

BREB's Renewable Energy Program

Government of The Peoples Republic of Bangladesh vision 2021 is to provide Sustainable, Affordable, Uninterrupted electricity for all from urban to rural areas. Electricity is the one of main parameter for development of a country. Majority of the electricity is generated from fossil fuel which is limited by nature and contribute to climate change by emitting carbon-dioxide other harmful gases. For our next generation it is necessary to mitigate climate change, carbon emission, natural disaster, low uses of fossil fuel etc. Public awareness, maximum advertisement, modern & electricity saving equipment use is necessary. The necessity of renewable energy is known to all. To make governments vision a reality Bangladesh Rural Electrification Board (BREB) is working with its excellence in line with the government directives.

BREB has started its program in 1978. From starting to now a day BREB is working to achieved 100% Electrification with "Allor Feriowala" banner. Beside this BREB introduced Solar Home System (SHS) for the first time in Bangladesh in 1993 through the project "Diffusion of Renewable Energy technologies" aided by France.

BREB has installed 53,762 nos. Solar Home Systems (SHSs) & Solar rooftop systems under 80 PBS commanding area; 37 nos. rooftop/hybrid type rooftop solar power plants; 40 nos. solar powered irrigation pumps; 14 nos. Solar Charging Station. & 100 nos Net Metering system. The total capacity of the installed plants are about 17.608 MWp. The main objective of BREB Renewable Energy program is piloting new type of renewable energy projects in the context of grid power limitations & promoting the uses of alternatives energy source. Considering the financial concept of PBS i.e. "No profit, No Loss" and cost effectiveness of solar Systems, grant financing from development partners on renewable energy projects are always preferable.

There are thousands of rechargeable battery operated vehicles like Auto Ricksha, Easy Bike, etc in our country. By the directives of our Honorable Prime Minister BREB has installed 14 nos Solar Charging Stations at 14 nos different PBS's. to save grid electricity.

To increase the use & sell the excess (unnecessary) Renewable Energy by the consumer (named Prosumer) is the main objective of Net Metering. BREB has installed 100 nos Net Metering at 18 PBS areas of which Panel capacity is 6.762 MWp. June-2019 Total Generation 7,51,613 kWh of Solar energy from 100 Net Metering System and Upto June-2019 Total 1,84,951 kWh Solar energy has export to grid. Under BREB the high capacity of Net Metering System are SF Textile Ltd.(Narayanganj PBS-1) 1.770 MWp, Far East Industries Ltd.(Hobiganj PBS) 1.100 MWp, Raising Industries Ltd.(Manikganj PBS) 1.000 MWp. All Net Metering System reduced Prosumer's Electricity Bill & they are profitable. Any one can established the Net Metering System to his Residence, Commercial & Industries followed by the Net Metering guidelines directives.

Summary of Installed Solar PV System with Capacity (17.608MWp):

Sl. No	Description of the System	Quantity Installed(Nos)	Installed Capacity(kWp)
1.	SHS Installed by BREB under different projects	15250	825.00

2.	Solar rooftop system against PBS new consumer connection as per govt. rules (up to 30.06.2019)	38,512	8,935.613
3.	BREB H/Q Training Academy Building	01	49.00
4.	Solar Plant at Different PBS H/Q & Z/O	21	44.412
5.	Solar Plant at Upazilla Complex	15	450.00
6.	Solar Powered Irrigation Pump	40	239.00
7.	Solar Charging Station at different PBS	14	303.00
8.	Net Metering System	100	6,762.00
Total Installed Capacity of PV Solar System			17,608.025 kWp

BREB is going to establishment “Solar Photovoltaic Pumping for Agricultural Irrigation Project” to install 2000 Solar Irrigation pump through ADB & GoB fund.

Following the directives of Government BREB has intend to establish On-Grid Rooftop Solar Plant at 76 Palli Biddut Samity H/Q building. Out of them as per pilot project 1st phase 11 nos. On-Grid Rooftop Solar Plants are under processing. Beside this a list of 75,407nos. Educational Institutions under commanding area of 80 PBS are submitted to Power Division for establishment On-Grid Rooftop Solar Plants.

BREB also plays participatory role in policy framing and project implementation of renewable energy program. Above all, in line with government’s commitment to provide electricity to all by 2021 and to address programs for achieving Sustainable Development Goals, BREB is vigilant to move forward and combat all challenges as well as climate change issues.