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

Grameen Shakti, in association with INFORSE is implementing "**Eco-Village Development**" Project in Bangladesh, Since 2015. This is multi-country project comprises of Bangladesh, India, Nepal & Sri Lanka.
Grameen Shakti was established in 1996 as a Not-for-profit company by Nobel Laureate Prof. Muhammad Yunus with the Objective of providing Access to Energy to the rural people of Bangladesh.
Key Milestones

**Solar Home System**

1,800,000 units installed
33% Share in Bangladesh
25% Share in the World

**Improved cooking stove**

1,000,000 units installed
35% Share in Bangladesh

**Biogas Plant**

35,000 units installed
40% Share in Bangladesh
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.
Phases of EVD

Phase 1: The Initiation (2015-2017)
- Scoping the Problem & Solutions

Phase 2: Creating Evidence (2017-2018)
- Implementation, Impact assessment & Advocacy
- Feasibility for expansion of the project

Phase 3: Expanding Horizon (2018-2020)
- Expansion through sustainable model

Phase 4: Sustainable Impact (2020-2022)
## EVD Solutions

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
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</thead>
<tbody>
<tr>
<td>Access to clean drinking water</td>
<td>Solar power pump (drinking water)</td>
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<tr>
<td>Access to Electricity</td>
<td>Solar Street Light</td>
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<tr>
<td>Environment Pollution</td>
<td>Biogas plant with Low cost Bamboo made slurry pit</td>
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<tr>
<td>Inefficient cooking</td>
<td>Retained Heat cooker</td>
</tr>
</tbody>
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Problem, Solution & Impact

Access to Energy

Solar Home System

- Remote electrification
- Education
- Income generation
- GHG Reduction
- Women Empowerment
- Technology Access

1. No Poverty
2. Quality Education
3. Affordable and Clean Energy
4. Gender Equality
5. Industry, Innovation and Infrastructure
6. Climate Action
Problem, Solution & Impact

Clean Cooking

- Improved Cook Stove
- Biogas

Women Health (IAP)

Women Empowerment

Environment conservation

Energy Efficiency

Income generation

1. No Poverty
2. Gender Equality
3. Good Health and Well-being
4. Climate Action
5. Affordable and Clean Energy
Feasibility Study of EVD Concept

**Objective**: Test the viability of the EVD solutions in the coastal zones of Bangladesh

**Scope**: Feasibility study of different EVD solution in the climate vulnerable coastal zone of Bangladesh
Key Salient Features

Focused Group Discussion (FGD)

Key Informant Interview (KII)
Social Enterprise Model will facilitate:

- To attain a Social Objectives
- Disseminating product/solution in Sustainable way through
  - maximizing benefits (economic & alternative value)
  - Links society/community and the environment.
  - Involve beneficiaries at the operation level
  - Incorporate revenue generation from EVD solutions
  - Cover expense through the operational markup
  - Assess possibility of paying back investment
  - Replicable in modular fashion
  - Easy and sustainable for other operators to involve
  - Not fully dependent on grant or subsidy at a longer term
Social Enterprise Model
Bio-Gas

Standardization
- Technical Assistance
- R&D and Innovation
- Monitoring

Local Industry (Manufacturer/Supplier/distributor)

Revenue/Alternative Income
- Community Biogas sale
- Community Market
  - Manure sale
- SME
  - Fertilizer/Vermicompost sale

Households/Community
- Gas for Cooking
- Manure (captive use)

Project Implementor

Support service
- Operation, maintenance
- Cooperative Fund
  - Veterinary
  - Micro finance

Capital Expense
- Financial Institute
- Program Administration
- Social Crowdfunding
- National/International fund
- CSR

Payment
- Product Supply
- Finance (Grant/Loan)
- Repayment
Key Features of Social Enterprise Model

- Revenue Generation
- Market Linkage
- Cooperative Fund
- CAPEX/OPEX optimization
Thank You

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More information: www.inforse.org/asia/EVD.htm