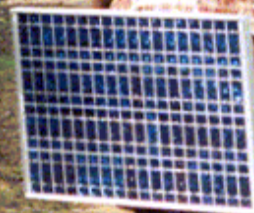


# Grameen Shakti : GESI in Practice

**Sohel Ahmed**  
Managing Director  
Grameen Shakti



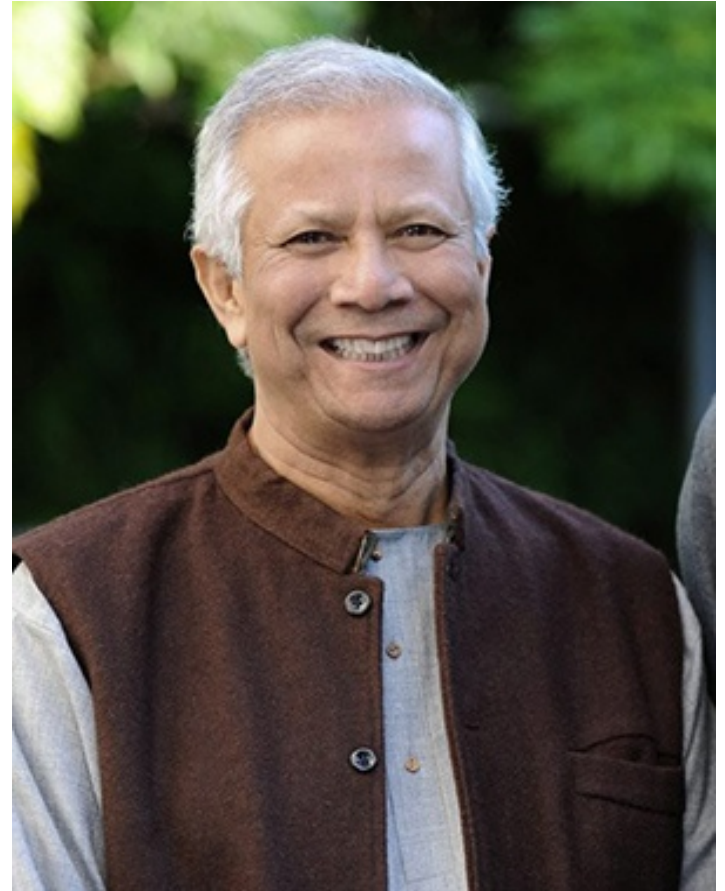
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**Inclusive Community Energy Resilience In Bangladesh**  
**Gazipur, Dhaka, 23-24 April 2019**



# Grameen Shakti

Grameen Shakti (GS) 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





# Who we are



# Key Milestones

## Solar Home System (SHS)



**1,80,0000**

units installed

**33%** Share  
in Bangladesh

**25%** Share  
In the World

## Improved cooking stove (ICS)



**1,000,000**

units installed

**35%** Share  
in Bangladesh

## Biogas Plant



**35,000**

units installed

**40%** Share  
in Bangladesh

# Emission Reduction

Sl. No	Renewable Energy Technologies	Number of Installation	Total annual fuel saving (kerosene in litre and solid wood in tonne)	Monetary per annum ( Million USD)	CO2 Reduction per annum (Tonne)
1	SHS	1,711,529	184,845,132	158	397,417
2	Biogas Plant	33,157	59,683	7	124,069
3	ICS	952,022	856,820	104	890,862
<b>Total</b>				<b>270</b>	<b>1,412,348</b>





# Gender Equality

## SHS

- Women's opinion prioritized SHS placement
- Women were trained to service SHS

## ICS/Bio-gas

- Women promoters for ICS & Biogas plants

## GTC

- Grameen Technology Centre (GTC) :  
optimizing technical skill of women in RE

## WePOWER

- Institution partner of WePower...a forum  
of World Bank promoting women in energy



# Grameen Technology Centre (GTC)



GTC was established with the objective of optimizing technical skill of women in RE, as well creating Energy Entrepreneur **(Completely Operated & Managed by Women)**

- Initiated in : 2006
- Total GTC : 46
- Women Engineers engaged : 150+
- Trained to Energy Entrepreneur : 3000+

# WePOWER

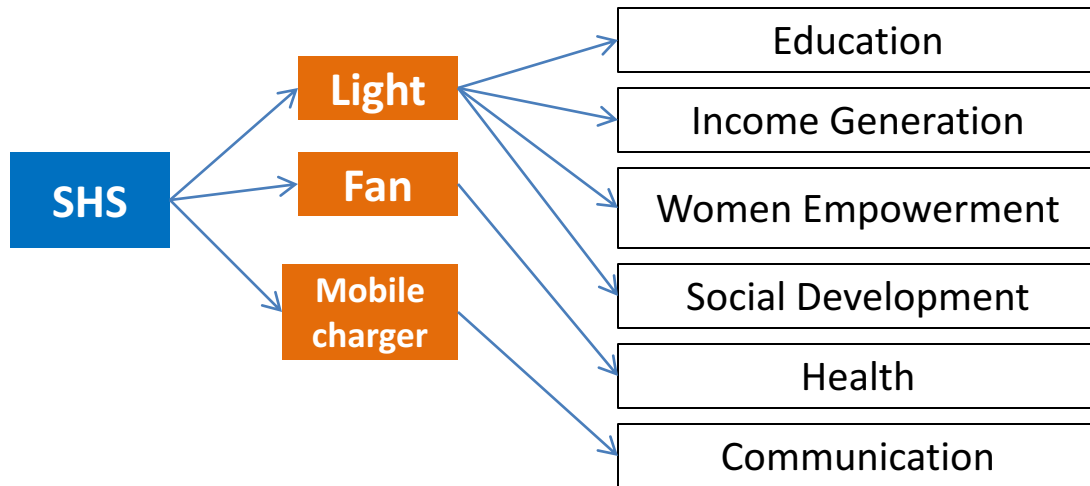
A forum, created by **World Bank** to promote and diversify female practitioners' opportunities in the power and energy sector

Grameen Shakti pledged to engage **175 women** in different activities

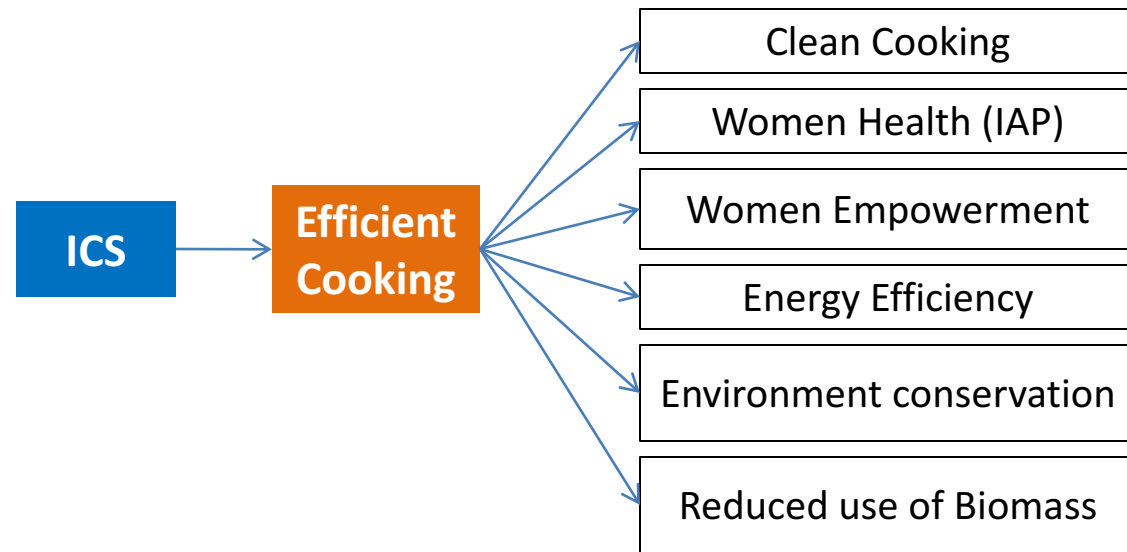




# Impact



# Impact





## Our New Developments



# Knowledge sharing & Consultancy



Project conceptualization and  
build-up for probable scale-up



Knowledge sharing  
and capacity building



Partnership with Academician/  
Researcher for action research



# Eco-Village Development(EVD)

- **Project Name** : Evidence based advocacy for low-carbon, pro-poor sustainable Eco-Village Development (EVD) in South Asia
- **Coordinated by** : DIB, Denmark
- **Supported by** : Climate and Environment Fund of civil society in development (CISU), Denmark
- **Implementing country** : India, Bangladesh, Nepal, Sri-Lanka



# UN DESA Project

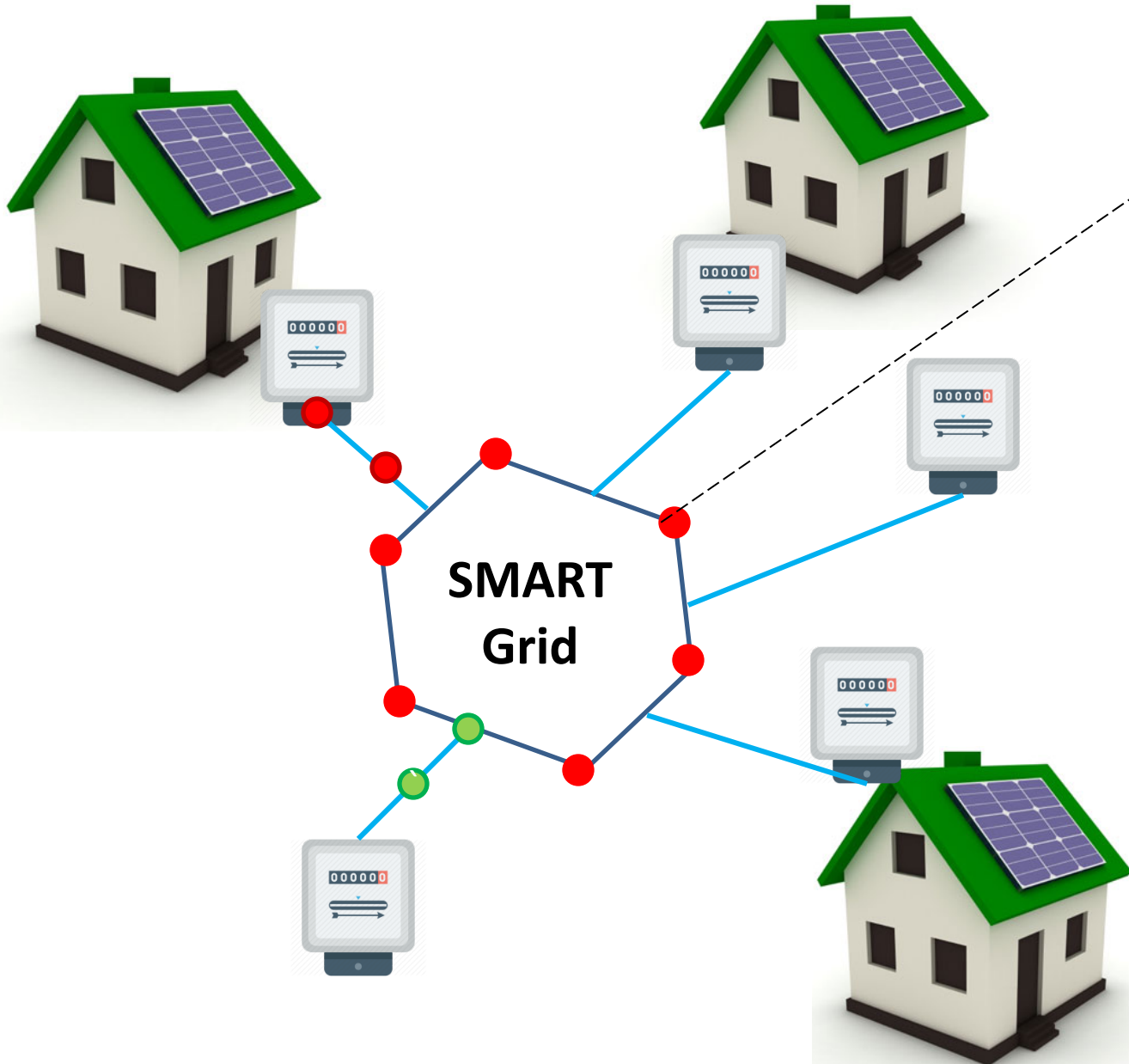
To promote innovative solutions and commitment in meeting the energy challenge, the United Nations Department of Economic and Social Affairs (UN-DESA), launched a programme titled **"Powering the Future We Want - Recognizing Leadership and Innovative Practices in Energy for Sustainable Development"**.



**Grameen Shakti & Me Solshare**  
Peer-to-Peer Solar Grid



# UN DESA Project



# UN DESA Project

**Project Lead** : Grameen Shakti/ SOLshare Partnership

**Timeline** : July , 2018 –June, 2020

**Budget** : US\$ 1 million

**Locations** : All over Bangladesh

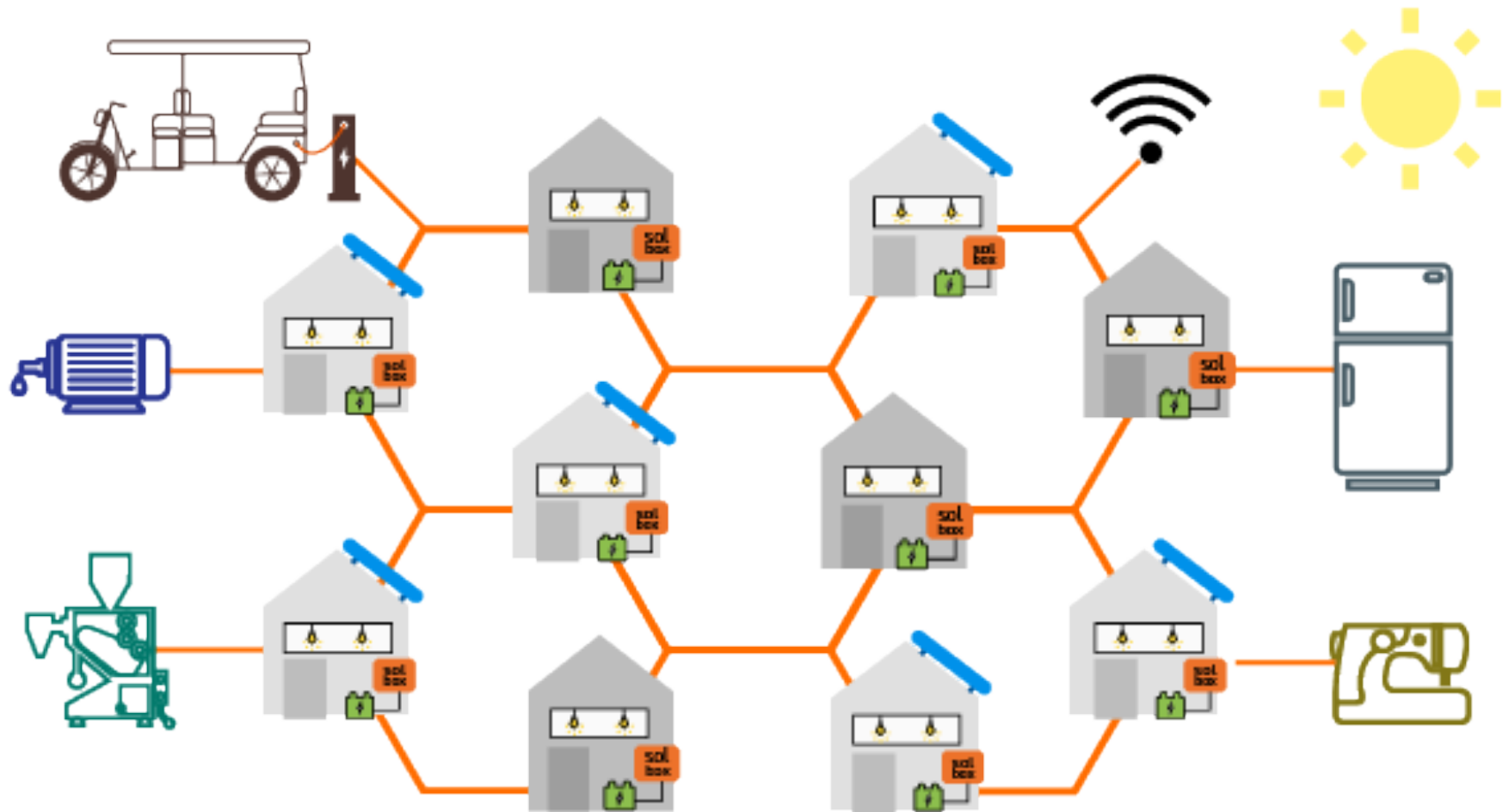
## Objectives:

1. Establish a minimum of **100 Smart Grids** (comprising min 30 HH) with field tested and validated hardware & software
2. Integration of Productive Energy User –**PEU Applications** for water supply and/or agricultural production, internet access, and e-bike charging
3. Development of sustainable **Business Concept** for value chain enabling commercial upscale
4. Development of inclusive **Business Models** for Productive Energy Use (PEU) microenterprises





# UN DESA Project



# Project Impact

- Paving new way for “Access to Energy”
- Innovation to existing technology
- Maximize installed SHS capacity
- Develop entrepreneurship



# THANK YOU

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