

Host Utilities



Co - Host Utilities



ORGANIZER



India SMART UTILITY Week 2024

Supporting Ministries



Session: Technologies for Decarbonization of Demand Sectors

Solar EV – A Transition To Zero-Emission Transportation

Presented By

Jyoti Roy, Founder & CEO, GreenEnco

How many of you use Electric Vehicle (EV)?

How many of these EVs are power by green source of electricity?



[Supporting GreenEnco to develop EV charging infrastructure in India - YouTube](#)

A **Technical Advisor & Engineering Solution Provider** with over **11 GW** services in **16 countries** in **4 continents**.



Design optimisation



Owner's engineering



AI & ML based asset optimisation services, driven by human intelligence (**pvAPM**)



Transition towards Zero-Emission transportation



Smart Energy System & Innovation

Core Strengths

A **team** of over **100 years** of cumulative **operational excellence**.



Our founder is a member of the **IEC and BSI** international standard committee, developing international solar standards for global community.



We supported **~INR 6000 Cr** Techno-Commercial due diligence in **EMEA & APAC**.



Our unique AI & ML algorithms resulted **INR 200 Cr** financial benefit & **33,000 tons** additional CO2 offset on a 300 MW portfolio in Asia.

Our Global Partnerships

MOU with TSREDCO, India.

MOA with Viot Energy Efficiency Platform Joint Stock (VEEP), Vietnam.

MOU with Arti Enerji (Independent Power Producer), Turkey.

UK-India Act 4 Green II Programme

UK-India Net-Zero Accelerator Programme

UK-India Innovation for Clean Air Programme (IfCA)



Department for
Business & Trade



Innovate
UK

Zero-Emission E-Mobility _ global e-commerce company

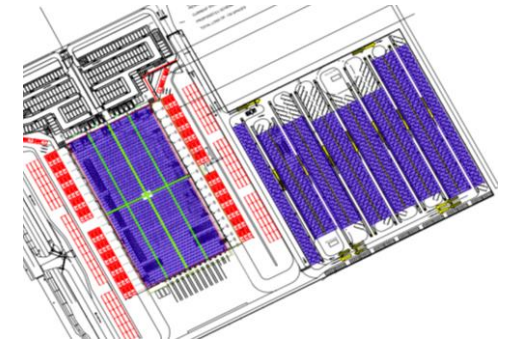
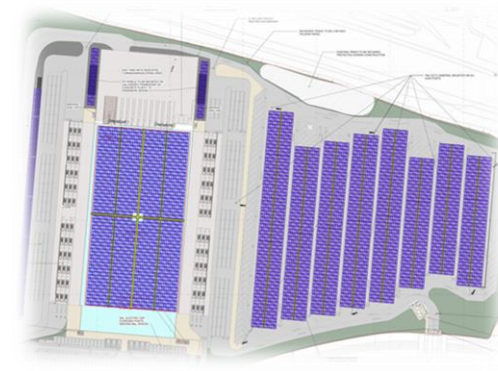
GreenEnco has provided advisory services on

Solar PV - Battery Storage - EV charging
assessments.

Outcomes:

- Optimisation of sizing scenarios of solar-battery storage-EV charger
- Probabilities of matching the annual solar PV generation profile with each scenario
- Commercial assessment of solar and battery storage system

Combined Solar PV capacity: ~4.5MW (Rooftop & Carport solar)



	ESS capacity (kW/kWh) (@4hrs charging capacity)	Individual EV Charger (kWp)	Number of EV Chargers
Scenario 1	500/2000	6.5	77
Scenario 2	1200/4800	6.5	185
Scenario 3	2000/8000	6.5	308
Scenario 4	2400/9600	6.5	369

Zero-Emission E-Mobility - IISc Bengaluru

Innovating for Clean Air (IfCA) program by Energy System Catapult, UK.

GreenEnco has developed a
Solar PV - Battery Storage - EV charging infra to
demonstrate zero-emission transportation in India.



Zero-Emission E-Mobility - the UK Embassy, Chennai





Accelerating Smart Power and Renewable Energy in India (ASPIRE) programme is a bilateral programme, being implemented by the Foreign, Commonwealth and Development Office (FCDO), Government of UK in association with the Ministry of Power (MoP) and the Ministry of New and Renewable Energy (MNRE), Government of India.

Partnership



Feasibility Assessments



- System configurations
- Electrical interface
- Hybrid inverter
- Li-ion battery
- Existing AC charger

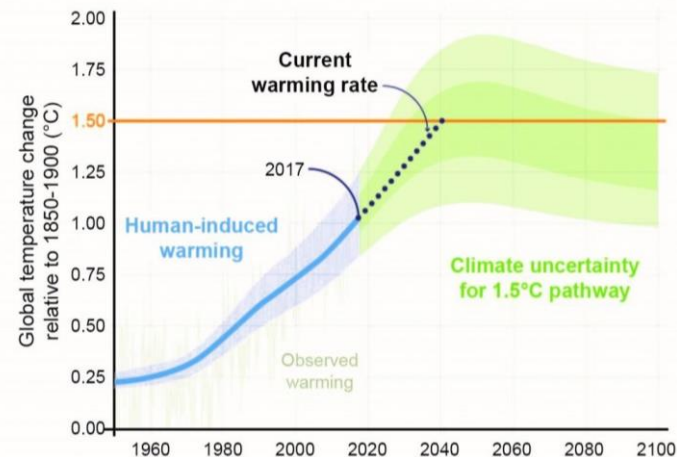
We are promoting a transition from net-zero to zero-emission transportation.

100% Renewable Energy IS POSSIBLE

FAQ1.2: How close are we to 1.5°C?

Human-induced warming reached approximately 1°C above pre-industrial levels in 2017

Ref: IPCC



Creating A Better World In A Changing Climate

THANK YOU



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