

ORGANISED BY



afey

International Exhibition & Conference on
Alternate Future Energies, Equipment & Vehicles

Mon. 6th - Thu. 9th November 2023

EcoPark, Rajarhat, Kolkata, India

www.alternateenergyexpo.com

Alternate Energy Sources - A Need for Sustainable Future

Solar 

Hydrogen 

Wind 

Vehicles 

Bioenergy 

Geothermal 

Hydroelectric 

Equipment 

Nuclear 

Wave/Tidal 

New Sources 

Batteries 

INDUSTRY ASSOCIATION PARTNERS





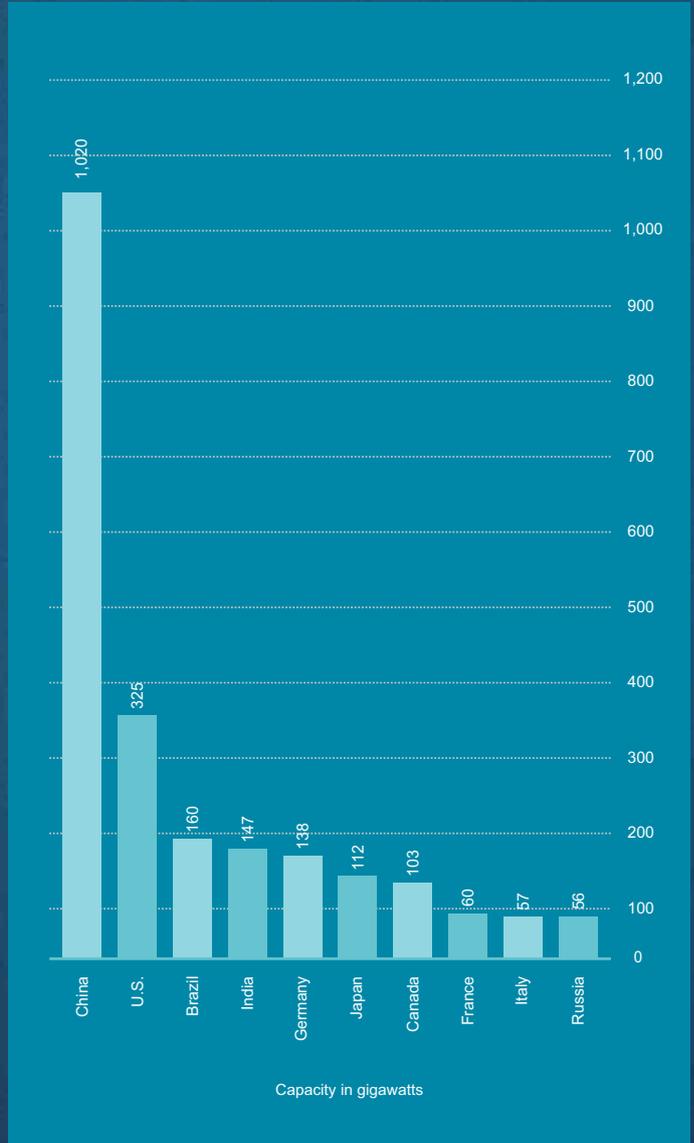
What is Alternate Energy ?

Fossil fuels (Oil, Coal, and Natural Gas) are our most traditional source for power generation. Therefore, the energy that's produced from any source other than fossil fuels is Alternate Energy. In other words, Alternate Energy is any amount of energy derived from Non-Fossil Fuel sources. Using Alternate Energy has a low environmental impact.

Industry Scenario - India

- A transition to clean energy is a huge economic opportunity and India is reaching the top five countries of the world in terms of alternate and renewable energy sources.
- The primary objective for exploring alternate energy in India is to advance economic development, improve energy security, improve access to energy, and mitigate climate change.
- India has achieved the target of 40% of its installed electricity capacity from non-fossil energy sources in November 2021. The country's installed Renewable Energy (RE) capacity in November 2021 stands at 150.05 GW while its nuclear energy based installed electricity capacity stands at 6.78 GW.
- Government of India had set a target of 1,75,000 MW installed capacity from renewable sources by the year 2022 which includes 1,00,000 MW from Solar, 60,000 MW from Wind, 10,000 MW from Biomass and 5000 MW from Small Hydro.
- The electric vehicle industry in India is picking pace with 100% FDI possible, new manufacturing hubs, and increased push to improving charging infrastructure.
- India launched the Mission Innovation CleanTech Exchange, a global initiative that will help accelerate clean energy innovation.

India Increasing Alternate Energy Capacity



INSTALLED RENEWABLE ENERGY CAPACITY
147 GW

RENEWABLE ENERGY PRODUCTION
198bn kWh

RENEWABLE ENERGY CONSUMPTION
1.79 Ej

Growth Drivers

- Ministry of Power has undertaken 9 High Impact Power projects (10 no. of transmission lines) spanning over 6 RE rich States under PM Gati Shakti National Master Plan.
- Federal subsidies and policy favoring deeper discounts for Indian-made electric two-wheelers as well as a boost for localized ACC battery storage production are other growth drivers for the Indian EV industry.
- Hydropower projects including Renukaji Dam project, Luhri Stage 1 Hydro Power Project, Dhaulasidh Hydro Power Project and Sawra-Kuddu Hydro Power Project are worth over INR 11,000 crore.
- As on 30.11.2021, 52 solar parks have been sanctioned with a cumulative capacity of 37.92 GW in 14 states
- Union Minister of Power and MNRE has approved new 23 Inter State Transmission System Projects (ISTS) with an estimated cost of INR 15,893 crore.
- Letter of Intent between India & Australia on New & Renewable Energy Technology was signed to pave the way for reducing the cost of new & renewable energy technologies and scaling up deployment in order to accelerate global emissions reduction.
- India offers a great opportunity for investments in RE sector; USD 196.98 bn worth of projects underway in India.

Reasons to Invest in India

- Economic growth, increasing prosperity, a growing rate of urbanization and rising per capita energy consumption is contributing to increasing demand for energy in India.
- India is implementing the largest Renewable Energy (RE) expansion program in the world envisaging a 5-fold increase in the overall RE capacity in the country from 32 GW in 2014 to 175 GW by 2022, and further to 500 GW of renewable power in the country by 2030.
- The National Solar Mission was launched in 2010. The objective of the mission is to establish India as a global leader in solar energy. The target of the National Solar Mission has been up-scaled to 100 GW from 20 GW of grid-connected solar power by 2022.
- India has a wind potential of more than 300 GW (at hub height 100 meters), the solar potential of ~750 GW, assuming 3% wasteland is made available, Small Hydro potential of ~ 20 GW, and Bio-energy potential of 25 GW.
- Emission reduction of 28% over 2005 levels, against the target of 35% by 2030 already achieved by India.
- Revised Guidelines of Ministry of Power and New & Renewable Energy will enable the replacement of fossil fuel based energy by renewable energy under the existing PPAs. As the cost of renewable energy is less than the cost of Thermal energy, the gains from the bundling of renewable energy with thermal will be shared between the generator and Distribution companies/other procurers on a 50:50 basis.
- Ministry of Power and New & Renewable Energy have issued revised guidelines providing for thermal generation companies to set up renewable energy generation capacity either by themselves through developers by open bids and supplying it to the consumers under the existing PPAs.
- Ministry of New and Renewable Energy (MNRE) issues an issuance of a Concessional Custom Duty Certificate (CCDCs) for setting up projects for the generation of Compressed biogas using Urban and Industrial Waste of Renewable Nature.

National Mission on Transformative Mobility and Storage:

The aim of the mission is to drive strategies for transformative mobility and Phased Manufacturing Programmes for electric vehicles, electric vehicle Components and Batteries. Following are the key roles and roadmap envisaged under the mission:

Role:

- Drive strategies for transformative mobility and Phased Manufacturing Programmes for electric vehicles, electric vehicle Components and Batteries.
- Creating a Phased Manufacturing Program (PMP) to localize production across the entire electric vehicle value chain.
- Details of localization will be finalized by the Mission with a clear Make in India strategy for the electric vehicle components as well as battery.
- The Mission will coordinate with key stakeholders in Ministries/ Departments/states to integrate various initiatives to transform mobility in India.

Roadmap:

- Phased battery manufacturing roadmap with initial focus on large-scale module and pack assembly plants and Gigascale integrated cell manufacturing.
- Ensuring holistic and comprehensive growth of the battery manufacturing industry in India through PMP.
- Preparing roadmap for enabling India to leverage its size and scale to produce innovative, competitive multi-modal mobility solutions that can be deployed globally in diverse contexts.
- Roadmap for transformative mobility in "New India" by introducing a sustainable mobility ecosystem and fostering Make-in-India.

Foreign Direct Investments (FDI)

- India is 3rd most attractive for Renewable Energy investments and deployments.
- FDI up to 100% is permitted in this sector under the Automatic route and no prior Government approval is required.
- The cumulative FDI equity inflow in the Railway related components industry is USD 11,623.65 mn during the period April 2000 to March 2022. This constitutes almost 2.1% of the total FDI inflow received across sectors.
- In the Union Budget 2022-23, the government allocated Rs. 19,500 crore (US\$ 2.57 billion) for a PLI scheme to boost manufacturing of high-efficiency solar modules.
- Rising foreign investment in the renewable sector (such as the US\$ 75 billion investment from the UAE) is expected to promote further investments in the country.
- India aims to become a net-zero economy by 2070 and has set a target of installing non-fossil energy capacity of 500 GW by 2030.
- The transition to a low carbon energy regime has the potential to account for \$5 trillion to \$7 trillion worth of economic opportunity.



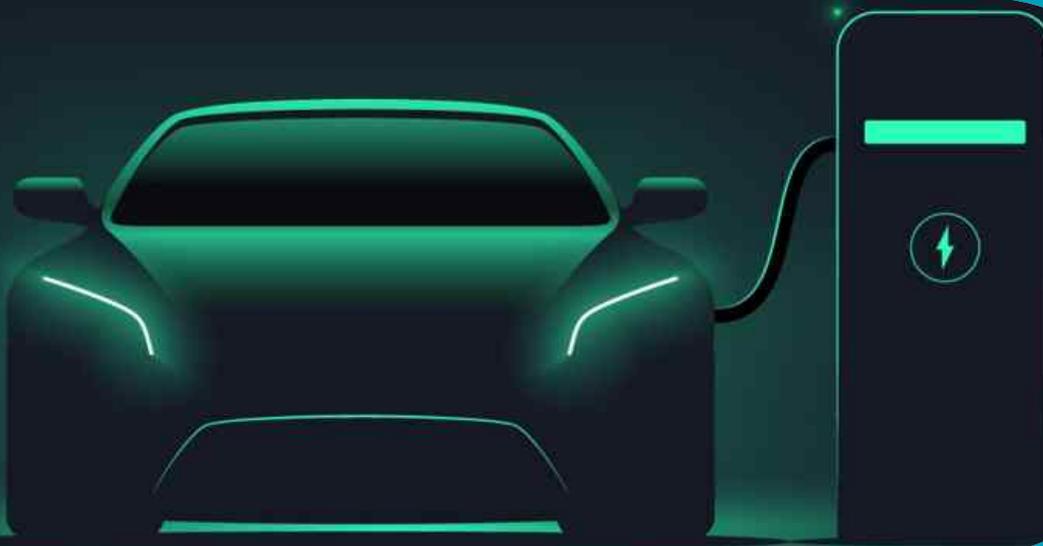
Host State's Policies

- In fiscal year 2020, around 1.48 terawatt hours of electricity were generated from renewable energy sources across West Bengal, India.
- Of the total installed power capacity, thermal power contributed 8,183.83 MW, hydropower 1,248.30 MW and 131.71 MW by other renewable power sources.
- West Bengal, has an estimated potential of generating 2,206 MW (excluding solar) of electricity from RE sources.
- The State Government is also exploring investment opportunities in the automobile sector in the manufacturing of cars, trucks, etc. and in auto parts, auto ancillaries, transmission, shock absorbers, steering, engine and engine parts.
- To improve rural electrification, under the 'Deendayal Upadhyaya Gram JyotiYojana', 18 new projects worth US\$ 707 million were sanctioned.
- West Bengal Renewable Energy Development Agency, implemented large number of programs related to solar energy, wind energy, mini & micro-hydro, bio-energy, etc.



Exhibition Overview

- AFEV 2023 - International Exhibition & Conference on Alternate Future Energies, Equipment & Electric Vehicles will be a leading exhibition for the New Energy and Electric Vehicle sector in India.
- An Ideal Platform for display and launches of new initiatives, machinery products and technologies, establishing joint ventures, developing and renewing international and regional contacts.
- International Participation of industry leaders is expected from Asia, Australia, Africa, America and Europe.
- Participation of leading Indian States and PSU's, Large Corporates and Small and Medium Organisations.
- With decrease in thermal resources, the next step is to find alternate sources of energy to meet the increasing electricity demand of the country.
- AFEV aims to create an opportunity for industries of India to share ideas/ innovations and explore new possibilities of energy generation, distribution and consumption in a greener and sustainable way.



Exhibiting Profile

- Energy Producers
- Clean Fuel Producers
- Transmission & Distribution
- Electricity Load Management
- Batteries & Generators
- Grid Solutions
- Solar Panel Manufacturers
- Photovoltaic Power Stations & Panels
- Turbine Manufacturers & Installers
- Turbine Component Manufacturers
- Electric Vehicle Manufacturers
- Charging Stations & Accessories
- Storage Technology
- R&D Institutes & Laboratories
- Automation & Instrumentation
- Design & Engineering
- Measuring, Testing and Controlling
- Energy Efficiency & Conservation
- Pollution Control Equipment & Services
- Importers & Exporters
- Smart Equipments
- Wires & Electricals
- Scientific Organisations
- Drones Manufacturers
- Chemical Manufacturers
- Health, Safety & Security
- IT Companies & Solution Providers
- Service & Maintenance
- Robotics Technologies

Contact us: energy@tafcon.in

Stall Options

- **Built-Up Stall** (in Air Conditioned Halls)

Includes: Octonorm Wall Panels, Synthetic Carpet, Fascia in English, 1 Spotlight per 3 sqm., One 5 amp socket per 12 sqm., 1 Counter, 3 Chairs, 1 Glass Top Round Table, Basic Single Phase Electricity for stand lighting and basic daily usages.

- **Bare Space** (in Air Conditioned Halls)

Electricity Load to be ordered and paid extra

- **Outdoor Open Area**

Electricity Load to be ordered and Paid Extra



Visitor Profile

- Automobile Industry
- Metro & Railways
- Central and State Governments
- Aviation & Aerospace Industry
- Defence Industry
- Electronics & Electricals
- Infrastructure & Transportation
- R&D Professionals & Academicians
- Investors & Industrialist
- Foreign Trade Commissions
- Policy Makers
- Industry Associations and Chambers
- Financial Institutions
- Trade Delegations
- Importers and Exporters

Concurrent Conference

Concurrent with the Exhibition, an International Conference will also be organised, where Eminent Speakers from India and abroad will debate, deliberate and exchange views on the key issues and opportunities of the sector for National and International progress in the areas, which will benefit global communities. (full details will be available in separate brochure).



Few of the World Class Exhibitions Organised by TAFCON



19th World Mining Expo 2003
(Concurrent to World Mining Congress)
New Delhi, India



International Mineral Processing Expo 2012
(Concurrent to XXVI International Mineral Processing Congress)
New Delhi, India



International Mining, Equipment & Minerals Exhibition
(Concurrent to Asian Mining Congress)
Kolkata, India



Defence | Transportation | Energy | Heat Treatment
International Materials, Engineering, Technology & Heat Treatment Exhibition
Mumbai, Maharashtra



International Exhibition on Minerals, Metals, Metallurgy & Materials
New Delhi, India



International Exhibition on Printing and Allied Machinery Industries
of the printers for the printers by the printers

International Exhibition on Printing and Allied Machinery Industries
Delhi and Greater Noida, NCT of Delhi



International Packaging Exhibition
(Concurrent to World Packaging Congress)
Mumbai, India



20th World's Poultry Congress & Expo 1996
New Delhi, India



International Exhibition on Pulp, Paper & Allied Industries
New Delhi, India

For more details about TAFCON
Kindly visit www.tafcon.in

Kolkata - The City of Joy

Kolkata "The City of Joy" is the capital of the Indian State of West Bengal. It is also the commercial capital of East India, located on the east bank of the Hooghly River. The 'City of Joy' earned its nickname because of its unfettered enthusiasm for its culture, traditions, literature, history, food and more. The city has something for everyone from art and literature, to sports, food, shopping, history, architecture, religion, spiritualism and even politics. Kolkata is the perfect amalgamation of old-world charm and modern Experience. Every nook and corner of this city is filled with stories that are bound to mesmerise and charm you. There is more to Kolkata than one can ever imagine. The entire city of Kolkata is covered with the various means of transport, which simply means that you will not face any issues in commuting in this city.

Exhibition Venue - EcoPark

New Town Eco Park is an urban park in Rajarhat, Kolkata. The park is situated on a 480 acres (190 ha) plot and is surrounded by a 104 acres (42 ha) waterbody with an island in the middle. The Eco park is located along the Major Arterial Road in Action Area - II of New Town, Kolkata. The park is surrounded by the Kolkata International Convention Centre and the Kolkata Museum of Modern Art on the North, the upcoming Central Business District and International Financial Hub on the east, and existing human settlement of Jatragachi/Hatiara on the South and West.



About TAFCON

TAFCON is a professionally managed company with over six decades of experience and expertise in organising International Trade Fairs and Conferences in India and overseas, on various subjects namely Mining; Minerals; Metals; Materials; Defence; Heat Treatment; Foundry; Manufacturing; Surface Engineering, Paints & Coating; Packaging; Printing; Environment; Paper; Beauty; Lifestyle; Tot Teen & Mom; Education; Medical & Healthcare; Poultry, Dairy & Food Technology; Travel & Tourism; etc.



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