ADB

THE UNIVERSITY OF MELBOURNE — Nossal Institute for Global Health

IEEE SA STANDARDS ASSOCIATION

IEEE SSIT SOCIETY ON SOCIAL IMPLICATIONS OF TECHNOLOGY

REGIONAL CONFERENCE

INCLUSIVE ENERGY TRANSITION IN SOUTH ASIA AND BEYOND

7–9 MAY 2024 • Galle, Sri Lanka

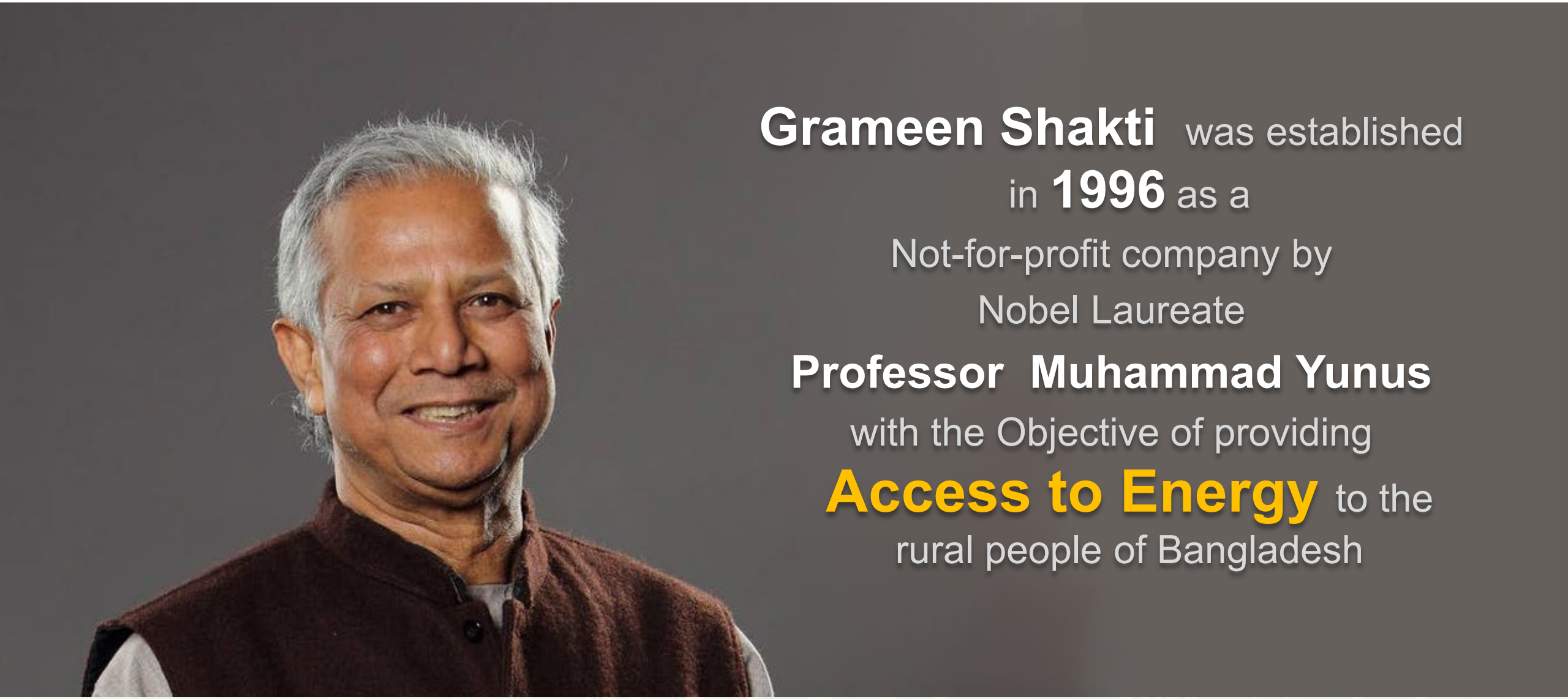
REGIONAL CONFERENCE
INCLUSIVE ENERGY TRANSITION IN SOUTH ASIA AND BEYOND
7–9 MAY 2024

Community Centered Resilience Development

Eco Village Development in Bangladesh

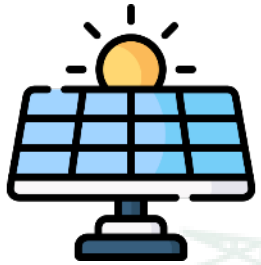
Abdul Arif
Project Manager
Grameen Shakti

Grameen Shakti


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

Development Activities

Major Domain



Clean Energy

Resilience Building

Gender Equality

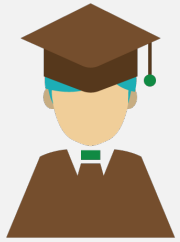
Climate Change Mitigation

Livelihood Improvement

What we do…

Project conceptualization and build-up for probable scale-up

Knowledge sharing and capacity building



Partnership with Academician/ Researcher for action research

Eco-Village Development

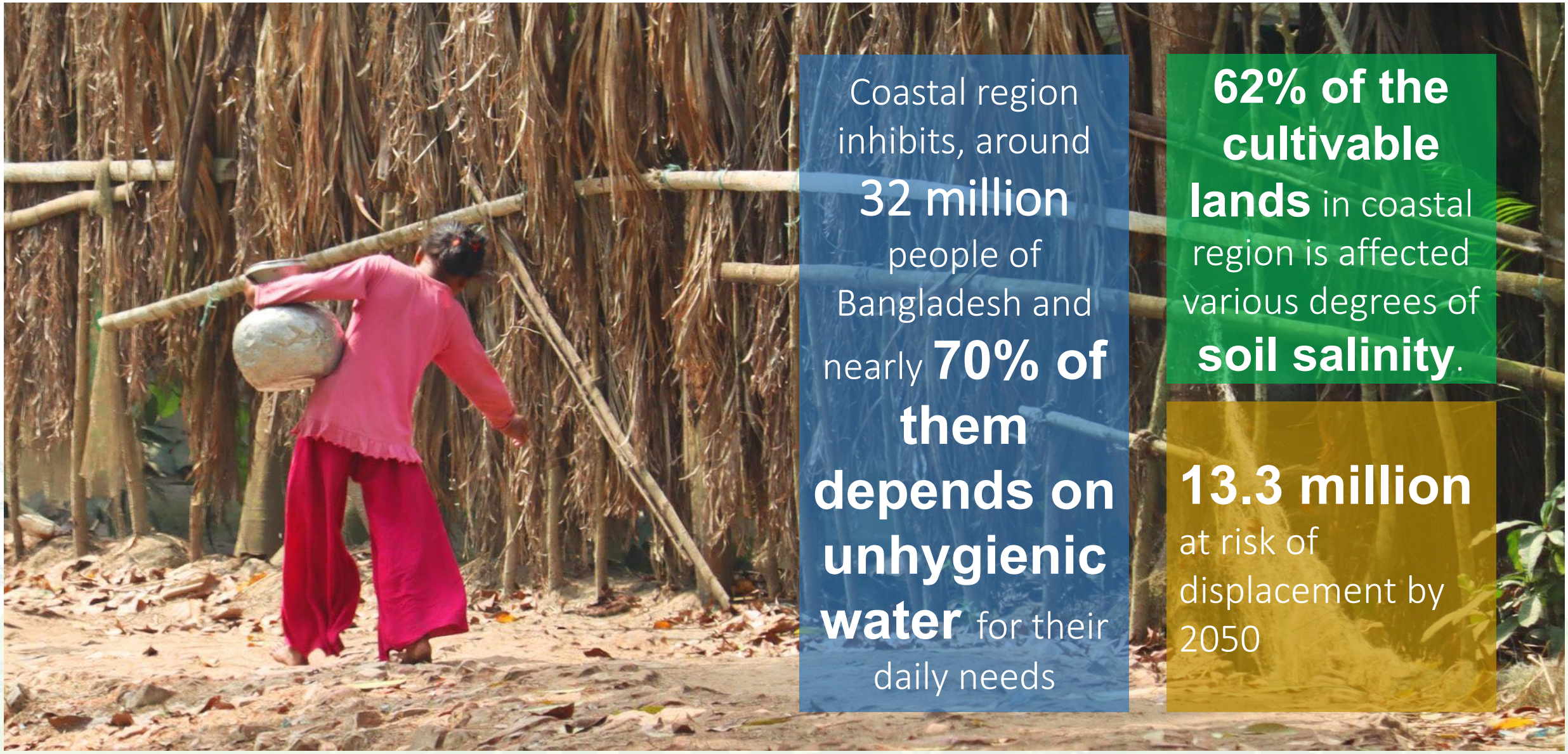
Approach

An integrated socio-economic development concept, in which Individual Solution combines in clusters to provide synergic benefit to the community

REGIONAL CONFERENCE

INCLUSIVE ENERGY TRANSITION IN SOUTH ASIA AND BEYOND

7–9 MAY 2024



Model Village : Majherchar, Mathbaria, Pirojpur

Population

Total: 800+
Male: Female = 52:48

Agricultural products

Rice, Pumpkins, Melons

Natural Resources

River, Forest, Sunshine

Major Economy

Fishing, Agriculture, remittance

Major Challenges

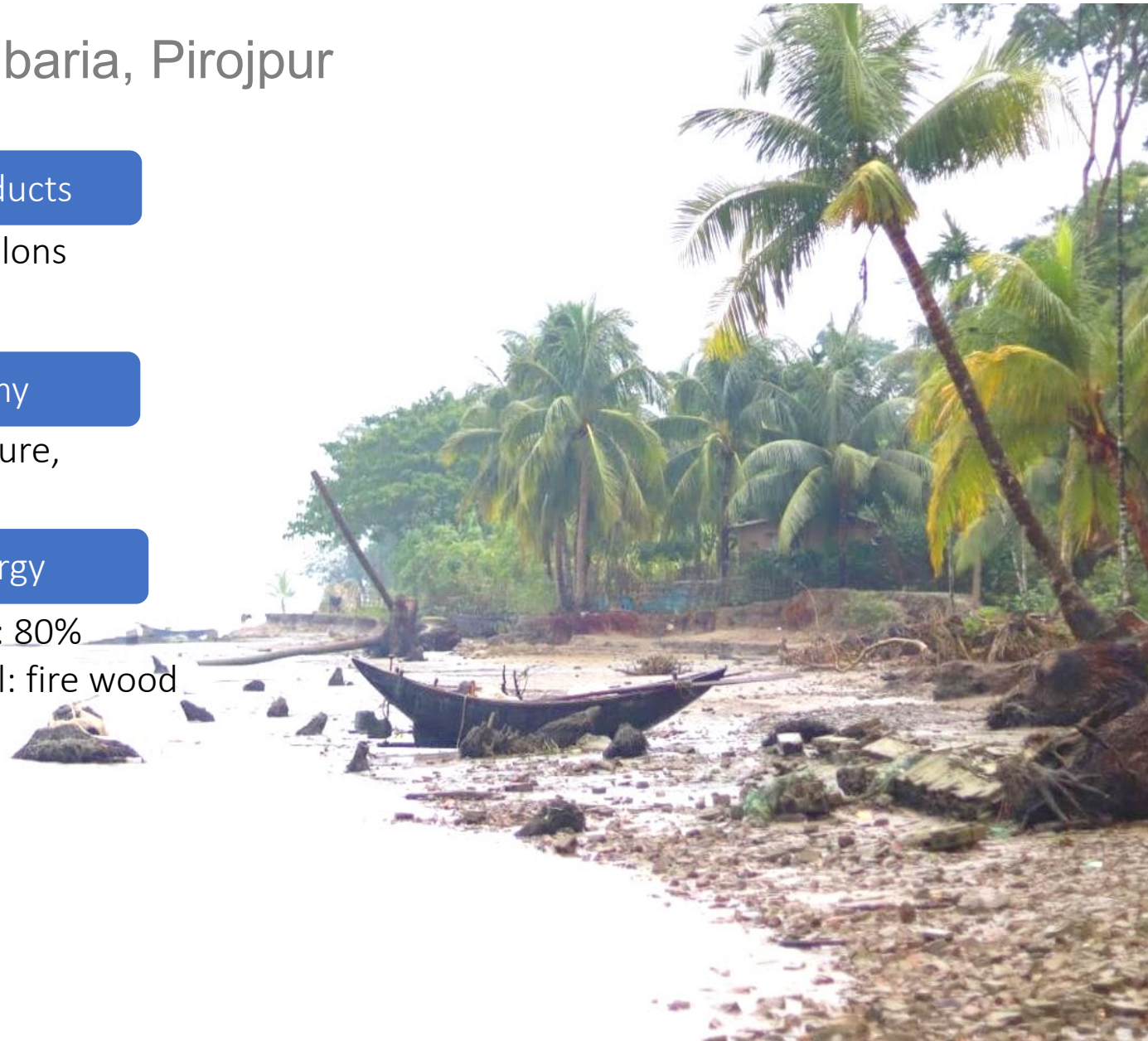
Salinity intrusion, Flood, cyclone

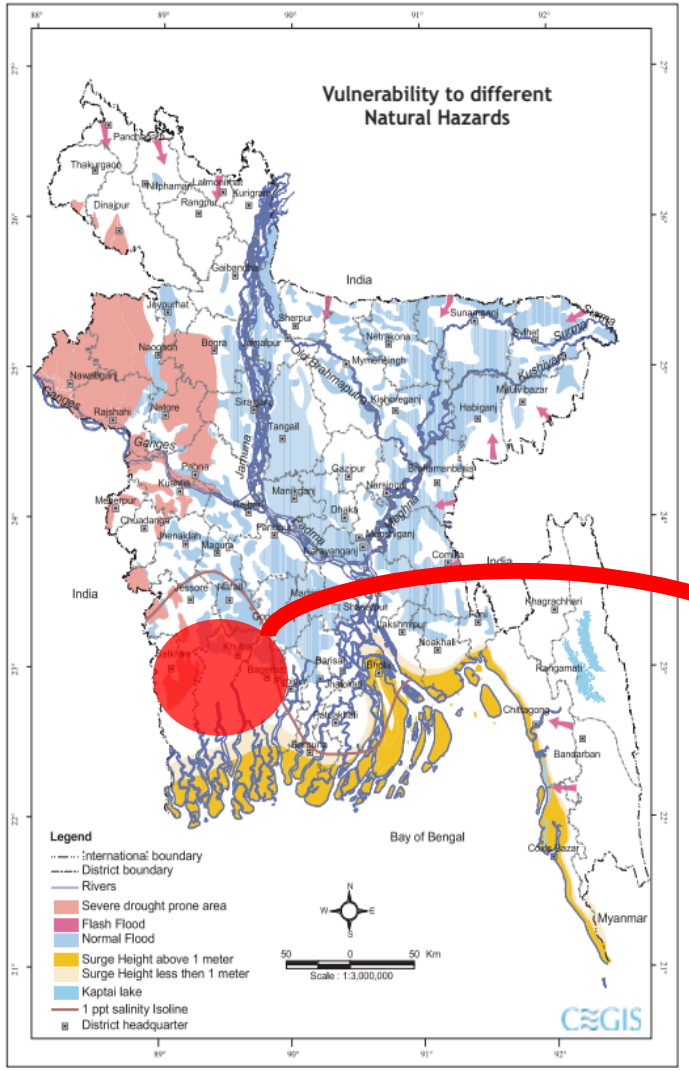
Access to Energy

Access to electricity: 80%
Primary cooking fuel: fire wood

Infrastructure

No permanent road, One cyclone Centre, one primary school, utility grid existing, no water supply system





Source: CEGIS, Dhaka.

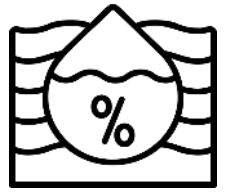
Village Development Plan (VDP)

- Bottom-up planning approach
- Participatory Rural Appraisal (PRA)
- Understanding the local context & issues, needs, gaps, resources, etc

Challenges

Lack of access to clean drinking water

Frequent Natural disaster (Flood and cyclone



Salinity Intrusion to the crop field

Lack of clean cooking

Limited access to electricity

Limited Livelihood resources

Access to Clean Drinking Water

Solution

1. Rain water harvesting System
2. Solar powered water filtration unit

- 10 Families have received Rain Water Harvesting System
- Gravity-driven water filter has been used to improve water quality
- Local Government has been advocated to fund more Rain Water Harvesting System
- Solar powered water filtration unit is under construction.

Access to Clean Cooking

Solution

1. Improved Cook Stove (single Burner)
2. Improved Cook Stove (Double Burner)
3. Biogas Plant

- Total 150 families has received Improved Cook Stove (single Burner & Double Burner Stoves)
- 3 Families are using biogas plant for daily cooking

Climate Resilient Organic Farming

Solution

1. Bamboo Made Slurry pit
2. Solar Powered Insect
3. Training for farmers on Climate smart farming

- low cost bamboo made slurry pits has been constructed
- The slurry produced in the slurry pit is used for organic farming
- Farmers of the village also received training on climate smart farming
- Farmers have been tagged with Govt Agricultural Official to get prompt support.

Ensuring Safety

Solution

1. Solar Street Light

- Solar street lights in key areas of Majher Char village, strategically positioned to enhance safety and security during the nighttime hours.
- These illuminations serve as a beacon of protection, particularly beneficial for the well-being of women
- Notably, during instances of natural disasters or power outages, these solar-offering a vital sense of direction and safety to the entire community.

Empowering women

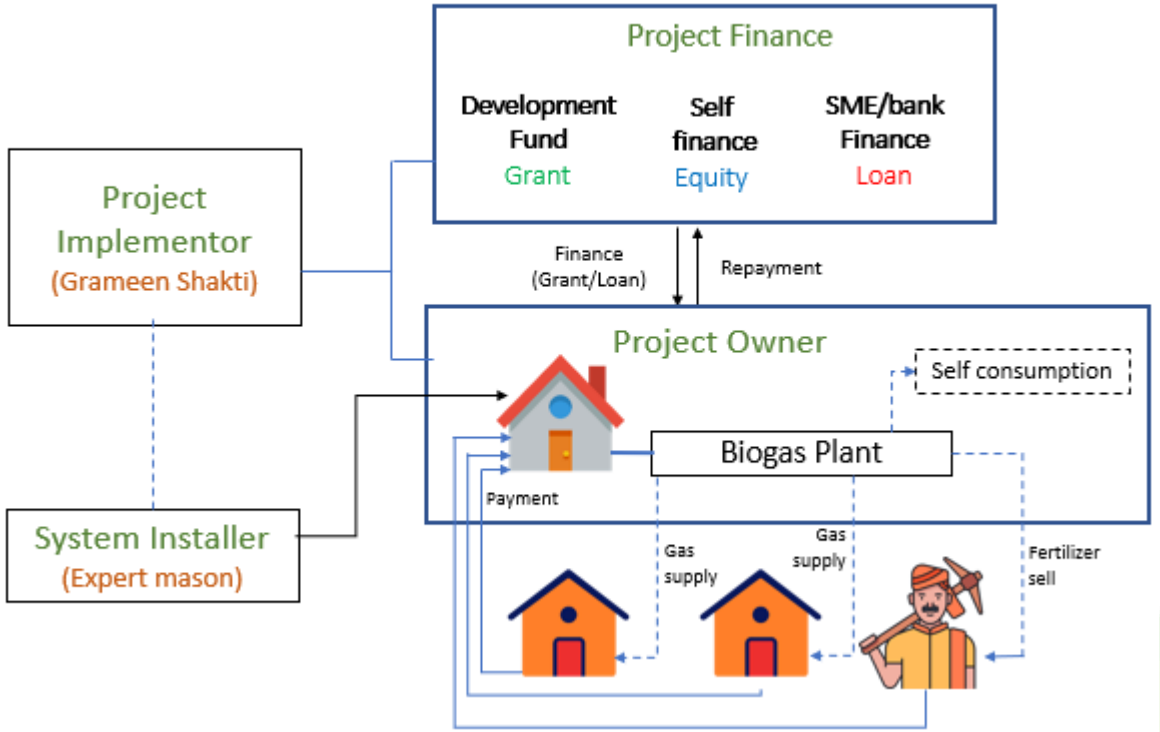
Solution

1. Solar Powered Sewing Machine

- Solar Powered Sewing Machine has been provided to the underprivileged women improve the livelihood

Financial Sustainability of the solutions

Grameen Shakti is developing and continuously improving a Social Enterprise Models for different climate solution to enhance their financial sustainability



Thank You!

Abdul Arif | abdul.arif@gshakti.org | 01717799212