

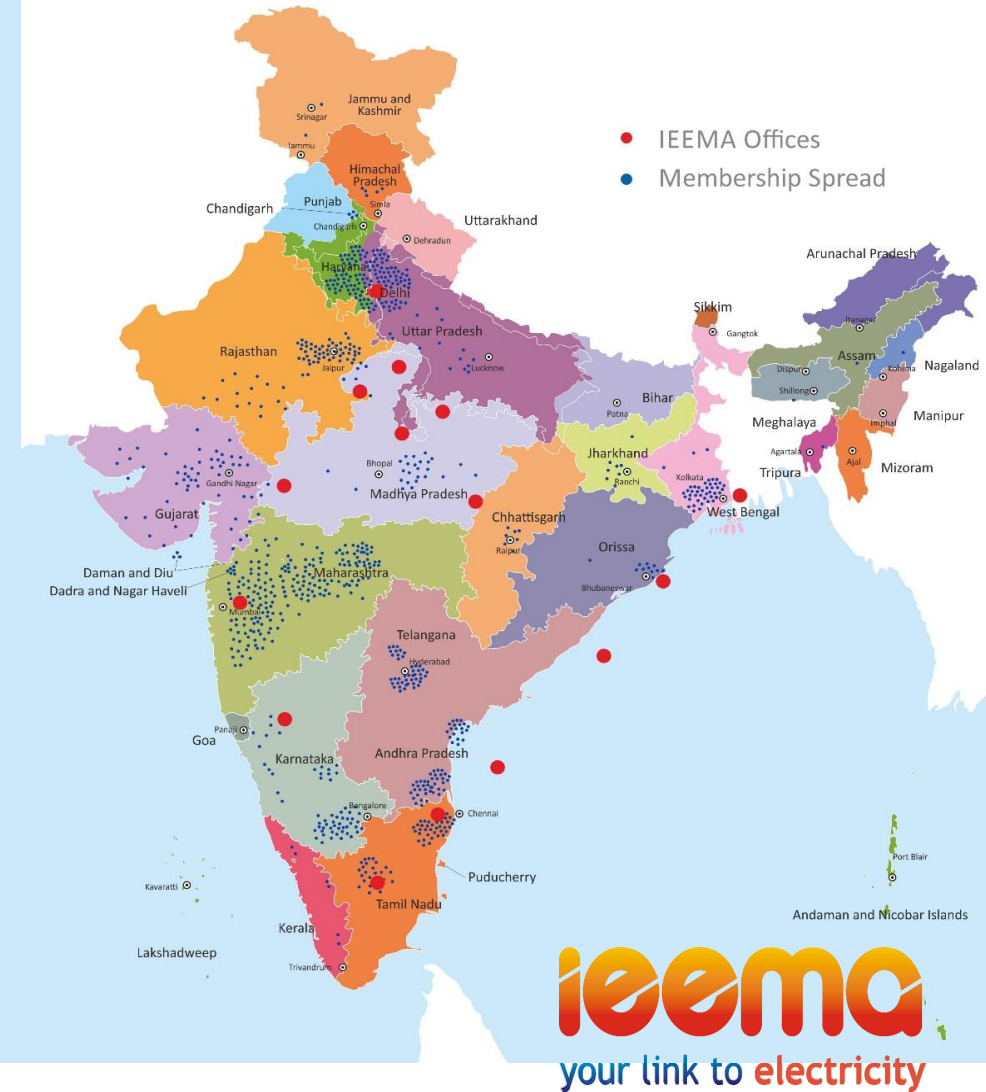


*Indian Electrical and Electronics Manufacturer's  
Association(IEEMA)*

**ieema**  
your link to electricity

# About IEEMA

- Apex association of manufacturers of electrical, industrial electronics and allied equipment in India.
- Founded in 1948, IEEMA **encompassing the complete value chain** in power generation, transmission and distribution equipment, including new and renewable energy.
- 1000 plus members from large companies, MNCs and a large number of SME's
- IEEMA members contribute to more than **95% of the power equipment** installed in India representing a collective turnover of over **USD 60 Billion**.
- An ISO-certified association, IEEMA platform for constructive interactions between Industry, buyers and policymakers
- IEEMA has a **global presence** and works on enhancing trade relations.



# Our Activities

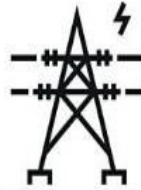


# Indian Electrical Equipment Industry

Diversified, matured and strong manufacturing base, with robust supply chain



FY 22-23 –  
Industry Size  
USD 60 Bn



Engineering Industry providing  
generation, transmission &  
distribution equipment



Presence of major foreign  
players, either directly or  
through technical  
collaborations with Indian  
manufacturers



State-of-art technology in most  
sub-sectors at par with global  
standards



Rugged performance design of  
equipment to meet tough network  
demand



Provides employment to over 2.2  
million and over 5 million across  
the entire value-chain



Serving Power Infrastructure,  
Railways, Metros, Smart cities,  
Commercial, Residential & Industrial  
Sectors

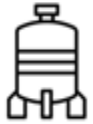
Also working in areas of EV Charging  
Infrastructure, Energy Efficiency &  
Climate Change



# Indian Power Sector



2<sup>nd</sup> largest coal producer in the world



3<sup>rd</sup> largest number of nuclear reactors being installed in the world



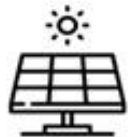
3<sup>rd</sup> largest producer and consumer of electricity in the world



4<sup>th</sup> largest installed capacity of renewable energy in the world

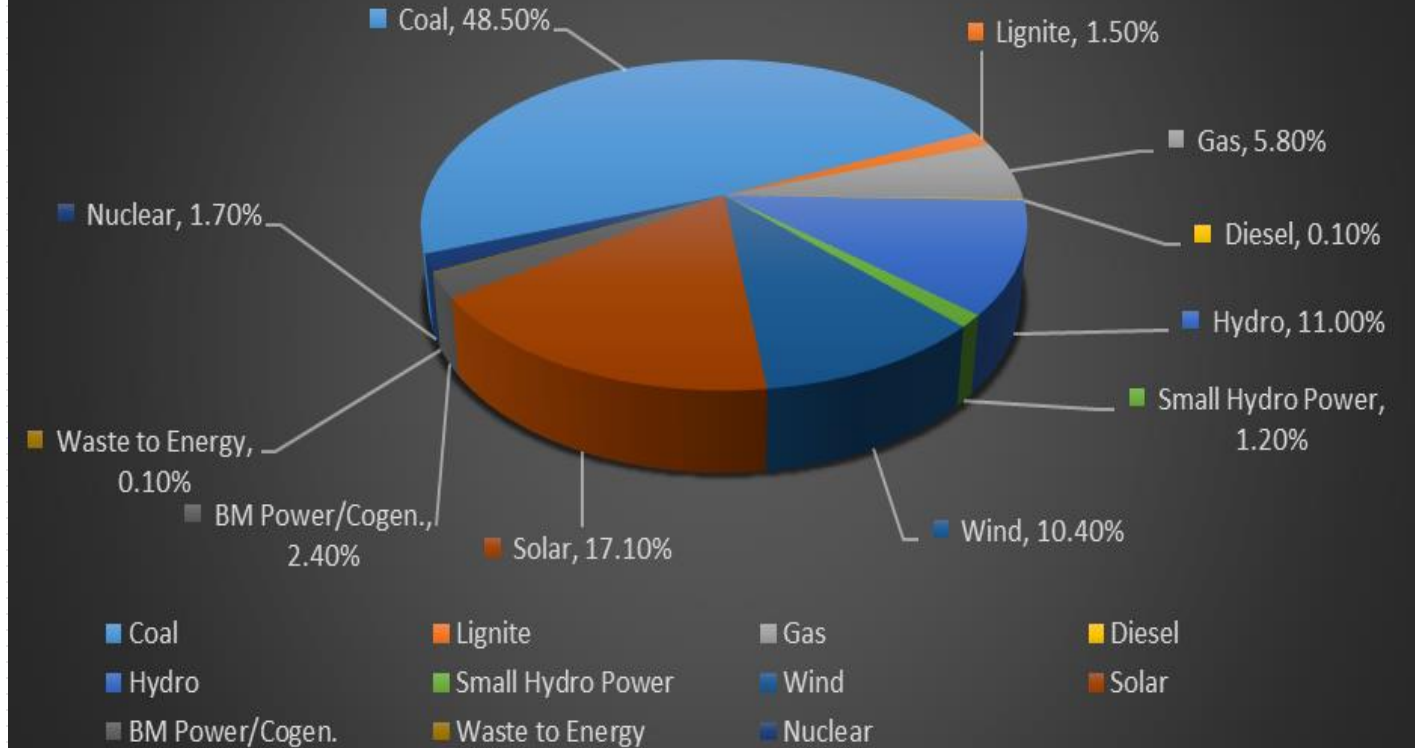


4<sup>th</sup> largest installed capacity of wind power in the world



4<sup>th</sup> largest solar installed capacity in the world

## Installed Capacity in India as on December 2023

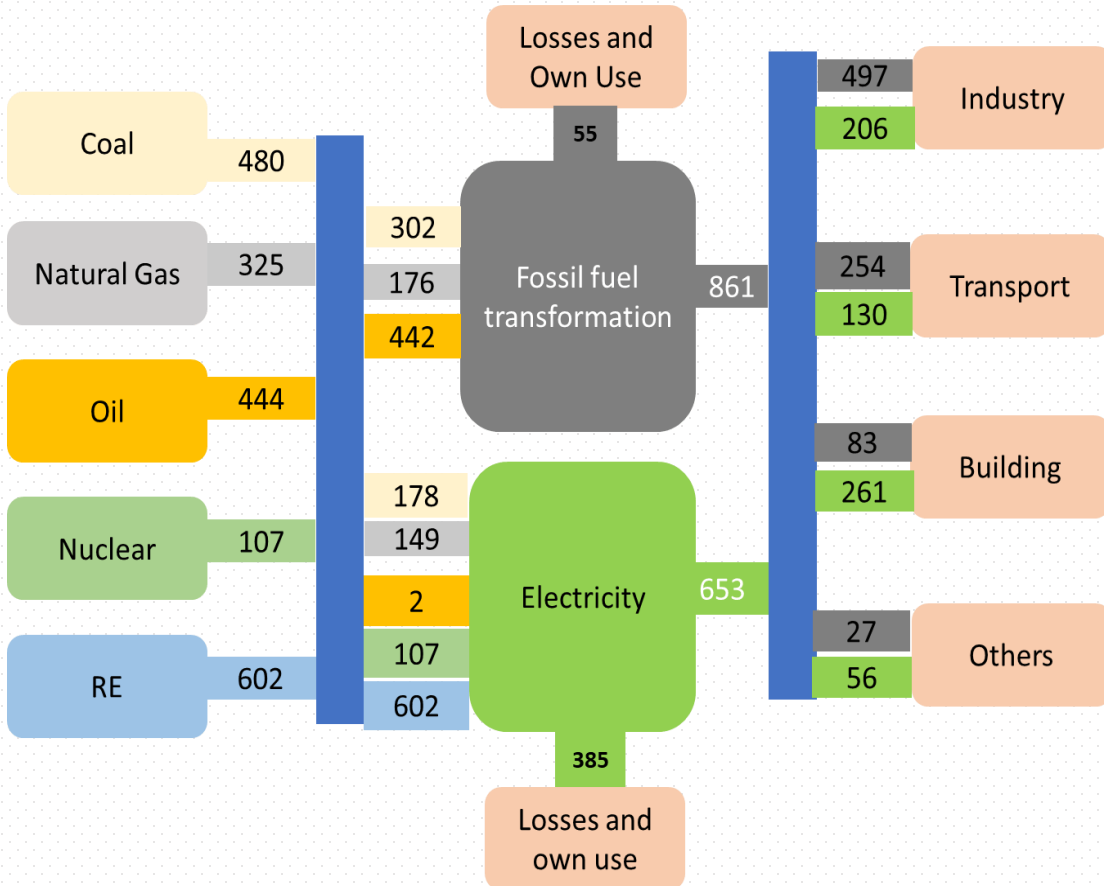


# India's Energy Transition goals

- ❖ Achieving Net Zero by 2070
- ❖ Reducing Carbon Emissions by 45 percent from 2005 levels by 2030
- ❖ To achieve 50 percent cumulative Electric Power Installed capacity from Non Fossil Fuels based energy resources by 2030
- ❖ *Key Future Technologies* – Clean Energy, Grid Integration & Storage, Pumped Hydro, Smart Grids, Green Hydrogen, Carbon Capture and Storage, Advancement in T&D(AI, IOT, Industry 5.0 etc)
- ❖ Electrical Equipment Industry set to double by 2030 from USD 60 Bn to USD 130 Bn by 2030

# Future Ready India – Energy Scenario

India Vision Energy Scenario 2047 – 1,954 MTOe



Sr No	Parameter	As Is scenario 2019	Proposed scenario 2047
1	Energy requirement (MTOe)	929	1,954
2	Electricity contribution with Net zero and Green Hydrogen goals	42%	63 - 65%
3	Electricity requirement (BU)	1,207	14500
4	Per capita electricity consumption (kwh)	1,200	10,000

Source: International Energy Authority (IEA), Central Electricity Authority, India (CEA)

- Energy requirement will increase by 2.1 times
- Electricity demand will grow more than 8x times in next 25 years
- Potential for India to take lead in Green Hydrogen, Storage value chain

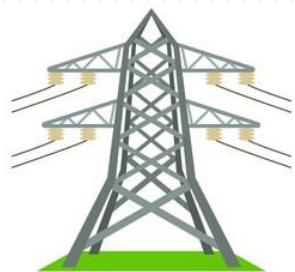
# Domestic Growth Drivers

## mix of conventional and disruptive technology driven solutions



### Power generation capacities

500 GW of renewable energy capacities to be installed by 2030



### T&D Investments

Transmission Infrastructure worth \$ 50 Billion and Distribution infrastructure worth \$ 40 billion to be created in next 3 to 5 years



### Railway electrification

21,400 Route Kilo Meters(RKM) of electrification to be completed in next two years



### e-Mobility & Electric storage

529 GWH - 207 GWH (EV) and 322 GWH (Stationary). EV Charging Infrastructure after every 25 KM and set up 60,000 charging stations



### Smart infrastructure

Smart city outlay of **1 Trillion**; Urban metro network of 1,600 RKM



### Cross sectoral demand

Defence sector demand of \$ **10 billion**

# Opportunities in India

- *Product, Solutions and Technologies to reduce India's total projected carbon emission by 1 bn tonnes by 2030, reduce the carbon intensity of the nation's economy by less than 45% by the end of the decade and achieve net-zero carbon emissions by 2070*
- *Power Distribution Modernization with an outlay of USD 41 Bn through RDSS scheme*
- *\$2.4 Bn National Hydrogen Mission for production of 5 MMT by 2030*
- *Focus on Strengthening Power Transmission Infrastructure with special focus on High Voltage Direct Current Projects*
- *Installation of battery storage capacity worth 51.5 GW by 2030 to provide "round-the-clock power to end-consumers*
- *With a cumulative investment opportunity of over \$200 billion in the next 8-10 years, India is poised to become the largest EV market by 2030*
- *Solar city per state and approved setting up 57 solar parks of 39.28 GW across the nation. The Government is also giving a push to Floating Solar Projects*

*India is World's fastest growing major economy on the back of growing demand, moderate inflation, stable interest rate regime and brings huge Opportunities for US and Indian companies in Investment and Technology-tie ups for businesses.*

# IEEMA – Your Gateway to India Energy Sector(Electricity)

- *Policy Advocacy & Information Exchange*
- *Tie-ups and Collaborations – Industry & Government*
- *Trade Partner, Industry Intelligence & Regulatory Updates*
- *Sourcing of Power/RE/Electrical Equipment:*
  1. *Solar Modules & Inverters*
  2. *Power and Distribution Transformers*
  3. *Electrical Cables, Wires & Conductors*
  4. *Switchgear and Controlgear*
  5. *Smart Meters*
  6. *Rotating Machines & Drives*
  7. *Engineering , Design Services & Support*
  8. *EV Chargers*
- *Networking Programs- Exhibition and Conference*

# IEEMA Product Divisions / Industry Committees



**CABLE**



**CAPACITOR AND  
POWER QUALITY**



**CONDUCTOR**



**DISTRIBUTION  
TRANSFORMER**



**ELEVATOR AND  
ESCALATOR**



**E-MOBILITY AND  
CHARGING  
INFRASTRUCTURE**



**ELECTRICAL  
INSULATING  
MATERIAL**



**ENERGY METER**



**INSULATORS**



**INSTRUMENT  
TRANSFORMERS**



**LV  
SWITCHGEAR**



**MV-HV  
SWITCHGEAR**



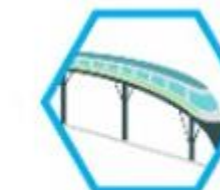
**POWER  
TRANSFORMER**



**ROTATING  
MACHINE**



**RE AND  
STORAGE**



**RAILWAY  
BUSINESS**



**SMART GRID**



**SURGE  
ARRESTOR**



**TESTING  
MEASUREMENT  
AND MONITORING  
SOLUTIONS**



**T&D  
PROJECTS**



**WINDING  
WIRES**

# IEEMA Networking and Knowledge Sharing Initiatives

**ELECTRAVERSE  
SPARK**

**ieema  
RETREAT**

**ENERGIZE  
EMPOWER  
EAST**

**ELECRAMA**  
Powering the Future of Energy

**eTECH****nxt**

**World<sup>®</sup>  
Utility  
Summit**

**distribulec**  
India's only exhibition on Hi-Tech Power Distribution  
from 11KV till 33KV

**intellect**  
Conference on Intelligent Electricity

**buildlec**  
A Unique Exposition on Building Electrical Systems  
upto 1KV

**TRAFOTECH DT**

**CABLEWIRE**  
Innovations & Beyond

**METERING INDIA**

**T&D CONCLAVE**

**Young ieema**

**TISCO**

**WOMEN POWER**  
Empower to Excel  
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**16th Edition**  
**ELECARAMA**  
Powering the **Future of Energy**

**22 - 26**  
**FEBRUARY 2025**  
India Expo Mart,  
Greater Noida, Delhi NCR

# WORLD'S LARGEST ELECTRICAL SHOW

## FAIR FACTS 2023

**1000+**  
Exhibitors

**3,50,000+**  
Visitor Footfalls

**15000+**  
B2B Meetings

**700+**  
Hosted Buyers from 78 Countries

**USD 10 bn**  
Worth Business Enquiries

**300+**  
Hosted Domestic Buyers

**Country Pavillions**  
Canada, UK, France & Germany

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# WORLD'S LARGEST ELECTRICAL SHOW

## FOCUSSED PAVILIONS



Power Generation



Transmission and Distribution



New Energy



Battery & Energy Storage



Motion and Drives



Digital Energy



Smart Home & Buildings



Safety & Health

## CO-LOCATED EVENTS



Platform for  
Building Bridges  
for Utility Leaders  
Worldwide



Empowering Businesses  
for a Tech-driven Future



Reverse Buyer Seller Meet

Hosted Buyer  
program for  
International Buyers



DOMESTIC  
BUYER SELLER  
MEET



Startup program for  
Empowering Startups  
and Entrepreneurs

Thank You..



## Engage on IEEMA Social Media Platforms



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