

Webinar

# LAUNCH: ONLINE DATABASE FOR ECO-VILLAGE DEVELOPMENT IN SOUTH ASIA - Bangladesh, India, Nepal, Sri Lanka

Local Solutions - Publications - Media - Organisations



Cooking  
solutions ▾



Off-grid power  
and light ▾



Heating and  
cooling ▾



Water supply ▾



Organic  
gardening and  
agriculture ▾



Village  
development  
planning ▾



Other ▾

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

Abdul Arif, Grameen Shakti, Bangladesh



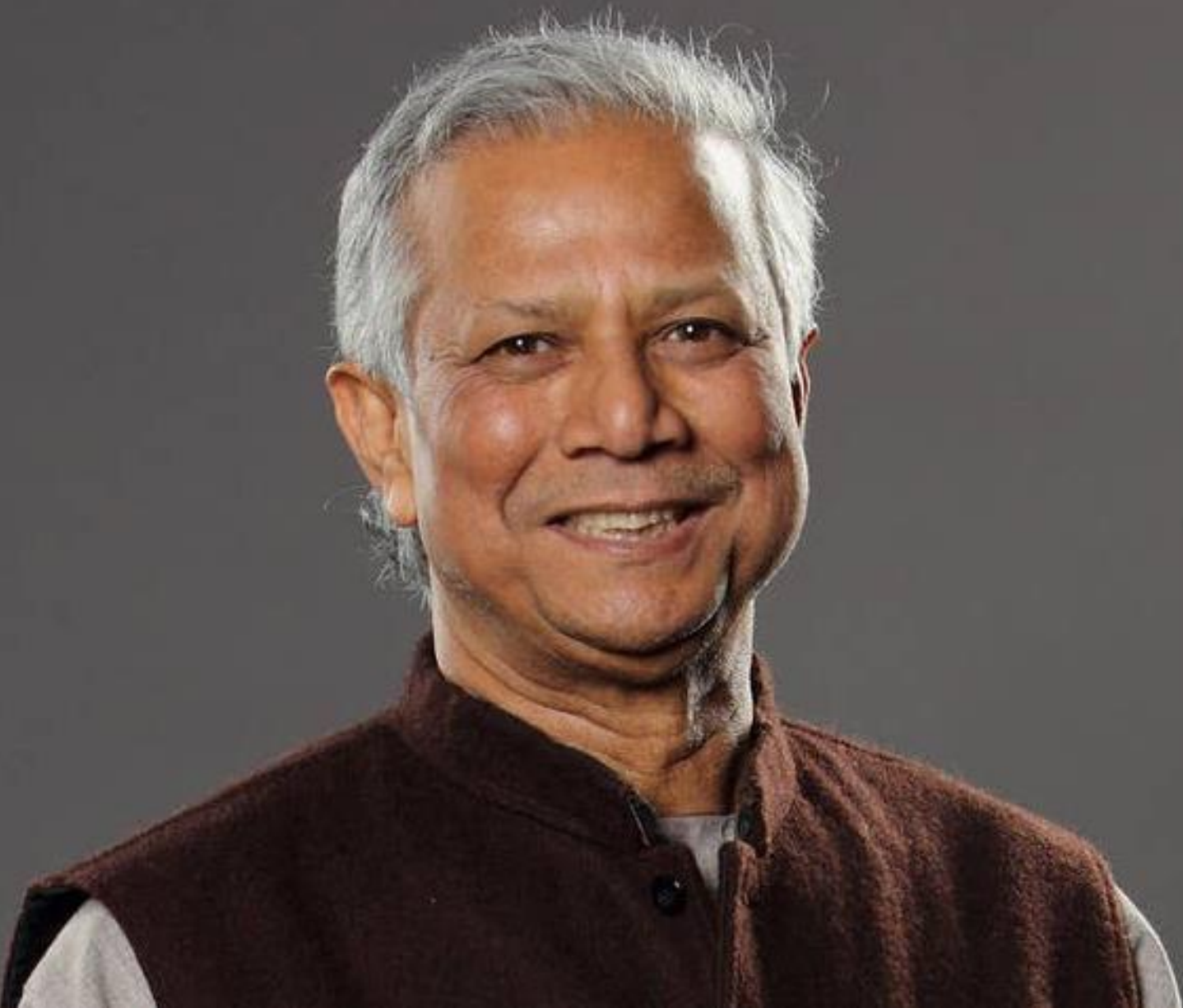


# Grameen Shakti

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

# Broad Activities

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**



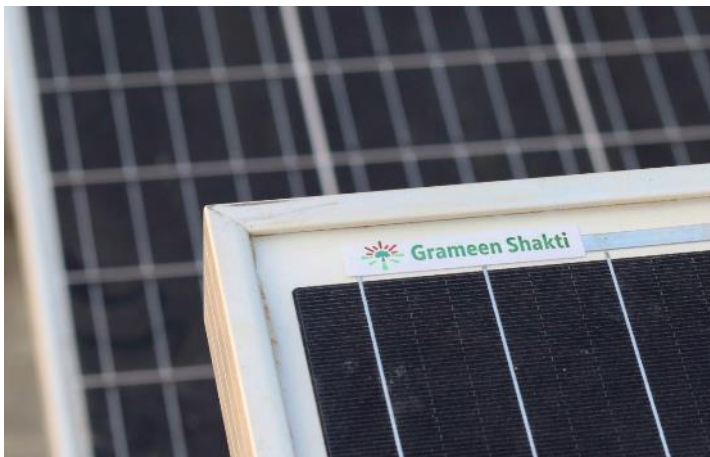
**Solar Rooftop**



**Solar water Pump**



**PV Module**



**EV & ER Battery**



**Solar Street Light**





# Socio Economic Activities

Fan



Solar battery



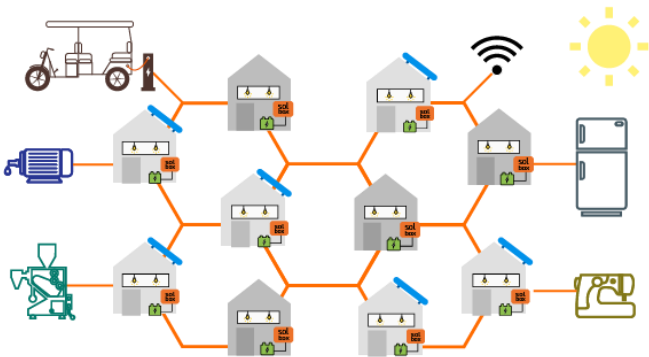
# Development Projects



**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 15,00,000 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

Local Solutions - Publications - Media - Organisations


Local Solutions. Database for Eco-village Development in South Asia.



Choose a solution category:

-  Cooking solutions ▼
-  Off-grid power and light ▼
-  Heating and cooling ▼
-  Water supply ▼
-  Organic gardening and agriculture ▼
-  Village development planning ▼
-  Other ▼

Search the solutions according to language, country or name:

Language ▼ Country ▼  

Link to the database: <https://www.inforse.org/evd/>





## Biogas Plant (Household)

- Size: 2.4 – 4.8 m<sup>3</sup>
- 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



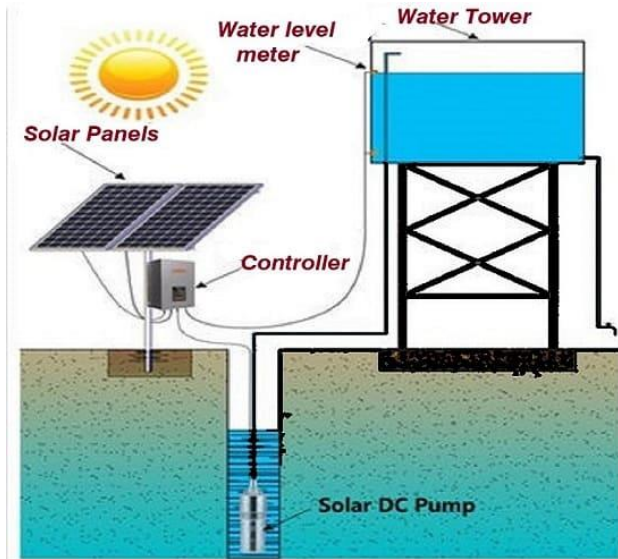
## Retailed heat Cooker

- 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**