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- CDM initiatives have been undertaken
 - 8 projects approved by DNA
 - 4 registered at CDM Executive Board
 - 3 has gone into implementation
 - 3 are in the pipeline
 - Additional 8 has submitted Prior Consideration form
- BOCM is being promoted by Japan recently
 - Initial Target sector – power (CCGT to be installed)

Power Sector

- Government is committed for providing electricity to all by 2021
- Generation capacity will be 37,000 MW by 2030; out of which
 - 16,000 MW from imported coal
 - 5,000 MW from nuclear power and
 - 3,000 MW from regional grid of India, Nepal, Bhutan and Myanmar.

Energy Savings Programme

- Govt. has undertaken energy savings programs along with power generation;
- Under the “Efficient Lighting Initiative of Bangladesh” Govt. has distributed 10.5 million CFLs (23W & 14W) to 4.5 mn. consumers at free of cost in two phases (June & October 2010)
- It is observed that 90.14 MW demand reduced after 1st phase distribution (5.5 million CFLs) and 158.04 MW demand reduced after 2nd phase distribution (5.0 million CFLs)
- Solar LED Street Lighting Programme in 6 City Corporations, with a total capacity of 10 MW



Installation of Mini Grid Solar Power System

- Scope

- 1000 Solar Mini Grids will be installed in growth centers and cluster villages
- Average capacity of each solar mini grid is 25 kW
- Each system will cover 100-125 households
- Total Capacity: 50 MW
- Implementation through Partner Organizations - IDCOL
- Expected to be implemented as a CDM project.

Achievement

Category	Achievement
SHS	45 MW 900,000 units
Other Solar PV Applications	1 MW
Biogas based electricity	1 MW
Others	1 MW
Total	48 MW

Under 2 CDM projects 1.026 million SHS will be distributed in off-grid areas



Policy initiatives of the Government

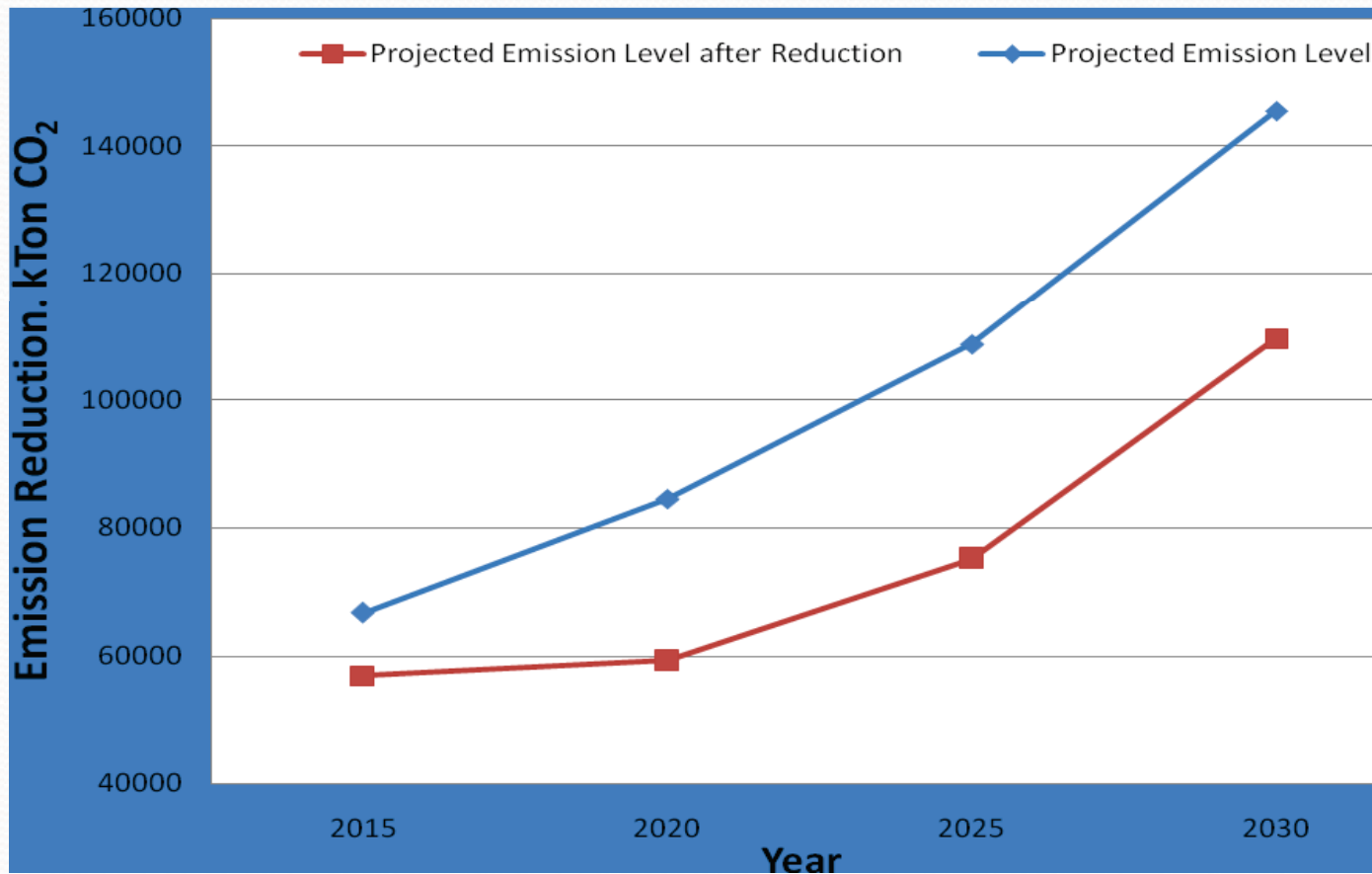
- In 2008 government adopted Renewable Energy Policy.
- 5% of total power generation from renewable sources by 2015
- A Government Order has been issued to ensure that a portion of electricity in government buildings will be from solar PV, and in the 2nd phase it will be extended to private apartment blocks and commercial buildings.
- To make the solar home systems affordable and popular Government has exempted income tax since 2009 for next five years from commercial production from renewable energy.



Options for Piloting in SNC for Mitigation

- In terms of GHG potential and impact the following five options are significant, and these may be taken up as initial case studies through piloting:
 - CCGT to replace Steam Turbine (ST) power plant
 - More efficient and less polluting brick kilns
 - Efficient Parboilers
 - Supercritical boilers for new coal fired power plants
 - Solar PV pumps to replace Shallow Tubewells for irrigation

GHG Emissions under Baseline and the Mitigation Scenarios



Fixed Chimney Kiln (FCK)



HOFFMAN KILN – Coal Fired: 25-35% more efficient than FCK



Agricultural: PV Irrigation

- There are more than 0.5 million irrigation pumps of all types in Bangladesh (40% electric; 60% diesel)
- Seasonal demand of 1500 MW from January to April. Solar irrigation can alleviate the problem significantly as well as save fossil fuel
- REB project to install 20 solar PV pumps as a pilot
- Government is very keen on this idea, and is actively looking for bilateral and multilateral funding

Solar Irrigation



Efficiency Improvement in Parboiling

- GIZ has an ongoing project to increase the efficiency of parboiling boilers
- Efficiency improvements between 25 and 50% possible
- Will save 2-4 million tons of rice husk, which can be used to generate electricity (> 100 MW)



Rice Parboiling



Financing the Bangladesh Climate Change Strategy and Action Plan

- Government has already allocated USD 300 million, 100 million each in 2009-2010, 2010-2011 and 2011-2012 to implement both adaptation and mitigation related projects.
- On the other hand, 'Bangladesh Climate Change Resilient Fund' has also been established with the support of several development partners and bilateral funding agencies with initial contribution of around USD 170 million.



Way Forward

- Bangladesh is seeking support from international community under UNFCCC in terms of funding and technology cooperation for preparation and implementation of Nationally Appropriate Mitigation Actions (NAMA)/Low Carbon Development Path.



Thank You.