Launch: Online Database for Eco-Village Development (EVD) Solutions in Bangladesh- 31th August 2022

Abdul Arif, Grameen Shakti, Bangladesh
Grameen Shakti
Devoted to Create Access to Energy
Grameen Shakti was established in 1996 as a Not-for-profit company by Nobel Laureate Professor Muhammad Yunus with the Objective of providing Access to Energy to the rural people of Bangladesh.
Two prongs of activities.....

Socio Economic Activities

Generate REVENUE for Sustainability through activities creating Social Impact

Development Activities

Generate Social Bottom Line in a Sustainable manner, adding to financial sustainability
Socio Economic Activities

Biogas Plant

Solar Rooftop

Solar water Pump

PV Module

EV & ER Battery

Solar Street Light
Socio Economic Activities

Fan

Solar battery
Development Projects

Eco-Village Development (EVD)

Electric Mobility

Peer-to-peer Solar Grid

Energy Transition

WePOWER, World Bank
Socio Economic Activities

Key milestone & Achievement

**Solar Home System**
1,800,000 units installed
43% (National program share)

**Improved Cooking Stove**
1,000,000 units installed
25% (National program share)

**Biogas Plant**
35,000 units installed
40% (National program share)

*Total 15,000,000 CO2 reduction/annum*
Eco-Village Development

Grameen Shakti is Country Focal Point of INFORSE as well as one of the Founders for INFORSE-South Asian Chapter

Eco-village Development (EVD) is an integrated socio-economic development concept, in which Individual Solution combines in clusters to provide synergic benefit to the COMMUNITY.
The Local Solutions Database for Eco-Village Development in South Asia

Bangladesh - Nepal - India - Sri Lanka

Link to the database: https://www.inforse.org/evd/
Biogas Plant (Household)

- Size: 2.4 – 4.8 m³
- Cost: US$ 400 - US$ 600
- Cost saving: 0.5$ per day
- Lifetime: 20+ years
- Installation: 87,000 units in Bangladesh

Solar Home System

- Size: 40 – 130 Wp
- Cost: US$180 to US$ 300
- Cost saving: 0.15$ per day
- Lifetime
  - Solar PV module: 20+ years
  - Battery: 5-8 years
  - LED light: 3 years
- Installation: 6 million units in Bangladesh
Solar System in Shop

- Size: 130-300 Wp
- Cost: US$ 300 – US$700
- Cost saving: 0.25$ per day
- Lifetime
  - Solar PV module: 20+ years
  - Battery: 5-8 years
  - LED light: 3 years
- Installation: 3,00,000 units in Bangladesh

Bamboo Made Slurry pit

- Size: 1500 litre
- Cost: US$ 60
- Lifetime: 15 years
**Improved Cook Stove**

- Material: Concrete
- Cost: US$ 12
- Lifetime: 5-7 years
- Fuel Saving: 2-4 kg fire wood

**Retailed heat Cooker**

- Material: wool
- Cost: US$ 20
- Lifetime: 10 years
- Cost Saving: US$ 0.05/day
**Solar Street Light**
- Capacity: 30 Wp
- Cost: 350 USD
- Cost saving: US$ 0.12
- Lifetime:
  - LED light: 5 years.
  - Solar Panel: 20 years.
  - Battery and charge controller: 3-5 years.

**Solar Water Pump**
- PV capacity: 1250 Wp
- Cost: US$ 1800
- Lifetime: 15 years
Thank You

Do it with Joy