

2<sup>nd</sup> Edition

A Part of MET 2024

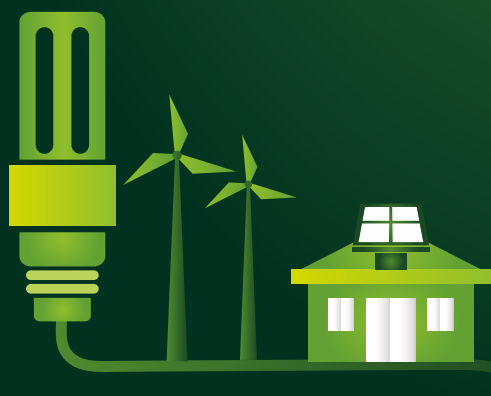
# afev

International Alternate Energy Exhibition

Wed. 4<sup>th</sup> - Fri. 6<sup>th</sup> September 2024

Bombay Exhibition Centre, Mumbai, India

ORGANISED BY



[www.alternateenergyexpo.com](http://www.alternateenergyexpo.com)

## What is Alternate Energy ?

Alternative Energy is energy that does not come from fossil fuels, and thus produces little to no greenhouse gases like carbon dioxide (Co2). Alternative Energy sources can be renewable or non-renewable and are thought to be "free" energy sources.

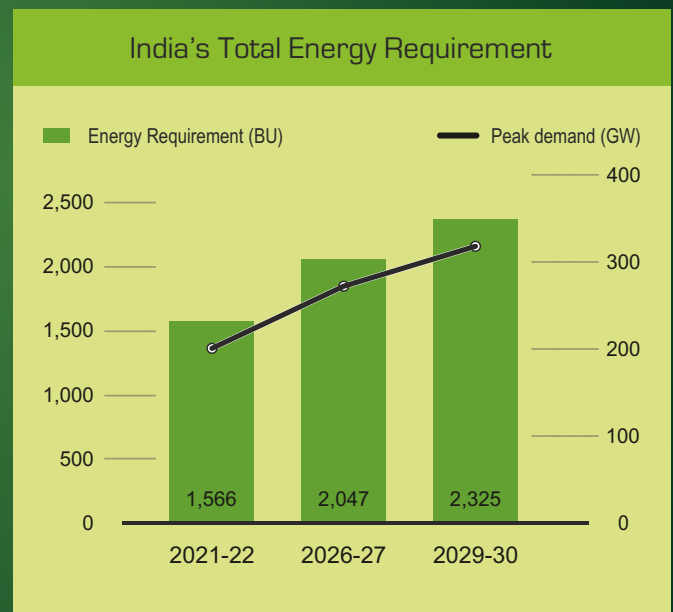
Alternate Energy sources include Solar, Wind, Hydrogen, Hydroelectric, Biomass, Geothermal, etc.

These energy sources are referred to as "ALTERNATIVE" because they represent the alternative to coal, oil, and natural gas, which have been the most common sources of energy since the Industrialisation.



## India's Transition to Net-Zero Carbon Emissions

- India having large energy consumption & considering the future requirement, creates a necessity for transition to cleaner energy for a sustainable future.
- India is a crucial player in the global clean energy transition, given its status as the third-largest energy consumer in the world as of 2022.
- India currently experiences a significant increase in energy demand driven by rapid economic growth, which necessitates a shift away from fossil fuels.
- India stands 4th globally in Renewable Energy Installed Capacity (including Large Hydro), 4th in Wind Power capacity & 4th in Solar Power capacity (as per REN21 Renewables 2022 Global Status Report). The country has set an enhanced target at the COP26 of 500 GW of non-fossil fuel-based energy by 2030. This has been a key pledge under the Panchamrit (nectar elements). This is the world's largest expansion plan in renewable energy.



## Growth Drivers

- Central Government launches High Price Day Ahead Market and Surplus Power Portal (PUSHP) to ensure greater availability of power during peak season.
- RBI has recognized IREDA as an Infrastructure Finance Company (IFC) which will allow them to access a wider investor base for fund mobilization and take higher exposure in Renewable Energy financing. This will increase the investors' confidence, enhance the brand value, and generate positive outlook in the market.
- 27,000 circuit kms. of transmission lines to be added at an investment of INR 75,000 Crores by 2024-25.
- The Union Cabinet chaired by the Prime Minister of India has given its approval to introduce the Production-Linked Incentive (PLI) Scheme in High-Efficiency Solar PV Modules for Enhancing India's Manufacturing Capabilities and Enhancing Exports – Atmanirbhar Bharat with financial Outlay of INR 4,500 Crores.
- Ministry of New & Renewable Energy, GoI notified the 'Renewable Energy Research and Technology Development Programme' for promotion of indigenous technology development for wide spread deployment of new and renewable energy, including ocean energy, in an efficient and cost-effective manner across India.
- Total of 89.45 MW capacity has been installed under Component-A and around 2.09 Lakh pumps have been reported solarized under Component-B and Component-C as on 28.02.2023 under PM-KUSUM Scheme.

## Reasons to Invest in India

- India targets 50% cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030.
- India aims to reach a non-fossil fuel energy capacity of 500 GW by 2030.
- Solar Power tariff reduced by more than 75% using plug and play model.
- India planning to have a capacity of 30,000 MW of Offshore wind and manufacture of high efficiency solar cells and modules of which India is going to set up 50,000 MW capacity.
- Indian Government aims to have a total investment of INR 8 Lakh Crores in green hydrogen, and production could be 5 MN tons by 2030. The fuel will be used to replace 25% of 'grey' hydrogen, created using natural gas or methane, within 5 years.
- India, US, China and Brazil are in consultation to form a 'Global Biofuels Alliance' to explore opportunities for cooperation and intensifying use of sustainable fuels, particularly in the transportation sector.
- Adoption of clean cooktop fuels, such as use of solar cooktops will give a boost to green and clean cooking and more than 3 Crore households will have access to such cooktops in the next 2-3 years.





## State Policies - Maharashtra

- There are 250-300 days of clear sun with an available average radiation of 4 to 6 kWh/sqm. over a day. There is a capacity to generate 1.5 million units/MW/year through solar photovoltaic systems & up to 2.5 million units/MW/year through solar thermal systems.
- Investor-friendly policies of the Government of Maharashtra and technical viability of demonstration projects have attracted private investment of more than INR 11,895 Crores in the wind sector so far.
- Maharashtra is the first State to launch Green Hydrogen Policy with an outlay of INR 8,500 Crores which provide 100% exemption from electricity duty and many other fiscal benefits.
- To enhance attractiveness of investment in this sector the Ministry of Finance is extending exemption on excise duty & levying concessional custom duty over equipment and machinery purchased by the investors for developing a new cogeneration power projects.
- For waste-to-energy reimbursement towards expenses incurred on evacuation arrangement maximum upto INR 1 Crore/project after commissioning the project. Electricity Duty – exempted for captive consumption upto 10 years from date of commissioning.
- A number of policies promoting power generation from alternate energy sources like solar, wind, bioenergy, hydro etc. are also in place.

## Event Overview

- AFEV 2024 – Alternate Energy Exhibition focuses on global energy sector moving towards alternate ways of energy generation for a greener & sustainable future.
- 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 & 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.
- Innovation / Start-ups, SMEs, R&D Institutes, Academia, etc. will showcase their global developments.



## Exhibiting Profile

- Alternate 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
- Storage Technology
- R&D Institutes & Laboratories
- Automation & Instrumentation
- Design & Engineering
- Measuring, Testing and Controlling
- Energy Efficiency & Conservation
- Pollution Control Equipment & Services
- Importers & Exporters
- Smart Equipment
- Wires & Electricals
- Scientific Organisations
- Drones Manufacturers
- Chemical Manufacturers
- Health, Safety & Security
- IT Companies & Solution Providers
- Service & Maintenance
- Robotics Technologies



## Participating Options

- **Built-Up Stall (inside AC Exhibition Hall)**  
Includes: Wall Panels, Carpet, Fascia in English, 1 Spotlight per 3 sqm., One 5 amp socket per 12 sqm., 1 Counter, 3 Chairs, Basic Electricity consumption, Cleaning of the Stalls.
- **Bare Space (inside AC Exhibition Hall)**  
Exhibitors can adopt design of their choice with approval of the organiser.
- **Sponsorship**  
Choose from Various Sponsorship Packages (inclusive of exhibition space). Contact for Sponsorship and Branding Catalogue.

**Contact us:** [energy@tafcon.in](mailto:energy@tafcon.in)

## Visitor Profile

- Energy Producers
- Defence Industry
- Metro / Railways Industry
- Central and State Governments
- Electronics & Electricals
- Infrastructure & Transportation
- Automobile Industry
- Electronic Industries
- Oil and Gas – Marine & Offshore
- Central and State Government Senior Officials
- Policy Makers and Entrepreneurs
- R&D Professionals & Academicians
- Investors & Industrialist
- Foreign Trade Commissions
- Policy Makers
- Industry Associations and Chambers
- Financial Institutions
- Trade Delegations
- Importers and Exporter

Co-Located with

**JSW**  
Presents  
5th Edition **MET & HTS** 15th Edition

Material Engineering, Equipment, Technology Exhibition on  
Defence, Transport, Alternate Energy & Heat Treatment

September 4-6, 2024 | Bombay Exhibition Centre, Mumbai

# Few Glimpses of Last Edition



## Few of the World Class Exhibitions Organised by TAFCON



19<sup>th</sup> 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

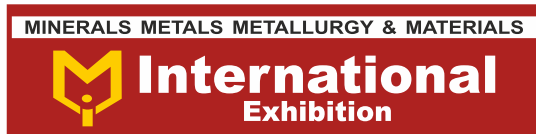


International Mining, Equipment & Minerals Exhibition  
(Concurrent to Asian Mining Congress)  
Kolkata, India

# MET & HTS

**Defence | Transport | Alternate Energy | Heat Treatment**

International Exhibitions and Conferences on  
• Materials Engineering • Equipment • Technology • Heat Treatment



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



20<sup>th</sup> 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](http://www.tafcon.in)

## Venue - Bombay Exhibition Centre (BEC)

BEC is one of the Largest Exhibition Centre in Western India. After decades of hosting prestigious International Trade Fairs and Exhibitions, BEC is still among the most well facilitated and convenient venues in the country. It is ideally situated along the Western Express Highway in Goregaon, within 10 minutes from Airport, walking distance to Train Stations and a 20 minute drive from the Heart of the City. There are numerous Hotels, Entertainment activities, Shopping & Sightseeing Spots in close proximity.

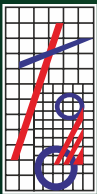
BEC consists of 5 Large Exhibition and many Conference Halls spread across over 60,000 square meters of Centrally Air-Conditioned space for conducting Exhibitions & Conferences. It is one of the best well designed and busiest Exhibition Centre across the Country. The Halls are Wi-Fi enabled, have ample height, good lighting, well-designed ventilation and strong flooring to withstand even the heavy machinery.



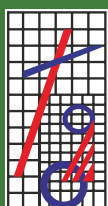
## Organised By



ASM INTERNATIONAL (INDIA CHAPTER) - Established in the year 1979, is one of the most active chapters in the world. It organizes technical courses on subjects like Heat Treatment, Welding, Metallurgy for the Non-metallurgist, Metal Forming, Stainless Steels, Non-ferrous Metals, Thermal Spraying, etc. under the Continued Education Programme for engineers and technocrats. Other activities include Conferences, Workshops and Exhibitions on recent developments in Materials Processing, Materials Application Engineering, Heat Treatment, Equipment, etc. at National and International levels.



TAFCON - A professionally managed company with over six decades of experience and expertise in organizing international Trade Fairs and conferences in India and Overseas, on various industry sectors namely Mineral & Metals, Materials Engineering Technology, Heat Treat, Defence, Railway, Energy, Construction, Environment, Oil & Gas, Mining, Poultry, Dairy & Food Technology, Packaging, Printing Machinery, Travel & Tourism, Education, Surface Engineering, Paints & Coating & allied industries etc.



For Stall Booking & Enquiries, Contact:

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