

### **Future Planning of BREB**

Govt. of Bangladesh emphasized top priority to accelerate the pace of electrification program throughout the country. It is also a **constitutional obligation** to provide electric power in the rural areas. **Bangladesh Rural Electrification Board (BREB)** has been established as a vital institution to help in improving the quality of life of the vast rural multitudes and accomplish continuous advancement to their socio economic conditions through supply of stable and reliable electric power to the rural areas of the country as well as to fulfill the constitutional right of the people to have electricity. Government of Bangladesh's vision on the Power Sector is **"To provide access to affordable and reliable electricity to all by the year 2021"**. GoB's five year plan emphasizes the importance of electricity for generating employment opportunities.. Without improved electricity coverage, particularly in rural areas, Bangladesh cannot achieve five year plan.

Within 2021 BREB has a target to achieve 100% (5.20 lakh km. distribution line)electricity in the rural areas of Bangladesh. Up to June 2019, BREB has constructed 4.77 lakh km. electricity distribution line and in the upcoming years BREB will construct the remaining 0.43 lakh km. distribution line to achieve this goal.

In 2021, 2030 and 2041 the demand of electricity of rural areas in Bangladesh will be respectively 9500 MW, 19000 MW and 36000 MW. To fulfill this upcoming demand BREB are implementing 9 (Nine) projects which are constructing, upgrading, intensifying, rehabilitant new and old substations. And also in the upcoming years BREB will construct more new substations and will upgrade, intensify or rehabilitate the old existing substations to increase the capacity through the new projects.

World Bank has already appointed NRECA for the justificationof the BREB's following proposal to implement in the upcoming years through the new projects which may finance by World Bank.

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| ▪ Construction of 33 KV Line (New)       | : | 5040 km. |
| ▪ Up-gradation of 33 KV Line             | : | 1180 km. |
| ▪ Construction of 33 KV Underground Line | : | 290 km.  |
| ▪ Construction of 33 KV Sub-marine Cable | : | 50 km    |

▪ Construction of 11 KV Line (New/Up-gradation)	:	21000	km.
▪ Insulated Conductor	:	160	km.
▪ Conversion of LT to HT Line	:	19000	km.
▪ Construction of 11 KV Underground Line	:	60	km.
▪ 33/11 KV new (GIS/AIS) Sub-station (850, 1300, 1300& 2400 MVA = 5850 MVA)	:	220	Nos.
▪ 33/11 KV Sub-station Augmentation(GIS) (450, 700, 450, 450 MVA = 2050 MVA)	:	195	Nos.
▪ Construction of River Crossing Tower	:	44	Nos

Government of Bangladesh has a plan to install pre-payment meter all over the country. Regarding this goal BREB is already implementing a project which installing 10 Lakh smart pre-payment meters. In the upcoming years competing with this agenda, BREB has already proposed a new project which will install 31 Lac smart pre-payment meters.

In the upcoming years BREB will install a new type of electricity distribution system named “ Underground electricity Distribution System”. At Dhaka PBS-4, the whole overhead distribution line of this PBS will be converted by the Underground system through a new project in next five years.

Sub-stations of the BREB, will be updated by SCADA and smart-grid system in the next five years. BREB has already completed some feasibility to take some projects for updating the sub-stations.