



REGIONAL CONFERENCE

INCLUSIVE ENERGY TRANSITION IN SOUTH ASIA AND BEYOND

7–9 MAY 2024 • Galle, Sri Lanka





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Community Centered Resilience Development

Eco Village Development in Bangladesh

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Grameen Shakti



Grameen Shakti

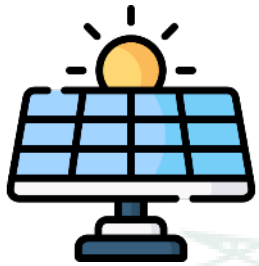
A portrait of Professor Muhammad Yunus, an elderly man with grey hair, smiling, wearing a dark brown vest over a light-colored shirt. The background is a dark grey gradient.

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

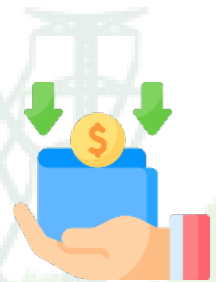
Major Domain



Clean Energy



Resilience Building



Livelihood Improvement



Gender Equality



Climate Change Mitigation

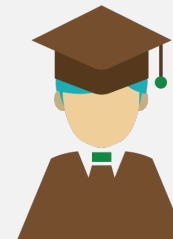
What we do...



Project conceptualization and build-up for probable scale-up



Knowledge sharing and capacity building

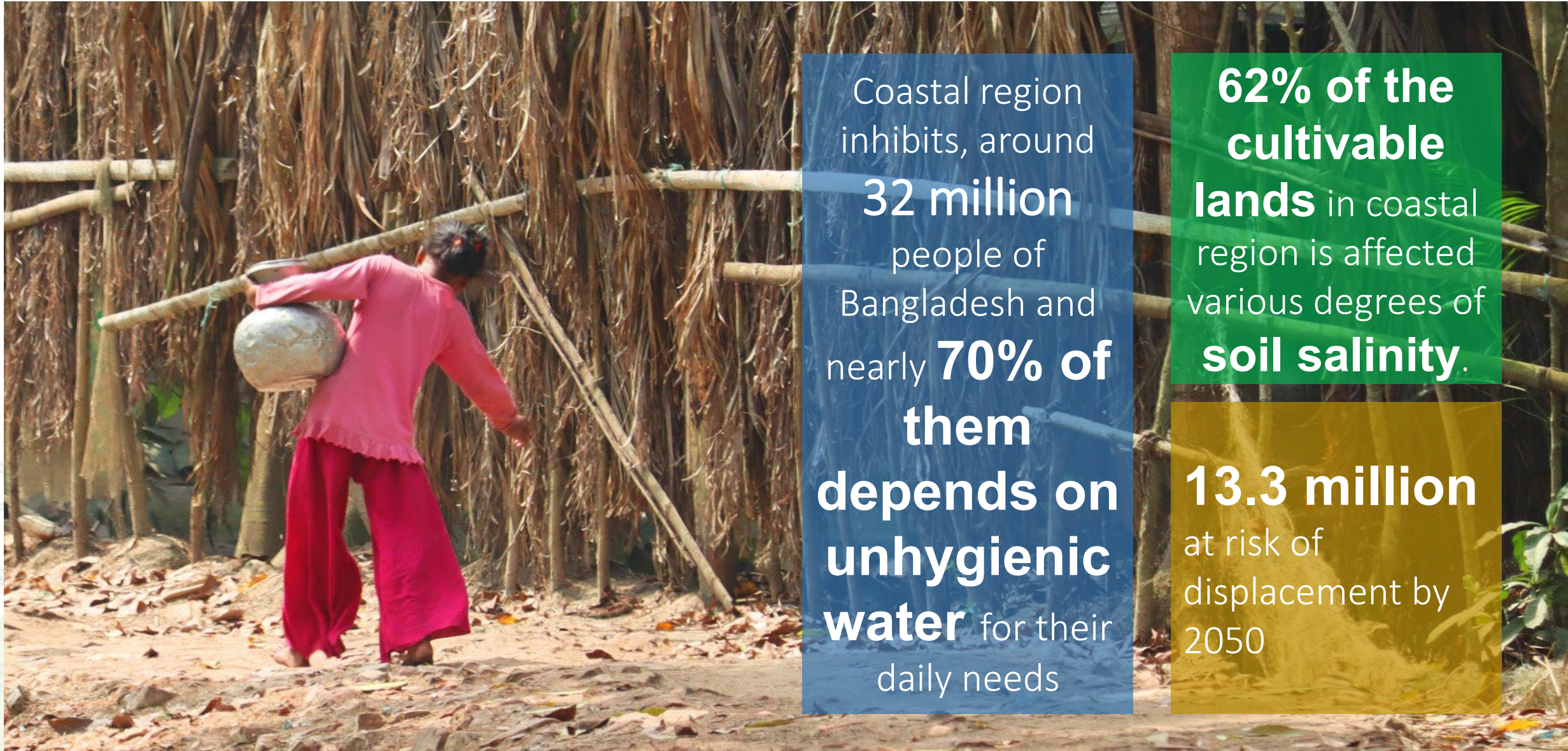


Partnership with Academician/ Researcher for action research

Eco-Village Development Approach

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

The background features a stylized illustration of an eco-village. On the left, there are high-voltage power lines and towers. In the center, there are several houses with gabled roofs. To the right of the houses, there are solar panels on a roof. Further right, there are industrial buildings with smokestacks. On the far right, there are three wind turbines. The entire scene is set against a light green and yellow background with a subtle pattern of small dots.



Coastal region
inhibits, around
32 million
people of
Bangladesh and
nearly **70% of**
them
depends on
unhygienic
water for their
daily needs

62% of the
cultivable
lands in coastal
region is affected
various degrees of
soil salinity.

13.3 million
at risk of
displacement by
2050

Model Village : Majherchar, Mathbaria, Pirojpur

Population

Total: 800+

Male: Female = 52:48

Natural Resources

River, Forest, Sunshine

Major Challenges

Salinity intrusion, Flood,
cyclone

Infrastructure

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

Agricultural products

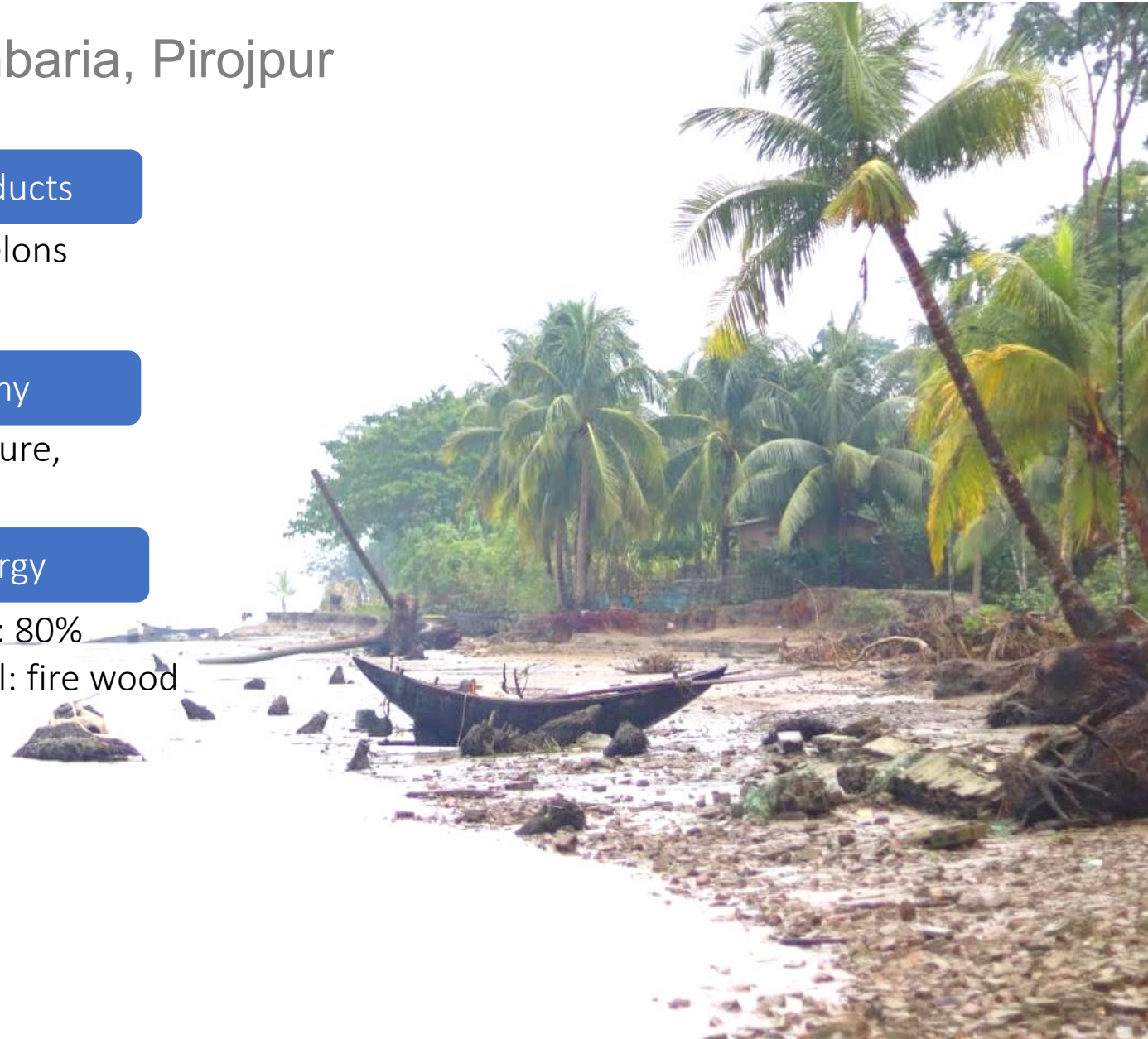
Rice, Pumpkins, Melons

Major Economy

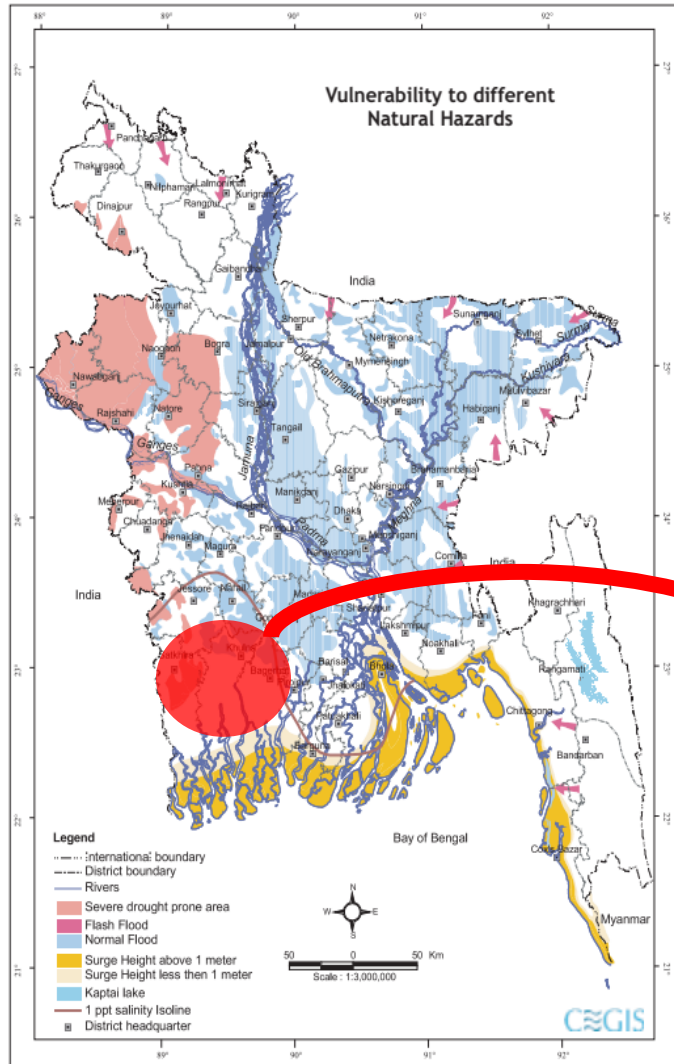
Fishing, Agriculture,
remittance

Access to Energy

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



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Village Development Plan (VDP)

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



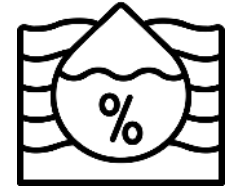
Challenges



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.



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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



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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

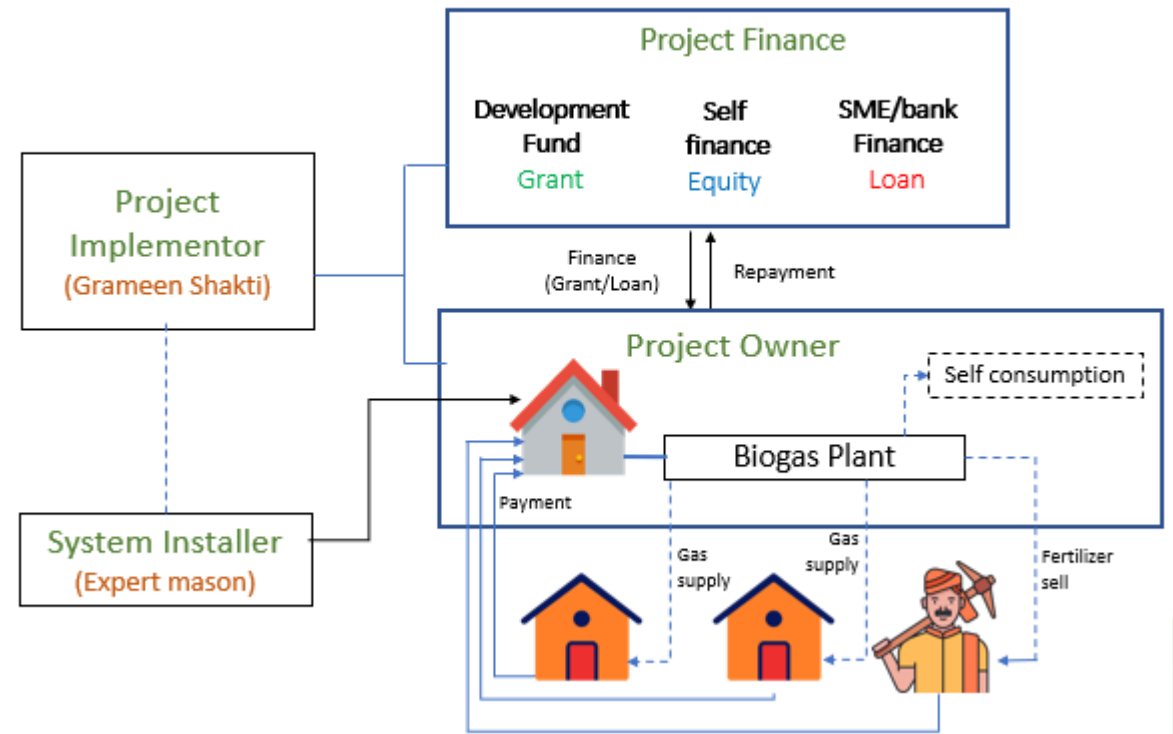
1. Solar Powered Sewing Machine

- 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



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Thank You!

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