









**Co - Host Utility** 





**ORGANIZER** 



## **Supporting Ministries**

















# Session: EVOLVING TRENDS IN UTILITY AUTOMATION

# **MeitY Initiatives**

Presented By

Dr.Om Krishan Singh, Scientist D, MeitY

















# Ministry of Electronics and Information Technology

#### **Vision**

e-Development of India as the engine for transition into a developed nation and an empowered society

#### Mission

To promote e-Governance for empowering citizens, promoting the inclusive and sustainable growth of the Electronics, IT & ITeS industries, enhancing India's role in Internet Governance, adopting a multipronged approach that includes development of human resources, promoting R&D and innovation, enhancing efficiency through digital services and ensuring a secure cyber space.

#### **Objectives**



• e-Industry

❖ e-Innovation / R&D

e-Learning

e-Security

e-Inclusion:

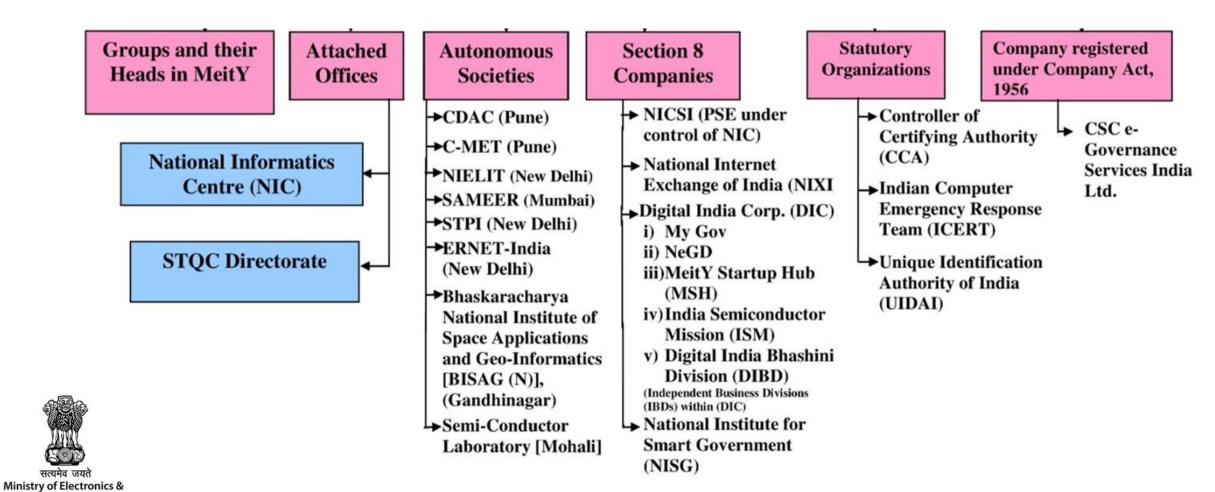
\* e-security

ectronics & Internet Governance





## **Organisation Structure**



Information Technology
Government of India





### **Groups**









### **Research & Development in Electronics**

#### **Electronics Systems Development & Application**

ESDA Division is promoting technology development and applications in Industrial Electronics for various industrial and service sectors covering Power Electronics, Intelligent Transportation System, Automation System for process industries, Agri Electronics, Electronics Personal Safety Devices and Systems for person in distress etc.

#### **Thrust Area**

- □ Power Flectronics
- Automation Systems for process industries and Industrial Automation
- Intelligent Transportation System
- ☐ Agriculture and Environment
- ☐ Electronics Personal Safety devices and systems
- E-mobility







#### **ESDA - Projects**

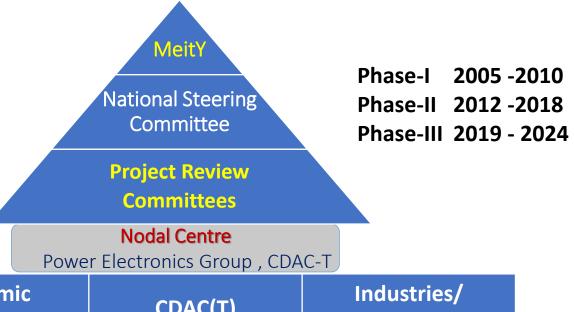
□ National Mission on Power Electronics Technology
 □ Development of Electric Vehicle Subsystems (EVSS-I)
 □ National Programme on Electronics and ICT Applications in Agriculture and Environment (AgriEnIcs)
 □ e-GUNA: Sensory assessment for quality of fermented foods from North-East India
 □ Autonomous Last mile VEhicle (ALIVE)
 □ Intelligent Transportation System Endeavour for Indian Cities – InTranSE
 □ Tea Harvesting Unmanned Robotic Platform for NER (TULIP)





# National Mission on Power Electronics Technology(NaMPET)

Objective: Make India a Dominant player in PE Technology



Academic CDAC(T) Industries/
User Agencies

ADVILV
सत्यमेव जयते
Ministry of Electronics &
Information Technology
Government of India

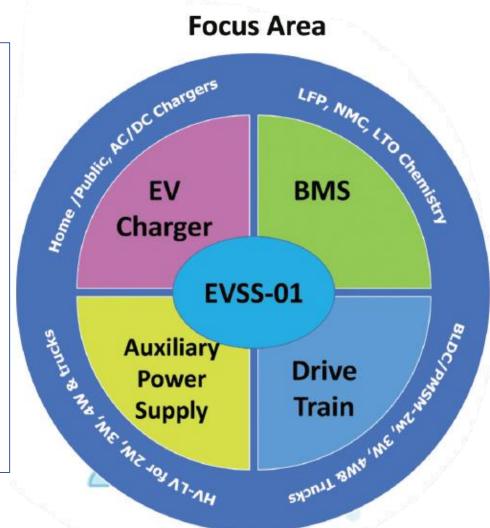
Focus	Applications
<ul><li>Advanced Technology / Exploratory</li><li>Research</li></ul>	<ul><li>Renewable Energy, Microgrid</li><li>Traction, E- Mobility</li></ul>
Deployment / Up-gradation of Technologies	➢ High Voltage PE
Awareness Creation & Training	LVDC Power Distribution systems
> Infrastructure Development	Power Quality, Smart Grid





## **Electric Vehicle Sub-Systems (EVSS-01)**

- ❖ The objective of the Electric Vehicle Sub-System (EVSS-01) program is to develop various sub-systems for 2W/3W/4W EVs, as per Indian traffic and Environment conditions.
- ❖ A consortium approach involving Academic Institutes, R&D organizations and Industries targeting TRL-8 developments.
- ❖ A limited 24month project duration for better Time to Market.
- ❖ 14 Projects EV charging systems (AC & DC), Drive train (low & high power), BMS with battery and other auxiliary converters developments.
- Nodal Centre Power Electronics Group, C-DAC Thiruvananthapuram









#### Key Takeaways and Recommendations

- Opportunity for collaborative R&D and indigenisation of various technologies including smart grid technology components
- Product development opportunities in line with Make in India







# **THANK YOU**

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