p> <p><i>Hence, the issue of bringing new investments to integrate the variable renewables will then be of structuring the financial environment through financial, market and regulatory models.</i></p> <p><i>This session will focus on:</i></p> <ol style="list-style-type: none"> <li>1. <i>Financial Models</i></li> <li>2. <i>Technology Transfer</i></li> <li>3. <i>Capacity Building and Education</i></li> </ol>		
1.00 p.m. – 1.35 p.m.	Discussion Forum : Capacity Development & Financial Models	<p>Session Chairperson: <b>Mr. R R Rashmi</b>, Distinguished Fellow, Centre for Global Environment Research, The Energy and Resources Institute (TERI )</p> <p><b>Mr Anish Mandal</b>, Director, Deolitte Touche Tohmatsu India LLP</p>
1.35 p.m. – 2.20 p.m.	Lunch	
<i>Big Data, Cloud Computing and Machine Learning are already being applied to utilities' business challenges. Blockchain will create a transparent, auditable, and automated record of energy generation and consumption. It can result in energy efficiency and cost savings.</i>		

2.20 p.m. – 3.05 p.m.	<p>Session: Trends in Power Tech</p> <ul style="list-style-type: none"> <li>• IoT</li> <li>• AI</li> <li>• Analytics</li> <li>• Block Chain</li> </ul>	<p><b>Mr Gaurav Angira</b>, Director, Deloitte</p> <p><b>Dr. Shashank Vyas</b>, Associate Fellow, The Energy and Resources Institute (TERI)</p>
3.05 p.m. – 3.10 p.m.	Changeover	
<p><i>Smart grid technology has driven operational efficiency, dramatically improving outage response, restoration time and managing distributed and intermittent generation. This umbrella of technologies, particularly the advanced communication and control capabilities offered by ICT, is empowering power distribution utilities to manage, monitor and optimize their network operation.</i></p> <p><i>Energy storage is yet another important technological component of the smart grid paradigm. Storage can be deployed both at the grid and at an individual consumer's home or business. A complex technology, its economics are shaped by customer type, location, grid needs, regulations, customer load shape, rate structure, and nature of the application.</i></p>		
3.10 p.m. – 4.10 p.m.	<p>Special Session on Storage, Grid, Smart Metering : Introducing Prosumers</p> <p>Special Address</p>	<p>Session Chairperson: <b>Mr K Ramanathan</b>, Distinguished Fellow, Electricity and Fuels Division, The Energy and Resources Institute (TERI )</p> <p><b>Mr Pankaj Batra</b> Chairperson - Policy, Regulations and Business Models, India Smart Grid Forum</p> <p>Panelists</p> <ul style="list-style-type: none"> <li>• <b>Mr KVS Baba</b>, Chairman &amp; Managing Director, Power System Operation Corporation Ltd. (POSCO)</li> <li>• <b>Mr Manish Kumar Tiwari</b>, General Manager, Smart Grid, Powergrid Corporation of India Limited</li> <li>• <b>Mr. S. Narayan Kumar</b>, Fellow, Electricity and Fuels Division, The Energy and Resources Institute (TERI )</li> </ul>
4.10 p.m. – 4.20 p.m.	The Way Forward	<b>Mr. A K. Saxena</b> , Senior Director, Electricity and Fuels Division The Energy and Resources Institute (TERI)