



**23rd and 24th**  
August 2017

ITC Sonar, Kolkata  **10th Edition of Environment and Energy Conclave**

### Programme

23 <sup>rd</sup> August 2017		
4.30 p.m. – 5.30 p.m.	<b>Registration and Networking High Tea</b>	
5.30 p.m.	Commencement	
5.30p.m-5.35p.m	Setting the Agenda- Vision for the Conclave on its tenth edition	Mr. Deb A Mukherjee, Chairperson, Energy and Environment Committee, The Bengal Chamber
Visionary Addresses by Thought Leaders		
5.35 p.m- 5.50p.m	Energy transformation on the sustainability landscape	Mr. P S Bhattacharyya, Former Chairman, Coal India Limited
5.50 p.m- 6.05p.m	Global Success Story of Energy Efficiency Made in India	Mr. Saurabh Kumar, Managing Director, Energy Efficiency Services Limited (EESL)
6.05 p.m- 6.15p.m	Following COP 21: Current Realities from Indian and Global Perspectives	Dr. Ajay Mathur, Director General, The Energy and Resources Institute
6.15 p.m- 6.25p.m	Prospects and Challenges of Renewables in the transformational journey of Sustainable Energy	His Excellency Shri Upendra Tripathy, Director General, The International Solar Alliance (ISA)
6.25p.m- 6.40p.m	Regulator's Role in transformational face of energy	Shri Gireesh B Pradhan, Chairperson, Central Electricity Regulatory Commission
6.40p.m- 6.50p.m	Energy Future : Politics and Policy	Mr. Franzjosef Schafhausen, Member and Chairman of the Trustees of the "Institute of Energy Economics of the University of Cologne – ewj; Managing Director, "E.U.K - Consulting", Neuss; Former Director General Department of Climate Change Policy, European and International Policy Federal Ministry: Environment, Nature Conservation, Building & Nuclear Safety (BMUB)
6.50p.m- 7.05p.m	'Sustainable Energy: A Transformational Journey': Highlights of a joint collaboration between academia and industry by Dr. Mohsen Assadi, Professor, Faculty of Science and Technology, University of Stavanger and Dr. Sudipta De, Professor, Department of Mechanical Engineering, Jadavpur University and Key Resource Member, Energy and Environment Committee, The Bengal Chamber	
7.05 p.m. – 7.20 p.m.	Energy Security- The ITC Approach	Mr. Sanjib Bezbaroa, Executive Vice President Corporate, EHS, ITC Limited
7.20 p.m. – 7.30 p.m.	Industry Story on Sustainability	Mr. Anirban Ghosh, Chief Sustainability Officer, Mahindra Group
7.30 p.m. – 7.35 p.m.	Vote of Thanks: Mr. Arun Kumar Mukherjee, Chairperson Emeritus, Energy and Environment Committee, The Bengal Chamber	
24 <sup>th</sup> August 2017		



**23rd and 24th**  
August 2017

**10th Edition of Environment  
and Energy Conclave**

ITC Sonar, Kolkata

9.30 a.m. – 10.30 a.m.	Registration and Tea/Coffee	
<b>10.30 a.m. – 12.30 p.m.</b>	<b>Inaugural Session (The Future of Energy Applications in India)</b>	
10.30a.m -10.35 a.m.	Welcome Address	Mr. Deb A Mukherjee, Chairperson, Energy and Environment Committee, The Bengal Chamber
10.35a.m – 10.50 a.m.	Policy, Business Models, Investments for Energy Transformation	Dr. Ajay Mathur, Director General, The Energy and Resources Institute
10.50 a.m. – 11.05 a.m.	Role of International Solar Alliance in Solar Transformation	His Excellency Shri Upendra Tripathy, Director General, The International Solar Alliance (ISA)
11.05a.m. – 11.20 a.m.	Sustainable Energy: Global Perspectives	Mr. Franzjosef Schafhausen, Member and Chairman of the Trustees of the "Institute of Energy Economics of the University of Cologne – ewi; Managing Director, "E.U.K - Consulting", Neuss; Former Director General Department of Climate Change Policy, European and International Policy Federal Ministry: Environment, Nature Conservation, Building & Nuclear Safety (BMUB)
11.20 a.m. – 11.35 a.m.	Emerging Energy Hub: Opportunities for collaborations	His Excellency Archil Dzuliashvili, Ambassador of Georgia to the Republic of India, the Kingdom of Thailand, the Federal Democratic Republic of Nepal, the Democratic Socialist Republic of Sri Lanka, and the People's Republic of Bangladesh
11.35 a.m. – 11.50 a.m.	UK-India Partnership on Clean Energy	His Excellency Sir Dominic Asquith KCMG, High Commissioner of the United Kingdom in India
11.50 a.m. – 12.05 p.m.	Conclave Address	Mr. Sutanu Ghosh, President, The Bengal Chamber
12.05 p.m. – 12.20 p.m.	Inaugural Address	Shri Sovandeb Chattopadhyay, Hon'ble Minister-in-Charge, Power & Non-Conventional Energy Sources, Government of West Bengal
12.20 p.m. – 12.25 p.m.	Signing of the MoU – The Energy and Resources Institute and Cenergist Limited UK	
12.25 p.m. – 12.30 p.m.	Vote of Thanks	Mr. Arun Kumar Mukherjee, Chairperson Emeritus, Energy and Environment Committee, The Bengal Chamber
12.30 p.m. – 12.35 p.m.	Changeover	

*The Sessions following the Inaugural Session will focus on the theme, "A convergence towards sustainability". Profound changes are beginning to transform the way we supply, transform, deliver and use energy services – a trend that a revitalized global energy dialogue can reinforce, leading to a sustainable future for all with multiple co-benefits for development, human health, environment and climate change.*

*Governments, businesses and civil society together with the United Nations have started to mobilize efforts to achieve the Sustainable Development Agenda by 2030. The Paris Agreement came into being in November 2016. More than 150 governments have put forward their proposed contributions, a testament to a strong collective sense of purpose. The energy system is currently facing a number of challenges, most notably high consumption levels, lack of energy access, environmental concerns like climate change and air pollution, energy security concerns and the need for a long-term focus. Addressing these critical issues simultaneously will require a fundamental transformation of the*



*global energy system. The momentum of change to accelerate the energy transformation continues but raises important questions about the policy, technology and financial challenges ahead. The transformation is dramatically changing the energy landscape, thereby changing energy business and its market. At the same time, businesses are facing increasing expectations for transparency and action on sustainability.*

*We understand today that the issues we face with energy and the environment are complex and include much more than emission reduction and the shift from fossils to renewables. The convergence that we seek to address in the technical sessions cover:*

- Value Chain Convergence- Generator, Consumer and Trader.
- Convergence of Transmission, Large Scale Storage and Grid Management.
- Forms of Energy Convergence- Mix of Electricity and Gas.
- Mobility as a Point of Convergence.

**12.35 p.m. – 1.35 p.m.**

**Session 1: Changing character of Grid due to renewables integration, distributed generation and storage**

Focus:

- Likely Changes in the way the transmission, scheduling, load dispatch are planned and operated
  - Strengthening of grid to ensure reliability and energy security
  - Scheduling and operating the grid with more renewable power which has very low / insignificant variable cost but maybe intermittent in nature
  - Use of high-end technology (smart→ smarter) to manage grid
  - Microgrids
  - Changing business model with introduction of grid level storages
- Operations of Distribution Business
  - Lesser focus on centralized generation being taken to the point of consumption and increasing focus on small sized distributed generation close to the point of consumption
  - Technology enabled changes beyond the metering point – change in the overall demand pattern
- Demand Response / Virtual Power Plants (VPP) / Low cost Distributed Generation
- Energy efficiency tools – individually or collectively
- Innovations in Storage – Transforming Energy Business

Power Panel

Chairperson: Mr. Alope Mookherjea, Past President, The Bengal Chamber of Commerce and Industry

Mr. Anand Kumar Bansal, CEO, India Uniper Power Services Pvt. Ltd.

Mr. Rajiv Malhotra, ED&CRO, PTC India Ltd.

Mr Alekhya Datta, Fellow, Electricity and Fuels Division ,The Energy and Resources Institute

Dr. Mohsen Assadi, Professor, Faculty of Science and Technology, University of Stavanger

**1.35 p.m. – 2.35p.m.**

**Lunch**

**2.35 p.m. – 3.35 p.m.**

**Session 2: Disruptions for innovations in Energy**

Innovations and disruptions in the energy paradigm which are expected to be the game changer for the future will be discussed. Just as the shale gas and oil revolution burst onto the scene in the new millennium, reshaping the global energy landscape, distributed generation is approaching critical mass. As more and more industrial, commercial, and even residential consumers install their own generation—be it roof-mounted solar panels, gas-fired combined heat and power (CHP) plants, or even conventional diesel backup generators—they get the



**23rd and 24th**  
August 2017

**10th Edition of Environment  
and Energy Conclave**  
ITC Sonar, Kolkata

	<p>opportunity to sell power into the grid. This has originated the new concept of 'Prosumers', an increasingly important actor on India's urban scene who could help the country reach its ambitious goal of 40 GW of rooftop solar power capacity by 2022. For major cities in developing countries, the prosumer could be an essential ingredient in meeting the growing need for electricity.</p> <p>Similarly, the disruption in the fuel economy with electric vehicles or the new-age solar roof tiles powering homes and new storage technologies are all transforming energy businesses and indeed the way of life. More than ever, digital technology has increasingly been making its way into the power generation, transmission, and distribution sector.</p>	
	Chairperson: Mr. S. Radhakrishnan, Past President, The Bengal Chamber	
	Distributed Clean Energy Solutions	Mr. Aditya Sharma, Senior Vice President Asia, Boson Energy SA
	Digital Infrastructure, IoT and energy management	Mr. Mitesh Dhanak, Managing Director, Cenergist Limited UK
	Emerging Sustainability Drivers for the evolving Indian Renewables' Industry	Mr. Debanjan Bandyopadhyay, Partner and Lead – ERM's operations in Kolkata, ERM
	Electric mobility	Mr. Anirban Ghosh, Chief Sustainability Officer, Mahindra Group
<b>3.35p.m- 3.40p.m</b>	<b>Changeover</b>	
<b>3.40 p.m-4.20p.m</b>	<b>Presentations by UK Delegates</b>	Moderator: Ms. Shahida Khan, Deputy Head of Mission, British Deputy High Commission, Kolkata
	Climate Change--Role of Energy efficiency and Renewable Energy in West Bengal	Meghraj Capital Advisors Private Limited
	Climate Risk Management in Power Sector in India--learnings from international practices	Acclimatise Group Ltd
	Climate Risk Management in Power Sector in India--learnings from international practices	Sensus
	Technologies in BIPV and floating solar	RINA Consulting (OST)
	Opportunities and challenges in the solar sector in India	Dexler
	UK Solar energy Perspective and access to green finance	GreenEnco Limited
	RJM--Cost effective emission reduction in India	RJM International



**23rd and 24th**  
August 2017

ITC Sonar, Kolkata



**10th Edition of Environment  
and Energy Conclave**

<b>4.20 p.m-4.25p.m</b>	<b>Changeover</b>	
<b>4.25 p.m. – 5.05 p.m.</b>	<b>Valedictory Session: "Green Above. Green Below- Synergy in the Approach to Sustainability"</b>	Dr. Sunita Narain, Director General, Centre for Science and Environment (CSE), & Director, Society for Environmental Communications; & Publisher, Down To Earth  Moderated by Mr. Arun Kumar Mukherjee, Chairperson Emeritus, Energy and Environment Committee, The Bengal Chamber

**Special Features:**

**B2B Pavilion for B2B Meetings with the overseas delegates will be held in the sideline**

**UK is the Partner Country**

**Participating countries: UK, Italy, Germany, Norway and others**