



The Transforming Face of Energy

– A Convergence towards Sustainability

23rd and 24th
August 2017

ITC Sonar, Kolkata



10th Edition of Environment
and Energy Conclave



The world of energy and indeed that of human progress is passing through tumultuous times. Specifically, the imminent, clear and present danger of Climate Change is being felt by one and all. The paradox of high GHG emissions co-habiting with development goals and the debate between the cost of renewables vis-a-vis operations of conventional fossil fuel based power generation is felt by all economies. The move towards straddling the need for high funding with efficient and cost effective technology applications is confronting every country which is part of the Paris Treaty.



In this context since 2008, The Bengal Chamber of Commerce and Industry, India's oldest institution of its kind at 184 years, has been providing a relevant and sustainable forum towards promoting clean technology access and energy and environment management. A continuous endeavor has been to focus on sustainable development and to disseminate information and educate business, industry and society about the need for balancing industrial growth with ecological stability. The annual Environment and Energy Conclave, an international forum for Climate Change mitigation and business response, is held every August and is the preferred forum for discussing energy, environmental and climate challenges and mitigation actions.



the key factors

On 23rd and 24th August 2017, The Chamber is organizing the 10th Edition of this Conclave, with the theme,

'The Transforming Face of Energy – A Convergence towards Sustainability'

The focus is on Convergence of technology applications towards the common goal of facilitating sustainability. The Conclave will focus on the critical aspect of the changing scenario in energy management. The following four pillars of technology applications in energy, which are pivotal to the concept of convergence, would be addressed in depth.



Changing character of Grid due to renewables integration, distributed generation, and storage.



Prosumer level convergence.



Digital infrastructure, IoT and energy management.

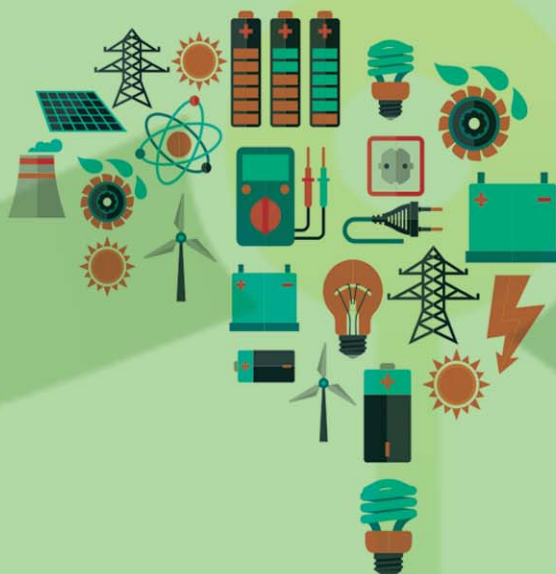


Electric mobility.

The Transformation towards Sustainability theme goes beyond assessing and implementing current responses to global change and meeting gaps in development needs. It will consider the more **fundamental and innovative long-term transformations that are needed to move towards a sustainable future**. Energy is at the forefront of the global agenda. It is central to the issues of development, global security, environmental protection and achieving the SDGs.

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. Important developments and political change have created a dynamic environment.** 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.



Finding sustainable solutions to supply future generations with energy, water, food and a peaceful environment is a key concern. 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.

Integrated assessments and conducive concepts are needed that include all aspects of sustainability as well as society.

The energy industry trends are predicted to be:


-  **Distributed Generation** : 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 opportunity to sell power into the grid. This has originated the new concept of ‘Prosumers’.
-  **Fuel Mix Trajectories** : Natural gas and renewable energy show prospects with coal consumption for power generation.
-  **Renewables** : Conventional and New Renewables are reshaping the energy landscape.
-  **Digital** : Digital technology has increasingly been making its way into the power generation, transmission, and distribution sector.








The Conclave will bring together thought leaders, policy makers, industry captains to discuss the facets of the transformation – both from global perspective and in context of India, with a focus on business applications and newer opportunities in transformational journey.

The Conclave will address :

-  Value Chain Convergence- Generator, Consumer and Trader.

-  Forms of Energy Convergence - Mix of Electricity and Gas.

-  Mobility as a Point of Convergence.

-  Convergence of Transmission, Large Scale Storage and Grid Management.

Innovations and Disruptions in energy paradigm which are expected to be the game changer for the future will also be discussed.

The photographs, presentations shared by speakers, YouTube links of videos of the earlier editions are available in our website <http://www.bengalchamber.com/environment-and-energy-conclave.html>

The tenth edition would be organized on a canvas even larger than the previous years and would be presented on a scale befitting the dimensions of a forum of such significance.