Pioneer In Electric Mobility In India Largest Indian Manufactures & Suppliers of Composite Insulators

Olectr

mell

Olectra

uses on roads

# **Olectra Greentech Limited**



#### Leaders in next generation transportation technology

- Pioneer in identifying and bringing new power and transportation technologies to India
- Crafted strong Strategic partnership with BYD, World's largest EV manufacturer
- Part of **MEIL Group**
- Access to entire BYD Electric Bus product line.
- Providing complete solution including charging infrastructure and maintenance
- Largest manufacturers of Composite Polymer
  Insulators in India





### Olectra - BYD : 1st to deliver E-buses in India



- ✓ India's First 9m Type II, 12m Coach Bus manufactured and tested by Olectra
- ✓ First ever 7m Electric AC bus was launched in India by Olectra in Delhi
- ✓ First ever commercially operated 9m Electric AC bus was launched in India by Olectra
- ✓ First ever 12m Electric AC bus was launched in India by Olectra at Hyderabad, Telangana
- The largest fleet of 150 Electric buses are operational by Olectra in Pune
- ✓ Over <u>400+</u> electric buses have been deployed across India by Olectra
- $\checkmark$  Homologated 4 Models and **<u>135</u>** Electric bus variants



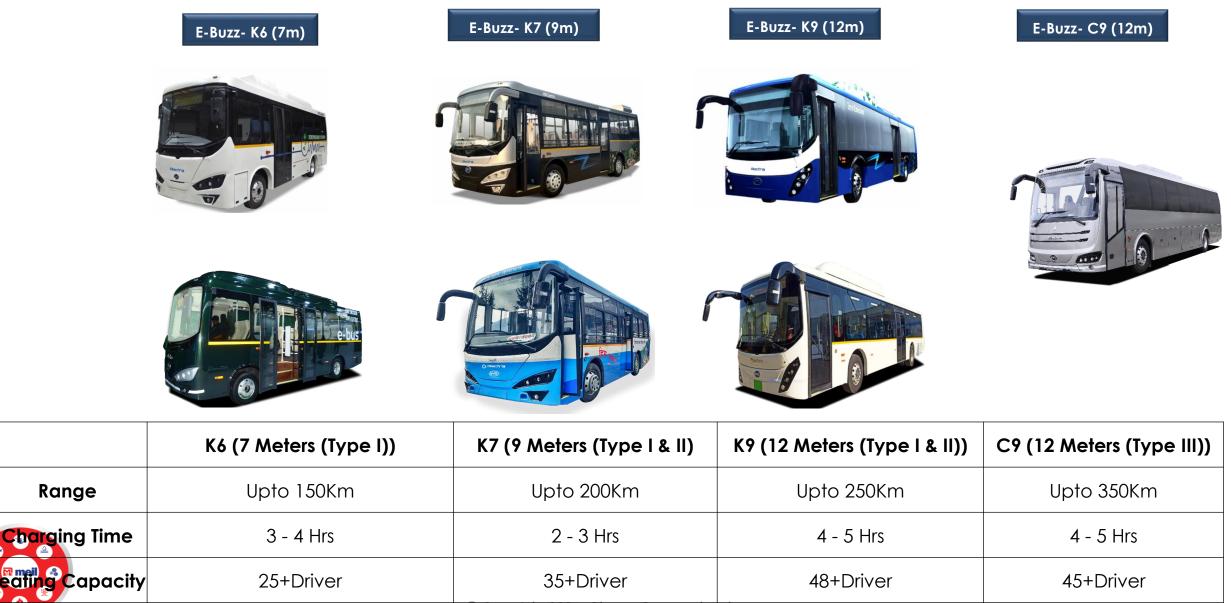




**On Indian Roads** 

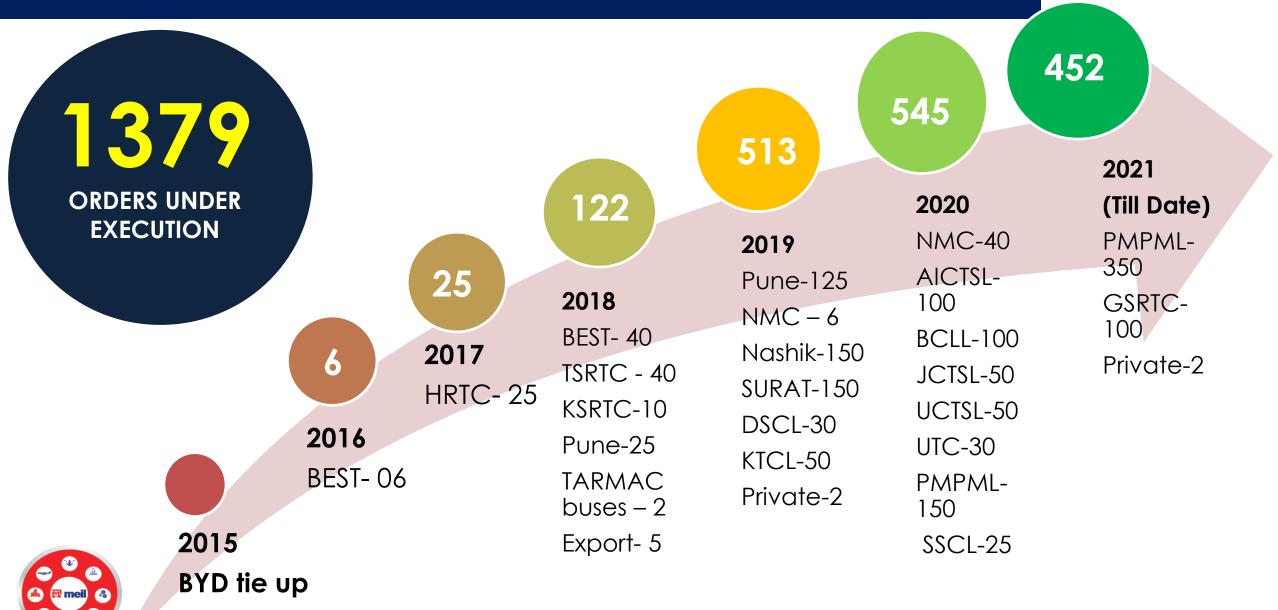
### **Olectra Product Range**





# Success Story......

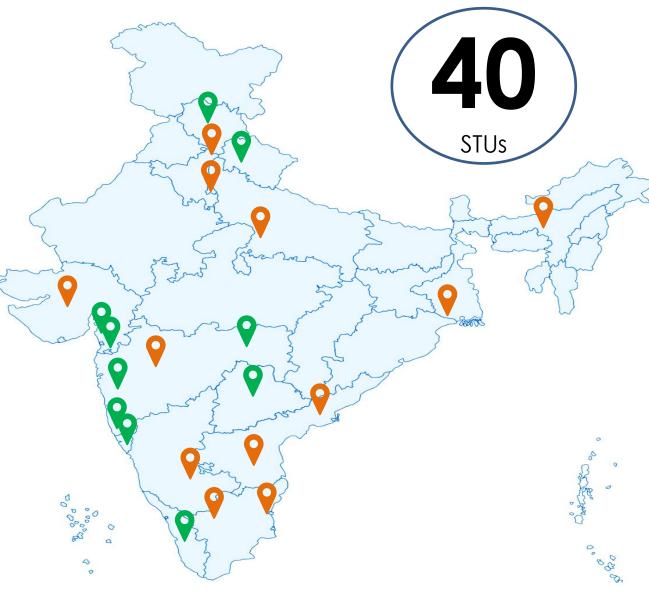




### **Trials & Presence**



Agra Assam **Bangalore** Chandigarh Delhi Kolkata Lucknow Nainital **Puducherry** Rajkot **Tirupati** Vijayawada



Dehradun Goa **Hyderabad** Kerala Manali – Rohtang **Mumbai** Nagpur Pune Silvassa Surat



TrialsPresence

# Olectra Fleet in STU's









# Olectra Fleet in STU's







M meil





# Olectra Fleet in STU's











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### **Olectra Buses Interior**















# Charger & Charging Infrastructure











# **Depot & Charging Infrastructure**



### Depot

### **Charger and Package Sub-station**





# Olectra Electric Bus Plant











# **Olectra Market Share in INDIA**

| FAME   Electric Bus Tenders              |           |  |  |
|--|-----------|--|--|
| FAME-I Total Tenders Floated             | 310 no's  |  |  |
| Olectra Order in FAME-I Tender           | 80 no's   |  |  |
| Olectra Market share (%)                 | 26%       |  |  |
| FAME II Electric Bus Tenders             |           |  |  |
| FAME-II Total Tenders Floated            | 2880 no's |  |  |
| Olectra Order in FAME-II Tender          | 925 no's  |  |  |
| Olectra Market share (%)                 | 32%       |  |  |
| Tenders finalized and under LOA issuance |           |  |  |
| Tot. no. of LOAs under issuance          | 900 no's  |  |  |
| Olectra LOAs to be received              | 435 no's  |  |  |
| Olectra Market share (%)                 | 48%       |  |  |
| NON FAME Electric Bus Tenders            |           |  |  |
| TIV of Non FAME tenders in India         | 1087 no's |  |  |
| Olectra volumes                          | 657 no's  |  |  |
| Olectra Market share (%)                 | 60%       |  |  |



Total **41%** 



LIVE Tenders and under evaluation 1050 no's

# Electric Mobility : Policies & Adaptation worldwide

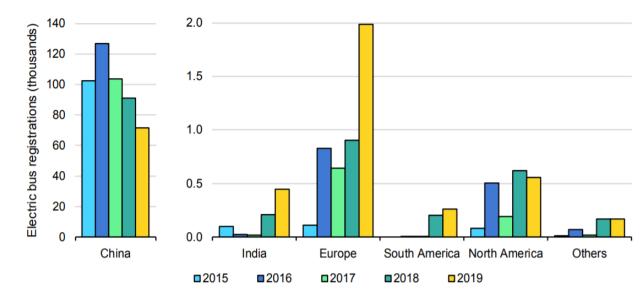
- ✓ To date, **17 countries** have announced 100% zero-emission vehicle by **2050**
- ✓ UN Environment's Electric Mobility Program supports countries in introducing Electric Mobility
- ✓ UN Environment is supporting **over 50 countries** and cities to introduce electric buses, cars and two and three wheelers
- ✓ The Electric Vehicles Initiative (EVI) is a multi-government policy forum dedicated to accelerating the introduction and adoption of electric vehicles worldwide.

| EV TARGETS ANNOUNCED BY CITIES |  |                                    |
|--------------------------------|--|------------------------------------|
| СІТҮ                           | TARGET   | Source: ICCT (2017), SLOCAT (2018) |
| Amsterdam                      | Zero-emissions transport                                   | within the city by 2025            |
| London                         | Procure only zero emission buses from 2025                 |                                    |
| Los Angeles                    | 10% of vehicle stock election                              | ric by 2025; 25% electric by 2035  |
| New York City                  | 20% vehicles sold in the c<br>Municipal vehicle fleet of 2 |                                    |
| Oslo                           | Zero-emissions transport                                   | within the city by 2030            |
| Shenzhen                       | 120,000 new energy vehic                                   | cles sold by 2020                  |
|                                |  |                                    |

30,000 new energy vehicles sold by 2020

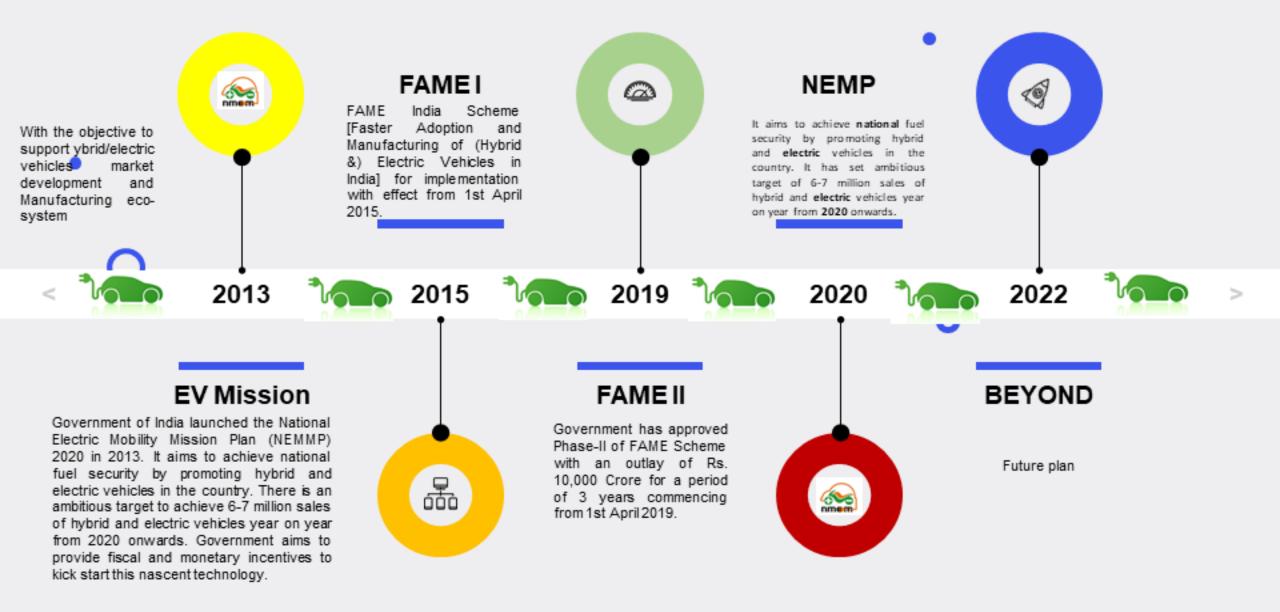
Tianjin





# Electric Mobility : Policies (initiatives) in India





### Key Highlights of States EV Policy



#### 1 Andhra Pradesh

#### 1,000,000 EVs by 2024

Celebrate "green days" to create awareness among public

100% electrification of buses by 2029 (first phase in four targeted cities to be completed by 2024)

#### 2 Bihar

Electrification of rickshaws a priority

Convert all paddle rickshaws to e-rickshaws by 2022

#### <sup>3</sup> Delhi

Pollution cess on existing diesel cars and sale of new petrol/diesel vehicles

Prioritize 2Ws, 3Ws, buses and cabs

50% e-bus in public transport by 2023

Scrappage and deregistration incentives for high-polluting vehicle categories

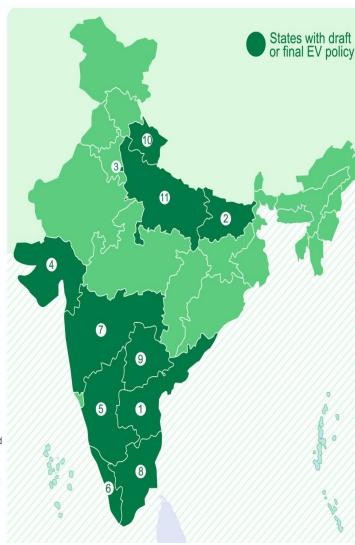
Common mobility card payment system for energy operators and battery-swapping operators

#### 4 Gujarat

Subsidy of INR 12,000 & 48,000 for a battery-operated e2W and e-rickshaw (3W)

Government aims to provide subsidy support to students studying above Class 9 to purchase two-wheelers

Financial assistance of INR 50 lakh to set up charging infrastructure



#### 5 Karnataka

Policies focused on manufacturing and battery storage

Create a secondary market for batteries

Venture capital fund for e-mobility start-ups

Retrofitment for existing 3Ws

#### 6 Kerala

1 million EVs on road by 2022

6,000 e-buses in public transport by 2025

EV component manufacturing a priority

Viability gap funding for e-buses and government fleets

#### 7 Maharashtra

Manufacturing hub for EV and EV components

Package schemes of incentives for MSMEs and large manufacturing units

#### 8 Tamil Nadu

Manufacturing-focused: aims to attract INR 50,000 Cr (\$7 billion) of investment in EV manufacturing and create 1.5 lakh new jobs

50% capital subsidy on land if the investment is in southern districts (15% for other regions)

Priority vehicle categories: e-2Ws, e-3Ws, taxis, public transport (e-bus), e-commerce and logistics fleets and institutional vehicles

One-time reskilling allowance for every employee working with EV manufacturing units

Special number plate for EVs

#### 9 Telangana

Priority vehicle categories: shared mobility, public transport, institutional transport vehicles

Retrofitment for passenger vehicles, auto rickshaws, e-rickshaws

#### 10 Uttarakhand

Manufacturing-focused policy

500 e-buses by 2030

#### 11 Uttar Pradesh

Focused on manufacturing of EV, EV components and batteries

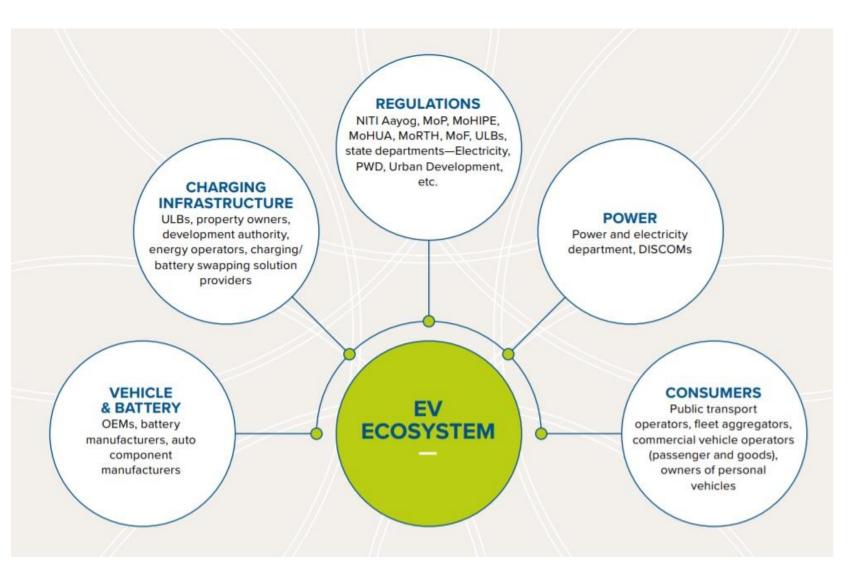
Target 2024: 2 lakh charging (fast, slow and swapping) stations;

Target 2030: 10 lakh EVs on road across all categories and 70% of public transport to be electric

Start-up and innovation programmes

### Key stakeholders and components of an EV ecosystem



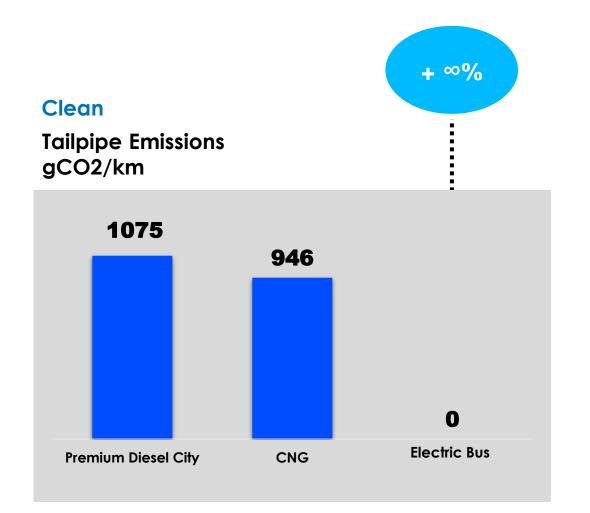




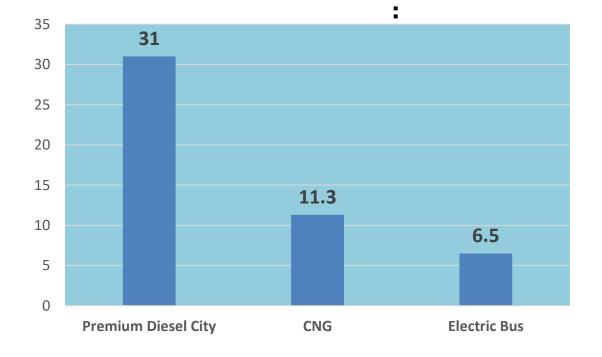
Source: Electric Mobility Policy Framework, Ministry of Housing and Urban Affairs

# Electric Buses Outperform Fossil Fueled Buses





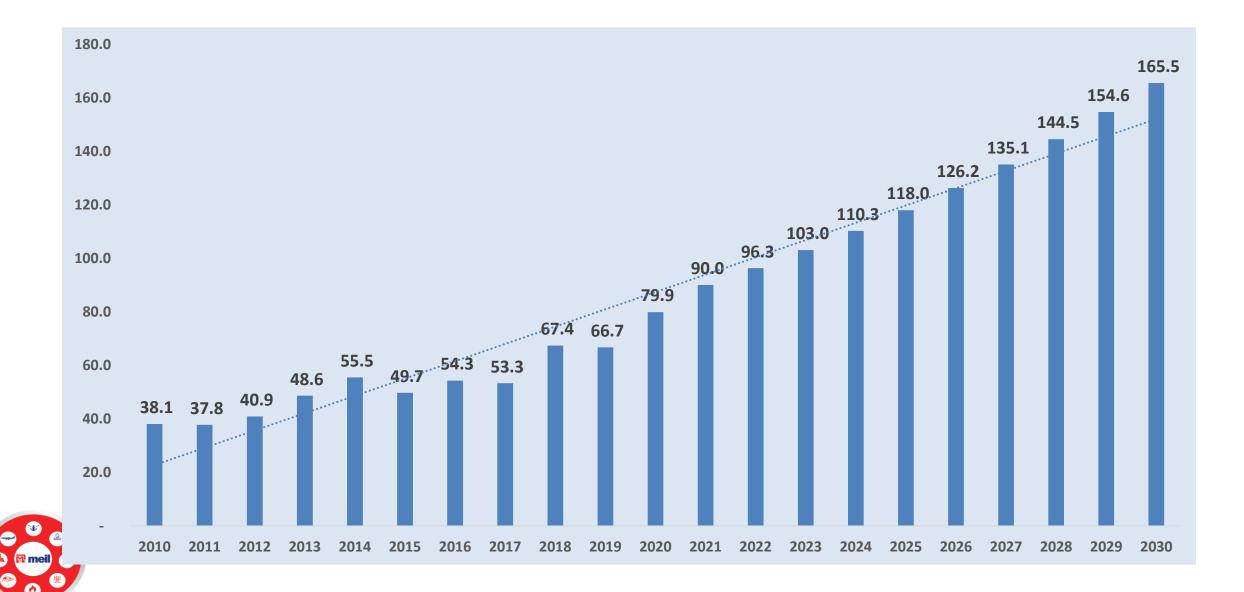






### **Diesel Price trend**







|   | Clocked over 40+ Million clean kms                           |
|---|--|
| S | 13+ Million Liters of diesel avoided                         |
|   | 1040+ Millions of fuel cost saved                            |
| Y | 1.86+ Millions of trees required to achieve same co2 reduced |





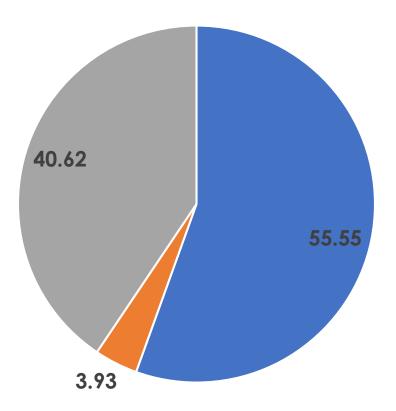
- Contract period is usually for 12 years with average daily running of 200km 300km. The contract can be extendible on the basis of mutual agreement.
- Authority/STU commits and guarantees Minimum Operating Mileage per day and Contract Period
- Bidder finances, owns, operate buses and charge per km rate for guaranteed Operating Mileage, Contract Period.
- Olectra is focusing on manufacturing and supply of buses to bidder. In some cases olectra may participate as consortium member.
- Olectra provides after sales service with an agreed price per km which brings additional revenues YoY.
- This GCC model is also operational for premium diesel buses in India.



# **Shareholding Pattern**



Shareholding Pattern





- MEIL Holdings Ltd & Other Promoters = Institutional Investors
- Non Institutional Investors

- Olectra signed an MoU committing to an investment of Rs 3000 Million and generating employment of 3,500 people.
- ✓ With Expanded Capacity of **10,000** buses per year
- Entry into Inter-city / Inter-state Private Transport Segment
- ✓ Entry into Staff Transport private segment
- ✓ Establishing TARMAC buses in Airports
- $\checkmark$  Olectra is Localising the components to the maximum in coming 6-8 months time.







### **Olectra Greentech Limited - Insulators**

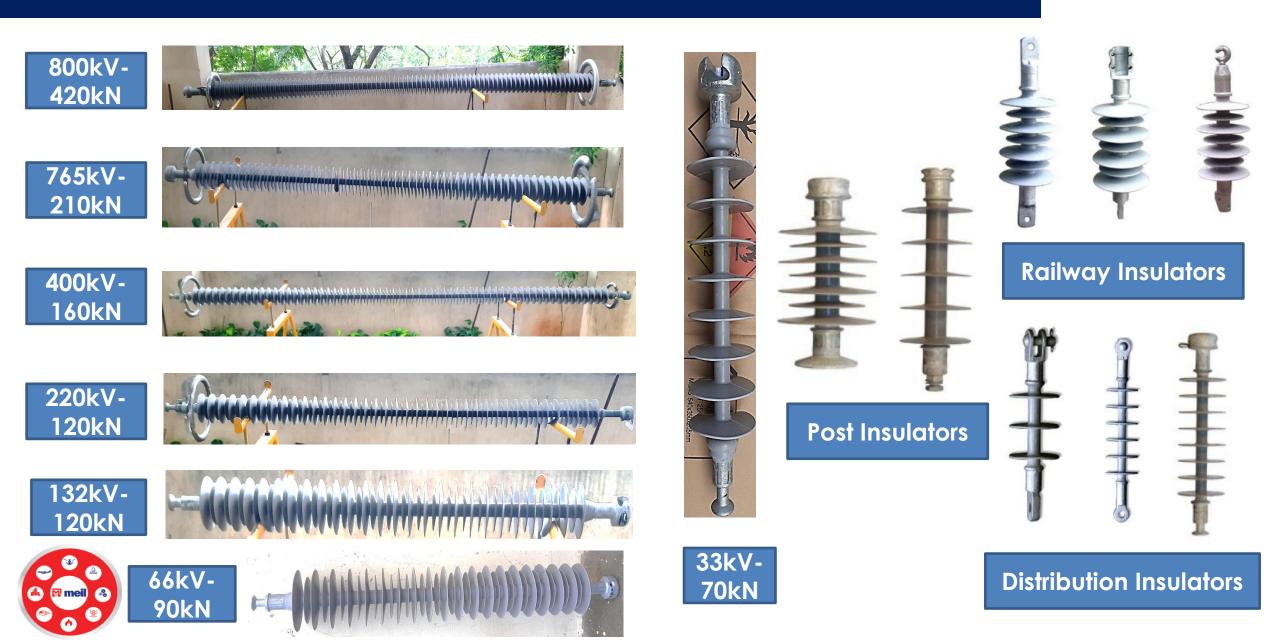


- ✓ Largest Indian Manufacturer & Suppliers Of Composite Insulators.
- ✓ An **ISO-9001:2015** and **ISO -14001:2015** certified company.
- ✓ Department of Scientific and Industrial Research, **R & D Centre** recognized by Govt. of India.
- ✓ Product Range : 11kV to 1200kV, ±800kV HVDC & Mechanical Strength up to 525kN.
- ✓ OGL through its R&D efforts have developed High Performance silicon rubber Polymer Insulators for application in Distribution and Transmission System. The Silicone Rubber Polymer Insulators Confirms IEC: 61109 and have been tested at CPRI, Hyderabad & Bangalore, ERDA. Also completed 5000Hrs Multi Stress ageing test in CESI, Italy.
- ✓ Completed more than **5 million installations** across the globe



### **Product Range**





### **Development Achievements**

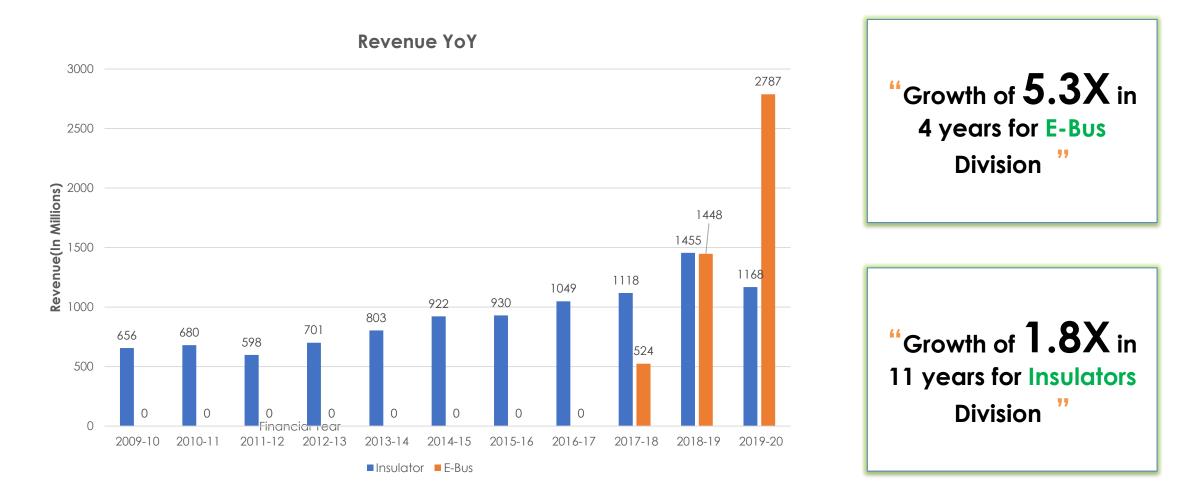


- ✓ Composite 25kV Railway Insulators 2002
- ✓ Composite 66kV Insulators 2004
- ✓ Composite 132/220kV Insulators 2006
- ✓ Composite 400kV Insulator 2008
- ✓ Composite 765kV Insulator 2011
- ✓ Composite 800kV Insulators 2014
- ✓ 66kV Composite Post Insulators 2016
- ✓ 132kV to 400kV Composite Post Insulators 2018
- ✓ Online Condition monitoring technique for Composite insulator 2018
- ✓ New Compound development for Market competitive ness in 2020
- ✓ 765KV and 400 KV New Designs developed in 2020 for Market competitiveness



### **Revenue Growth : Insulators & E-Bus**









# THANK YOU

