

## SDG-7: Ensure universal access to affordable, reliable, sustainable and modern energy for all

**Hasin Jahan**

Country Director, Practical Action

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### Throwback

- Sustainable Development Goals (SDGs) had been adopted with effect on 1 January 2016 with the aim to transform our world by 2030 leaving "No one to be left behind"
- The SDGs goals replacing the Millennium Development Goals (MDGs) which ended in 2015
- The SDGs cover a broad range of social & economic development issues applies for all the countries thus are universal call for "action to end poverty, protect the planet and ensure prosperity for all".

17 goals
169 targets
232 indicators



## The 17 SDGs . . .



### SDG 7: Ensure Universal access to affordable, reliable, sustainable and modern energy for all

#### Unfolding SDG 7...

**Ensure Universal access to affordable, reliable, sustainable, and modern energy for all**

- ✓ **Affordability:** raising income levels hence all can purchase power
- ✓ **Reliability:** 100% electricity access to all by 24/7.
- ✓ **Modern:** ensure reliably and affordably together
- ✓ **Sustainability:** meets the needs of present generations without compromising the future

References: <https://sustainabledevelopment.un.org/sdg7>





## SDG 7: Goals and targets

**Ensure Universal access to affordable, reliable, sustainable and modern energy for all**

Targets:

7.1

By 2030, ensure universal access to affordable, reliable and modern energy services

7.2

By 2030, increase substantially the share of renewable energy in the global energy mix

7.3

By 2030, double the global rate of improvement in energy efficiency

References: <https://sustainabledevelopment.un.org/sdg7>



## How to get into the goal 7

We need energy in different forms:

- Energy for electricity (households, institutions, industries, hospitals etc.)
- Energy for cooking
- Energy for fuel for transports
- ✓ Enhance affordability and reliability to offer modern energy supply we have to **expand access to Electricity**
- ✓ Introduce advanced technologies and promote clean fuel for cooking
- ✓ Improve energy efficiency (CFL bulb to LED)
- ✓ Increase the share of renewable energy for sustainability in the long run



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## Government few major initiatives towards achieving SDG-7

- Government of Bangladesh has declared “Vision 2021” to will ensure access of quality electricity to all people at an affordable price by 2021
- GoB targeted to increase installed capacity of 24,000 MW by 2021
- Government has opened a wing to promote clean fuel for cooking through the “Household Energy Platform” under SREDA and distributed around 1.8 million ICS distributed against a target of replacing 30 million ICS by 2030
- GoB announced a Renewable Energy Policy (2009) and established Sustainable and Renewable Energy Development Authority (SREDA) on 2014 targeting increasing the renewable energy share to 10% (2,000 MW) by 2020
- GoB is promoting solar irrigation, solar minigrid/micro-grid, solar rooftop tying up different projects or infrastructures like health centers, Union Information Centres (UICs), off-grid railway stations etc.

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## Government few major initiatives towards achieving SDG-7 (cont.)

- Upto June 2017 total electricity generation from Renewable energy is around 500MW
- “Energy Efficiency Master Plan up to 2030” has been prepared which is under approval process
- The government of Bangladesh has fixed target for saving 15% per GDP energy consumption by 2021 through
  - ✓ Replacement of conventional street lights by LED Light
  - ✓ Gradual replacement of inefficient Brick Kiln to efficient Brick Kiln
  - ✓ Promoting awareness among students for energy saving
- Government has formed the “Power and Energy Research Council (EPRC)” on 2015 for applied research on Energy and Power
- The Government of Bangladesh (GoB) has taken a good number of initiatives for electrification of rural off grid areas and islands.



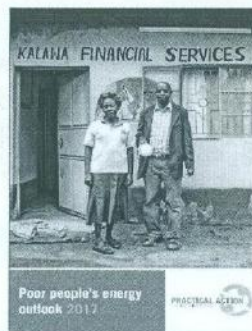


## Few related experience of Practical Action

- Practical Action has global and national level initiatives on Energy
- We call for 'Total Energy Access' (TEA)



## Global publication: Poor people's energy outlook series




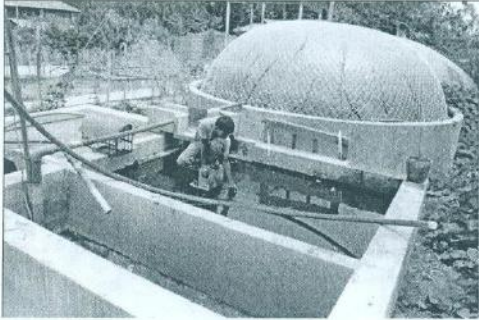
References: <https://policy.practicalaction.org/policy-themes/energy/poor-peoples-energy-outlook>



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### Project initiatives in Bangladesh



Conversion of waste into biogas



Municipal waste has been collected and turned into biogas and compost. The gas has been supplied to 20 households through pipeline

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### Project initiatives in Bangladesh

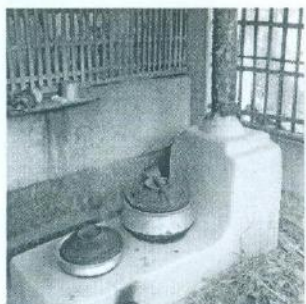


Demonstration of various use of Biogas (i.e. cooking, irrigation, threshing )

PRACTICAL ACTION  
Technology Training Centre



## Project initiatives in Bangladesh



Disseminate and developed Entrepreneur model of ICS & Hood stoves in the north west and south west region of Bangladesh.



Demonstration of energy efficient brickmaking technologies (VSBK, Internal fuel) to reduce Environmental pollution in brick sector.

Carbon reduction: 15 lac tons/yr (potential)



## Policy advocacy initiatives

- We are supporting SREDA to formulation "Biogas to Energy/Electricity" Guideline
- We are developing Guidelines for managing e-waste generated from Solar PV system in collaboration with Institute of Energy, DU
- Research on mobile phone refabrication