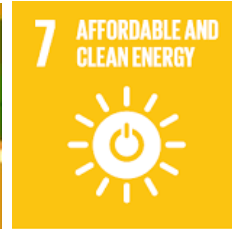




**United
Nations**



HIGH-LEVEL DIALOGUE ON
ENERGY
UNITED NATIONS, NEW YORK, SEPTEMBER 2021



UN High Level Dialogue on Energy 2021 - Ministerial Thematic Forums – VIRTUAL-Side Event
by INFORSE: **Local Solutions, Eco-Village Development,
100% Renewables, E-2/3 Wheelers; South Asia & East Africa**

June 22, 2021 6 AM- / 7 AM (New York time)

Sohel Ahmed

Managing Director
Grameen Shakti
Bangladesh



Grameen Shakti

Status of e-Mobility

Under Transition



Public Car



Public Bus

Transformed to e-technology



Easy Bike



E-Rickshaw



Mishuk



Cart Van



Battery of EV



Dry Battery of Electric Rickshaw



Lead-acid flooded Battery of Easy Bike/Mishuk



Li-ion Battery



Battery Charger



UN ENERGY 2021 High Level Dialogue on Energy - INFORSE Side Event: June 22, 2021
Local Solutions, Eco-Village Development, 100% Renewables, E-2/3 Wheelers; South Asia & East Africa



Challenges in EV Charging

Poor Charging Infrastructure

- Unstable utility grids
- Poor quality of Battery Charger
- Inefficient model Solar EV Charging
 - based on battery bank
 - following battery swapping model



Poor Charging Infrastructure
Inefficient battery charging resulting in less operating our and less income

Challenges in EV Charging

Affordability & Quality of the batteries

- Inadequate affordability
- Low cost low quality batteries
- Good quality Li-ion batteries
 - provide better mileage and longevity
 - Expensive & EV puller cant afford



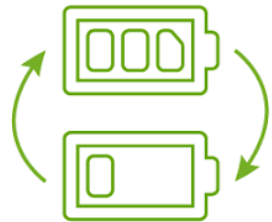
Limited Affordability enforces low quality

EV Charging project (Grameen Shakti)

Around 70% of generation of a Solar irrigation system is remained unused

EV Charging Model

- Excess energy is evacuated to utility grid (during daytime)
- EV Charging Station built in a suitable place
- Similar amount of energy is taken back to charge EV (during night)
- This mechanism equates solar power to charge EV



- Each EVs will have 2 sets of batteries
- EV puller will swap the empty batteries with the fully charged batteries
- This will reduce the charging time from 8 hours to 30 mins



PAYG Battery Rental Model (Grameen Shakti)

PYGO Battery Charging Model

- Investment in High Quality Li-ion Battery
- Incorporation of PYGO technology
- Rent out high quality battery

This will ensure...

- Proper charging of the batteries
- Better mileage and better income



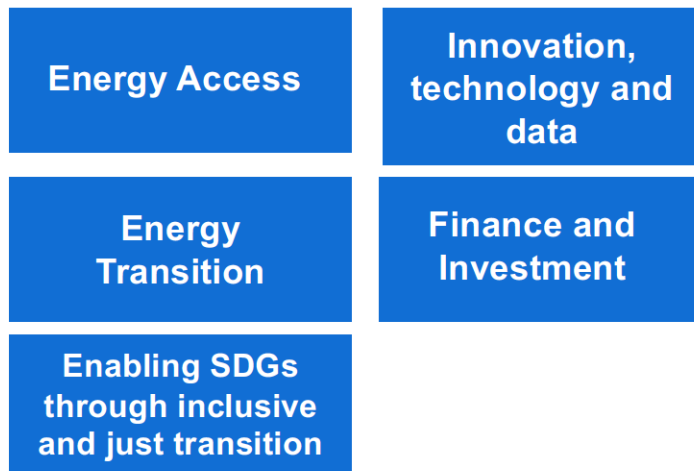
Energy Compacts – Voluntary, inclusive & complementary



Energy Compacts will be the most **inclusive** umbrella dedicated to bring together **voluntary commitments** on all SDG7 targets in support of achieving all SDGs by 2030 and net zero emissions by 2050.

WHAT

Voluntary commitments on the following themes to advance SDG7 by 2030 and net zero by 2050.



WHO

Energy Compacts will be **inclusive** and available for voluntary commitments from all stakeholders in the global movement on SDG7



HOW

Aligned with existing commitments covering ambitious actions, policies, finance and investment, etc. commitments on SDG7.



**Courtesy: UN*

Scope in Energy Compact

Scope in Grameen Shakti

- Installing 400 Solar Irrigation Pump
- Solar Powered EV charging station
- Solar power water desalination plant



Scope in INFORSE

- Creating instance and model
- Advocacy, Knowledge dissemination and Model activation



Grameen Shakti is a member of “**Energy Transition Platform**”- A forum consisting of a few South Asian countries, China and Myanmar working with a vision to increase share of Renewables in the Energy mix.

Thank You

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