



ENERGY MEET 2022

**SUPPORTED BY
DEPARTMENT OF POWER, GOVT. OF
WEST BENGAL**

**Focus On:
Renewables – The changing Energy Dynamics
Coal & Power Generation for Sustainability
Power Distribution Reforms**

**21st January 2022 | 1030 am
Kolkata, West Bengal**

The Global picture

Global Energy demand is set to increase growing forward, as there have existed a strong relation between economic development and energy consumption. A clean energy revolution is taking place world over as there is steady expansion of the renewable energy sector. World leaders are working together towards development of varied energy resources such as solar, wind, water, geothermal, bioenergy etc.

India too has witnessed increased growth of the sector supported by energy sector reforms, enhanced capacity, and improvements in infrastructure. Demand for renewables grew by 3% in 2020 and is set to increase across all key sectors – power, heating, industry and transport – in 2021. The power sector leads the way, with its demand for renewables on course to expand by more than 8%, to reach 8 300 TWh, the largest year-on-year growth on record in absolute terms. Solar PV and wind are expected to contribute two-thirds of renewables' growth. The share of renewables in electricity generation is projected to increase. Wind is on track to record the largest increase in renewable generation, globally.

The clean energy industry is generator of hundreds of billions in economic activity and is expected to continue to grow rapidly in the coming years. There is tremendous economic opportunity for the countries that invent, manufacture and export clean energy technologies.

India Energy Scenario

India is a major force in the global energy economy. Energy consumption has more than doubled since 2000, propelled upwards by a growing population – soon to be the world's Largest.

Over 80% of India's energy needs are met by three fuels: coal, oil, and solid biomass. Coal has underpinned the expansion of electricity generation and industry and remains the largest single fuel in the energy mix. Natural gas and modern renewable sources of energy have started to gain ground and were least affected by the effects of the Covid-19 pandemic in 2020. The rise of solar PV has been spectacular, the resource potential is huge, ambitions are high, and policy support and technology cost reductions have quickly made it the cheapest option for new power generation.

India's climate action pledges at COP26 are significant. The near-term target for 50% of power capacity from clean energy is commendable. India has committed to a phase down of coal-fired power plants. This is a big commitment from a developing country with huge ambitions for economic growth and to meet other social objectives such as energy security and job opportunities.

West Bengal

State is among the leading state supporting generation and distribution sector with investor friendly policies. The state offers 24x7 power supply and ranks among the best in terms of power infrastructure. State is committed to harness clean energy and State's New and Renewable Energy Sources are closely linked with Energy Efficiency, Energy Conservation and Climate Change issues. State is committed to take steps towards building infrastructure, adoption of technology towards ensuring clean thermal power generation.

West Bengal Green Energy Development Corporation Limited (WBGEDCL) was established, to promote different grid connected renewable energy based power projects through PPP mode and also to ensure investment of private sector in Renewable Energy. Keeping its commitment towards climate, state power department has developed EV policy 2021

The Energy Summit Discussions

Energy is a fundamental input to economic activity; however, a major transformation is required in the way we produce, deliver and consume energy. The current energy system is largely dependent on fossil fuels, which negatively impact air quality, and contribute significantly to carbon emissions. There are commitments from world leaders towards clean energy, however action is needed on the ground. The pace at which the sector is changing, the challenges in production and delivery, the growing policy and government commitments, increased industry and citizen connect calls for a networking of all stake holders and we wish to discuss:

- **Power Distribution Reforms:** The next round of power distribution, coal supply and thermal power generation reforms should be high on the agenda of the government. We expect a larger impetus in electricity distribution reforms, spread of more last mile connections and adoption of smart metering which will further help utilities in achieving better financial health.
- **Coal & Power Generation for Sustainability:** A range of alternative scenarios, including the need for 'more energy', 'less carbon' and the possible impact of an escalation in trade disputes.
- **Clean Energy Revolution for Global Security:** the world needs a clean energy revolution in order to break dependence on fossil fuels. Such a revolution would enhance global energy security, promote enduring economic growth, and tackle environmental challenges such as climate change. It would break the long-standing link between economic growth and carbon dioxide (CO₂) emissions.

Join us as we take views of experts from Coal Sector to Renewable Sector to create a roadmap for the sector and industry members in the region.

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