শেখ হাসিনার উদ্যোগ ঘরে ঘরে বিদ্যুৎ

মুজিব শতবর্ষ MUJIB 100

# ANNUAL REPORT
# 2019-2020

বাংলাদেশ বিদ্যুৎ উন্নয়ন বোর্ড

## Bangladesh Power Development Board

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## Bangladesh Power Development Board

# BANGLADESH POWER DEVELOPMENT BOARD

## Vision

To deliver uninterrupted quality power to all.

## Mission

To secure continuous growth of electricity for sustainable development and ensure customer satisfaction.

## Objectives

- To be engaged in implementing the development program of the government in the power sector;
- To adopt modern technology and ensure optimum utilization of the primary and alternative source of fuel for sustainable development of power generation projects;
- To purchase power as a Single Buyer from power producers;
- To provide reliable power supply to customers enabling socio economic development;
- To promote a work culture, team spirit and inventiveness to overcome challenges;
- To promote ideas, talent and value systems for employees.

# From the desk of Chairman

This is a pleasent opportunity for me to present the Annual Report of Bangladesh Power Development Board (BPDB) for the financial year 2019-2020. BPDB annual reports have been providing financial and technical information of the organisation and overall brief power scenario of the country as well. This report presents fiscal data of BPDB which includes generation, transmission, distribution, planning & development, financial and organisational outline and also other relevent activities.

Since January 2009, over 17,000 MW capacity was added to the national grid. BPDB also prepared a plan for addition of 22,000 MW generation capacity within the year 2020 to 2025. At present 43 power generation projects of capacity 15,294 MW are under construction.

During the year under report 1,773 MW new capacity was added to the national grid raising the total generation capacity to 20,383 MW and annual increment was 7.50%. Out of this new capacity BPDB's addition was 1,033 MW (including IPP).

Total revenue collection during the said year also increased to 3,37,846 MTk from 3,32,294 MTk which is 1.64% higher than the previous year. Distribution system loss of BPDB also came down to 8.99% from 9.12% of previous year.

BPDB has been functioning as a single buyer in the power market of Bangladesh. It leads the whole power sector generation planning and implementation of short, medium & long term generation to mitigate power demand of the country.

At present generation scenario of the country has become healthy. Now we have to work to make a stable transmission and distribution system. Consumer service is a major field where we should now focus on because customer satisfaction is one of the key indicators of a improved power distribution system. We are committed to developing a agile workforce to provide smart consumer service. BPDB has an innovation team and every year new ideas and innovations are being implemented in the organisation.

After achieving the target of Millennium Development Goal (MDG) successfully Bangladesh is now set to fulfill the conditions of Sustainable Development Goal (SDG) which will help us to become a middle income country soon and afterward a developed country. While we recognize additional challenges, we continue to use those as opportunities. We are focused on the future, and the future looks bright.

I hope this annual report would be a great help to those who are interested in power sector.

**Md. Belayet Hossain**
Chairman
Bangladesh Power Development Board


Hon'ble Prime Minister Sheikh Hasina inaugurating seven newly constructed Power Plants and 100% electrification of 23 Upazila through video conference from Ganabhaban

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# Board
(October, 2020)

**Md. Belayet Hossain**
Chairman

**Md. Zahurul Haque**
Member (Administration)

**Selim Abed**
Member (Finance)

**Mustaque Muhammad**
Member (P & D)

**Md. Zakir Hossain**
Member (Generation)

**Nurun Nahar Begum**
Member (Company Affairs)

**A. B. M Abdullah**
Member (Distribution)

# About BPDB

Bangladesh Power Development Board (BPDB) is a statutory body created in May 31, 1972 by Presidential Order No. 59 after bifurcation of erstwhile Bangladesh Water and Power Development Authority. BPDB had started its operation with generation capacity of only 500 MW. In its 48 years' service, the installed capacity of the country increased to 20,383 MW at the end of the FY 2019-2020.

As part of reform and restructuring, transmission was vertically separated as a subsidiary of BPDB and distribution was horizontally separated to create new distribution entities in capital city (DPDC & DESCO) and rural areas (REB). Further, a number of generation and urban distribution companies were created as a subsidiary of BPDB. The subsidiaries of BPDB are:

- Ashuganj Power Station Company Ltd. (APSCL)
- Electricity Generation Company of Bangladesh Ltd. (EGCB)
- North West Power Generation Company Ltd. (NWPGCL)
- Power Grid Company of Bangladesh Ltd. (PGCB)
- West Zone Power Distribution Company Ltd. (WZPDCL)
- Northern Electricity Supply company Ltd. (NESCO)

BPDB also fromed Joint Venture with other Organization/Company as part of continuous development of power sector. The JV with BPDB are:

- BR Power Gen Ltd. (JV of BPDB & RPCL).
- Bangladesh-India Friendship Power Company (Pvt.) Ltd. (BIFPCL) (JV of BPDB & NTPC, India).
- Bay of Bengal Power Company (Pvt.) Ltd. (BBPCL) (JV of BPDB & CHDHK, China).

BPDB is under the Power Division of the Ministry of Power, Energy and Mineral Resources, Government of Bangladesh. Key responsibilities of the Board are:

- Generation of electricity from its own Power Plants.
- Power purchase from Public & Private Generation companies as a single buyer.
- Bulk sales of electricity to Utilities as a single buyer.
- Retail sales of electricity within its Four Distribution Zones.
- Preparation of Generation and Distribution Expansion Plan.
- Implementation of Generation & Distribution Projects as approved by the Government.

BPDB prepared generation expansion plan to add about 21,977 MW from 2020 to 2025 with the aim to provide quality and reliable electricity to the all people across the country for desired economic growth and social development. BPDB also prepared distribution expansion plan to keep pace with the growing demand.

During the Financial Year under report (2019-20) Chairman and Members of the Board:

### Chairman
Mr. Khaled Mahmood (Upto 25.12.19)
Mr. Sayeed Ahmed (From 26.12.19 to 30.01.20)
Mr. Md. Zahurul Haque (Addl. Ch.) (From 30.01.20 to 12.02.20)
Mr. Md. Belayet Hossian (From 13.02.20)

### Member (Administration)
Mr. Md. Zahurul Haque

### Member (Finance)
Mr. Selim Abed

### Member (Generation)
Mr. Sayeed Ahmed (Upto 30.12.19)
Mr. Md. Belayet Hossain (From 31.12.19 to 12.02.20)
Mr. Md. Zakir Hossain (From 13.02.20)

### Member (Distribution)
Mr. Md. Abu Taher (Upto 07.08.19)
Mr. Md. Abdul Mottalib (From 07.08.19 to 29.12.19)
Mr. Mustaque Muhammad (From 30.12.19 to 30.01.20)
Mr. Md. Kausar Ameer Ali (From 30.01.20 to 11.03.20)
Mr. Mustaque Muhammad (From 12.03.20)

### Member (Planing & Development)
Mr. Md. Azharul Islam (Upto 30.01.20)
Mr. Mustaque Muhammad (From 30.01.20)

### Member (Company Affairs)
Mr. Md. Mustafizur Rahman (Upto 31.12.19)
Mr. Md. Zakir Hossain (From 31.12.19 to 10.03.20)
Mrs. Nurun Nahar Begum (From 10.03.20)

# HIGHLIGHTS

Power sector witnessed significant progress in power generation in the fiscal year 2019-20. During this fiscal year 1,773 MW new capacity added which raised the total generation capacity to 20,383 MW and annual increment of generation capacity was 7.50% Out of this new capacity addition, BPDB installed 1,033 MW (including contracted capacity of IPPs) and the remaining 118 MW was installed by EGCB, 622 MW was installed by BCPCL (JV of NWPGCL & CMC china) . The highest peak generation was 12,738 MW and the total energy generated 71,419 GWh which was 1.20% lower and 1.26% higher than the previous year respectively.

Electricity Demand growing day by day. In order to mitigate the demand-supply gap, an aggressive plan is prepared by the Government for new generation addition. As part of the plan, 43 power generation projects of capacity 15,294 MW are now under construction. The plan envisages around 21,977 MW new generation addition by 2025.

In this fiscal year, BPDB sold bulk energy of 67,668 GWh to the distribution utilities including BPDB zones as single buyer which was 1.68% higher than the previous year. Retail sales of BPDB's Four distribution zones was 10,308 MkWh, which was 2.50% lower than the previous year. Distribution system loss (without 132 KV consumers) of BPDB came down to 8.99% from 9.12% of previous year. Collection/Import (C/I) ratio Come down to 90.19% from 92.87%. Per capita generation and consumption (Grid) increased to 426.23 kWh & 378 kWh from 426.05 kWh & 375 kWh respectively of previous year.

The net loss in the FY 2019-20 decreased to 0.09 Billion Taka from 1.75 Billion Taka of previous year. The net loss decreased than that of the previous year mainly due to decrease in diesel & HFO based generation & electricity purchase from Rental & Quick Rental power plants from the previous year.

# KEY STATISTICS

| S.N. | Particulars | Year 2018-19 | Year 2019-20 | % Change over the previous year |
|---|---|---|---|---|
| 1 | **Installed Capacity of Power Plants as of June (MW):** **a) Public Sector** | | | |
| | i) BPDB | 5,498 | 5,590 | 1.67 |
| | ii) APSCL | 1444 | 1444 | 0.00 |
| | iii) EGCB | 839 | 957 | 14.06 |
| | iv) RPCL | 182 | 182 | 0.00 |
| | v) NWPGCL | 1,395 | 1,395 | 0.00 |
| | vi) BPDB-RPCL JV | 149 | 771 | 417.45 |
| | **b) Private Sector :** | | | |
| | i) IPP/SIPP | 6,503 | 7,332 | 12.75 |
| | ii) Rental | 1,540 | 1,301 | -15.52 |
| | **c) REB (for PBS's only)** | 251 | 251 | 0.00 |
| | **d) Power Import** | 1,160 | 1,160 | 0.00 |
| | **e) System Total Installed Capacity (MW)** | 18,961 | 20,383 | 7.50 |
| 2 | Maximum Peak Generation (MW) | 12,893 | 12,738 | -1.20 |
| 3 | Maximum Peak Demand (MW) | 12,100 | 13,300 | 9.92 |
| 4 | **Net Energy generation (GWh):** | | | |
| | a) i) Public Sectors | 35,107 | 35,316 | 0.60 |
| | ii) Private Sectors (IPP, SIPP and Rental) | 26,723 | 27,651 | 3.47 |
| | iii) Power Import | 6,786 | 6,674 | -1.65 |
| | iv) Total Generation (In account of Single Buyer) | 68,616 | 69,641 | 1.49 |
| | b) REB (for PBS's only) | 1,917 | 1,778 | -7.25 |
| | **c) System Total Generation (GWh)** | 70,533 | 71,419 | 1.26 |
| 5 | Per Unit Generation Cost in Public & Private (Tk/Kwh) | 6.01 | 5.91 | -1.66 |
| 6 | a) Fuel Cost for Thermal Plants in Public Sector (MTk) | 68,584 | 57,865 | -15.63 |
| | b) Per Unit fuel Cost for thermal Plants (Tk/KWh) | 1.95 | 1.64 | -16.13 |
| 7 | Annual Plant Factor of Public Sector's Power Plants (%) | 46.3 | 47.1 | 1.73 |
| 8 | System load factor (%) | 60.75 | 62.41 | 2.73 |
| 9 | BPDB's Commercial Activities as Single Buyer : | | | |
| | a) Bulk Sales Unit to Utilities (GWh) | 66,547 | 67,668 | 1.68 |
| | b) Bulk Billing Amount (MTk) | 330,676 | 339,988 | 2.82 |
| | c) Bulk Collection Amount (MTk) | 332,294 | 337,846 | 1.67 |
| | d) Accounts Receivables to Utilities (MTk) | 89,862 | 75,646 | -15.82 |
| 10 | Transmission Loss (%) | 3.15 | 2.93 | -6.98 |
| 11 | Ave. Bulk Electricity Supply cost Taka/kWh | 6.21 | 6.09 | -1.93 |
| 12 | BPDB's Commercial Activities with in Distribution Zones : | | | |
| | a) Energy Imports for Retail Sale (MKWh) | 11,400 | 11,120 | -2.46 |
| | b) Retail Sales Unit (MKWh) | 10,573 | 10,308 | -2.50 |
| | c) Retail Billing Amount (MTk) | 73,365 | 72,186 | -1.61 |
| | d) Retail Collection Amount (MTk) | 73,473 | 70,229 | -4.41 |
| | e) Accounts Receivables to Retail Consumers (MTk) | 14,284 | 16,503 | 15.53 |
| | f) Collection/Bill Ratio (%) | 100.15 | 97.29 | -2.86 |
| | g) Collection/Import Ratio (%) | 92.87 | 90.19 | -2.89 |
| | h) Distribution System loss (%) (at 33 kV) | 9.12 | 8.99 | -1.43 |
| 13 | Transmission and Distribution (T & D) system Loss (%) | 11.96 | 11.23 | -6.10 |
| 14 | Total Number of consumers of BPDB (Nos.) | 3,046,257 | 3,236,886 | 6.26 |
| 15 | Total Population in the Country (Million) | 165.60 | 167.57 | 1.19 |
| 16 | Per capita generation (kWh) (grid) | 426.05 | 426.23 | 0.04 |
| 17 | Per capita Consumption (kWh) (grid) | 375 | 378 | 1.01 |
| 18 | Net profit/(loss) (MTk) | (1,746.14) | (91.87) | (94.74%) |

**Note :** Maximum Demand is shown as per power system master plan 2016.

**Sylhet 225 MW Combined Cycle Power Point**

# Chapter 1

# Overview on BPDB Operation

# GENERATION

## Electricity Demand

Demand of electricity is increasing rapidly due to enhanced economic activities in the country with sustained GDP growth. At present, growth of demand is about 9-10% which is expected to be more in coming years.

## Load Factor and Load Management

Demand of electricity in the system varies throughout the day and night. The maximum demand is occurred during 5 pm to 11 pm which is termed as 'peak hour' and other part of the time is termed as off-peak hour. The extent of this variation is measured in terms of Load Factor, which is the ratio of average and maximum demand. For economic reasons, it is desirable to have a higher Load Factor, as this would permit better utilization of plant capacity. Moreover, the cost of energy supply during peak hour is higher, because some relatively costlier liquid fuel based power plants are required to put in operation during the peak hour. For these reasons, load management is essential throughout the year for better capacity utilization of power plants and minimum generation cost.

There are some loads in the system which can be avoided or minimized by consumers during peak hour. In order to shift these kinds of loads from peak hour to off-peak hour by introducing some mechanism is termed as load management. From the view point of load management, (i) two-part tariff is introduced for 3-phase consumers (LT & HT) where peak hour price is much higher than the off-peak hour that motivates consumers to avoid or use less in the peak hour; (ii) holiday staggering is implemented to keep industries, markets & shopping malls close on area basis holiday marked day; (iii) consumers are encouraged to use energy efficient bulb, electric appliances, pumps, etc; (iv) consumers are encouraged to keep their air-conditioner's temperature at 25 degree and so on.

# Generation

## Generation Capacity

Total installed capacity was 20,383 MW which includes 9,717 MW Public, 622 MW JV, 7,332 MW IPP/SIPP, 1,301 MW Rental Power Plant, 251 MW under REB (for PBS) and 1,160 MW Power Import from India. The maximum peak generation was 12,738 MW which was 1.20% lower than that in the previous year. The Generation Capacity mix is shown below:

### Installed Capacity by Plant & Fuel Type

| By type of plant | | By type of fuel | |
|---|---|---|---|
| Hydro | 230 MW (1.13%) | Hydro | 230 MW (1.13%) |
| Steam Turbine | 2,966 MW (14.55%) | Gas | 10,979 MW (53.86%) |
| Gas Turbine | 851 MW (4.18%) | Furnace Oil | 5,540 MW (27.18%) |
| Combined Cycle | 7,330 MW (35.96%) | Diesel | 1,290 MW (6.33%) |
| Reciprocating Engine | 7,808 MW (38.31%) | Coal | 1,146 MW (5.62%) |
| Solar PV | 38 MW (0.19%) | Solar PV | 38 MW (0.19%) |
| Power Import | 1,160 MW (5.69%) | Power Import | 1,160 MW (5.69%) |
| **TOTAL** | **20,383 MW (100%)** | **TOTAL** | **20,383 MW (100%)** |

## Energy Generation

Total net energy generation in FY 2019-20 was 71,419 GWh, which was about 1.26% higher than previous year's net generation of 70,533 GWh. Net energy generation in the public sector was 35,316 GWh and 29,429 GWh in the private sector (including REB). Another 6,674 GWh was imported from India through the interconnection in Bheramara and Tripura.

Total net energy generated in public and private sector power plants by type of fuel are as follows:

| | | |
|---|---|---|
| Hydro | 825 | 1.16% |
| Natural Gas | 51,290 | 71.82% |
| Furnace Oil | 9,461 | 13.25% |
| Diesel | 139 | 0.20% |
| Coal | 2,968 | 4.16% |
| Renewable Energy | 62 | 0.07% |
| Power Import | 6,674 | 9.34% |
| **Total** | **71,419 (GWh)** | **100%** |

## Plant Efficiency and Maintenance

The overall Thermal efficiency (Net) of the public-sector power plants in FY 2019-20 was 39.72%. Previous year's it was 38.4%.

Below the list of major power plants were under maintenance in the FY 2019-20:

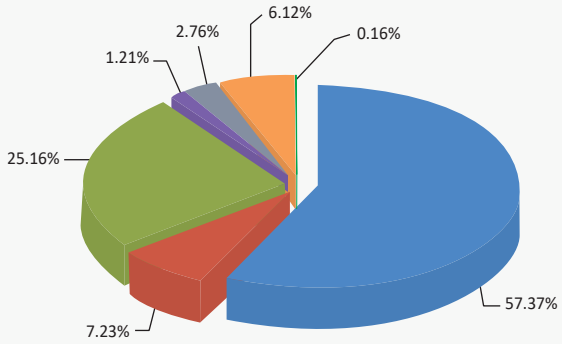
### Maintenance of Power Plants In FY 2019-20

| Sl. No. | Name of Power Station | Present Capacity (MW) | Type of Maintenance (HGPI/MI/OH) | Duration of Maintenance | |
|---|---|---|---|---|---|
| | | | | Starting Date | Completion Date |
| 1 | Fenchuganj CCPP unit 1 (ST) | 33 | OH | 11/10/2018 | 21/12/2019 |
| 2 | Barapukuria Coal Thermal Power Plant Unit-1 | 125 | OH | 14/10/2017 | 20/01/2020 |
| 3 | Bhola CCPP (GT-1) | 63 | HGPI | 14/02/2020 | 28/02/2020 |
| 4 | Fenchuganj CCPP unit 2 | 35 | OH | 01/03/2020 | Running |
| 5 | 210 MW Siddhirganj Thermal Power Station | 210 | OH | 01/10/2019 | Running |
| 6 | Kaptai Hydro-Unit 2 | 40 | OH | 01/12/2020 | Running |
| 7 | Rangpur GT Power Plant | 20 | OH | 28/01/2020 | Running |


Signing of Power Purchase Agreement between BPDB and Unique Meghnaghat Power Ltd. for establishing 584 MW Combined Cycle Power Plant at Meghnaghat.

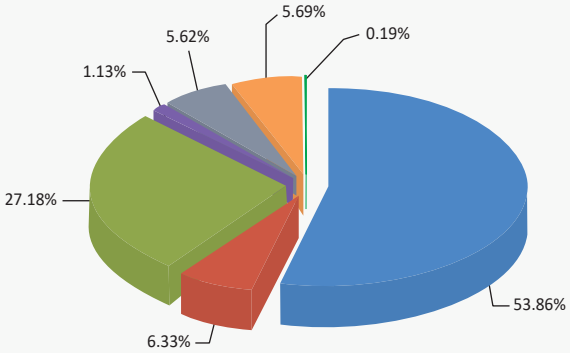
## Installed Capacity (National) By Fuel Type With Comparison


**(FY 2018-19)**




**Total : 18,961 MW**

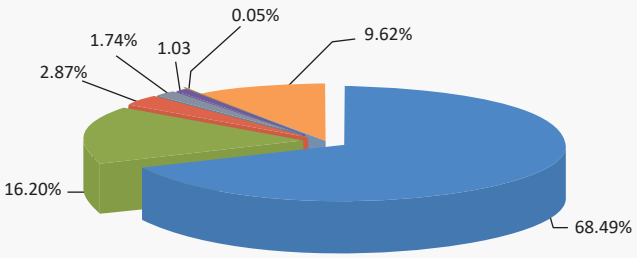
**(FY 2019-20)**




**Total : 20,383 MW**

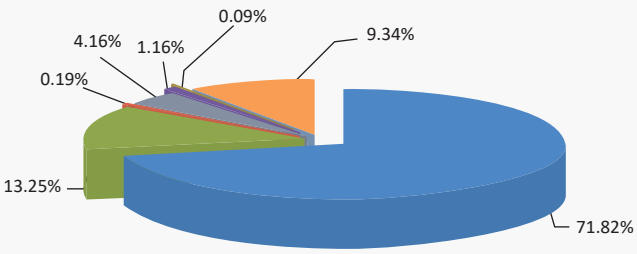
## Total Net Generation (National) By Fuel


**(FY 2018-19)**




**Total Net Generation : 70,533 MkWh**

**(FY 2019-20)**




**Total Net Generation : 71,419 MkWh**

# TRANSMISSION

## Transmission Lines

During fiscal year 2019-20, very significant transmission components have been added to the system because of the completion of different project works. Ttransmission line length (ckt. km) has enlarged by 5.15% than that of previous year. The line details are as below:

| S.N. | Transmission Line | Quantity (Ckt. Km.) |
|---|---|---|
| 1. | Payra-Gopalganj(N) 400kV double circuit transmission line (Conductor: Quad ACCC Dhaka) | 163.55 |
| 2. | Patuakhali-Payra 230kV double circuit transmission line (Conductor: Twin ACCC Hamburg) | 93.00 |
| 3. | Ishurdi-Rajshahi 230kV double circuit transmission line (Conductor: Twin ACSR Mallard) | 158.24 |
| 4. | Rangpur-Kurigram132 kV Single circuit transmission line (Conductor: ACSR Grosbeak) | 40.949 |
| 5. | Magura-Narail132 kV double circuit transmission line (Conductor: ACSR Grosbeak) | 78.972 |
| 6. | LILO of Bogura-Sirajganj 132 kV double circuit transmission line (Conductor: ACSR Grosbeak) at Sherpur (Bogura) Substation | 2.616 |
| 7. | LILO of Rajshahi-Chapai-Nawabganj-Amnura 132 kV double circuit transmission line (Conductor: ACSR Grosbeak) at Rajshahi(N)132 kV Substation | 1.624 |
| 8. | LILO of Feni-Cumilla(N) 132 kV double circuit transmission line (Conductor: ACSR Grosbeak) at Chowddagram substation | 3.152 |
| 9. | LILO of Faridpur-Madaripur 132 kV double circuit transmission line (Conductor: ACSR Grosbeak) at Gopalganj(N) substation | 6.12 |
| 10. | LILO of Gopalganj-Madaripur 132 kV double circuit transmission line (Conductor: ACSR Grosbeak) at Gopalganj(N) substation | 42 |
| 11. | Kodda–Rajendrapur132 kV double circuit transmission line (Conductor: ACCC Grosbeak) | 49.4 |
| | **Total** | **639.623 ckt.km** |

Total length of 400 KV transmission line increased to 861 circuit km from the previous year 697.76 circuit km. The total length of 230 kV transmission line increased to 3658 circuit km from the previous year of 3406.69 circuit km. The total length of 132 kV transmission line increased to 7,764 circuit km from the previous year of 7545.5 circuit km.

Dr. Ahmad Kaikaus, Sr. Secretary Power Division is presiding over the meeting on finalisation of BPDB Act-2019.

## Grid Sub-stations

During fiscal year 2019-20 very significant transmission components have been added to the system because of the completion of different project works. The transformer capacity at the end of year 2019-20 has enlarged by 8.43% at difference voltage level. The substations capacity details are as below:

**New Sub-stations**

| S.N. | Name of Sub-station | Transformer Capacity |
|---|---|---|
| 1. | Gopalganj (N) 400/132 KV | 2x325 MVA |
| 2. | GPH 230/33 KV (Private) | 2x100/125 MVA |
| 3. | Rajshahi(N) 230/132 KV | 1x300 MVA |
| 4. | Chauddagram 132/33 KV | 2x50/75 MVA |
| 5. | Kurigram 132/33 KV | 2x50/75 MVA |
| 6. | Narail 132/33 KV | 2x50/75 MVA |
| 7. | Nawabganj 132/33 KV | 2x50/75 MVA |
| 8. | PHP 132/33 KV (Private) | 1x30/35 MVA |
| 9. | Rajshahi(N) 132/33 KV | 2x80/120 MVA |
| 10. | Rajendrapur 132/33 KV | 2x80/120 MVA |
| 11. | Sherpur(Bogura) 132/33 KV | 2x50/75 MVA |
| 12. | Sreenagar 132/33 KV | 2x50/75 MVA |

**Augmentation of Existing Sub-station Capacity**

| S.N. | Name of Sub-station | Augmentation Capacity |
|---|---|---|
| 1. | Baghabari 230/132 KV | 300 MVA |
| 2. | Amnura 132/33 KV | 50 MVA |
| 3. | Brahmanbaria 132/33 KV | 79 MVA |
| 4. | Chandpur 132/33 KV | 75 MVA |
| 5. | Faridpur 132/33 KV | 41 MVA |
| 6. | Narsingdi 132/33 KV | 75 MVA |
| 7. | Rangpur 132/33 KV | 90 MVA |
| 8. | Savar 132/33 KV | 75 MVA |
| 9. | Shahjadpur 132/33 KV | 59 MVA |
| 10. | Shahjibazar 132/33 KV | 79 MVA |
| 11. | Shyampur 132/33 KV | 90 MVA |
| 12. | Srimangal 132/33 KV | 41 MVA |
| 13. | Sylhet 132/33 KV | 41 MVA |
| 14. | Tangail 132/33 KV | 90 MVA |
| 15. | Thakurgaon 132/33 KV | 41 MVA |

**Transmission Line Re-conductoring**

| S.N. | Name of Transmission Line | Quantity (Ckt. Km.) |
|---|---|---|
| 1. | Kabirpur-Kaliakoir-Tangail132kV single Circuit Transmission Line (New Conductor: ACCC Grosbeak) | 59.56 ckt-km. |
| 2. | Saidpur-Purbasadipur132kV single Circuit Transmission Line (New Conductor: ACCC Grosbeak) | 49.0 ckt-km. |
| 3. | Barishal (N)-Barishal132kV single Circuit Transmission Line (New Conductor: ACCC Grosbeak) | 20 ckt-km. |
| 4. | Gopalganj(N)- Faridpur 132kV single Circuit Transmission Line (New Conductor: ACCC Grosbeak) | 90.07 ckt-km. |

## Transmission Summary

| S.N. | Transmission Line Type | Circuit km |
|---|---|---|
| 1. | 400 kV Transmission Line | 861.31 |
| 2. | 230 kV Transmission Line | 3,658 |
| 3. | 132 kV Transmission Line | 7,764 |
| | **Total Transmission Line** | **12,283.31** |
| | Transmission Loss (%) | 2.93 % |

| S. N. | Sub-station Type | No of Sub-station | Capacity (MVA) |
|---|---|---|---|
| 1. | 400 kV HVDC Sub-station (MVA) | 1 | 1,111 |
| 2. | 400/230 kV Sub-station Capacity (MVA) | 4 | 3,770 |
| 3. | 400/132 kV Sub-station Capacity (MVA) | 2 | 1,300 |
| 4. | 230/132 kV Sub-station Capacity (MVA) | 25 | 13,075 |
| 5. | 132/33 kV Sub-station Capacity (MVA) | 145 | 26,222 |
| | **Total** | **177** | **45,478** |

## Grid System Operation

In FY 2020, total duration of Power interruption in the grid network was 48 hours 44 minutes.

### Interruption of National Grid for FY 2019 & FY 2020

| S.N. | Type of Fault | Total Number of Faults | | Total Duration | |
|---|---|---|---|---|---|
| | | FY 2019 | FY 2020 | FY 2019 Hours/ Minutes | FY 2020 Hours/ Minutes |
| 1. | Partial Power failure due to trouble in generation | 171 | 162 | 0/53 | 0 |
| 2. | Partial Power failure due to trouble in grid S/S Equipment | 55 | 29 | 45/43 | 33/15 |
| 3. | Partial Power failure due to fault in transmission line | 17 | 11 | 31/37 | 14/45 |
| 4. | Partial Power failure due to the lightning on transmission line/Thunder Storm | 00 | 00 | 00/00 | 00/00 |
| 5. | Partial Grid failure | 02 | 02 | 1/14 | 00/44 |
| 6. | Total Grid failure | 00 | 00 | 00/00 | 00/00 |
| **Total** | | **245** | **204** | **79/27** | **48/44** |

## Bulk Electricity Sales by BPDB

BPDB has been functioning as a single buyer in the power market of Bangladesh. BPDB purchases electricity from the public and private generation entities and sales bulk electricity to all the distribution utilities including its four distribution zones. Distribution entities purchases electricity from BPDB are as follows:

- Dhaka Power Distribution Company (DPDC)
- Dhaka Electric Supply Company (DESCO)
- West Zone Power Distribution Company Limited (WZPDCL)
- Rural Electrification Board (REB)
- Northern Electricity Supply Company Ltd (NESCO)
- BPDB's Four distribution zone

In FY 2019-20 bulk electricity sales to the distribution utilities increased to 67,668 MkWh from 66,547 MkWh which is 1.66% higher than the previous year. Total revenue collection also increased to 3,37,846 MTk from 3,32,294 MTk which is 1.64% higher than the previous year.

## Utility Wise Billing & Collection Statistics of BPDB

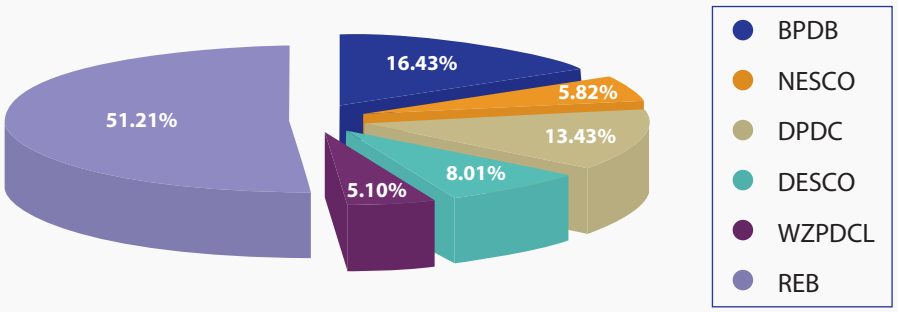
| Name of Utility | Billed Amount (Million Tk) | | Collected Amount (Million Tk) | | Accounts Receivable (Million Tk) | | | Coll/Bill Ratio (%) | |
|---|---|---|---|---|---|---|---|---|---|
| | 2018-19 | 2019-20 | 2018-19 | 2019-20 | 2018-19 | 2019-20 | % increase over the previous year | 2018-19 | 2019-20 |
| BPDB | 73,365 | 72,186 | 73,473 | 70,229 | 14,284 | 16,503 | 15.53 | 100.15 | 97.29 |
| WZPDCL | 16,891 | 17,319 | 16,731 | 17,248 | 1,681 | 1,751 | 4.15 | 99.05 | 99.59 |
| DPDC | 55,936 | 55,233 | 60,646 | 54,824 | 52,025 | 40,381 | -22.38 | 108.42 | 99.26 |
| DESCO | 33,998 | 33,561 | 33,755 | 33,590 | 3,275 | 3,246 | -0.89 | 95.93 | 100.09 |
| REB/PBS's | 132,799 | 143,227 | 127,394 | 143,560 | 27,571 | 27,238 | -1.21 | 114.76 | 100.23 |
| NESCO | 17,686 | 18,462 | 20,296 | 18,395 | 3,080 | 3,031 | -1.59 | 100.49 | 99.64 |
| TOTAL | 330,676 | 339,988 | 332,294 | 337,846 | 101,916 | 92,149 | -9.58 | 98.85 | 99.37 |

## Utility wise Bulk Energy Sales by BPDB As Single Buyer

In MkWh

| Year | BPDB zones | NESCO | DPDC | DESCO | WZPDCL | REB | Total |
|---|---|---|---|---|---|---|---|
| 2004-05 | 5,993 | - | 5,135 | 1,843 | 389 | 7,039 | 20,398 |
| 2005-06 | 5,180 | - | 5,316 | 2,030 | 1,373 | 8,062 | 21,961 |
| 2006-07 | 5,305 | - | 5,243 | 2,191 | 1,282 | 8,040 | 22,061 |
| 2007-08 | 5,626 | - | 5,204 | 2,574 | 1,375 | 8,655 | 23,433 |
| 2008-09 | 6,042 | - | 5,449 | 2,743 | 1,491 | 9,032 | 24,757 |
| 2009-10 | 6,744 | - | 5,749 | 2,934 | 1,673 | 9,525 | 26,626 |
| 2010-11 | 7,338 | - | 5,964 | 3,123 | 1,843 | 10,359 | 28,627 |
| 2011-12 | 8,136 | - | 6,340 | 3,401 | 2,029 | 12,537 | 32,443 |
| 2012-13 | 8,737 | - | 6,593 | 3,726 | 2,187 | 14,222 | 35,466 |
| 2013-14 | 9,597 | - | 7,038 | 4,067 | 2,394 | 16,161 | 39,256 |
| 2014-15 | 10,486 | - | 7,402 | 4,320 | 2,574 | 17,835 | 42,616 |
| 2015-16 | 12,159 | - | 8,047 | 4,795 | 2,843 | 21,051 | 48,895 |
| 2016-17 | 11,024 | 2,486 | 8,424 | 4,980 | 3,013 | 23,989 | 53,916 |
| 2017-18 | 10,537 | 3,645 | 8,819 | 5,248 | 3,208 | 27,765 | 59,221 |
| 2018-19 | 11,400 | 3,917 | 9,404 | 5,604 | 3,490 | 32,730 | 66,547 |
| 2019-20 | 11,120 | 3,935 | 9,085 | 5,423 | 3,452 | 34,652 | 67,668 |

## Utility Wise Bulk Sales (FY 2019-20)




**Total Sales : 67,668 MkWh**

# DISTRIBUTION

BPDB has been functioning as a retail seller of electricity within its following Four distributions zones:

- Distribution zone, Chattogram
- Distribution zone, Cumilla
- Distribution zone, Mymensing
- Distribution zone, Sylhet

## Distribution network & Commercial summary

In the FY 2019-20, BPDB has extended about 1,992 nos. distribution transformer with 551 MVA capacity as a part of continuous improvement of the system. BPDB covers electrification in 242 thanas/upazillas and 4,957 villages within its Four distribution zones up to the end of this fiscal year. The summary of distribution networks and Commercials from FY 2012-13 to FY 2019-20 is given below:

## Distribution Network Summary

| Particulars | Unit | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|---|---|---|---|---|---|---|---|---|---|
| 33/11 KV sub-station | Nos | 153 | 153 | 161 | 183 | 130* | 132 | 133 | 137 |
| Capacity 33/11 KV substation | MVA | 2924/3638 | 2924/3638 | 3103/3980 | 3593/4694 | 2623/3390 | 2863/3698 | 3082/3978 | 3304/4221 |
| 33 KV Line | Km | 3728 | 3759 | 3905 | 4194 | 3404* | 3418 | 3654 | 3706 |
| 11 KV line | Km | 13128 | 13242 | 13806 | 14112 | 9436* | 9577 | 10742 | 10973 |
| 0.4 KV line | Km | 21859 | 21933 | 22892 | 23614 | 16979* | 17071 | 18592 | 18962 |
| Distribution Transformer | Nos | - | - | 21059 | 21875 | 16630* | 19512 | 22020 | 24012 |
| Capacity Distribution Transformer | MVA | - | - | 3539 | 3674 | 2829* | 3376 | 3948 | 4499 |
| Maximum Demand Served | MW | - | - | 1692 | 1889 | 1997 | 1624 | 1893 | 1876 |

## Distribution Commercial Summary

| Particulars | Unit | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|---|---|---|---|---|---|---|---|---|---|
| Energy import | MkWh | 8737 | 9597 | 10486 | 12159 | 11024 | 10537 | 11400 | 11120 |
| Energy sale (without bulk consumer) | MkWh | 7662 | 8429 | 8791 | 9667 | 8063 | 7685 | 8240 | 8191 |
| Energy sale (with bulk consumer) | MkWh | 7693 | 8456 | 9315 | 10820 | 10002 | 9694 | 10573 | 10308 |
| System loss (without bulk consumer) | % | 11.95 | 11.89 | 11.17 | 10.66 | 10.92 | 9.89 | 9.12 | 8.99 |
| System loss (with bulk consumer) | % | 11.95 | 11.89 | 11.17 | 12.16 | 9.27 | 8.00 | 7.26 | 7.30 |
| C.I Ratio | % | 83.55 | 83.23 | 85.29 | 85.34 | 89.94 | 92.13 | 92.87 | 90.19 |
| C.B Ratio | % | 94.89 | 94.46 | 96.02 | 95.90 | 99.13 | 100.14 | 100.15 | 97.29 |
| Consumer number | Nos | 2654019 | 2901309 | 3157104 | 3457263 | 2526682* | 2801951 | 3046257 | 3236886 |
| Accounts receivable | Million taka | 9221 | 11947 | 14755 | 18696 | 13999 | 13440 | 14284 | 16503 |

* Due to handover of Rajshahi and Rangpur Zone to NESCO.

## Customer's service & satisfaction

BPDB has introduced following services for customer satisfaction:

- Computerized billing and Remote billing system
- Easy Bill Pay
- One stop service
- Online application
- Pre-paid metering
- Supervisory Control And Data Acquisition (SCADA) System
- Enterprise Resource Planning (ERP)
- Innovation of BPDB

## Computerized and Remote Billing system

BPDB has brought 100% consumers in computerized billing system in its four distribution zones. Each computerized bill shows present month's billing amount along with previous month's payment and arrear status for consumers' acknowledgement. It improves billing system, revenue collection, decreases system loss and ensures better service to the consumers than the previous manual one. BPDB prepares approximately 21 lakhs post-paid customers bill monthly. These bills are prepared by eight computer centers of BPDB.

Using Automated Meter Reading System, we can get various data from Central Server situated in GM, Commercial Operation Office. As a result of getting meter reading data easily, the bill procedure process has become more convenient.

In Snapshot Meter Reading System, meter readers go from door to door to collect the meter reading by taking picture of the meter and sending it to billing database. As the picture is also provided, there is very less possibility of getting wrong data.

## Easy bill pay

BPDB has introduced easy bill pay system through mobile phone in its four distribution zones- Chattogram, Cumilla, Mymensingh and Sylhet. Consumers can pay their electricity bill through prescribed mobile phone operator anytime even in holidays. For the benefit of customers, recently bkash is also included in easy bill pay system. In all of these zones, mobile operators GP, Robi and bkash are active for easy bill pay system.

## One stop service

BPDB has introduced one stop service in each S&D division/ESU in order to provide hassle free service for its consumers. Every S&D division/ESU has one designated desk for one stop service. Any consumer can lodge his complain on that desk and the officer-in-charge is empowered to do all necessary things in order to address the complain.

## Online application

BPDB has introduced on line application facilities for new connection at four distribution zone. Any applicant can apply round the clock for new connection of his house, shop, industry, etc. from the website of distribution zone, BPDB. BPDB also has a plan to develop similar facilities in its other distribution zones depending on the responsiveness of consumers of Four distribution zonal area.

## Pre-paid Metering

The conventional postpaid billing method involves a group of meter readers taking reading from the postpaid meter installed at consumers premises and then conveying this reading to the computer center. Electricity bill is prepared based on these readings and then the bill is distributed to the consumers' premises. This is a very time-consuming job and requires a lot of manpower. Still the accuracy of these bills cannot be guaranteed as there are several scopes of human errors. Another aspect with this system is the consumers have to pay after they use the electricity. So, they may not pay the bills in due time which creates problems for the distribution units.

To solve all these problems, prepaid metering system has been introduced in BPDB.

**Advantages of pre-payment meters**

- Prepaid energy meter comes with the advantage of managing energy consumption. When customers pay for energy that they can afford at that particular moment, they can limit their usage so that it lasts for the period they want.
- The prepaid meters make it possible for customers to tell when they are misusing energy; hence they can easily come up with measures that cut on their consumption. They make it even easier for homeowners to tell how energy efficient new and existing appliances are so they can make any necessary changes.
- The prepaid option saves customers from overbilling problems. This is because they only use what they have paid for and they therefore do not have to worry about the bills at the end of the month.
- The prepaid meters save customers from estimate bills that can end up overcharging them. This is because the prepayment meters do not require any meter reading for customers to be billed.

Illumination of WAPDA Building on the occasion of 100 Birth Anniversary Celebration of Bangabandhu.

- Customers can still take advantage of TOU tariff rates and slab facility if they have a compatible prepayment meter.
- Customers can enjoy 1% rebate on energy charge as per existing tariff order.

**Third Party Vending System**

IBPDB introduced Third Party Vending System to make the prepaid metering vending more secure, consumer friendly and cost effective. To attain this goal, BPDB appointed Grameenphone, Robi & bKash who work to provide vending service to the prepaid meter consumer of BPDB through Mobile USSD and mobile Apps.

The main objectives of 3rd Party Vending System are:

- Vending at 24X7 manner from anywhere.
- Reduce costing for setting up huge number of vending stations;
- Improve customer services;
- Make the system easy and transparent;
- Improve and secure cash flow;
- Modernize & Digitalize of Pre-paid Metering System.
- Make the system sustainable.
- Make the system user friendly.

## Smart Metering System

Smart Metering System provides utilities with the ability to monitor and control the meters at consumer end remotely. Now BPDB is focusing on installing smart meters to ensure better quality service to consumer. Smart meters have benefits for both consumer and utility. The main advantages of smart meters are as follows:

**Benefits for end consumer:**

- Recharge automatically.
- Consumers can be informed remotely historical data or real time data.

**Benefits for utility:**

- Reduce labor cost by remote configuration and operation on device in batch such as update tariff, holiday, friendly hour, remote firmware upgrade.
- Reduce line loss by automatic & on demand meter data reading, remote load connect/disconnect, remote monitoring of device status.
- Effective load management.
- Critical and non-critical reporting functionality.

## BPDB Pre-paid At A Glance

BPDB installed 1.5 million prepaid meters out of its 3.3 million existing customers. Currently, BPDB runs three different prepayment metering systems named Unified Prepayment Metering System, STS Prepaid System and Smart Metering System. The percentages of prepaid consumers in BPDB's different zones are given below:

| SL No. | Zone | Prepaid Coverage (%) In Ratio of Total Consumer |
|---|---|---|
| 1. | Chattogram | 40.71 % |
| 2. | Cumilla | 25.68 % |
| 3. | Mymenshing | 33.35 % |
| 4. | Sylhet | 44.53 % |
| | **Total** | **35.89 %** |

Currently BPDB has 25,000 online meters installed where GPRS is used as communication medium and 1,50,000 GPRS based online meters are in the installation phase. Besides that, there is an ongoing project for 60,000 PLC based online meters in BPDB. Another project of installing 1,50,575 smart pre-paid meters with KFW funding is going on in Cumilla and Mymensingh zone. A plan has been undertaken to procure and install 10,00,000 single-phase and 50,000 three-phase smart meters in four zones of BPDB with ADB funding. BPDB also has plans to go for smart meters through Advanced Metering Infrastructure (AMI) within this financial year.

## SCADA

Supervisory Control And Data Acquisition (SCADA) has started functioning within the Four zones of BPDB (Chattogram, Sylhet, Mymensingh & Cumilla) for system control and data acquisition of the distribution system/networks under it from one point of each zone through microwave link. Provided that 34 sub-stations within Chattogram zone, 18 sub-stations within Sylhet zone, 17 sub-stations within Mymensingh zone, 10 sub-stations within Cumilla zone are connected under the SCADA of respective zone. BPDB also has a plan to set up one SCADA in Dhaka to monitor/control all SCADA of BPDB centrally. Key functions of SCADA are:

- Supervising/Monitoring the networks under it continuously on its computer monitors round the clock and controls the power supply of the networks from the supervisors desk as and when necessary in a systematic manner as directed by the authority concerned.
- Data acquisition and recording of power flow/supply status through each circuit of the entire networks on hourly basis round the clock for reporting to authorities concerned and analyzing demand, power factor & other necessary elements of each circuit for system management within the SCADA in an smart manner.
- Preparing and reporting daily and monthly power supply, demand, load shedding, line shut-down, etc. of each circuit of the networks under it to authorities concerned for system planning.
- Preparing power supply, demand, load shedding, line shut-down, etc. report for any specified span of time as wanted by the authorities concerned for system planning.
- Load management matching with the power generation as per instructions of NLDC or authority concerned in order to keep the overall system healthy.
- Appraising all important information regarding system to the authorities concerned as and when required.

## Demand Side Management

Demand-side management (DSM) means modifying energy use to maximize energy efficiency. DSM tries to get maximum benefit out of existing energy generation. DSM involves changing energy use habits of consumers and encouraging them for using energy efficient appliances, equipment etc. at their premises.

To keep load shedding at a minimum level, BPDB has taken a number of steps for demand side management, which are as follows:

- To shift irrigation load from peak hour to off peak hour, BPDB has started campaign through electronic and print media. In the last few years, it is estimated that about 500 MW irrigation load was shifted from peak hour to off peak hour.
- BPDB has taken motivational programs to enhance awareness of the consumers during peak hours. Consumers are being urged through electronic and print media to be rational and economical in electricity use during peak hour by switching off unnecessary loads like extra lighting, ironing, pumps, air conditioners, welding machines etc.

- As part of demand side management program, BPDB has taken steps to use CFL in BPDB's offices and also trying to motivate consumers to use Energy efficient lamps.
- Industries operating in two shifts are being requested not to operate during peak hours.
- Holiday staggering for industries has been implemented, which contributes about 200 MW load shifting.
- Load Management Committee has been formed in every distribution zone/circle/division to monitor the proper load distribution during irrigation.

Power Secretary Dr. Sultan Ahmed is exchanging views with high officials of BPDB at Bidyut Bhaban.

## Enterprise Resource Planning (ERP)

Enterprise Resource Planning (ERP) captures relevant data and transform it into actionable information to aid decision making and strategic planning that help to achieve the goal of ***"Vision 2021 Digital Bangladesh"***. ERP Implementation started through International Standardized software at BPDB with vendor partner M/s Techvision Company Ltd from 2019. Initially, BPDB planned to implement ERP for four (04) modules such as Human Resource Management Module, Fixed Asset Module, Finance Module and Procurement Module.

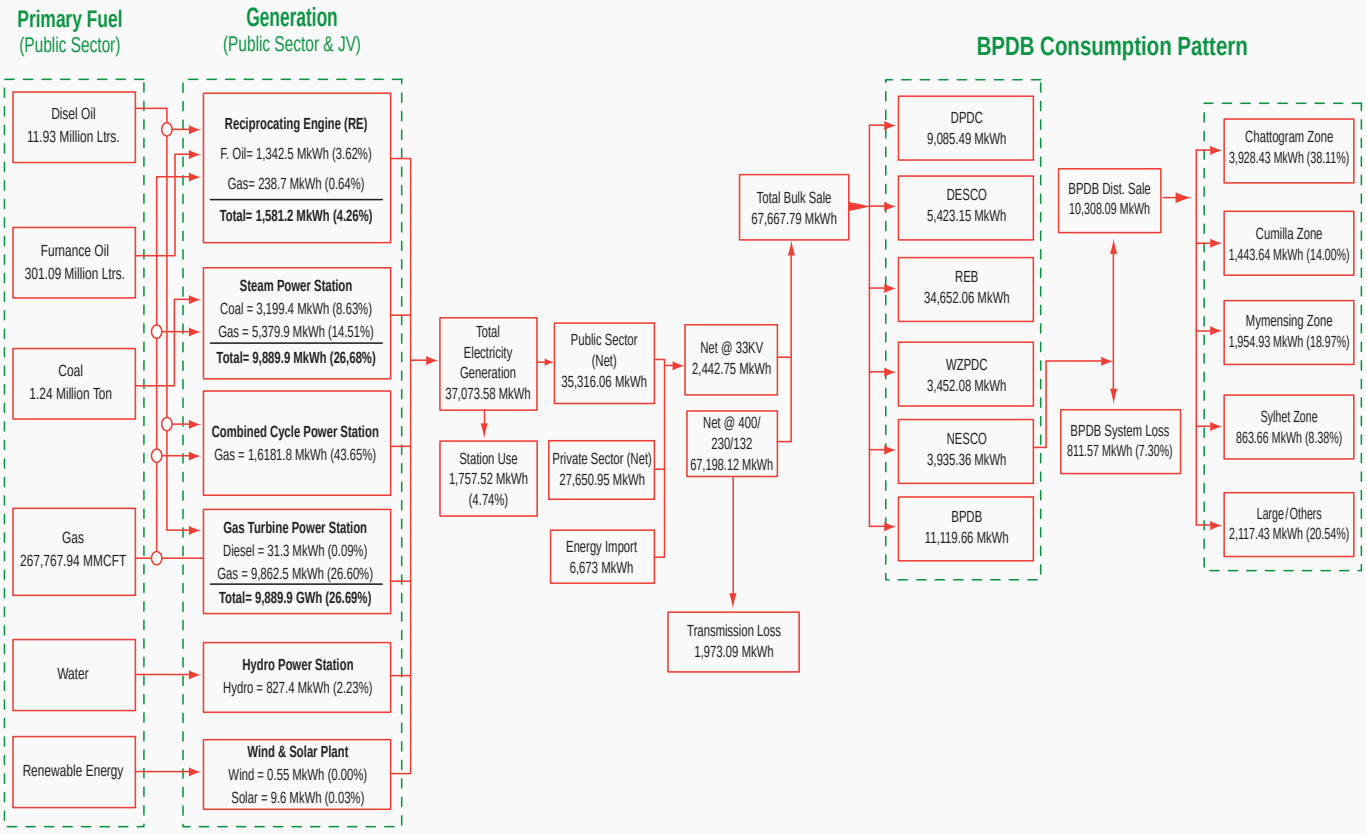
Effectively manage the massive projected growth of production and consumption of electricity in Bangladesh, decision making process will need to be data-driven, timely and transparent, ERP will help to BPDB to achieve the following benefit: Integrate information from all offices to a database system, Standardize Process (Like HR, Fixed Assets, Procurement, Finance) across all offices, Reduce costs by eliminating redundant legacy system, reduces errors by avoiding manual data processing and duplicate data entry, improved productivity by leveraging integrated function modules, ensure Business continuity and disaster recovery, provide improved customer service, improve resource allocation and utilization.

## Innovation of BPDB

BPDB has an innovation team whose task is to compile an annual innovation work-plan of BPDB. This team arranges regular meetings and shortlists innovation ideas to be implemented in a fiscal year. BPDB has been participating in innovation show-casing every year arranged by Power Division which started from the fiscal year 2017-18. Every year, new ideas and innovations are implemented in BPDB. Some of the Innovations of BPDB in the past years are:

| Year | Innovation List |
|---|---|
| 2017-18 | Up-gradation of Online New Connection Software for quick electricity connection to the customers. |
| 2018-19 | Pension Management System for employees who are in PRL.<br>Providing customers profile information online. |
| 2019-20 | Piloting spot billing and spot collection software. |

# ENERGY FLOW CHART
# (FY 2019-20)




Inauguration of four Power Plants, Eight 33/11 kV GIS Sub-stations and electrification of 10 Upazila by Hon'ble Prime Minister Sheikh Hasina through video conference from Ganabhaban.

# Chapter 2

# Power Sector Development Plan

# POWER SECTOR OF BANGLADESH

## Power Sector Scenario

Electricity plays the most basic role in the economic growth through sustainable structure as well as poverty eradication and security of any country. Reliable electricity supply is a vital issue for the world today. Future economic growth crucially depends on the long-term availability of electricity, which are affordable, available and environmentally friendly. Security, climate change, and public health are closely interrelated with electricity. In line with this aspect, Bangladesh Government designed an extensive power generation plan to create sustainable growth of power sector and for overall development of the country economy.

Present installed generation capacity in public, private, Joint venture & import sector is 20,383 MW. Out of this, public sector possesses 9,717 MW (48%), Private Sector 8,884 MW (43%), Joint Venture 622 MW( 3%) & import 1,160MW (6%). Electricity demand is increasing whereas the available generation also increases against with demand. In the public sector, a number of generation units have become very old and has been operating at a reduced capacity. Moreover, most of the existing power plants are gas based. Due to shortage of gas supply, some power plants are unable to reach their usual generation capability. In this fiscal year maximum generation is 12,738 MW on August 05, 2019. At present, 97% of the total population has access to electricity and per capita generation is 512 kWh (including captive and renewable energy). Now Bangladesh has shown implausible achievement in power sector. The target of the government has been implemented successfully and has even been able to achieve the higher level of growth economic growth.

## Long Term Power Generation Plan

A long-term electricity generation plan has been incorporated in the PSMP 2016. Under the plan, generation capacity requirement in 2030 will be 30,000 MW against the demand of 27,000 MW and in 2041 generation capacity will be 57,000 MW against the demand of 51,000 MW. Around 35 % power will be generated from coal and 35 % will be generated from Gas /LNG out of the total generation capacity 57,000 MW in 2041.

## Implementation Status of Power Generation Plan up to 2025

Till now, generation from gas is much higher than compare to other fuel like hydro, coal. For this reason, government has taken strategic decision to diversify primary fuel supply for power generation. In line with this strategy, a sustainable long-term power development plan has been prepared for mitigation the growing demand to reach the generation capacity 24,000 MW by 2021. Under this plan, the coal (indigenous or imported), imported power from neighboring countries, the limited domestic gas, nuclear power and LNG, renewable will be used for power generation. Government has also taken energy efficiency and conservation program for reduction of the growing power demand.

Revised generation expansion plan updated in January 2020 targeting about 21,977 MW generation additions from 2020 to 2025 is provided in a table below:

### Year wise generation projects to be completed (From 2020 to 2025)

| Year | 2020 (MW) | 2021 (MW) | 2022 (MW) | 2023 (MW) | 2024 (MW) | 2025 (MW) | Total |
|---|---|---|---|---|---|---|---|
| Public | 2,456 | 2,139 | 981 | 3,621 | 2,400 | 1,975 | **13,572** |
| Private | 1,063 | 150 | 3,109 | 757 | 590 | 1,240 | **6,909** |
| Power Import | 0 | 0 | 1,496 | 0 | 0 | 0 | **1,496** |
| **Total** | 3,519 | 2,289 | 5,586 | 4,378 | 2,990 | 3,215 | **21,977** |

## Under Construction & Tendering Process Projects

Under this above plan, 43 projects of capacity 15,294 MW are now under construction stage, 12 projects of capacity 2,745 MW are now in the singing process (LOI & NOA are given) and 6 projects of capacity 650 MW are now in tendering process. The under construction, singing (LOI & NOA are given) and tendering process projects will be implemented in phase during the period 2020-2027.

### Under Construction Projects

| S.N. | Description | No. of Projects | Capacity (MW) |
|---|---|---|---|
| 01. | Public Sector | 16 | 9,065 |
| 02. | IPP | 27 | 6,229 |
| | **Total** | **43** | **15,294** |

### Projects under singing process (LOI & NOA are given)

| S.N. | Description | Power Plant No. | Installed Capacity (MW) |
|---|---|---|---|
| 01. | Public Sector | 0 | 0 |
| 02. | Private | 12 | 2,785 |
| | **Total** | **12** | **2,785** |

### Projects under Tendering Process

| S.N. | Description | Power Plant No. | Installed Capacity (MW) |
|---|---|---|---|
| 01. | Public Sector | 1 | 400 |
| 02. | Private | 5 | 250 |
| | **Total** | **6** | **650** |

## Transmission & Distribution System

Transmission of generated power from power plants to the load centers and then distribution to the end users must be ensured to achieve the real benefits out of above generation expansion program. At present, a total 12,283 km (Circuit Km) transmission lines and 5,77,479 Km distribution lines have been connected to power system network.

Bangladesh-India Regional Grid first Interconnection project has already been established and now 1,160 MW power is being imported. 100 MW power is being imported Tripura, India to Cumilla from 2016, another 60 MW power is being imported from same point from July/2017 and by bohorampur-bheramara line

another 500 MW is imported from September, 2018. BPDB Planned 500 MW power will be imported from Nepal by 2026. Another 1496 MW electricity plan to import from Jharkhand, India by 2022.

To strengthen transmission & distribution system, plans are being prepared to construct 22,238 ckt km transmission line 1,13,162 MVA capacity-based grid sub-station, 21 thousand km new distribution line and related distribution substation by 2025.

## Annual Development Program for BPDB's Own Generation & Distribution Projects

A total of 9 generations and 9 distributions were undertaken in the Revised Annual Development Program (RADP) in the FY2019-20. Original Allocation, Revised Allocation & Expenditure incurred (provisional) in the FY2019-20 are shown in the following table.

(Taka in lakh)

| Sub-sector | Original ADP FY 2019-20 | | | Revised ADP FY 2019-20 | | | Expenditure incurred FY 2019-20 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Local | Foreign | Total | Local | Foreign | Total | Local | Foreign |
| **Generation** | 347984.00 | 161888.00 | 186096.00 | 284764.00 | 155264.00 | 129500.00 | 148350.55 | 101035.55 | 47315.00 |
| **Transmission** | - | - | - | - | - | - | - | - | - |
| **Distribution** | 218810.00 | 217807.00 | 1003.00 | 162680.00 | 162621.00 | 59.00 | 145731.05 | 145672.86 | 58.19 |
| **TAPP** | - | - | - | - | - | - | - | - | - |
| **Total** | **566794.00** | **379695.00** | **187099.00** | **447444.00** | **317885.00** | **129559.00** | **294081.60** | **246708.41** | **47373.19** |

A review meeting on progress of ADP, presided over by Engr. Md. Belayet Hossain, Chairman, BPDB.

# Year wise commissioning status of generation projects

## Projects commissioned in 2010

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Shikalbaha 150 MW | 150 | BPDB | | 18 August, 2010 |
| 2. | Siddhirganj 2x120 MW GT | 105 | EGCB | | 14 October, 2010 |
| | **Sub Total (Public)** | **255** | | | |
| | **Private Sector** | | | | |
| 3. | Shikalbaha 55 MW Rental Power Plant | 55 | Rental (BPDB) | HFO | 6 May, 2010 |
| 4. | Ashuganj Rental Power Plant | 55 | Rental (BPDB) | Gas | 7 April, 2010 |
| 5. | Thakurgaon, 3 Years Rental | 50 | Rental (BPDB) | HFO | 2 August, 2010 |
| 6. | Ghorashal (**Sponsor: Aggreko**) | 145 | Rental (BPDB) | Gas | 23 August, 2010 |
| 7. | Khulna (**Sponsor: Aggreko**) | 55 | Rental (BPDB) | Diesel | 10 August, 2010 |
| 8. | Pagla, Narayaganj (**Sponsor: DPAPGL**) | 50 | Rental (BPDB) | Diesel | 24 November, 2010 |
| 9. | Bheramara 3 Years Rental | 110 | Rental (BPDB) | Diesel | 31 December, 2010 |
| | **Sub Total (Private)** | **520** | | | |
| | **Total** | **775** | | | |

## Projects commissioned in 2011

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Ashuganj 50 MW Power Plant | 53 | APSCL | Gas | 30 April, 2011 |
| 2. | Baghabari 50 MW Peaking PP | 52 | BPDB | HFO | 29 August, 2011 |
| 3. | Fenchuganj 90 MW CC | 104 | BPDB | Gas | 26 October, 2011 |
| 4. | Bera 70 MW Peaking PP | 71 | BPDB | HFO | 28 October, 2011 |
| 5. | Titas, Doudkandi 50 MW Peaking PP | 52 | BPDB | HFO | 29 October, 2011 |
| 6. | Siddhirganj 2x120 MW Peaking PP | 105 | EGCB | Gas | December, 2011 |
| 7. | Faridpur 50 MW Peaking PP | 54 | BPDB | HFO | November, 2011 |
| 8. | Gopalganj 100 MW Peaking PP | 109 | BPDB | HFO | 29 September, 2011 |
| 9. | Sangu, Dohazari 100 MW Peaking PP | 102 | BPDB | HFO | 30 December, 2011 |
| 10. | Hathazari 100 MW Peaking PP | 98 | BPDB | HFO | 23 December, 2011 |
| | **Sub Total (Public)** | **800** | | | |

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Private Sector** | | | | |
| 1. | Siddhirganj **(Sponsor: Desh Energy)** | 100 | Rental (BPDB) | Diesel | 17 February, 2011 |
| 2. | B Baria **(Sponsor: Aggreko)** | 70 | Rental (BPDB) | Gas | 06 March, 2011 |
| 3. | Modanganj **(Sponsor: Summit Power)** | 102 | Rental (BPDB) | HFO | 01 April, 2011 |
| 4. | Meghnaghat **(Sponsor: IEL)** | 100 | Rental (BPDB) | HFO | 08 May, 2011 |
| 5. | Ghorashal **(Sponsor: Max Power)** | 78 | Rental (BPDB) | Gas | 27 May, 2011 |
| 6. | Noapara **(Sponsor: Khan Jahan Ali)** | 40 | Rental (BPDB) | HFO | 28 May, 2011 |
| 7. | Ashuganj **(Sponsor: Aggreko)** | 80 | Rental (BPDB) | Gas | 31May, 2011 |
| 8. | Khulna **(Sponsor: KPCL)** | 115 | Rental (BPDB) | HFO | 01 June, 2011 |
| 9. | Ashuganj **(Sponsor: United Power)** | 53 | Rental (BPDB) | Gas | 22 June, 2011 |
| 10. | Siddhirganj **(Sponsor: Dutch Bangla Power)** | 100 | Rental (BPDB) | HFO | 21 July, 2011 |
| 11. | Noapara, Jashore (5 Years Rental) | 105 | Rental (BPDB) | HFO | 26 August, 2011 |
| 12. | Bogura 3 Years Rental **(Sponsor: Energy Prima)** | 20 | Rental (BPDB) | Gas | 13 November, 2011 |
| | **Sub Total (Private)** | **963** | | | |
| | **Total** | **1763** | | | |

## Projects commissioned in 2012

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Sylhet 150 MW Power Plant | 142 | BPDB | Gas | 28 March, 2012 |
| 2. | Gazipur 50 MW PP | 52 | RPCL | Gas/HFO | July, 2012 |
| 3. | Chandpur 150 MW CC Power Plant | 163 | BPDB | Gas | GT: March, 2012<br>CC: July 2012 |
| 4. | Sirajganj 150 MW GT | 150 | NWPGCL | Gas/HSD | December, 2012 |
| 5. | Santahar 50 MW Peaking Power Plant | 50 | BPDB | HFO | December, 2012 |
| 6. | Katakhali 50 MW Peaking Power Plant | 50 | BPDB | HFO | December, 2012 |
| | **Sub Total (Public)** | **607** | | | |
| | **Private Sector** | | | | |
| 1. | Amnura, Chapainawabganj **(Sponsor: Sinha Power)** | 50 | Rental (BPDB) | HFO | 13 January, 2012 |
| 2. | Fenchuganj 3 Years Rental **(Sponsor: Energy Prime Ltd.)** | 44 | Rental (BPDB) | Gas | 15 February, 2012 |
| 3. | Julda, Chattogram | 100 | Rental (BPDB) | HFO | 26 March, 2012 |
| 4. | Keraniganj (Power Pack) | 100 | Rental (BPDB) | HFO | 27 March, 2012 |
| 5. | Katakhali, Rajshahi **(Sponsor: NPSL)** | 50 | Rental (BPDB) | HFO | 23 May, 2012 |
| | **Sub Total (Private)** | **344** | | | |
| | **Total** | **951** | | | |

## Projects commissioned in 2013

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Raujan 25 MW PP | 25 | RPCL | Gas/HFO | 3 May, 2013 |
| 2. | Khulna 150 MW GT | 150 | NWPGCL | Gas/HSD | 23 September, 2013 |
| 3. | Haripur 360 MW CCPP | 412 | EGCB | Gas | December, 2013 |
| **Sub Total (Public)** | | **587** | | | |
| | **Private Sector** | | | | |
| 1. | Regional Import | 500 | Import | | 5 October, 2013 |
| 2. | Ashuganj 51 MW PP | 51 | IPP | Gas | 6 December, 2013 |
| 3. | Shajanullah Power Company | 25 | IPP | Gas | December, 2013 |
| **Sub Total (Private)** | | **576** | | | |
| **Total** | | **1163** | | | |

## Projects commissioned in 2014

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Sirajganj 150 MW PP Conversion | 68 | NWPGCL | Gas/HSD | 14 July, 2014 |
| **Sub Total (Public)** | | **68** | | | |
| | **Private Sector** | | | | |
| 1. | Natore, Rajshahi 50 MW PP | 52 | IPP | HFO | 24 January, 2014 |
| 2. | Baraka-Patenga Chattogram 50 MW PP | 50 | IPP | HFO | 03 May, 2014 |
| 3. | Meghnaghat 300-450 MW CCPP (2nd Unit Dual Fuel: SC GT Unit) | 203 | IPP | HFO/Gas | 29 May, 2014 |
| 4. | Gogonnagar 100 MW PP | 102 | IPP | HFO | 03 June, 2014 |
| 5. | Ghorashal, Narsindi 100 MW PP | 108 | IPP | Gas | 15 July, 2014 |
| 6. | Cumilla (Jangalia) 50 MW PP | 52 | IPP | HFO | 28 December, 2014 |
| **Sub Total (Private)** | | **567** | | | |
| **Total** | | **635** | | | |

## Projects commissioned in 2015

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Ashuganj 225 MW CCPP : SC GT Unit | 142 | APSCL | Gas | 27 April, 2015 |
| 2. | Kodda, Gazipur 150 MW Power Plant | 149 | BPDB- RPCL JV | HFO/Gas | 16 August, 2015 |
| 3. | Bhola 225 MW CCPP: | 194 | BPDB | Gas | 2 September , 2015 |
| 4. | Ashuganj 225 CCPP: ST Unit | 75 | APSCL | Gas | 10 December, 2015 |
| | **Sub Total (Public)** | **560** | | | |
| | **Private Sector** | | | | |
| 1. | Potiya, Chattogram 108 MW Power Plant | 108 | IPP | HFO | 14 January, 2015 |
| 2. | Kathpotti, Munshigonj 50 MW Power Plant | 51 | IPP | HFO | 20 February, 2015 |
| 3. | Ashuganj 195 MW Modular PP | 195 | IPP | Gas | 8 May, 2015 |
| 4. | Meghnaghat 335 MW CCPP (2nd Unit) : ST Unit | 102 | IPP | Gas/HSD | 1 June, 2015 |
| 5. | Bibiyana-(II) 341 MW CCPP (Summit): GT Unit | 222 | IPP | Gas | 6 June, 2015 |
| 6. | Bibiyana-(II) 341 MW CCPP (Summit): ST Unit | 119 | IPP | Gas | 26 December, 2015 |
| | **Sub Total (Private)** | **797** | | | |
| | **Total** | **1,357** | | | |

## Projects commissioned in 2016

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Up gradation of Khulna 150 MW to 225 MW | 72 | NWPGCL | Gas/ HSD | 28 June, 2016 |
| 2. | Ashuganj (South) 450 MW CCPP | 373 | APSCL | Gas | 22 july, 2016 |
| 3. | Shahjibazar CCPP | 330 | BPDB | Gas | GT: 20 August , 2016<br>ST: 20 December, 2016 |
| | **Sub Total (Public)** | **775** | | | |
| | **Private Sector** | | | | |
| 1. | Madangonj 55 MW Peaking Plant (Summit Power) | 55 | IPP | FO | 29 February, 2016 |
| 2. | Barishal 110 MW PP (Summit Power) | 110 | IPP | FO | 5 April, 2016 |
| 3. | Nababganj 55 MW PP | 55 | IPP | FO | 17 Jun, 2016 |
| 4. | Manikganj 55 MW PP | 55 | IPP | FO | 17 August, 2016 |
| 5. | Jamalpur 95 MW PP | 95 | IPP | Gas/ FO | 29 November, 2016 |
| | **Sub Total (Private)** | **370** | | | |
| | **Total** | **1,145** | | | |

## Projects commissioned in 2017

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Bheramara 360 MW CCPP | 278 | NWPGCL | Gas/ HSD | GT: 9 May, 2017 |
| 2. | Ashuganj 450 MW CCPP (South) | 360 | APSCL | Gas | 11 June , 2017 |
| 3. | Chapainawabganj 100 MW PP | 104 | BPDB | HFO | 12 August, 2017 |
| 4. | Shikalbaha 225 MW CCPP | 225 | BPDB | Gas/ HSD | 8 November, 2017 |
| **Sub Total (Public)** | | **967** | | | |
| | **Private Sector** | | | | |
| 1. | Bosila, Keraniganj 108 MW PP | 108 | IPP | HFO | 22 February, 2017 |
| 2. | Kushiara 163 MW CCPP | 109 | IPP | Gas | 25 July, 2017 |
| 3. | Shorishabari Solar plant | 3 | IPP | Solar | 03 August, 2017 |
| **Sub Total (Private)** | | **220** | | | |
| **Total** | | **1,187** | | | |

## Projects commissioned in 2018

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| * | Bheramara 360 MW CCPP (ST unit) | 132 | NWPGCL | Gas/ HSD | 1 January, 2018 |
| 1. | Barapukuria 275 MW (3rd Unit) | 274 | BPDB | Coal | 1 January, 2018 |
| 2. | Ghorashal 365 MW CCPP | 365 | BPDB | Gas | 05 February, 2018 |
| 3. | Sirajganj 225 MW CCPP (2nd Unit) | 220 | NWPGCL | Gas/ HSD | 05 February, 2018 |
| 4. | Siddhirganj 335 MW CCPP | 217 | EGCB | Gas | GT: 30 April, 2018 |
| 5. | Sirajganj 225 MW CCPP (3rd Unit) | 141 | NWPGCL | Gas/ HSD | GT: 9 August, 2018 |
| **Sub Total (Public)** | | **1,349** | | | |
| | **Private Sector** | | | | |
| 1. | Kamalaghat 50 MW PP | 54 | IPP | HFO | 1 January, 2018 |
| 2. | Noapara 100 MW PP (Bangla Track) | 100 | IPP | HSD | 18 April, 2018 |
| * | Kusiara 163 MW CCPP | 54 | IPP | Gas | 27 April, 2018 |
| 3. | DaudKandi 200 MW PP | 200 | IPP | HSD | 27 April, 2018 |
| 4. | Kodda, Gazipur 300 MW PP (Summit) | 300 | IPP | HFO | 10 May, 2018 |

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Private Sector** | | | | |
| 5. | Bramhongaon, Keraniganj 100 MW PP | 100 | IPP | HSD | 30 May, 2018 |
| 6. | Mymensingh 200 MW PP | 200 | IPP | HFO | 16 June, 2018 |
| 7. | Aowrahati, Keranigonj 100 MW (Aggreko) | 100 | IPP | HSD | 29 June, 2018 |
| 8. | Kadda 149 MW PP | 149 | IPP | HFO | 12 July, 2018 |
| 9. | Pangaon, keraniganj 300 MW PP (fast track) | 300 | IPP | HSD | 10 August, 2018 |
| 10. | Power import (2nd HVDC) | 500 | Import | Import | 10 September, 2018 |
| 11. | Teknaf, Coxsbazar 20 MW solar park | 20 | IPP | Solar | 15 September, 2018 |
| 12. | Sirajganj 400±10 MW CCPP | 282 | IPP | GAS/HSD | GT: 04 October, 2018 |
| 13. | Rupsa ,Khulna 105 MW PP | 105 | IPP | HFO | 14 October, 2018 |
| 14. | Chandpur 200 MW PP | 200 | IPP | HFO | 09 November, 2018 |
| 15. | Julda ,CTG 100 MW PP (Unit-3) | 100 | IPP | HFO | 09 November, 2018 |
| 16. | Ashuganj 150 MW PP (Midland) | 150 | IPP | HFO | 27 November, 2018 |
| **Sub Total (Private)** | | **2,914** | | | |
| **Total** | | **4,381** | | | |

## Projects commissioned in 2019

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Sirajgonj 225 MW CCPP (3rd Unit) (ST Unit) | 79 | NWPGCL | Gas/HSD | 20 January 2019 |
| 2. | Bibiana #3 CCPP | 400 | BPDB | Gas | GT: 06 February, 2019<br>ST: 24 September, 2019 |
| 3. | Modumoti, Bagerhat 100 MW PP | 105 | NWPGCL | HFO | 15 April,2019 |
| 4. | Gazipur 100 MW PP | 105 | RPCL | HFO | 25 May,2019 |
| 5. | Kaptai Solar Power Plant | 07 | BPDB | Solar | 28 May, 2019 |
| 6. | Siddirganj 335 MW CCPP ST Unit | 118 | EGCB | Gas | ST : 9 September, 2019 |
| **Sub Total (Public)** | | **814** | | | |
| | **Private Sector** | | | | |
| 1. | Baghabari 200 MW PP | 200 | IPP | HSD | 16 February, 2019 |
| 2. | Jamalpur 115 MW Power Plant | 115 | IPP | HFO | 19 February, 2019 |

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Private Sector** | | | | |
| 3. | Bogura 113 MW PP (unit-2) | 113 | IPP | HFO | 30 March, 2019 |
| * | Sirajganj 400±10 MW CCPP | 132 | GAS/HSD | IPP | ST: 09 April, 2018 |
| 4. | Shikalbaha 105 MW PP | 105 | IPP | HFO | 24 May, 2019 |
| 5. | Anowara, Chattogram 300 MW PP | 300 | IPP | HFO | 22 June, 2019 |
| 6. | Majipara, Tetulia Solar plant | 8 | IPP | Solar | 23 July, 2019 |
| 7. | Rangpur 113 MW Power Plant | 113 | IPP | HFO | 12 August, 2019 |
| 8. | Shikalbaha 110 MW PP (Kornofuly Power) | 110 | IPP | HFO | 20 August, 2019 |
| 9. | Shikalbaha, Chattogram 54 MW PP | 54 | IPP | HFO | 31 August, 2019 |
| 10. | Bogura 113 MW Power Plant (Unit-1) | 113 | IPP | HFO | 17 November, 2019 |
| 11. | Feni 114 MW Power Plant | 114 | IPP | HFO | 24 November, 2019 |
| 12. | Choumohoni, Noakhali 113 MW Power Plant | 113 | IPP | HFO | 31 December, 2019 |
| **Sub Total (Private)** | | **1,590** | | | |
| **Total** | | **2,404** | | | |

## Projects commissioned in 2020 (Up to June)

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Sylhet 150 MW PP Conversion | 87 | BPDB | Gas | 14 March, 2020 |
| 2. | Payra, Potuakhali 1320 Coal Fired Power Plant (1st Unit) | 622 | BCPCL (NWPGCL) | Imported Coal | 15 May, 2020 |
| **Sub Total (Public)** | | **709** | | | |
| | **Private Sector** | | | | |
| 1. | Julda, Chattogram 100 MW PP (Accorn Inf) (Unit-2) | 100 | IPP | HFO | 20 March, 2020 |
| 2. | Meghnaghat 104 MW Power Plant | 104 | IPP | HFO | 30 June, 2020 |
| **Sub Total (Private)** | | **204** | | | |
| **Total** | | **913** | | | |

# Future generation projects

## Projects to be commissioned in 2020 (From July to December)

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Expected Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Ghorasal 4th Unit Repowering (addition) | 200 | BPDB | Gas | December, 2020 |
| * | Payra, Potuakhali 1320 Coal Fired Power Plant (2nd unit) | 660 | BCPCL (NWPGCL) | Imported Coal | December, 2020 |
| 2. | Bibiana South 383 MW CCPP | 383 | BPDB | Gas | GT: October 2020<br>ST: December 2020 |
| 3. | Shajibazar 100 MW PP | 100 | BPDB | Gas | December, 2020 |
| 4. | Mirshorai, Chattogram 150 MW PP | 160 | BR Power Gen | HFO/Gas | December, 2020 |
| 5. | Ghorasal 3rd Unit Repowering | 206 | BPDB | Gas | December, 2020 |
| **Sub Total (Public)** | | **1,709** | | | |
| | **Private Sector** | | | | |
| 1. | Potiya, Chattogram 100 MW PP (Precision Energy) | 116 | IPP | HFO | September, 2020 |
| 2. | Bhola 220 MW CCPP (D/F) (Saporji Palonji) | 220 | IPP | Gas/HSD | September, 2020 |
| 3. | Bhairab 50 MW PP | 54 | IPP | HFO | September, 2020 |
| 4. | Manikgonj 162 MW PP | 162 | IPP | HFO | September, 2020 |
| 5. | Thakurgao 100 MW Power Plant | 115 | IPP | HFO | September, 2020 |
| 6. | Kanchan, Narayangonj 55 MW PP | 55 | IPP | HFO | October, 2020 |
| 7. | Chandpur 115 MW Power Plant | 115 | IPP | HFO | December, 2020 |
| 8. | Tangail 22 MW PP (Polli Power) | 22 | IPP | HFO | December, 2020 |
| **Sub Total (Private)** | | **859** | | | |
| **Total** | | **2,568** | | | |

## Projects to be commissioned in 2021

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Expected Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Ashuganj 400 MW CCPP (East) | 400 | APSCL | Gas | June, 2021 |
| 2. | Khulna 330 MW CCPP (D/F) | 336 | BPDB | Gas/HSD | SC: June, 2021<br>ST: December, 2021 |
| 3. | Sreepur 150 MW Power Plant | 163 | B-R Powergen | HFO | December, 2021 |
| 4. | BIFPCL, Rampal, Coal Fired Power Plant | 1,240 | BIFPCL | Imported Coal | September, 2021 |
| **Sub Total (Public)** | | **2,139** | | | |

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Expected Commissioning Date |
|---|---|---|---|---|---|
| | **Private Sector** | | | | |
| 1. | Potuakhali 150 MW PP (United) | 150 | IPP | HFO | December, 2021 |
| **Sub Total (Private)** | | **150** | | | |
| **Total** | | **2,289** | | | |

## Projects to be commissioned in 2022

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Expected Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Sayedpur 150 MW PP | 161 | BPDB | HSD | June, 2022 |
| 2. | Mymenshingh 360 MW CCPP | 420 | RPCL | Gas/HSD | June, 2022 |
| 3. | Raozan 400±10% MW CCPP (1st Unit) | 450 | BPDB | LNG | December, 2022 |
| **Sub Total (Public)** | | **981** | | | |
| | **Private Sector** | | | | |
| 1. | Adani Power, Jharkhand, India | 1496 | IPP | Import | June, 2022 |
| 2. | Meghnaghat 600 MW CCPP (Summit) | 583 | IPP | LNG | March, 2022 |
| 3. | Meghnaghat 600 MW CCPP (Unique) | 584 | IPP | LNG | August, 2022 |
| 4. | LNG based 750 MW CCPP (Reliance) | 718 | IPP | LNG | September, 2022 |
| 5. | Chattogram 2 x 612 MW Coal Fired Power Project (S.Alam Group) | 1,224 | IPP | Imported Coal | December, 2022 |
| **Sub Total (Private)** | | **4,605** | | | |
| **Total** | | **5,586** | | | |

## Projects to be commissioned in 2023

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Rupsa 800 MW CCPP | 880 | NWPGCL | LNG | January, 2023 |
| 2. | Payra, Potuakhali 1320 Coal Fired Power Plant (2nd Phase) | 1,244 | BCPCL (NWPGCL) | Imported Coal | December, 2023 |
| 3. | Patuakhali 1320 (2x660) MW USCPP (Phase-1) | 1,247 | RNPCL | Imported Coal | December, 2023 |
| 4. | Haripur 250 MW CCPP | 250 | BPDB | LNG | December, 2023 |
| **Sub Total (Public)** | | **3,621** | | | |
| | **Private Sector** | | | | |
| 1. | Borisal 307 MW Coal Fired Power Plant | 307 | IPP | Imported Coal | January, 2023 |
| 2. | Meghnaghat 500 MW CCPP (Unlima) | 450 | IPP | LNG | December, 2023 |
| **Sub Total (Private)** | | **757** | | | |
| **Total** | | **4,378** | | | |

## Projects to be commissioned in 2024

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Matarbari 1200 MW USCPP | 1,200 | CPGCBL | Imported Coal | June, 2024 |
| 2. | Payra 1200 MW LNG based CCPP (1st Phase) | 1,200 | NWPGCL | LNG | December, 2024 |
| | **Sub Total (Public)** | **2,400** | | | |
| | **Private Sector** | | | | |
| 1. | Anowara 590 MW CCPPC (United) | 590 | IPP | LNG | January, 2024 |
| | **Sub Total (Private)** | **590** | | | |
| | **Total** | **2,990** | | | |

## Projects to be commissioned in 2025

| Sl. No. | Name of the Power Plant | Capacity (MW) | Ownership | Type of Fuel | Commissioning Date |
|---|---|---|---|---|---|
| | **Public Sector** | | | | |
| 1. | Rooppur Nuclear Power Plant (1st Unit) | 1200 | NPCBL | NC | June, 2025 |
| 2. | Ghorasal 225 MW CCPP | 225 | BPDB | LNG | June, 2025 |
| 3. | Shiddirgonj 600±10% MW CCPP | 550 | BPDB | LNG | June, 2025 |
| | **Sub Total (Public)** | **1,975** | | | |
| | **Private Sector** | | | | |
| 1. | Mirshorai 1320 MW Coal Fired PP (Hangzhou Group) | 1,240 | IPP | I. Coal | June, 2025 |
| | **Sub Total (Private)** | **1,240** | | | |
| | **Total** | **3,215** | | | |

* Already shown as running power plant.

Power Secretary and BPDB high officials talking to Plant officials while visiting Bhola 225 MW Power Plant.

# Retirement Schedule up to 2025

| SL No. | Name of Power Station/ Location | Unit Type | Ownership | Type of Fuel | COD Date (DD/MM/YY) | Retirement Date (DD/MM/YY) | Installed Capacity (MW) |
|---|---|---|---|---|---|---|---|
| 1 | Haripur 32 MW GT2 | CT | Public | Gas | 15-Nov-1987 | 30-Jun-2020 | 32 |
| 2 | Bheramara 20 MW GT2 | CT | Public | HSD | 27-Apr-1976 | 30-Jun-2020 | 20 |
| 3 | Bheramara 20 MW GT3 | CT | Public | HSD | 19-Jan-1980 | 30-Jun-2020 | 20 |
| 4 | Barishal 20 MW GT1 | CT | Public | HSD | 5-Aug-1984 | 30-Jun-2020 | 20 |
| 5 | Barishal 20 MW GT2 | CT | Public | HSD | 4-Oct-1987 | 30-Jun-2020 | 20 |
| 6 | Ghorasal 55 MW ST1 | ST | Public | Gas | 16-Jun-1974 | 31-Dec-2020 | 55 |
| 7 | Ghorasal 55 MW ST2 | ST | Public | Gas | 13-Feb-1976 | 31-Dec-2020 | 55 |
| 8 | Ghorasal 210 MW STunit4 | ST | Public | Gas | 18-Mar-1989 | 31-Dec-2020 | 210 |
| | **Sub-Total (Public)** | | | | | | **432** |
| 9 | Kumargoan, Sylhet 3 Yrs RPP (Energyprima) | RE | Private | Gas | 23-Jul-2008 | 4-Jan-2020 | 50 |
| | **Sub-Total (Private)** | | | | | | **50** |
| | **Total (2020)** | | | | | | **482** |
| 10 | Ashuganj 150 MW ST3 | ST | Public | Gas | 17-Dec-1986 | 17-Dec-2021 | 150 |
| 11 | Ghorasal 210 MW ST unit3 | ST | Public | Gas | 14-Sep-1986 | 31-Dec-2021 | 210 |
| 12 | Rangpur 20 MW PP | CT | Public | HSD | 16-Aug-1988 | 31-Dec-2021 | 20 |
| 13 | Saidpur 20 MW PP | CT | Public | HSD | 17-Sep-1987 | 31-Dec-2021 | 20 |
| | **Sub-Total (Public)** | | | | | | **400** |
| 14 | Ghorasal 78 MW Quick Rental PP (3 Years, Max Power) | RE | Private | Gas | 27-May-2011 | 8-Jan-2021 | 78 |
| 15 | Fenchugonj 3 Years RPP (Energy Prima) | RE | Private | Gas | 15-Feb-2012 | 14-Feb-2021 | 44 |
| 16 | Bhola 3 Years RPP (Venture) | CT | Private | Gas | 12-Jul-2009 | 11-Jul-2021 | 33 |
| 17 | Madangonj 102 MW Q. Rental PP (5 Years, Summit Power) | RE | Private | HFO | 1-Apr-2011 | 31-Mar-2021 | 102 |
| 18 | Meghnaghat 100 MW Q. Rental PP (5 Years, IEL) | RE | Private | HFO | 8-May-2011 | 7-May-2021 | 100 |
| 19 | Noapara 40 MW Q. RPP (5 Years, Khan Jahan Ali) | RE | Private | HFO | 29-May-2011 | 28-May-2021 | 40 |
| 20 | Khulna 115 MW Q. Retal PP (5 Years, KPCL) | RE | Private | HFO | 1-Jun-2011 | 31-May-2021 | 115 |
| 21 | Siddirganj 100 MW Q.Rental PP (5 Years, Dutch Bangla Power) | RE | Private | HFO | 21-Jul-2011 | 20-Jul-2021 | 100 |
| 22 | Summit_Chandina_2nd Phase(REB) | RE | Private | Gas | 15-Nov-2006 | 14-Nov-2021 | 14 |
| 23 | Summit_Madubdi_2nd Phase(REB) | RE | Private | Gas | 16-Dec-2006 | 15-Dec-2021 | 24 |
| | **Sub-Total (Private)** | | | | | | **650** |
| | **Total (2021)** | | | | | | **1050** |
| 24 | Ashuganj 150 MW ST4 | ST | Public | Gas | 4-May-1987 | 5-Apr-2022 | 150 |
| 25 | Sylhet 20 MW PP | CT | Public | Gas | 13-Dec-1986 | 30-Jun-2022 | 20 |
| 26 | Haripur 32 MW GT1 | CT | Public | Gas | 31-Oct-1987 | 30-Jun-2022 | 32 |
| 27 | Baghabari 71 MW GT | CT | Public | Gas | 4-Jun-1991 | 30-Jun-2022 | 71 |
| 28 | Fenchuganj 91 MW CCPP (GT1) | CC | Public | Gas | 24-Dec-1994 | 30-Jun-2022 | 32 |
| 29 | Fenchuganj 91 MW CCPP (GT2) | CC | Public | Gas | 31-Jan-1995 | 30-Jun-2022 | 32 |
| 30 | Fenchuganj 91 MW CCPP (ST) | CC | Public | Gas | 8-Jun-1995 | 30-Jun-2022 | 33 |
| | **Sub-Total (Public)** | | | | | | **370** |
| 31 | Amnura, Chapainawabgonj Q.RPP (Sinha Power ) | RE | Private | HFO | 13-Jan-2012 | 12-Jan-2022 | 50 |
| 32 | Bhola 80 MW Q. Rental PP (3 Years, Aggreco) | RE | Private | Gas | 31-May-2011 | 17-Mar-2022 | 95 |
| 33 | Julda, 100 MW Q.RPP (5 Years, Acron Infra Service) | RE | Private | HFO | 26-Mar-2012 | 25-Mar-2022 | 100 |
| 34 | Keranigonj 100 MW Q.Rental PP (Power Pack) | RE | Private | HFO | 27-Mar-2012 | 26-Mar-2022 | 100 |
| 35 | Katakhali 50 MW Q. Rental PP( NPSL) | RE | Private | HFO | 22-May-2012 | 21-May-2022 | 50 |
| 36 | Bogura 3 Years RPP (Energy Prima) | RE | Private | Gas | 13-Nov-2011 | 12-Nov-2022 | 20 |
| 37 | Summit_Ashulia_2nd Phase(REB) | RE | Private | Gas | 4-Dec-2007 | 3-Dec-2022 | 34 |
| | **Sub-Total (Private)** | | | | | | **449** |
| | **Total (2022)** | | | | | | **819** |
| 38 | Raozan 210 MW Unit-1 | ST | Public | Gas | 28-Mar-1993 | 30-Jun-2023 | 210 |
| 39 | Raojan 210 MW Unit- 2 | ST | Public | Gas | 21-Sep-1997 | 30-Jun-2023 | 210 |
| 40 | Ashuganj 150 MW ST5 | ST | Public | Gas | 21-Mar-1988 | 21-Mar-2023 | 150 |
| 41 | Shazibar 2x35 MW PP | CT | Public | Gas | 25-Oct-2000 | 25-Oct-2023 | 70 |
| | **Sub-Total (Public)** | | | | | | **640** |

| SL No. | Name of Power Station/ Location | Unit Type | Ownership | Type of Fuel | COD Date (DD/MM/YY) | Retirement Date (DD/MM/YY) | Installed Capacity (MW) |
|---|---|---|---|---|---|---|---|
| 42 | Ashuganj 55 MW 3 Yrs RPP (Precision Energy) | RE | Private | Gas | 7-Apr-2010 | 6-Apr-2023 | 55 |
| 43 | Noapara 100 MW PP (Bangla Trac) | RE | Private | HSD | 18-Apr-2018 | 17-Apr-2023 | 100 |
| 44 | Doudkandi 200 MW PP (Bangla Trac) | RE | Private | HSD | 27-Apr-2018 | 26-Apr-2023 | 200 |
| 45 | Bramongao 100 MW PP (Aggreko) | RE | Private | HSD | 30-May-2018 | 29-May-2023 | 100 |
| 46 | Bogura 15 Years RPP (GBB) | RE | Private | Gas | 17-Jun-2008 | 16-Jun-2023 | 20 |
| 47 | Aorahati 100 MW PP (Aggreko) | RE | Private | HSD | 29-Jun-2018 | 28-Jun-2023 | 100 |
| 48 | Pangao 300 MW PP (APR) | RE | Private | HSD | 10-Aug-2018 | 09-Aug-2023 | 300 |
| 49 | Summit_Chandina_1st Phase(REB) | RE | Private | Gas | 1-Sep-2003 | 31-Aug-2023 | 11 |
| 50 | Summit_Madubdi_1st Phase(REB) | RE | Private | Gas | 1-Sep-2003 | 31-Aug-2023 | 11 |
| 51 | Summit_Ashulia_1st Phase(REB) | RE | Private | Gas | 1-Sep-2003 | 31-Aug-2023 | 11 |
| 52 | Tangail SIPP (Doreen) | RE | Private | Gas | 12-Nov-2008 | 11-Nov-2023 | 22 |
| 53 | Haripur 360 CCPP | CC | Private | Gas | 1-Dec-2001 | 30-Nov-2023 | 360 |
| 54 | Narsindi SIPP (REB) | RE | Private | Gas | 21-Dec-2008 | 20-Dec-2023 | 22 |
| | **Sub-Total (Private)** | | | | | | **1312** |
| | **Total (2023)** | | | | | | **1952** |
| 55 | Baghabari 100 MW GT | CT | Public | Gas | 25-Nov-2001 | 24-Nov-2024 | 100 |
| | **Sub-Total (Public)** | | | | | | **100** |
| 56 | Hobiganj SIPP ( REB) | RE | Private | Gas | 10-Jan-2009 | 9-Jan-2024 | 11 |
| 57 | Shahjibazar 86 MW PP (15 Yrs RPP) | RE | Private | Gas | 10-Feb-2009 | 9-Feb-2024 | 86 |
| 58 | Feni SIPP (Doreen) | RE | Private | Gas | 16-Feb-2009 | 15-Feb-2024 | 22 |
| 59 | Baghabari 200 MW PP (Paramount) | RE | Private | HSD | 16-Feb-2019 | 15-Feb-2024 | 200 |
| 60 | Ullapara SIPP ( REB) | RE | Private | Gas | 2-Mar-2009 | 1-Mar-2024 | 11 |
| 61 | Kumkargoan 50 MW PP (15 Years RPP) ( Desh Energy) | RE | Private | Gas | 18-Mar-2009 | 17-Mar-2024 | 10 |
| 62 | Feni SIPP (REB) | RE | Private | Gas | 25-Apr-2009 | 24-Apr-2024 | 11 |
| 63 | Mouna, Gazipur SIPP (REB) | RE | Private | Gas | 12-May-2009 | 11-May-2024 | 33 |
| 64 | Barobkundo SIPP (Regent Power) | RE | Private | Gas | 23-May-2009 | 22-May-2024 | 22 |
| 65 | Rupganj , Narayanganj SIPP ( REB) | RE | Private | Gas | 9-Jun-2009 | 8-Jun-2024 | 33 |
| 66 | Jangalia, Cumilla SIPP (Summit) | RE | Private | Gas | 25-Jun-2009 | 24-Jun-2024 | 33 |
| 67 | Fenchuganj 15 Years RPP (Barakatullah) | RE | Private | Gas | 24-Oct-2009 | 23-Oct-2024 | 51 |
| 68 | Meghnaghat power Ltd. (450 MW) | CC | Private | Gas | 26-Nov-2002 | 25-Nov-2024 | 450 |
| | **Sub-Total (Private)** | | | | | | **973** |
| | **Total (2024)** | | | | | | **1073** |
| 69 | Tongi 105 MW PP | CT | Public | Gas | 28-Mar-2005 | 27-Mar-2025 | 105 |
| 70 | Bheramara 20 MW PP GT1 | CT | Public | HSD | 28-Jul-1976 | 30-Jun-2025 | 20 |
| | **Sub-Total (Public)** | | | | | | **125** |
| | **Sub-Total (Private)** | | | | | | **0** |
| | **Total (2025)** | | | | | | **125** |

## Summary

| Year | Public Sector | Private Sector | Total |
|---|---|---|---|
| 2020 | 432 | 50 | 482 |
| 2021 | 400 | 650 | 1050 |
| 2022 | 370 | 449 | 819 |
| 2023 | 640 | 1312 | 1952 |
| 2024 | 100 | 973 | 1073 |
| 2025 | 125 | 0 | 125 |
| **Total** | **2067** | **3434** | **5501** |

# Implementation, Planning & Development of Renewable Energy Based Projects / Systems

Bangladesh has been conserving a GDP growth of more than 7.5% for quite some time despite various adversities. Its economy grew 5.24% last fiscal year (2019-20). This economic development has caused an escalation in the demand of electricity consumption; which is sure to rise more & more in imminent future. Electricity production of the country is needed to be upgraded with a view to coping with the enhanced demand and continuing economic prosperity. At present around 97% of the people have access to electricity and per capita generation (including captive power & RE) is only 512 kWh in Bangladesh. So, the Government has set up a goal of providing electricity to all by 2021 and to ensure reliable and quality supply of electricity at a reasonable and affordable price. Since the fossil fuel is depleting rapidly, the GoB has adopted important strategies to develop renewable energy as part of fuel diversification program. In line with the Renewable Energy policy, the Government is committed to facilitate both public and private sector investment in renewable energy projects to substitute indigenous non-renewable energy supplies and scale up contributions of existing renewable energy based electricity productions. The Government has given priority on developing renewable energy resources to improve energy security and to establish a sustainable energy regime alongside of conventional energy sources. Government has made the most strategic power generation plan in terms of fuel diversity. The change has been made considering availability of gas supply in future and analyzing primary fuel supply scenarios for future power generation. So, Renewable Energy based projects can help Bangladesh to meet its policy goals for secure, reliable and affordable energy access to people.

BPDB has taken systematic steps to implement renewable energy based projects and to promote Energy Efficiency Measures from the year 2009 to achieve the policy target.

In the **fiscal year 2019-2020**, BPDB has taken the following steps for **implementation, planning & development of renewable energy sector**:

## Renewable Energy Based Rooftop Solar Projects

Under Four Distribution zones of BPDB, total 1338.315 kWp solar system (including 103 Nos Net Metering system of capacity 551.1 kW) has been installed both by BPDB and Private/Consumer's initiatives which include both off-grid and grid tied technologies. Besides, Installation of total 440.94 kWp is in pipeline to be installed by BPDB and Private/ Consumer's initiatives.

## Ongoing Utility Scale Solar PV Projects

### BPDB's Own Project

#### *Project under Planning*

- Construction of 100 MWp Solar Photovoltaic Grid Connected Power Plant at Sonagazi, Feni.
- Construction of 55 MWp Solar Photovoltaic Grid-Connected Power Plant at Gangachara, Rangpur.
- Construction of 20 MWp Grid-Connected Floating Solar Photovoltaic Power plant at Kaptai Lake, Rangamati.

### Independent Power Producer (IPP) Projects

#### *(i) Projects under Construction*

- 0.813 kWp Grid Tied Rooftop Solar PV Projecton 23 nos. Government Building (8237.35 m2 rooftop area) at Jamalpur District.
- Implementation of 45-55 MW (AC) Grid Tied Solar Power Project on BOO Basis at Rangunia, Chattogram.
- "32 MW (AC) Solar Park at Dharmapasha, Sunamganj by Haor Bangla-Korea Green Energy Ltd.
- "50 MW (AC) Solar Park" at Sutiakhali, Gouripur, Mymensingh District, Bangladesh by HETAT-DITROLIC-IFDC Solar Consortium.
- "30MW (AC) Solar Park" at Gangachara, Rangpur by Intraco CNG Ltd & Juli New Energy Co. Ltd.
- "200 MW (AC) Grid Tied Solar PV Power Project" at Sundarganj, Gaibandha by Beximco Power Company Ltd & TBEA XinJiangSunOasisCo.Ltd.
- "5 MW (AC) Solar Park" at Patgram, Lalmonirhat by Green Housing & Energy Ltd (PV Power Patgram Ltd).
- "5MW (AC) Solar Park" at Sylhet by EikiShoji Co Ltd, Japan&Sun Solar Power Plant Ltd.
- "35 MW (AC) Solar Park" at Manikganj by Consortium of Spectra Engineers Limited & Shunfeng Investment Limited.
- "100 MW (AC) Solar Park" at Bora Durgapur, Mongla, Bagerhat by a Consortium of Energon Technologies FZE, UAE and China Sunergy Co. Ltd. (CSUN).
- "30 MW (AC) Solar park" at Tetulia, Panchagarh by Beximco Power Company Ltd & Jiangsu Zhongtian Technology Co Ltd., China.


Signing of Contract for establishing a 30 MW Solar Park at Panchagar between BPDB and Korotoa Solar Ltd.

### *(ii) Projects under Planning*

- "50 MW (AC) Solar park" at Panchagarh by 8minutenergy Singapore Holdings 2, Pte.Ltd.
- "100 MW (AC) Solar park" at Pabna by Shapoorji Pallonji Infrastructure Capital Company Private Limited (India).
- "20 MW Solar project" at Deviganj, Panchagarh by Rahimafrooz Shunfeng Consortium.
- "10 MW Solar project" at Moulovibazar by Symbior Solar & Holland Consortium.
- "50 MW Solar project" at Dimla, Nilphamari by Scatec Solar ASA, Norway.
- "100 MW Solar project" at Madarganj, Jamalpur by JV of CREC International Renewable Energy Co. Ltd. (CIRE & BR) Powergen Ltd.
- "3.77 MW Solar Power Plant" at Bera, pabna by Joint Venture of Mostafa Motors Ltd. Bangladesh and Solarland (Wuxi) Electric Science and Technology Co. Ltd. China.
- "50 MW Solar Power Plant" at Dhamrai, Dhaka by Consortium of IBV Vogt GmbH & SS Agro Complex Ltd.
- 50 MW Grid Tied Solar Power Plant near Bariahaat 132/33 kV grid substation.
- 50 MW Grid Tied Solar Power Plant near Chuadanga 132/33 kV grid substation.
- 50 MW Grid Tied Solar Power Plant near Netrokona 132/33 kV grid Substation.

## Ongoing Wind Power Projects

### BPDB's Own Project

- 2MW (8x250 kW) Capacity Wind Power Plant on Turnkey Basis at the bank of the river Jamuna adjacent to the existing Sirajganj 220 MW Power Plant Sirajganj, Bangladesh.

### Independent Power Producer (IPP) Projects

- "30 MW Grid Tied Wind Power Project" at Sonagazi, Feni by Consortium of Bhagwati Products Ltd (India), Regen Powertech Private Ltd (India) and Siddhant Wind Energy Pvt. Ltd.
- "60 MW Wind Power Plant" at Cox's Bazar by US DK Green Energy (BD) Ltd.
- 50 MW Wind Power Project near to Kachua 132/33 kV Grid Substation, Chandpur.
- 50 MW Wind Power Project near to Mongla 132/33 kV Grid Substation, Mongla, Bagerhat.
- 50 MW Wind Power Project near to Inani, Cox's Bazar.

## Ongoing Solid Waste to Energy based Power Projects

### Independent Power Producer (IPP) Projects

#### *Projects under planning*

- Narayanganj 5 MW Municipal Solid Waste based Power Plant at Narayanganj.


Teknaf 20 MW Solar Power Plant


Tetulia 8 MW Solar Power Plant

## Ongoing Distribution Projects

With the aim of renovation and expansion of existing distribution network for reduction of distribution line loss, electrification new areas and improved customer satisfaction, BPDB has undertaken various distribution projects. The under-construction distribution projects are as follows:

| Sl. No. | Name of the Projects | Projects costs | | | Year of completion | Cumu. progress (%) |
|---|---|---|---|---|---|---|
| | | Local (Lakh Tk.) | Foreign (Lakh Tk.) | Total (Lakh Tk.) | | |
| 1. | Power Distribution System Development Project, Chattogram Zone (1st Revised). | 75614.99 | 62271.1 | 142148.41 | June 2021 | 81.25 |
| 2. | Power Distribution System Development, Chattogram Zone (2nd Phase). | 255190.55 | 0 | 255190.55 | June 2022 | 5.07 |
| 3. | Power Distribution System Development Project, Rangpur Zone (1st Revised). | 133428.73 | 0 | 133428.73 | June 2021 | 73.00 |
| 4. | Power Distribution System Development Project, Sylhet Division (1st Revised). | 205295.28 | 0 | 205295.28 | June 2021 | 79.00 |
| 5. | Power Distribution System Development Project, Rajshahi Zone (1st Revised). | 96416.01 | 0 | 96416.01 | December 2020 | 89.00 |
| 6. | Power Distribution System Development Project, Mymensingh Zone. | 157546.98 | 0 | 157546.98 | December 2021 | 35.24 |
| 7. | Power Distribution System Development Project, Cumilla Zone. | 152176.17 | 0 | 152176.17 | December 2021 | 39.10 |
| 8. | Development of Power Distribution System in Three Hilly Districts (1st Revised). | 55810.79 | 0 | 55810.79 | December 2020 | 80.02 |
| 9. | Pre-payment metering project for distribution Cumilla & Mymensingh zones. | 1825.74 | 10404.85 | 13249.22 | December 2020 | 28.78 |

## Future Distribution Projects

From the view point of continuous improvement in retail sales performance and consumers' service & satisfaction, BPDB has under taken the following distribution projects:

| Sl. No. | Name of the Projects |
|---|---|
| 1. | Hundred Percent Reliable and Sustainable Electrification of Hatiya Island, Nijhum Island, Kutubdia Island & Char-Sonarampur (Ashuganj). |
| 2. | Development of Power Distribution System in Three Hilly Districts (2nd Phase). |
| 3. | Pre-payment Metering in four Distribution Zones of BPDB. |

# Chapter 3

# Reforms & Other Activities

# Reform and Restructure

Government has given top priority in power sector development and has made commitment to provide access to electricity to all citizens across the country by 2021. In order to achieve this goal Government has undertaken a number of reform measures, some of them have already been implemented. Till-to-date the implementation status is as follows:

- The Electricity Directorate was established in 1948 in order to plan and improve power supply situation of the country. Considering the increasing demand of electricity and its importance in agriculture & industry "Water & Power Development Authority" (WAPDA) was created in 1959. Later the "WAPDA" was divided into two parts namely "Bangladesh Power Development Board" & "Bangladesh Water Development Board" by the Presidential Order 59 (PO-59) of 31st May 1972. As a result, Bangladesh Power Development Board was entrusted with the responsibilities of Operation, Maintenance, and Development of Generation, Transmission & Distribution facilities of electricity throughout the country.
- By the ordinance (Ordinance No-LI of 1977) Rural Electrification Board (REB) was established for the development of electricity in the rural areas for the effective benefit of rural people on October, 1977.
- Under the reform program Dhaka Electric Supply Authority (DESA) was created for the proper management & electrification in Dhaka city and its adjoining areas in 1990.
- DESCO has started functioning from 1996 after taking over part of the distribution network of DESA.
- DESA was reformed again as Dhaka Power Distribution Company (DPDC) in July, 2008.
- Under the Companies Act 1994, Power Grid Company (PGCB) was created in 1996 to look after the transmission system as a subsidiary company of BPDB.
- Ashuganj Power Station has been converted into Ashuganj Power Station Company Ltd. (APSCL) in 1996, as a subsidiary company of BPDB.
- Northern Electricity Supply Company Ltd. (NESCO) was created in 2016 to look after the distribution system of Rajshahi and Rangpur zone. NESCO is a distribution subsidiary of BPDB.
- West Zone Power Distribution Company Ltd. (WZPDCL) was created in 2002 to look after the distribution system of Barishal and Khulna Zone. WZPDCL is a distribution subsidiary of BPDB.
- Electricity Generation Company of Bangladesh (EGCB) has been formed as a Generation Company since 2004 as a subsidiary company of BPDB. EGCB has implemented 2x105 MW Peaking Power Plant at Shiddirgonj, 412 MW CCPP at Haripur and 335 MW CCPP at Shiddirgonj.
- North West Power Generation Company (NWPGCL) was created in 2008 as a subsidiary company of BPDB. NWPGCL has implemented 225 MW Combined Cycle Power Plant at Sirajganj, 225 MW Combined cycle Power Plant at Khulna , 360 MW Combined cycle Power Plant at Bheramara , 225 MW Combined cycle Power Plant at Sirajganj (2nd unit), 225 MW Combined cycle Power Plant at Sirajganj (3rd unit) and 105 MW power plant at modhumoti, Bagerhat. NWPGCL JV with CMC china named as BCPCL which is implemented 2x660 MW coal based power plant (1st phase) at paira potuakhali.
- BPDB is in the process of indentifying Strategic Business Unit (SBU) for its generation and distribution sectors as a new reform initiative. Functional and financial performance of the SBUs will be operated like components of a corporate body and will be evaluated separately under the legal frame work of existing BPDB structure.

Functional, financial and human resource sharing is much easier and highly effective under one legal binding in a big organization rather than small corporate power entities.

# HRD Activities

BPDB's vision is to provide quality and reliable electricity to the people of Bangladesh for desired economic, social and human development of the country undertaking institutional and structural reforms leading to the creation of an organization of international standard. In order to achieve this vision, it is needed to develop specialized skilled services in the field of operation & maintenance with outstanding performance in Generation, Transmission & Distribution. Human resource development is the key for successful implementation of development projects of hi-tech nature in power sector and efficient operation of these facilities to keep tariff at affordable range. Sector entities have program to train 60 hours/year/employee and have a plan to increase its 100 hours in future. It is very important to ensure quality training otherwise all efforts will go in vain.

BPDB has been implementing all its training Programs through Directorate of Training & Career Development. Training Academy of Kaptai, four regional training centers and two specialized training center for power plants are providing training courses for technical and non-technical manpower of power sector entities. Regional Training Centers of BPDB are located at Tongi, Rajshahi, Chattogram, Narshingdi and Cox's Bazar. Training centers at Ghorasal is dedicated to train power plant engineers & staff. Efforts are underway to establish state-of-the-art training academy at Keraniganj near Dhaka for this purpose.

**Achievement against training program conducted during FY 2019-20 is shown below**

| Sl. No. | Name of Training Center/Academy | No. of Course | Total No. of Trainees |
|---|---|---|---|
| 1. | Engineering Academy, Kaptai, Rangamati | 61 | 1995 |
| 2. | Regional Training Centre, Tongi, Gazipur. | 48 | 2001 |
| 3. | Chattogram Training Centre, Chattogram. | 52 | 2096 |
| 4. | Rajshahi Training Centre, Rajshahi | 67 | 2312 |
| 5. | Ghorashal Training Centre, Narsingdi | 81 | 2577 |
| 6. | Directorate of Training & Career Development, Dhaka. | 61 | 2089 |
| 7. | Training Academy, Cox's Bazar | 67 | 2222 |
| 8. | On The Job Training | 161 | 8001 |
| 9. | Training in Abroad | 81 | 1322 |
| 10. | Seminar/Workshop | 59 | 1614 |
| **Total** | | **738** | **26229** |

Karnafuli 110 MW Power Plant

Rangpur 113 MW Power Plant

Anowara 300 MW Power Plant

Shikalbaha 105 MW Power Plant


Jamalpur 115 MW Power Plant

Potiya 54 MW Power Plant

Bogura 113 MW Power Plant

Baghabari 200 MW Power Plant

Kaptai 7.4 MW Solar Power Plant

# Chapter 4

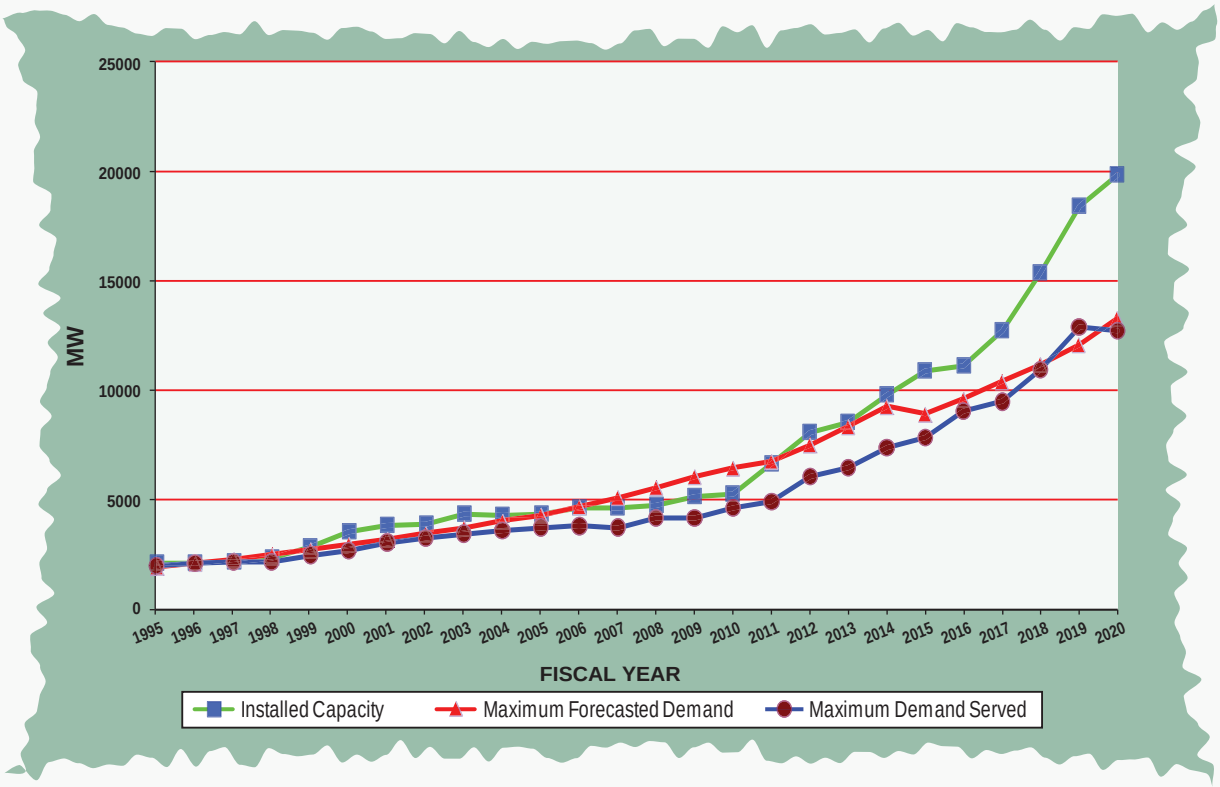
# Tables and Charts

## Installed Capacity, Present Capacity (Derated), Maximum Forcasted Demand Maximum Demand served and Energy not Served

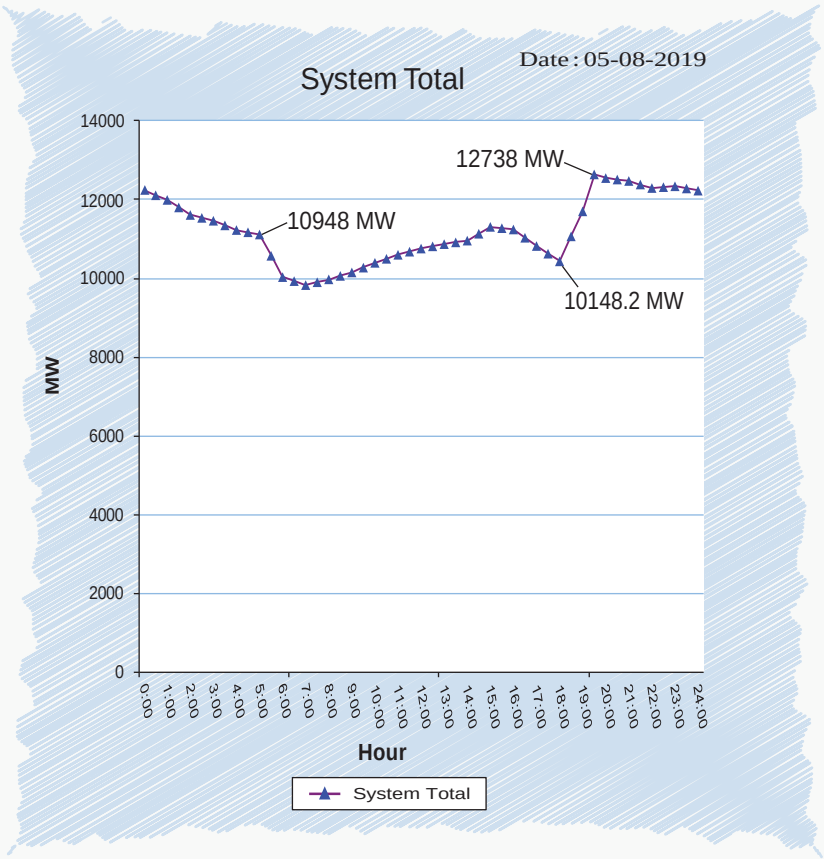
| Year | Installed Capacity (MW)[1] | Present Capacity (Derated) (MW)[2] | Maximum Forecasted Demand (MW)[3] | Maximum Demand Served (MW) | Energy Not Served (MkWh) |
|---|---|---|---|---|---|
| 1971-72 | 547 | - | 183 | 183 | - |
| 1972-73 | 602 | 412 | 222 | 222 | - |
| 1973-74 | 660 | - | 250 | 250 | - |
| 1974-75 | 667 | 490 | 266 | 266 | - |
| 1975-76 | 766 | 606 | 301 | 301 | - |
| 1976-77 | 767 | 571 | 342 | 342 | - |
| 1977-78 | 752 | 557 | 396 | 396 | - |
| 1978-79 | 718 | 571 | 437 | 437 | - |
| 1979-80 | 822 | 625 | 462 | 462 | - |
| 1980-81 | 813 | 707 | 545 | 545 | - |
| 1981-82 | 857 | 712 | 604 | 604 | - |
| 1982-83 | 919 | 810 | 709 | 709 | - |
| 1983-84 | 1,121 | 998 | 797 | 761 | - |
| 1984-85 | 1,141 | 1,018 | 887 | 887 | - |
| 1985-86 | 1,171 | 1,016 | 993 | 883 | - |
| 1986-87 | 1,607 | 1,442 | 1,112 | 1,084 | - |
| 1987-88 | 2,146 | 1,859 | 1,279 | 1,317 | - |
| 1988-89 | 2,365 | 1,936 | 1,471 | 1,393 | - |
| 1989-90 | 2,352 | 1,834 | 1,692 | 1,509 | - |
| 1990-91 | 2,350 | 1,719 | 1,861 | 1,640 | - |
| 1991-92 | 2,398 | 1,724 | 2,047 | 1,672 | - |
| 1992-93 | 2,608 | 1,918 | 2,252 | 1,823 | - |
| 1993-94 | 2,608 | 1,881 | 2,477 | 1,875 | - |
| 1994-95 | 2,908 | 2,133 | 1,925 | 1,970 | - |
| 1995-96 | 2,908 | 2,105 | 2,096 | 2,087 | - |
| 1996-97 | 2,908 | 2,148 | 2,285 | 2,114 | 550 |
| 1997-98 | 3,091 | 2,320 | 2,492 | 2,136 | 516 |
| 1998-99 | 3,603 | 2,850 | 2,721 | 2,449 | 264 |
| 1999-00 | 3,711 | 3,549 | 2,974 | 2,665 | 121 |
| 2000-01 | 4,005 | 3,830 | 3,206 | 3,033 | 119 |
| 2001-02 | 4,234 | 3,883 | 3,457 | 3,218 | 70 |
| 2002-03 | 4,680 | 4,368 | 3,728 | 3,428 | 69 |
| 2003-04 | 4,680 | 4,315 | 4,023 | 3,592 | 147 |
| 2004-05 | 4,995 | 4,364 | 4,308 | 3,721 | 260 |
| 2005-06 | 5,245 | 4,614 | 4,693 | 3,782 | 843 |
| 2006-07 | 5,202 | 4,623 | 5,112 | 3,718 | 2,264 |
| 2007-08 | 5,305 | 4,776 | 5,569 | 4,130 | 1,107 |
| 2008-09 | 5,719 | 5,166 | 6,066 | 4,162 | 1,363 |
| 2009-10 | 5,823 | 5,271 | 6,454 | 4,606 | 1,829 |
| 2010-11 | 7,264 | 6,639 | 6,765 | 4,890 | 1,899 |
| 2011-12 | 8,716 | 8,100 | 7,518 | 6,066 | 1,647 |
| 2012-13 | 9,151 | 8,537 | 8,349 | 6,434 | 1,070 |
| 2013-14 | 10,416 | 9,821 | 9,268 | 7,356 | 515 |
| 2014-15 | 11,534 | 10,939 | 8,920 | 7,817 | 177 |
| 2015-16 | 12,365 | 11,170 | 9,600 | 9,036 | 122 |
| 2016-17 | 13,555 | 12,771 | 10,400 | 9,479 | 37 |
| 2017-18 | 15,953 | 15,410 | 11,200 | 10,958 | 32 |
| 2018-19 | 18,961 | 18,438 | 12,100 | 12,893 | 53 |
| 2019-20 | 20,383 | 19,892 | 13,300 | 12,738 | 58 |

**Note :**
1. Installed capacity is as of 30th June of the year.
2. Present Capacity (Derated) is the Maximum available generation capacity at present.
3. Maximum Demand is shown as per power system master plan.

## Install Capacity, Maximum Forecasted Demand & Maximum Demand Served



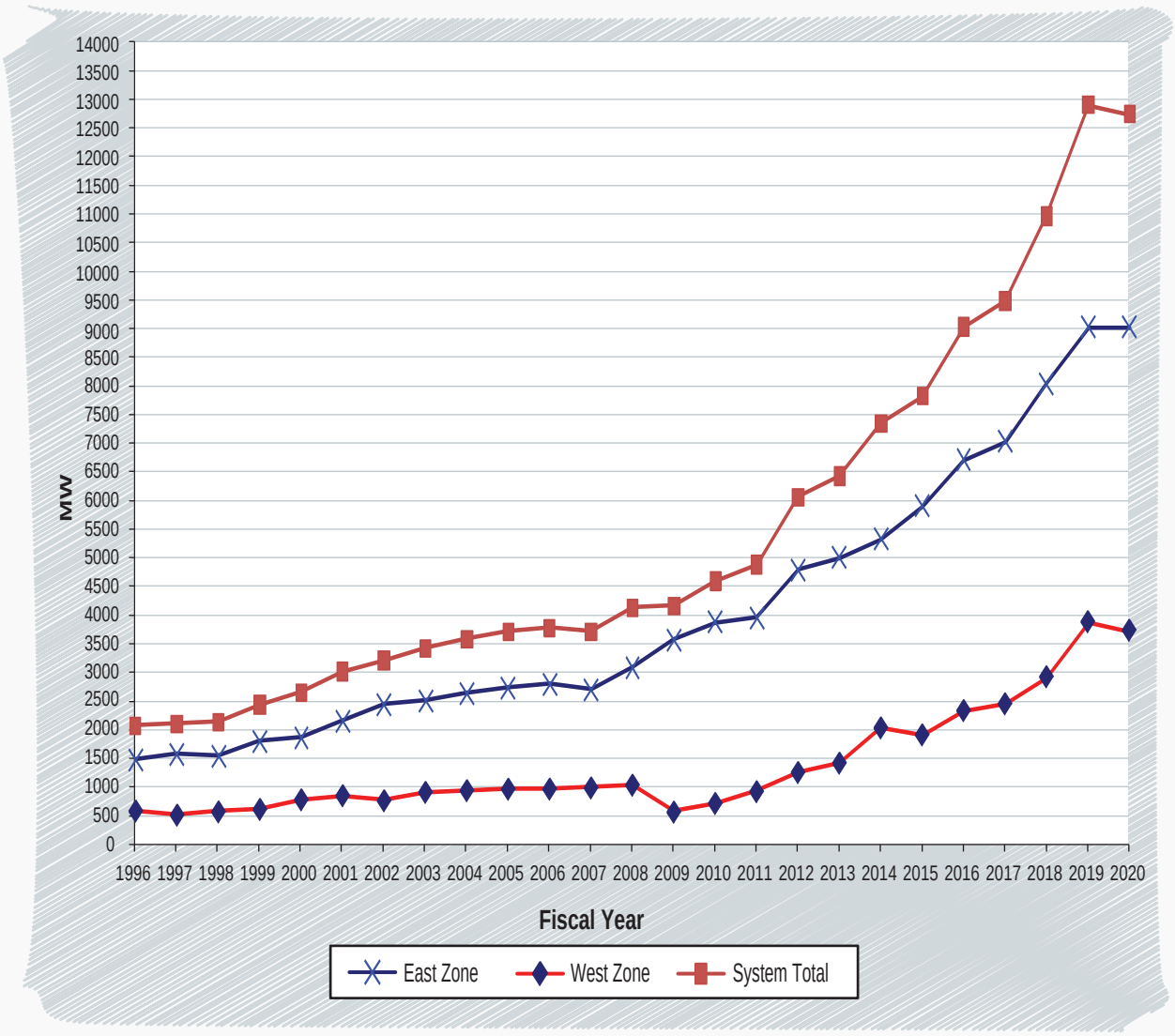

## Daily Load Curve



# Year Wise Maximum Generation

| Year | Maximum Generation in MW | | | % Increase over the preceding year |
|---|---|---|---|---|
| | East Zone | West Zone | System Total | |
| 1970-71 | 172 | 53 | 225 | - |
| 1971-72 | 141 | 42 | 183 | (18.66) |
| 1972-73 | 175 | 47 | 222 | 21.53 |
| 1973-74 | 185 | 65 | 250 | 12.60 |
| 1974-75 | 199 | 67 | 266 | 6.36 |
| 1975-76 | 220 | 81 | 301 | 13.28 |
| 1976-77 | 254 | 88 | 342 | 13.49 |
| 1977-78 | 287 | 109 | 396 | 15.78 |
| 1978-79 | 331 | 105 | 437 | 10.25 |
| 1979-80 | 338 | 124 | 462 | 5.82 |
| 1980-81 | 399 | 146 | 545 | 18.03 |
| 1981-82 | 451 | 153 | 604 | 10.72 |
| 1982-83 | 506 | 203 | 709 | 17.45 |
| 1983-84 | 549 | 212 | 761 | 7.40 |
| 1984-85 | 651 | 236 | 887 | 16.47 |
| 1985-86 | 613 | 270 | 883 | (0.47) |
| 1986-87 | 734 | 349 | 1,084 | 22.76 |
| 1987-88 | 925 | 392 | 1,317 | 21.55 |
| 1988-89 | 980 | 413 | 1,393 | 5.77 |
| 1989-90 | 1,070 | 439 | 1,509 | 8.33 |
| 1990-91 | 1,141 | 499 | 1,640 | 8.68 |
| 1991-92 | 1,160 | 512 | 1,672 | 1.95 |
| 1992-93 | 1,293 | 530 | 1,823 | 9.05 |
| 1993-94 | 1,355 | 520 | 1,875 | 2.84 |
| 1994-95 | 1,472 | 498 | 1,970 | 5.07 |
| 1995-96 | 1,497 | 590 | 2,087 | 5.96 |
| 1996-97 | 1,594 | 520 | 2,114 | 1.29 |
| 1997-98 | 1,560 | 577 | 2,136 | 1.03 |
| 1998-99 | 1,828 | 621 | 2,449 | 14.62 |
| 1999-00 | 1,878 | 787 | 2,665 | 8.84 |
| 2000-01 | 2,175 | 858 | 3,033 | 13.82 |
| 2001-02 | 2,447 | 771 | 3,218 | 6.08 |
| 2002-03 | 2,512 | 917 | 3,428 | 6.54 |
| 2003-04 | 2,646 | 946 | 3,592 | 4.79 |
| 2004-05 | 2,750 | 971 | 3,721 | 3.58 |
| 2005-06 | 2,809 | 973 | 3,782 | 1.65 |
| 2006-07 | 2,725 | 993 | 3,718 | (1.70) |
| 2007-08 | 3,089 | 1,041 | 4,130 | 11.09 |
| 2008-09 | 3,589 | 573 | 4,162 | 0.78 |
| 2009-10 | 3,883 | 723 | 4,606 | 10.67 |
| 2010-11 | 3,962 | 928 | 4,890 | 6.17 |
| 2011-12 | 4,805 | 1,261 | 6,066 | 24.05 |
| 2012-13 | 5,010 | 1,424 | 6,434 | 6.07 |
| 2013-14 | 5,320 | 2,036 | 7,356 | 14.33 |
| 2014-15 | 5,902 | 1,915 | 7,817 | 6.27 |
| 2015-16 | 6,699 | 2,337 | 9,036 | 15.59 |
| 2016-17 | 7,024 | 2,455 | 9,479 | 4.90 |
| 2017-18 | 8,034 | 2,924 | 10,958 | 15.60 |
| 2018-19 | 9,012 | 3,881 | 12,893 | 17.66 |
| 2019-20 | 9,005 | 3,733 | 12,738 | (1.20) |

## Trend of Maximum Generation (Actual)



# Plant Wise Generation (FY 2019-20)

| Sl. No. | Name of power plant | Type of fuel | Installed Capacity (As of June) (MW) | Net Energy Generation (GWh) | Annual Plant factor (%) | Efficiency (%) (Net) | Overall Thermal Efficiency (%) (Net) |
|---|---|---|---|---|---|---|---|
| **PUBLIC** | | | | | | | |
| **DHAKA ZONE** | | | | | | | |
| 1 | a) Ghorasal TPP (Unit 1&2) | Gas | 110 | 313.86 | 45.11% | 25.02% | |
| | b) Ghorasal Repowered CCPP Unit-3 | Gas | 210 | 463.93 | 32.98% | 27.97% | |
| | c) Ghorasal Repowered CCPP Unit-4 | Gas | 210 | 626.87 | 42.31% | 28.53% | |
| | d) Ghorasal TPP Unit-5 | Gas | 210 | 194.59 | 12.61% | 28.90% | |
| | e) Ghorasal TPP Unit-6 | Gas | 0 | -1.23 | - | - | |
| 2 | Ghorasal 365 MW CCPP Unit-7 | Gas | 365 | 1789.83 | 59.03% | 47.18% | |
| 3 | Tongi 80 MW GTPP | Gas | 105 | -0.79 | - | - | |
| 4 | Haripur GTPP | Gas | 32 | 1.88 | 1.65% | 18.50% | |
| 5 | 210 MW Shiddirganj TPP | Gas | 210 | -4.69 | - | - | |
| 6 | Siddhirganj 2x120 MW GTPP | Gas | 210 | 318.89 | 18.13% | 24.60% | |
| 7 | Haripur 412 MW CCPP | Gas | 412 | 2800.29 | 80.71% | 55.15% | |
| 8 | Gazipur 52 MW PP | F.Oil | 52 | 93.72 | 21.28% | 38.30% | |
| 9 | Kodda 150 MW PP | F.Oil | 149 | 175.19 | 14.01% | 38.78% | |
| 10 | Siddhirganj 335 MW CCPP | Gas | 335 | 918.91 | 33.19% | 36.60% | |
| 11 | Gazipur 100 MW PP | F.Oil | 105 | 287.82 | 31.71% | 41.01% | |
| **CHATTOGRAM ZONE** | | | | | | | |
| 12 | Karnafuli Hydro | Hydro | 230 | 825.19 | 41.07% | - | |
| 13 | Rauzan 210 MW /ST (1st) | Gas | 210 | 612.78 | 45.31% | 29.34% | |
| | Rauzan 210 MW /ST (2nd) | Gas | 210 | 313.31 | 21.89% | 25.88% | |
| 14 | Shikalbaha 150 MW Peaking PP | Gas | 150 | 959.03 | 75.41% | 34.30% | |
| 15 | Hathazari 100 MW Peaking PP | F.Oil | 98 | 4.49 | 0.75% | 37.73% | |
| 16 | Sangu, Dohazari-kaliaish 100 MW PPP | F.Oil | 102 | 104.80 | 12.14% | 40.12% | |
| 17 | RPCL Raozan 25 MW | F.Oil | 25 | 33.27 | 15.68% | 38.19% | |
| 18 | Shikalbaha 225 MW PS | Gas | 225 | 1382.99 | 72.64% | 49.16% | |
| | | HSD | | 0.34 | - | - | |
| 19 | Kaptai Solar | Solar | 7 | 9.51 | 15.60% | - | **39.72** |
| **CUMILLA ZONE** | | | | | | | |
| 20 | a) Ashuganj TPP Unit-3 | Gas | 150 | 496.79 | 46.06% | 32.67% | |
| | b) Ashuganj TPP Unit-4 | Gas | 150 | 169.26 | 16.33% | 33.24% | |
| | c) Ashuganj TPP Unit-5 | Gas | 150 | 214.37 | 20.33% | 34.32% | |
| 21 | Ashuganj 50 MW PP | Gas | 53 | 244.15 | 63.61% | 38.93% | |
| 22 | Ashuganj 225 MW CCPP | Gas | 221 | 1480.50 | 77.93% | 47.77% | |
| 23 | Ashuganj 450 MW CCPP (South) | Gas | 360 | 2350.52 | 77.52% | 55.70% | |
| 24 | Ashuganj 450 MW CCPP (North) | Gas | 360 | 2458.47 | 81.34% | 56.47% | |
| 25 | Chandpur 150 MW CCPP | Gas | 163 | 590.80 | 44.06% | 33.64% | |
| 26 | Titas 50 MW Peaking PP | F.Oil | 52 | 7.64 | 1.97% | 39.36% | |
| **SYLHET ZONE** | | | | | | | |
| 27 | Shahjibazar 70 MW GT, Habiganj | Gas | 70 | 480.46 | 83.77% | 27.50% | |
| 28 | Shahjibazar 330 MW CCPP | Gas | 330 | 1531.47 | 56.29% | 36.16% | |
| 29 | Fenchuganj C.C. (Unit #1) | Gas | 97 | 496.55 | 82.26% | 29.83% | |
| 30 | Fenchuganj C.C. (Unit #2) | Gas | 104 | 352.40 | 48.23% | 30.81% | |
| 31 | Sylhet 1x20 MW /GT | Gas | 20 | 98.05 | 56.29% | 29.99% | |
| 32 | Sylhet 230 MW | Gas | 231 | 615.68 | 31.21% | 29.60% | |
| 33 | Bibiyana-3 GTG | Gas | 400 | 1081.55 | 32.32% | 44.61% | |
| **KHULNA ZONE** | | | | | | | |
| 34 | Khulna 225 MW (NWPGCL) | HSD | 230 | 5.91 | 0.43% | 23.22% | |
| 35 | Bheramara GT unit-3 | HSD | 20 | 3.89 | 2.95% | 20.67% | |
| 36 | Bheramara 360 MW CCPP (NWPGCL) | Gas | 410 | 2320.61 | 67.63% | 51.08% | |
| 37 | Faridpur 50 MW Peaking PP | F.Oil | 54 | 39.50 | 8.90% | 36.59% | |
| 38 | Gopalganj 100 MW Peaking PP | F.Oil | 109 | 48.53 | 5.48% | 34.26% | |
| 39 | Modhumoti 105 MW NWPGCL | F.Oil | 105 | 216.47 | 23.70% | 39.79% | |
| **BARISHAL ZONE** | | | | | | | |
| - | Barishal 2x20 MW /GT | HSD | - | 1.07 | 0.57% | 22.21% | |
| 40 | Bhola 225 MW CCPP | Gas | 194 | 1054.25 | 65.55% | 42.11% | |

| Sl. No. | Name of power plant | Type of fuel | Installed Capacity (As of June) (MW) | Net Energy Generation (GWh) | Annual Plant factor (%) | Efficiency (%) (Net) | Overall Thermal Efficiency (%) (Net) |
|---|---|---|---|---|---|---|---|
| **RAJSHAHI ZONE** | | | | | | | |
| 41 | Baghabari 71 MW /GT | Gas | 71 | 239.89 | 50.37% | 26.73% | |
| | Baghabari 100 MW /GT | Gas | 100 | 70.99 | | 26.53% | |
| 42 | Sirajgonj 210 MW CC (NWPGCL) Unit-1 | Gas | 210 | 1251.51 | 71.09% | 42.86% | |
| | | HSD | | - | | N/A | |
| 43 | Baghabari 50 MW Peaking RE | F.Oil | 52 | 42.52 | 9.57% | 37.69% | |
| 44 | Bera 70 MW Peaking RE | F.Oil | 71 | 13.03 | 2.25% | 35.33% | |
| 45 | Santahar 50 MW PP | F.Oil | 50 | 26.92 | 6.33% | 38.29% | |
| 46 | Katakhali 50 MW PP | F.Oil | 50 | 41.52 | 9.71% | 36.36% | |
| 47 | Chapainobabgonj Peaking Power Station 100 MW, Amnura | F.Oil | 104 | 168.36 | 18.94% | 38.98% | |
| 48 | Sirajgonj 210 MW CC (NWPGCL) Unit-2 | Gas | 220 | 660.16 | 35.90% | 41.24% | |
| | | HSD | | - | | N/A | |
| 49 | Sirajgonj 210 MW CC (NWPGCL) Unit-3 | Gas | 220 | 1236.18 | 66.66% | 42.28% | |
| | | HSD | | - | | N/A | |
| **RANGPUR ZONE** | | | | | | | |
| 50 | Barapukuria Coal based S/T (unit 1,2) | COAL | 250 | 307.46 | 23.80% | 25.52% | |
| 51 | Barapukuria Coal based S/T (unit 3) | COAL | 274 | 1759.57 | 80.60% | 34.23% | |
| 52 | Saidpur 20 MW /GT | HSD | 20 | 9.22 | 5.30% | 21.07% | |
| 53 | Rangpur 20 MW /GT | HSD | 20 | 3.38 | 1.99% | 18.06% | |
| | **Total (Grid)** | | **9,717** | **34411.37** | **44.50%** | **-** | |
| | Isolated East | HSD | 0 | 3.78 | | | |
| | Isolated West | HSD | 0 | 0.00 | | | |
| | **Total PUBLIC** | | **9,717** | **34415.15** | | | |
| **JOINT VENTURE** | | | | | | | |
| 1 | Payra, Potuakhali 2*660 MW PP (U-1) | COAL | 622 | 900.90 | 16.71% | 36.91% | |
| | **Total Joint Venture** | | **622** | **900.90** | **16.71%** | **36.91%** | |
| **PRIVATE** | | | | | | | |
| **A. IPP** | | | | | | | |
| 1 | Ashuganj 51 MW PP (Midland) | GAS | 51 | 267.91 | 59.97% | 35.51% | |
| 2 | RPCL 210MW CCPP | GAS | 210 | 1289.58 | 72.88% | 45.85% | |
| 3 | Haripur 360MW CCPP(HPL) | GAS | 360 | 2585.76 | 81.99% | 48.40% | |
| 4 | Meghnaghat 450 MW CCPP(MPL) | GAS | 450 | 3042.34 | 77.18% | 44.78% | |
| 5 | Ghorashal 108MW PP (Regent) | GAS | 108 | 286.50 | 30.28% | 43.20% | |
| 6 | Ashuganj 195MW PP (APSCL-United) | GAS | 195 | 342.07 | 20.02% | 42.52% | |
| 7 | Bibiana-II 341 MW CCPP (Summit) | GAS | 341 | 2533.40 | 84.81% | 46.13% | |
| 8 | Kushiara 163 MW CCPP (KP) | GAS | 163 | 1148.09 | 80.41% | 41.62% | |
| 9 | Sirajgonj 410 MW CCPP (Unit-4) | GAS | 414 | 3047.92 | 84.04% | 48.68% | |
| 10 | Meghnaghat CCPP(Summit) | GAS | 305 | 1233.79 | 46.18% | 41.64% | |
| 11 | Natore 52 MW IPP (Raj-Lanka) (IPP) | F.Oil | 52 | 79.77 | 17.51% | 43.57% | |
| 12 | Gagnagar 102 MW PP (Digital Power) | F.Oil | 102 | 228.47 | 25.57% | 41.25% | |
| 13 | Patenga 50MW PP (Baraka) | F.Oil | 50 | 133.22 | 30.41% | 43.04% | |
| 14 | Chattogram 108 MW PP (ECPV) | F.Oil | 108 | 178.03 | 18.82% | 42.49% | |
| 15 | Jangalia 52 MW PP (Lakdanavi) | F.Oil | 52 | 69.19 | 15.19% | 43.59% | |
| 16 | Katpotti 52 MW PP (Sinha) | F.Oil | 51 | 88.05 | 19.71% | 42.90% | |
| 17 | Barishal 110 MW PP (Summit ) | F.Oil | 110 | 191.40 | 19.86% | 43.86% | |
| 18 | Madanganj-55 MW PP(Summit) | F.Oil | 55 | 96.81 | 20.09% | 42.54% | |
| 19 | Manikganj 55 MW PP (Northern) | F.Oil | 55 | 151.07 | 31.36% | 44.41% | |
| 20 | Nababganj 55 MW PP (Southern power ) | F.Oil | 55 | 110.27 | 22.89% | 44.41% | |
| 21 | Jamalpur 95 MW PP (Powerpack) | F.Oil | 95 | 339.61 | 40.81% | 43.57% | |
| 22 | Bosila 108MW PP(CLC) | F.Oil | 108 | 147.42 | 15.58% | 43.20% | |
| 23 | Kamalaghat 54 MW PP (Banko Energy) | F.Oil | 54 | 217.41 | 45.96% | 44.39% | |
| 24 | Kodda 300 MW PP Unit-2 (Summit) | F.Oil | 300 | 365.30 | 13.90% | 43.34% | |
| 25 | Mymensingh 200 MW PP (United) | F.Oil | 200 | 507.83 | 28.99% | 44.00% | |
| 26 | Kodda 149 MW PP Unit-1 (Summit) | F.Oil | 149 | 404.14 | 30.96% | 42.73% | |
| 27 | Rupsha 105 MW PP (Orion rupsha) | F.Oil | 105 | 187.14 | 20.35% | 43.36% | |
| 28 | Chandpur 200 MW (Desh energy) | F.Oil | 200 | 352.83 | 20.14% | 44.00% | |
| 29 | Juldah 100 MW PP Unit-3 (Acorn) | F.Oil | 100 | 329.18 | 37.58% | 43.86% | |
| 30 | Ashuganj 150 MW PP (Midland) | F.Oil | 150 | 196.07 | 14.92% | 43.35% | |
| 31 | Jamalpur 115 MW PP (United) | F.Oil | 115 | 435.50 | 43.23% | 44.00% | |

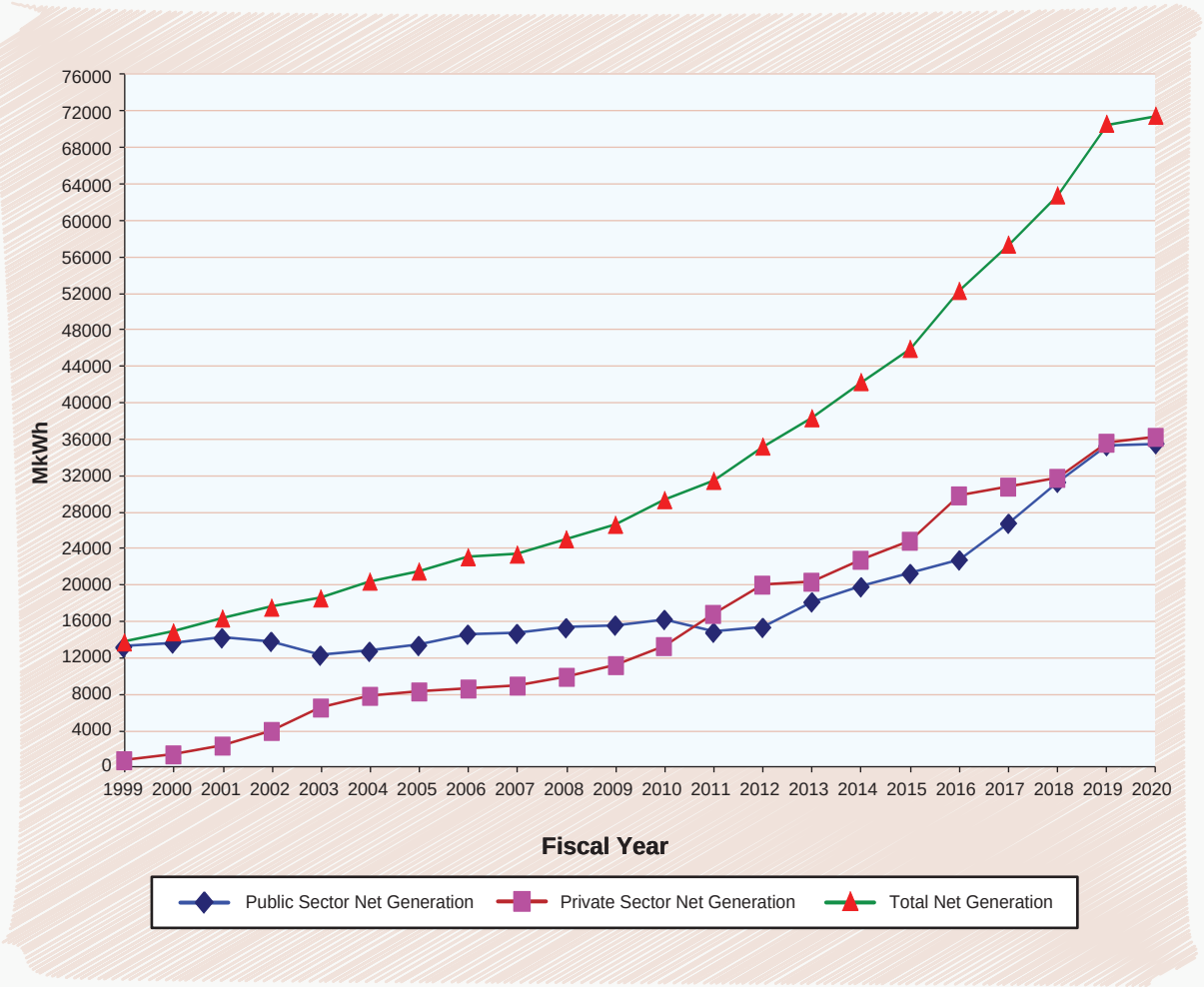
| Sl. No. | Name of power plant | Type of fuel | Installed Capacity (As of June) (MW) | Net Energy Generation (GWh) | Annual Plant factor (%) | Efficiency (%) (Net) |
|---|---|---|---|---|---|---|
| 32 | Bogura 113 MW PP (Unit-2) (Confidence) | F.Oil | 113 | 223.19 | 22.55% | 44.58% |
| 33 | Sikalbaha 105 MW PP (Baraka Sikalbaha) | F.Oil | 105 | 99.24 | 10.79% | 43.86% |
| 34 | Anwara 300 MW PP (United) | F.Oil | 300 | 810.69 | 30.85% | 36.00% |
| 35 | Rangpur 113 MW PP (Confidence) | F.Oil | 113 | 280.46 | 28.33% | 44.99% |
| 36 | Potiya 54 MW PP (Zodiac Power) | F.Oil | 54 | 36.56 | 7.73% | 44.27% |
| 37 | Shikalbaha 110 MW PP (Kornophuly Power) | F.Oil | 110 | 41.59 | 4.32% | 44.27% |
| 38 | Feni 114 MW PP (Lakdanavi) | F.Oil | 114 | 34.82 | 3.49% | 42.96% |
| 39 | Bogura 113 MW PP (Unit-1) (Confidence) | F.Oil | 113 | 199.46 | 20.15% | 44.97% |
| 40 | Choumohoni 113 MW PP (HF Power) | F.Oil | 113 | 128.26 | 12.96% | 44.99% |
| 41 | Juldah 100 MW PP Unit-2 (Acorn) | F.Oil | 100 | 186.55 | 21.30% | 43.88% |
| - | Manikganj 162MW P0wer Generation | F.Oil | - | - | - | - |
| - | Nutan Biddyut 220MW | F.Oil | - | - | - | - |
| 42 | Meghnaghat 104 MW PP (SPL) | F.Oil | 104 | 10.83 | 1.19% | - |
| 43 | Keranigonj 300 MW PP (APR) | HSD | 300 | 10.50 | 0.40% | 36.00% |
| 44 | Daudkandi 200 MW PP (B.Trac) | HSD | 200 | 7.11 | 0.41% | 43.36% |
| 45 | Noapara 100 MW PP (Bangla Trac) | HSD | 100 | 79.10 | 9.03% | 36.60% |
| 46 | Aurahati 100MW PP (Aggreko) | HSD | 100 | 6.35 | 0.72% | 36.60% |
| 47 | Bramhangoan 100 MW PP (Aggreko) | HSD | 100 | 5.13 | 0.59% | 36.00% |
| 48 | Baghabari 200 MW PP (Paramount) | HSD | 200 | 3.67 | 0.21% | 36.00% |
| 49 | Sarishabari 3 MW Solar Plant | Solar | 3 | 3.86 | 14.69% | - |
| 50 | Teknaf 20MW PP (Solartech) | Solar | 20 | 36.03 | 20.56% | - |
| 51 | Mazipara, Tatulia 8 MW Solar PP (Symba) | Solar | 8 | 11.49 | 16.39% | - |
| - | Sailo Solar Power Plant Shantahar | Solar | - | 0.11 | 0.00% | - |
| - | Shalla 400 KW Solar | Solar | 0.4 | 0.07 | 1.95% | - |
| | **Sub-Total IPP** | | **7233** | **22801.14** | **36%** | |
| **B. RENTAL & SIPP** | | | | | | |
| 1 | Bogura 22 MW PP (GBB) | GAS | 22 | 133.166952 | 69.10% | 29.02% |
| 2 | Bogura 20 MW PP (Energyprima) | GAS | 20 | 78.662952 | 89.80% | 41.79% |
| 3 | Ghorashal 78.5 MW PP(MAX) | GAS | 78 | 151.975009 | 22.24% | 35.84% |
| 4 | Tangail 22 MW PP (Doreen) | GAS | 22 | 143.404572 | 74.41% | 38.28% |
| 5 | Feni 22 MW PP (Doreen) | GAS | 22 | 141.279397 | 73.31% | 38.28% |
| 6 | Jangalia 33 MW PP (Summit) | GAS | 33 | 208.181906 | 72.02% | 38.24% |
| 7 | Ashuganj 55 MW PP (Precision) | GAS | 55 | 218.732592 | 45.40% | 32.50% |
| - | Kumargao 50 MW 3 yrs (Energyprima) | GAS | - | 137.52756 | 31.40% | 34.25% |
| 8 | Shahjibazar 86MW PP (Shahjibazar) | GAS | 86 | 440.516616 | 58.47% | 27.26% |
| 9 | Shazibazar 50 MW PP (EPL) | GAS | 50 | 115.938819 | 26.47% | 28.41% |
| 10 | Sylhet 10 MW PP (Desh) | GAS | 10 | 64.287122 | 73.39% | 35.56% |
| 11 | Fenchugonj 51 MW PP (Barakatullah) | GAS | 51 | 284.768958 | 63.74% | 31.29% |
| 12 | Fenchuganj 44 MW PP (EPL) | GAS | 44 | 307.712992 | 79.83% | 31.29% |
| 13 | Barabkunda 22 MW PP (Regent) | GAS | 22 | 156.03566 | 80.96% | 38.28% |
| - | Malancha, EPZ, Ctg | GAS | - | 219.28032 | - | - |
| 14 | Bhola 33 MW PP (Venture) | GAS | 33 | 172.416844 | 59.64% | 30.04% |
| - | Shahjahanulla 25 MW PP | GAS | - | 133.344817 | 60.89% | 35.84% |
| 15 | Bhola 95 MW PP (Aggreko) | GAS | 95 | 445.52902 | 53.54% | 35.53% |
| 16 | Khulna 115 PP MW (KPCL-2) | F.Oil | 115 | 276.250119 | 27.42% | - |
| 17 | Noapara 40 MW PP (Khanjahan Ali) | F.Oil | 40 | 91.546621 | 26.13% | 40.96% |
| 18 | Madanganj 102 PP(Summit) | F.Oil | 102 | 223.216584 | 25.48% | 41.63% |
| 19 | Meghnaghat 100 MW(IEL) | F.Oil | 100 | 193.30176 | 22.07% | 41.13% |
| 20 | Siddhirganj 100 PP(Dutch Bangla) | F.Oil | 100 | 184.437936 | 21.05% | - |
| - | Energies Power Cor.Ltd Shikalbaha 55MW | F.Oil | - | 4.634333 | 1.04% | - |
| 21 | Amnura 50 MW PP | F.Oil | 50 | 109.202081 | 24.93% | 41.63% |
| 22 | Keraniganj 100 MW PP (Powerpac) | F.Oil | 100 | 54.307056 | 6.20% | 40.80% |
| 23 | Juldah 100 MW Unit-1 (Acorn) | F.Oil | 100 | 90.61215 | 10.34% | 41.19% |
| 24 | Katakhali 50 MW PP (Northern) | F.Oil | 50 | 69.537854 | 15.88% | 41.27% |
| | **Sub-Total RENTAL& SIPP** | | **1,400** | **4849.81** | **37%** | |
| **C. IMPORT** | | | | | | |
| 1 | Power Import (Bheramara-Bharampur Phase-1) | Import | 500 | 1,701 | | |
| 2 | Import from Tripura (1st Phase) | Import | 100 | 1,007 | | |
| 3 | Import from Tripura (2nd Phase) | Import | 60 | 902 | | |
| 4 | Power Import (Bheramara-Bharampur Phase-2) | Import | 300 | 1,701 | | |
| 5 | Sembcorp Energy India Ltd. | Import | 200 | 1,363 | | |
| | **Total Energy IMPORT** | | **1,160** | **6,674** | | |
| | **SIPP (REB)** | | **251** | **1,778.00** | | |
| | **GRAND TOTAL** | | **20,383** | **71,418.87** | | |

# Energy Generation (National)

In MkWh

| Year | Gross Energy Generation of Public Sector | | | Net Generation of Public Sector | Total Private Generation Inclu. REB (Net) | Total Generation (Net) | % Change Over the Preceding Year | Energy Transfer through East-West Interconnector | |
|---|---|---|---|---|---|---|---|---|---|
| | East Zone | West Zone | System Total | | | | | East to West | West to East |
| 1970-71 | 725 | 204 | 929 | 896 | - | 896 | - | - | - |
| 1971-72 | 582 | 135 | 717 | 683 | - | 683 | (23.79) | - | - |
| 1972-73 | 857 | 229 | 1086 | 1043 | - | 1,043 | 52.74 | - | - |
| 1973-74 | 982 | 283 | 1265 | 1199 | - | 1,199 | 14.96 | - | - |
| 1974-75 | 1022 | 300 | 1322 | 1251 | - | 1,251 | 4.33 | - | - |
| 1975-76 | 1116 | 344 | 1460 | 1371 | - | 1,371 | 9.60 | - | - |
| 1976-77 | 1224 | 394 | 1619 | 1525 | - | 1,525 | 11.25 | - | - |
| 1977-78 | 1444 | 468 | 1913 | 1819 | - | 1,819 | 19.26 | - | - |
| 1978-79 | 1603 | 519 | 2122 | 2017 | - | 2,017 | 10.91 | - | - |
| 1979-80 | 1745 | 609 | 2353 | 2238 | - | 2,238 | 10.93 | - | - |
| 1980-81 | 1,978 | 684 | 2,662 | 2540 | - | 2,540 | 13.49 | - | - |
| 1981-82 | 2,292 | 744 | 3,036 | 2896 | - | 2,896 | 14.02 | - | - |
| 1982-83 | 2,846 | 587 | 3,433 | 3294 | - | 3,294 | 13.75 | 341.32 | 0.24 |
| 1983-84 | 3,398 | 568 | 3,966 | 3803 | - | 3,803 | 15.45 | 519.04 | 1.44 |
| 1984-85 | 3,656 | 873 | 4,528 | 4327 | - | 4,327 | 13.77 | 477.41 | 20.63 |
| 1985-86 | 3,488 | 1,312 | 4,800 | 4560 | - | 4,560 | 5.40 | 222.40 | 106.43 |
| 1986-87 | 4,749 | 838 | 5,587 | 5308 | - | 5,308 | 16.39 | 797.84 | 10.91 |
| 1987-88 | 5,753 | 789 | 6,541 | 6214 | - | 6,214 | 17.08 | 1,179.54 | 0.02 |
| 1988-89 | 6,534 | 581 | 7,115 | 6759 | - | 6,759 | 8.77 | 1,550.00 | - |
| 1989-90 | 7,401 | 331 | 7,732 | 7345 | - | 7,345 | 8.67 | 1,956.78 | - |
| 1990-91 | 8,126 | 144 | 8,270 | 7857 | - | 7,857 | 6.96 | 2,314.07 | - |
| 1991-92 | 8,500 | 394 | 8,894 | 8450 | - | 8,450 | 7.55 | 2,213.00 | - |
| 1992-93 | 8,583 | 624 | 9,206 | 8746 | - | 8,746 | 3.51 | 1,919.89 | - |
| 1993-94 | 9,129 | 655 | 9,784 | 9295 | - | 9,295 | 6.28 | 1,980.76 | - |
| 1994-95 | 9,885 | 921 | 10,806 | 10266 | - | 10,266 | 10.45 | 1,954.62 | - |
| 1995-96 | 10,735 | 740 | 11,474 | 10901 | - | 10,901 | 6.18 | 2,215.02 | - |
| 1996-97 | 10,805 | 1,053 | 11,858 | 11,243 | - | 11,243 | 3.14 | 1,924.17 | - |
| 1997-98 | 11,789 | 1,093 | 12,882 | 12,194 | - | 12,194 | 8.46 | 1,997.00 | - |
| 1998-99 | 13,126 | 746 | 13,872 | 13,060 | 578 | 13,638 | 11.84 | 2,186.00 | - |
| 1999-00 | 13,634 | 684 | 14,318 | 13,495 | 1,244 | 14,739 | 8.07 | 2,482.45 | - |
| 2000-01 | 13,717 | 1,111 | 14,828 | 14,062 | 2,193 | 16,255 | 10.28 | 1,979.40 | - |
| 2001-02 | 13,267 | 1,183 | 14,450 | 13,674 | 3,771 | 17,445 | 7.32 | 2,249.16 | - |
| 2002-03 | 11,371 | 1,510 | 12,881 | 12,159 | 6,299 | 18,458 | 5.80 | 2,170.40 | - |
| 2003-04 | 11,303 | 2,039 | 13,342 | 12,584 | 7,718 | 20,302 | 9.99 | 2,135.55 | - |
| 2004-05 | 11,910 | 2,157 | 14,067 | 13,223 | 8,185 | 21,408 | 5.45 | 2,146.20 | - |
| 2005-06 | 13,177 | 2,240 | 15,417 | 14,456 | 8,522 | 22,978 | 7.33 | 2344.72 | - |
| 2006-07 | 12,964 | 2,531 | 15,495 | 14,539 | 8,729 | 23,268 | 1.26 | 1950.25 | - |
| 2007-08 | 13,397 | 2,758 | 16,155 | 15,167 | 9,779 | 24,946 | 7.21 | 2462.08 | - |
| 2008-09 | 13,627 | 2,803 | 16,431 | 15,449 | 11,084 | 26,533 | 6.36 | 2548.99 | - |
| 2009-10 | 14,735 | 2,329 | 17,064 | 16,072 | 13,175 | 29,247 | 10.23 | 3831.43 | - |
| 2010-11 | 12,845 | 2,680 | 15,525 | 14,673 | 16,682 | 31,355 | 7.21 | 3574.00 | - |
| 2011-12 | 13,316 | 2,758 | 16,074 | 15,201 | 19,917 | 35,118 | 12.00 | 4445.42 | - |
| 2012-13 | 15,078 | 3,929 | 19,008 | 17,994 | 20,235 | 38,229 | 8.86 | 4695.49 | - |
| 2013-14 | 15,726 | 4,943 | 20,669 | 19,645 | 22,550 | 42,195 | 10.37 | 3138.37 | - |
| 2014-15 | 16,950 | 5,214 | 22,163 | 21,103 | 24,733 | 45,836 | 8.63 | 3043.08 | - |
| 2015-16 | 17,542 | 6,179 | 23,721 | 22,585 | 29,608 | 52,193 | 13.87 | 2859.60 | - |
| 2016-17 | 21,343 | 6,594 | 27,938 | 26,597 | 30,679 | 57,276 | 9.74 | 2398.56 | - |
| 2017-18 | 24,231 | 8,276 | 32,507 | 31,082 | 31,595 | 62,677 | 9.43 | 2721.00 | - |
| 2018-19 | 26,755 | 9,963 | 36,718 | 35,107 | 35,426 | 70,533 | 12.53 | 2179.00 | - |
| 2019-20 | 26,094 | 10,980 | 37,074 | 35,316 | 36,102 | 71,419 | 1.26 | 2119.86 | - |

## Total Net Energy Generation




Bangladesh-India 17th Joint Steering Committee Meeting on power sector co-operation held at Dhaka.

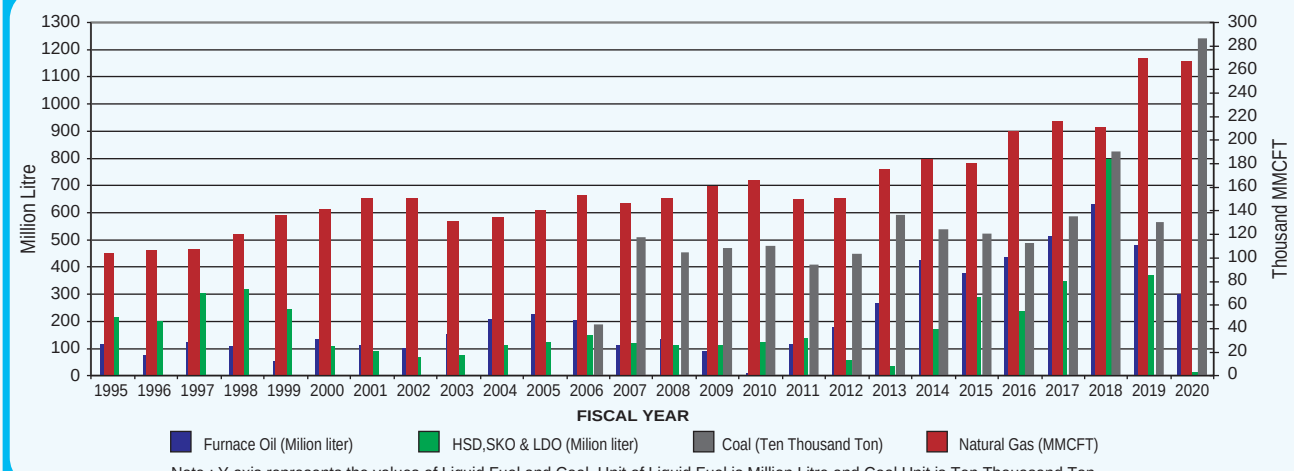
## Year Wise Per Capita Generation and Consumption (Grid)

| Year | Total Net Generation (GWh) | Total Population (In million) * | Total Sale (MkWh) | Per Capita Generation (kWh) | Per Capita Consumption (kWh) |
|---|---|---|---|---|---|
| 1970-71 | 896 | 66 | 682.7 | 13.67 | 10.42 |
| 1971-72 | 683 | 67 | 468.00 | 10.25 | 7.02 |
| 1972-73 | 1043 | 68 | 623.9 | 15.42 | 9.22 |
| 1973-74 | 1199 | 69 | 828.2 | 17.44 | 12.05 |
| 1974-75 | 1251 | 70 | 835.2 | 17.85 | 11.92 |
| 1975-76 | 1371 | 72 | 932 | 19.13 | 13.01 |
| 1976-77 | 1,525 | 73 | 1,013 | 20.76 | 13.79 |
| 1977-78 | 1,819 | 75 | 1,205 | 24.11 | 15.96 |
| 1978-79 | 2,017 | 78 | 1,381 | 26.02 | 17.82 |
| 1979-80 | 2,238 | 80 | 1,406 | 28.10 | 17.66 |
| 1980-81 | 2,540 | 82 | 1,740 | 31.06 | 21.27 |
| 1981-82 | 2,896 | 84 | 2,024 | 34.50 | 24.12 |
| 1982-83 | 3,294 | 86 | 2,380 | 38.24 | 27.63 |
| 1983-84 | 3,803 | 88 | 2,680 | 43.01 | 30.31 |
| 1984-85 | 4,327 | 91 | 2,799 | 47.67 | 30.84 |
| 1985-86 | 4,560 | 93 | 3,247 | 48.94 | 34.84 |
| 1986-87 | 5,308 | 96 | 3,424 | 55.48 | 35.79 |
| 1987-88 | 6,214 | 98 | 3,703 | 63.29 | 37.71 |
| 1988-89 | 6,759 | 101 | 3,925 | 67.12 | 38.98 |
| 1989-90 | 7,345 | 103 | 4,405 | 71.20 | 42.69 |
| 1990-91 | 7,857 | 106 | 4,777 | 74.40 | 45.24 |
| 1991-92 | 8,450 | 108 | 5,086 | 78.25 | 47.10 |
| 1992-93 | 8,746 | 110 | 5,748 | 79.26 | 52.09 |
| 1993-94 | 9,295 | 113 | 6,149 | 82.45 | 54.54 |
| 1994-95 | 10,266 | 115 | 6,935 | 89.14 | 60.21 |
| 1995-96 | 10,901 | 118 | 7,454 | 92.65 | 63.36 |
| 1996-97 | 11,243 | 120 | 7,822 | 93.57 | 78.90 |
| 1997-98 | 12,194 | 123 | 8,382 | 99.39 | 68.33 |
| 1998-99 | 13,638 | 125 | 9,305 | 108.94 | 74.32 |
| 1999-00 | 14,739 | 128 | 10,083 | 115.46 | 78.98 |
| 2000-01 | 16,255 | 130 | 11,409 | 125.13 | 87.83 |
| 2001-02 | 17,445 | 132 | 12,447 | 136.02 | 94.58 |
| 2002-03 | 18,458 | 133 | 13,871 | 138.36 | 103.98 |
| 2003-04 | 20,302 | 135 | 15,332 | 150.16 | 113.41 |
| 2004-05 | 21,408 | 137 | 16,338 | 156.26 | 119.26 |
| 2005-06 | 22,978 | 140 | 18,128 | 164.36 | 129.67 |
| 2006-07 | 23,268 | 142 | 18,696 | 164.09 | 131.85 |
| 2007-08 | 24,946 | 144 | 20,415 | 173.48 | 141.97 |
| 2008-09 | 26,533 | 146 | 21,955 | 181.98 | 150.59 |
| 2009-10 | 29,247 | 148 | 24,596 | 197.88 | 166.42 |
| 2010-11 | 31,355 | 150 | 26,587 | 209.46 | 177.60 |
| 2011-12 | 35,118 | 152 | 29,974 | 231.65 | 197.72 |
| 2012-13 | 38,229 | 154 | 32,740 | 248.73 | 213.01 |
| 2013-14 | 42,195 | 156 | 36,233 | 270.83 | 232.56 |
| 2014-15 | 45,836 | 158 | 39,624 | 290.28 | 250.95 |
| 2015-16 | 52,193 | 160 | 45,299 | 326.41 | 283.30 |
| 2016-17 | 57,276 | 162 | 50,264 | 354.10 | 310.75 |
| 2017-18 | 62,677 | 164 | 55,103 | 383.00 | 336.71 |
| 2018-19 | 70,533 | 166 | 62,037 | 426.05 | 374.73 |
| 2019-20 | 71,419 | 168 | 63,364 | 426.23 | 378.16 |

* World Bank Data from 1971-2000.
* BBS & Bangladesh Bank Data Book.

# Year wise Fuel Consumption of Public Sector Power Plants

| Year | Natural Gas in MMCFT | Liquid Fuel in Million liter | | Coal (Milion Ton) |
|---|---|---|---|---|
| | | Furnace oil | HSD, SKO & LDO | |
| 1975-76 | 8841.12 | 81.91 | 0.39 | - |
| 1976-77 | 10850.48 | 75.05 | 67.97 | - |
| 1977-78 | 13081.39 | 80.77 | 103.35 | - |
| 1978-79 | 14589.55 | 128.41 | 84.50 | - |
| 1979-80 | 15940.70 | 103.63 | 134.58 | - |
| 1980-81 | 18904.42 | 68.66 | 209.44 | - |
| 1981-82 | 22251.24 | 77.47 | 229.56 | - |
| 1982-83 | 27697.51 | 120.06 | 113.20 | - |
| 1983-84 | 30298.69 | 175.55 | 86.63 | - |
| 1984-85 | 38116.27 | 201.16 | 94.23 | - |
| 1985-86 | 39809.78 | 283.49 | 142.51 | - |
| 1986-87 | 51773.82 | 199.03 | 94.35 | - |
| 1987-88 | 59220.57 | 231.51 | 52.00 | - |
| 1988-89 | 62291.95 | 122.68 | 103.58 | - |
| 1989-90 | 72461.50 | 53.50 | 78.02 | - |
| 1990-91 | 78258.10 | 17.73 | 40.64 | - |
| 1991-92 | 83803.43 | 68.87 | 75.78 | - |
| 1992-93 | 88117.25 | 127.27 | 94.21 | - |
| 1993-94 | 92064.05 | 122.70 | 113.79 | - |
| 1994-95 | 103907.60 | 118.42 | 216.80 | - |
| 1995-96 | 106592.75 | 75.58 | 200.49 | - |
| 1996-97 | 107240.03 | 124.48 | 304.13 | - |
| 1997-98 | 120376.26 | 108.47 | 320.11 | - |
| 1998-99 | 136802.00 | 53.14 | 245.05 | - |
| 1999-00 | 141330.13 | 137.35 | 110.49 | - |
| 2000-01 | 151312.47 | 114.02 | 92.01 | - |
| 2001-02 | 151577.35 | 102.10 | 66.00 | - |
| 2002-03 | 131180.00 | 154.20 | 74.08 | - |
| 2003-04 | 134482.37 | 209.17 | 114.32 | - |
| 2004-05 | 141021.85 | 229.86 | 123.75 | - |
| 2005-06 | 153920.65 | 204.85 | 149.61 | 0.19 |
| 2006-07 | 146261.67 | 111.84 | 119.19 | 0.51 |
| 2007-08 | 150991.54 | 137.11 | 111.52 | 0.45 |
| 2008-09 | 1,61,007.68 | 90.26 | 112.81 | 0.47 |
| 2009-10 | 1,66,557.42 | 9.74 | 124.69 | 0.48 |
| 2010-11 | 150031.41 | 118.78 | 137.66 | 0.41 |
| 2011-12 | 151047.84 | 182.48 | 59.89 | 0.45 |
| 2012-13 | 175944.51 | 266.11 | 34.97 | 0.59 |
| 2013-14 | 183522.79 | 424.72 | 175.00 | 0.54 |
| 2014-15 | 180765.64 | 378.13 | 291.06 | 0.52 |
| 2015-16 | 207838.44 | 439.33 | 238.22 | 0.49 |
| 2016-17 | 215894.52 | 512.56 | 347.98 | 0.59 |
| 2017-18 | 211341.98 | 615.35 | 795.34 | 0.82 |
| 2018-19 | 269829.08 | 480.06 | 372.50 | 0.57 |
| 2019-20 | 267767.94 | 301.09 | 11.93 | 1.24 |




Note : Y axis represents the values of Liquid Fuel and Coal, Unit of Liquid Fuel is Million Litre and Coal Unit is Ten Thouasand Ton

## Year Wise Fuel Cost of Public Sector Power Plants

Million Taka

| Year | East Zone | West Zone | System Total | % Change over preceding Year |
|---|---|---|---|---|
| 1991-92 | 3,337 | 1,484 | 4,821 | - |
| 1992-93 | 3,803 | 2,157 | 5,960 | 23.62 |
| 1993-94 | 4,085 | 2,388 | 6,473 | 8.61 |
| 1994-95 | 4,951 | 3,242 | 8,193 | 26.58 |
| 1995-96 | 5,072 | 2,828 | 7,900 | (3.58) |
| 1996-97 | 4,882 | 4,376 | 9,258 | 17.20 |
| 1997-98 | 5,809 | 4,479 | 10,289 | 11.13 |
| 1998-99 | 7,116 | 3,325 | 10,441 | 1.48 |
| 1999-00 | 7,732 | 2,080 | 9,812 | (6.02) |
| 2000-01 | 8,846 | 2,533 | 11,378 | 15.96 |
| 2001-02 | 9,152 | 2,474 | 11,626 | 2.18 |
| 2002-03 | 8,324 | 3,488 | 11,813 | 1.60 |
| 2003-04 | 8,482 | 4,926 | 13,409 | 13.51 |
| 2004-2005 | 9,313 | 6,757 | 16,070 | 19.85 |
| 2005-2006 | 8,945 | 7,385 | 16,330 | 1.62 |
| 2006-2007 | 7,265 | 9,494 | 16,759 | 2.63 |
| 2007-2008 | 8,759 | 8,194 | 16,953 | 1.16 |
| 2008-2009 | 6,624 | 11,609 | 18,232 | 7.54 |
| 2009-2010 | 7,120 | 9,245 | 16,364 | (10.25) |
| 2010-2011 | 6,431 | 12,632 | 19,063 | 16.49 |
| 2011-2012 | 13,831 | 14,740 | 28,571 | 49.88 |
| 2012-2013 | 18,885 | 18,380 | 37,266 | 30.43 |
| 2013-2014 | 23,430 | 32,822 | 56,252 | 50.95 |
| 2014-2015 | 23,307 | 36,946 | 60,253 | 7.11 |
| 2015-2016 | 31,753 | 30,137 | 61,890 | 2.72 |
| 2016-2017 | 32,261 | 35,699 | 67,960 | 9.81 |
| 2017-2018 | 55,611 | 50,098 | 105,709 | 55.55 |
| 2018-2019 | 38,427 | 30,157 | 68,584 | (35.12) |
| 2019-2020 | 33,455 | 24,410 | 57,865 | (15.63) |

## Fuel Price

| SL. No. | Fuel Type | Unit price with effect from | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 06.01.03 | 08.06.04 | 01.01.05 | 04.09.05 | 26.06.06 | 02.04.08 | 01.07.08 | 27.10.08 | 23.12.08 | 13.01.09 | 15.03.09 | 01.08.09 | 01.07.10 | 05.05.11 | 01.01.12 | 01.02.12 | 04.01.13 | 01.05.15 | 24.05.16 | 01.03.17 | 01.06.17 | 01.06.19 |
| 1. | High speed Diesel oil (TK./ Lit) | 19.83 | 19.83 | 22.37 | 29.18 | 31.98 | 40.00 | 53.43 | 46.51 | 44.61 | 42.71 | 42.71 | 42.71 | 42.71 | 46.00 | 61.00 | 61.00 | 68.00 | 68.00 | 65.00 | 65.00 | 65.00 | 65.00 |
| 2. | Furnace oil (TK./ Lit) | 10.00 | 12.00 | 12.00 | 14.00 | 14.00 | 20.00 | 30.00 | 30.00 | 30.00 | 30.00 | 26.00 | 26.00 | 26.00 | 42.00 | 60.00 | 60.00 | 60.00 | 60.00 | 42.00 | 42.00 | 42.00 | 42.00 |
| 3. | Natarul Gas (TK./ 1000 Cft) | 70.00 | 70.00 | 73.91 | 73.91 | 73.91 | 73.91 | 73.91 | 73.91 | 73.91 | 73.91 | 73.91 | 79.82 | 79.82 | 79.82 | 79.82 | 79.82 | 79.82 | 79.82 | 79.82 | 84.65 | 89.46 | 126 |
| 4. | Coal (US $./ M Ton) | | | | | 60 | 60 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 86.00 | 86.00 | 86.00 | 105.00 | 105.00 | 130.00 | 130.00 | 130.00 | 130.00 | 130.00 |

# TRANSMISSION TABLES AND CHARTS

## CIRCLE WISE SUB-STATIONS CAPACITY (MVA)

**(As of June 2020)**

### Information about present Grid Substation:

#### Summary of 400 KV HVDC Sub-Station

| S.N. | Name of Sub-station | Capacity |
|---|---|---|
| 01 | Bheramara HVDC Back to Back Station | 2x500 MW |

#### Summary of 400/230 KV Sub-Station Information

| S.N. | Name of Sub-station | Circle | Capacity (MVA) |
|---|---|---|---|
| 01 | Bibiyana | Cumilla | 1040 |
| 02 | Kaliakoir | Dhaka (N) | 1040 |
| 03 | Ashuganj (N) (APSCL) | Cumilla | 650 |
| 04 | Bhulta | Dhaka (S) | 1040 |
| **Total** | | **4 No's** | **3,770** |

#### Summary of 400/132 KV Sub-Station Information

| S.N. | Name of Sub-station | Circle | Capacity (MVA) |
|---|---|---|---|
| 01 | Kaliakoir | Dhaka(N) | 650 |
| 02 | Gopalganj | Khulna | 650 |
| **Total** | | **1 No's** | **1,300** |

#### Summary of Grid Circle wise 230/132KV Sub-Station

| S.N. | Circle Name | PGCB | | BPDB/APSCL/NWPGCL | | Private | |
|---|---|---|---|---|---|---|---|
| | | No.'s of Sub-station | Capacity (MVA) | No.'s of Sub-station | Capacity (MVA) | No.'s of Sub-station | Capacity (MVA) |
| 01 | Bogura | 3+1 (Switching) | 1800 | - | - | - | - |
| 02 | Chattogram | 2 | 1200 | - | - | 3 | 910 |
| 03 | Cumilla | 2 | 750 | 1 | 300 | - | - |
| 04 | Dhaka (N) | 3 | 1950 | 1 | 250 | - | - |
| 05 | Dhaka (S) | 6+1 (Switching) | 3825 | - | - | - | - |
| 06 | HVDC | 2 | 1200 | 1 | 450 | - | - |
| 07 | Khulna | 2 | 1350 | - | - | - | - |
| **Total** | | **22** | **12,075** | **3** | **1000** | **3** | **910** |
| **Grand Total (MVA)** | | **26 No.'s** | | | | | **13,985 MVA** |

#### Summary of Grid Circle wise 132/33KV Sub-Station

| S.N. | Circle Name | PGCB | | BPDB/APSCL | | DPDC, DESCO & Others | |
|---|---|---|---|---|---|---|---|
| | | No.'s of S/S | Capacity (MVA) | No.'s of S/S | Capacity (MVA) | No.'s of S/S | Capacity (MVA) |
| 01 | Bogura | 22 | 4614 | - | - | - | - |
| 02 | Chattogram | 15 | 2187 | 2 | 136.6 | 7 | 415 |
| 03 | Cumilla | 17 | 3085 | 1 | 116 | 1 | 35 |
| 04 | Dhaka (N) | 21 | 5177.6 | 1 | 126 | 6 | 1380 |
| 05 | Dhaka (S) | 12 | 2425 | - | - | 12 | 1878 |
| 06 | HVDC | 10 | 1831.3 | - | - | - | 20 |
| 07 | Khulna | 17 | 2735 | 1 | 60 | - | - |
| **Total** | | **114** | **22,055** | **5** | **439** | **26** | **3,728** |
| **Grand Total (MVA)** | | **145 No's** | | | | **26,222 MVA** | |
| **Dispatch Capacity at 33kV voltage level: 24,418 MW** | | | | | | | |

# Synopsis of Transmission Lines

**(As of June 2020)**

## 400 KV Transmission Lines

| Sl. No. | Name of Lines | Length in Route Kilometers | Length in Ckt. Kilometers | No. of Ckt. | Conductor | |
|---|---|---|---|---|---|---|
| | | | | | Name | Size |
| 1 | HVDC Bheramara-Bangladesh Border (Baharampur) | 27.35 | 54.7 | Double | Twin Finch | 1113 MCM |
| 2 | Aminbazar-Meghnaghat* | 55 | 110 | Double | Quad Egret | 636 MCM |
| 3 | Cumilla(N)- Bangladesh Border** | 28 | 56 | Double | Twin Finch | 1113 MCM |
| 4 | Bibiyana-Kaliakoir | 169.53 | 339.06 | Double | Twin Finch | 1113 MCM |
| 5 | Ashuganj(N)-Bhulta | 69 | 138 | Double | Twin Finch | 1113 MCM |
| 6 | Payra-Gopalganj | 163.55 | 163.55 | Single | Quad ACCC Dhaka | 1429 MCM |
| | **Total** | **348.88** | **697.76** | | | |

* Presently Operated at 230kV

** Presently Operated at 132kV

## 230 KV Transmission Lines

| Sl. No. | Name of Lines | Length in Route Kilometers | Length in Ckt. Kilometers | No. of Ckt. | Conductor | |
|---|---|---|---|---|---|---|
| | | | | | Name | Size |
| 1 | Ghorasal-Ishurdi | 175 | 350 | Double | Mallard | 795 MCM |
| 2 | Tongi - Ghorasal | 27 | 54 | Double | Mallard | 795 MCM |
| 3 | Ghorasal - Ashuganj | 44 | 88 | Double | Mallard | 795 MCM |
| 4 | Raojan - Hathazari | 22.5 | 45 | Double | Twin 300 sq.mm | |
| 5 | Ashuganj - Cumilla North | 79 | 158 | Double | Finch | 1113 MCM |
| 6 | Ghorasal - Rampura | 50 | 100 | Double | Twin Mallard | 2x795 MCM |
| 7 | Rampura - Haripur | 22 | 44 | Double | Twin Mallard | 2x795 MCM |
| 8 | Haripur - Meghnaghat | 12.5 | 25 | Double | Twin Mallard | 2x795 MCM |
| 9 | Meghnaghat - Hasnabad | 24.5 | 49 | Double | Twin Mallard | 2x795 MCM |
| 10 | Cumilla North - Hathazari | 151 | 302 | Double | Finch | 1113 MCM |
| 11 | AES, Haripur - Haripur | 2.4 | 4.8 | Double | Finch | 1113 MCM |
| 12 | Cumilla North - Meghnaghat | 58 | 116 | Double | Twin Mallard | 2x795 MCM |
| 13 | Tongi-Aminbazar | 25.2 | 50.4 | Double | Twin AAAC | 2x37/4.176 mm. |
| 14 | Aminbazar-Hasnabad | 21.5 | 43 | Double | Twin AAAC | 2x37/4.176 mm. |
| 15 | Siddhirganj 210 MW P/S -Haripur | 1.5 | 1.5 | Single | ACSR | 600 sq. mm. |
| 16 | Ashuganj - Sirajganj | 144 | 288 | Double | Twin AAAC | 2x37/4.176 mm. |
| 17 | Khulna-Bheramara HVDC | 176.5 | 353 | Double | Twin AAAC | 2x37/4.176 mm. |
| 18 | Bheramara HVDC-Ishurdi | 10.1 | 20.2 | Double | Twin AAAC | 2x37/4.176 mm. |
| 19 | Bogura-Barapukuria | 106 | 212 | Double | Twin AAAC | 2x37/4.176 mm. |
| 20 | Sirajganj-Bogura | 72.5 | 145 | Double | Twin AAAC | 2x37/4.176 mm. |
| 21 | Ishurdi-Baghabari | 55 | 110 | Double | Twin AAAC | 2x37/4.176 mm. |
| 22 | Baghabari-Sirajganj | 38 | 76 | Double | Twin AAAC | 2x37/4.176 mm. |
| 23 | Fenchuganj-Bibiyana | 33.19 | 67.37 | Double | Twin Mallard | 2x795 MCM |
| 24 | Bibiyana-Cumilla(N) | 153.55 | 307 | Double | Twin Mallard | 2x795 MCM |
| 25 | Aminbazar-Old Airport (O/H) | 3.58 | 7.15 | Double | Twin Mallard | 2x795 MCM |
| 26 | Aminbazar-Old Airport (U/G) | 4.01 | 8.03 | Double | XLPE | 2000 sq. mm. |
| 27 | Siddhirganj-Maniknagar | 11 | 22 | Double | Twin Mallard | 2x795 MCM |
| 28 | Bhola-Barishal | 62.5 | 125 | Double | Twin Mallard | 2x795 MCM |
| 29 | LILO of Cumilla(N)-Hathazari line at BSRM | 0.18 | 0.72 | Double | Finch | 1113 MCM |
| 30 | LILO of Cumilla(N)-Hathazari line at AKSPL | 6.5 | 13 | Double | Finch | 1113 MCM |
| 31 | LILO of Aminbazar-Tongi line at Kaliakoir | 31.96 | 127.83 | Four | Twin Mallard | 2x795 MCM |
| 32 | Bheramara HVDC-Bheramara 230 | 3 | 12 | Double | Twin AAAC | 2x37/4.176 mm. |
| 33 | LILO of Ghorashal-Rampura at Bhulta | 1.92 | 3.84 | Double | Twin Mallard | 2x795 MCM |
| 34 | LILO of Haripur-Rampura at Bhulta | 2.62 | 10.49 | Four | Twin Mallard | 2x795 MCM |
| 35 | Haripur-Siddhirganj | 1.65 | 3.3 | Double | Twin Mallard | 2x795 MCM |
| 36 | Bheramara HVDC- Ishwardi | 12.8 | 25.6 | Double | Quad Mallard | 4x795 MCM |
| 37 | LILO of Tongi-Kaliakoir at Kodda PP | 0.94 | 1.88 | Double | Twin Mallard | 2x795 MCM |
| 38 | LILO of Hasnabad-Aminbazar at Keraniganj | 0.39 | 1.57 | Four | Twin Mallard | 2x795 MCM |
| 39 | Sikalbaha-Anowara | 17.28 | 34.56 | Double | Twin Mallard | 2x795 MCM |
| 40 | LILO of Hasnabad-Meghnaghat at Shyampur | 0.12 | 0.46 | Four | Twin Mallard | 2x795 MCM |
| 41 | Patuakhali-Payra | 46.5 | 93 | Double | Twin ACCC Hamburg | 2x1070MCM |
| 42 | Ishurdi-Rajshahi | 79.12 | 158.24 | Double | Twin Mallard | 2x795 MCM |
| | **Total** | **1791** | **3658** | | | |

## 132 KV Transmission Lines

| Sl. No. | Name of Lines | Length in Route Kilometers | Length in Ckt. Kilometers | No. of Ckt. | Conductor | |
|---|---|---|---|---|---|---|
| | | | | | Name | Size |
| 1 | Shahjibazar-Brahmanbaria | 57 | 114 | Double | Grosbeak | 636 MCM |
| 2 | Brahmanbaria-Ashuganj | 16.5 | 33 | Double | Grosbeak | 636 MCM |
| 3 | Ashuganj-Ghorasal | 45.3 | 90.64 | Double | Grosbeak | 636 MCM |
| 4 | Ghorasal-Narsingdi | 13.35 | 13.35 | Single | Grosbeak | 636 MCM |
| 5 | Narsingdi-Haripur | 34.33 | 34.33 | Single | Grosbeak | 636 MCM |
| 6 | Ghorasal-Bhulta | 29.1 | 29.1 | Single | Grosbeak | 636 MCM |
| 7 | Bhulta-Haripur | 15.25 | 15.25 | Single | Grosbeak | 636 MCM |
| 8 | Haripur-Siddhirganj | 2 | 4 | Double | Grosbeak | 636 MCM |
| 9 | Shahjibazar-Srimangal | 36.2 | 72.4 | Double | Grosbeak | 636 MCM |
| 10 | Srimangal-Fenchuganj | 49 | 98 | Double | Grosbeak | 636 MCM |
| 11 | Fenchuganj-Fenchuganj PS | 3.7 | 14.64 | Four | ACCC Grosbeak | 816 MCM |
| 12 | Fenchuganj-Sylhet | 31.7 | 63.4 | Double | ACCC Grosbeak | 816 MCM |
| 13 | Sylhet-Chhatak | 32.9 | 65.8 | Double | Grosbeak | 636 MCM |
| 14 | Kaptai-Hathazari | 45 | 90 | Double | Grosbeak | 636 MCM |
| 15 | Hathazari-Feni | 85.4 | 170.8 | Double | Grosbeak | 636 MCM |
| 16 | Feni-Cumilla (N) | 66 | 132 | Double | Grosbeak | 636 MCM |
| 17 | Cumilla (N)- Daudkandi | 55 | 110 | Double | Grosbeak/AAAC | 636 MCM |
| 18 | Daudkandi-Sonargaon | 61.7 | 123.4 | Double | Grosbeak/AAAC | 636 MCM |
| 19 | Sonargaon-Haripur | 15 | 30 | Double | Grosbeak/AAAC | 636 MCM |
| 20 | Haripur-Siddhirganj | 2.3 | 4.5 | Double | Grosbeak | 636 MCM |
| 21 | Khulshi-Halishahar | 13 | 26 | Double | Grosbeak | 636 MCM |
| 22 | Cumilla (N)-Chandpur | 77.5 | 77.5 | Single | Linnet + Grosbeak | (336.4 + 636) MCM |
| 23 | Cumilla (N)-Cumilla (S) | 16 | 16 | Single | Grosbeak | 636 MCM |
| 24 | Cumilla (S)-Chandpur | 62 | 62 | Single | Linnet | 336.4 mCM |
| 25 | Ashuganj-Kishoreganj | 52 | 104 | Double | ACCC Grosbeak | 816 MCM |
| 26 | Kishoreganj-Mymensingh | 59 | 118 | Double | Grosbeak | 636 MCM |
| 27 | Mymensingh-Jamalpur | 55 | 110 | Double | Grosbeak | 636 MCM |
| 28 | Madunaghat-Sikalbaha | 16.5 | 16.5 | Single | Grosbeak | 636 MCM |
| 29 | Madunaghat-TKC | 8.5 | 8.5 | Single | Grosbeak | 636 MCM |
| 30 | TKC-Sikalbaha | 8.5 | 8.5 | Single | Grosbeak | 636 MCM |
| 31 | Sikalbaha-Dohazari | 32 | 64 | Double | ACCC Grosbeak | 816 MCM |
| 32 | Sikalbaha-Juldah | 7.5 | 7.5 | Single | AAAC | 804 sq.mm |
| 33 | Juldah-Halishahar | 8 | 8 | Single | AAAC | 804 sq.mm |
| 34 | Khulshi-Baroaulia | 15 | 15 | single | Grosbeak | 636 MCM |
| 35 | Khulshi-AKSML | 11 | 11 | single | Grosbeak | 636 MCM |
| 36 | AKSML-Baroaulia | 4 | 4 | single | Grosbeak | 636 MCM |
| 37 | Madunaghat-Khulshi | 13 | 13 | Single | Grosbeak | 636 MCM |
| 38 | Madunaghat-Khulshi | 13 | 13 | Single | Grosbeak | 636 MCM |
| 39 | Kaptai-Chandraghona | 11.5 | 23 | Double | Grosbeak | 636 MCM |
| 40 | Chandraghona-Madunaghat | 27 | 54 | Double | Grosbeak | 636 MCM |
| 41 | Madunaghat-Hathazari | 10.2 | 20.4 | Double | Grosbeak | 636 MCM |
| 42 | Hathazari-Baroaulia | 11 | 22 | Double | Grosbeak | 636 MCM |
| 43 | Dohazari-Cox's Bazar | 87 | 174 | Double | Grosbeak | 636 MCM |
| 44 | Feni-Chowmuhani | 32 | 64 | Double | Grosbeak | 636 MCM |
| 45 | Baroaulia- Kabir Steel | 4 | 4 | Single | Grosbeak | 636 MCM |
| 46 | Mymensingh-Netrokona | 34 | 68 | Double | Grosbeak | 636 MCM |
| 47 | Goalpara-Khulna (C) | 1.5 | 3 | Double | AAAC | 636 MCM |
| 48 | Khulna (C)-Noapara | 22.8 | 45.6 | Double | AAAC | 636 MCM |
| 49 | Noapara-Jessore | 27.9 | 55.8 | Double | AAAC | 636 MCM |
| 50 | Jessore-Jhenaidah | 47.5 | 95 | Double | AAAC | 636 MCM |
| 51 | Jhenaidah-Kustia | 43 | 86 | Double | ACCC Grosbeak | 816 MCM |
| 52 | Kustia-Bheramana | 23 | 46 | Double | ACCC Grosbeak | 816 MCM |
| 53 | Bheramara-Ishwardi | 10 | 20 | Double | AAAC | 636 MCM |
| 54 | Ishwardi-Natore | 42 | 84 | Double | AAAC | 636 MCM |
| 55 | Natore-Bogura | 61 | 122 | Double | AAAC | 636 MCM |
| 56 | Bogura-Palashbari | 50 | 100 | Double | AAAC | 636 MCM |
| 57 | Palashbari-Rangpur | 52 | 104 | Double | AAAC | 636 MCM |
| 58 | Rangpur-Saidpur | 41.5 | 83 | Double | AAAC | 636 MCM |
| 59 | Saidpur-Purbasadipur | 24.5 | 49 | Double | ACCC Grosbeak | 816 MCM |
| 60 | Purbasadipur-Thakurgaon | 45 | 90 | Double | AAAC | 636 MCM |
| 61 | Barishal-Bhandaria | 49 | 49 | Single | HAWK | 477 MCM |
| 62 | Bhandaria-Bagerhat | 40 | 40 | Single | HAWK | 477 MCM |
| 63 | Bagerhat-Mongla | 28 | 28 | Single | HAWK | 477 MCM |
| 64 | Barishal-Patuakhali | 38.2 | 38.2 | Single | HAWK | 477 MCM |
| 65 | Bheramara-Faridpur | 105 | 210 | Double | ACCC HAWK | 611 MCM |

| Sl. No. | Name of Lines | Length in Route Kilometers | Length in Ckt. Kilometers | No. of Ckt. | Conductor | |
|---|---|---|---|---|---|---|
| | | | | | Name | Size |
| 66 | Faridpur-Madaripur | 65.5 | 131 | Double | HAWK | 477 MCM |
| 67 | Madaripur-Barishal(N) | 49 | 97 | Double | HAWK | 477 MCM |
| 68 | Barishal(N)-Barishal | 10 | 20 | Double | ACCC HAWK | 611 MCM |
| 69 | Rajshahi-Natore | 37 | 37 | Single | HAWK | 477 MCM |
| 70 | Ishwardi-Baghabari | 63 | 63 | Single | HAWK | 477 MCM |
| 71 | Baghabari-Shahjadpur | 5 | 5 | Single | HAWK | 477 MCM |
| 72 | Ishwardi-Pabna | 18 | 18 | Single | Grosbeak | 636 MCM |
| 73 | Pabna-Shahjadpur | 41 | 41 | Single | Grosbeak | 636 MCM |
| 74 | Bogura-Sirajganj | 66 | 132 | Double | Grosbeak | 636 MCM |
| 75 | Sirajganj-Shahjadpur | 34 | 34 | Single | Grosbeak | 636 MCM |
| 76 | Sirajganj-Baghabari | 39.7 | 39.7 | Single | Grosbeak | 636 MCM |
| 77 | Rajshahi-Chapai Nawabganj | 48 | 96 | Double | Grosbeak | 636 MCM |
| 78 | Rangpur-Lalmonirhat | 38 | 38 | Single | Grosbeak | 636 MCM |
| 79 | Bogura-Naogaon | 44 | 88 | Double | ACCC Grosbeak | 816 MCM |
| 80 | Kabirpur-Tangail | 51 | 102 | Double | ACCC/ACSR Grosbeak | 816/636 MCM |
| 81 | Tongi-Mirpur | 17 | 17 | Single | ACCC Grosbeak | 816 MCM |
| 82 | Tongi-Uttara | 14.5 | 14.5 | Single | ACCC Grosbeak | 816 MCM |
| 83 | Uttara-Mirpur | 8.5 | 8.5 | Single | ACCC Grosbeak | 816 MCM |
| 84 | Mirpur-Aminbazar | 7 | 14 | Double | ACCC Grosbeak | 816 MCM |
| 85 | Aminbazar-Kallayanpur | 4 | 8 | Double | Grosbeak | 636 MCM |
| 86 | Hasnabad-Lalbagh | 30 | 30 | Single | Grosbeak | 636 MCM |
| 87 | Kamrangirchar-Lalbagh | 2.6 | 2.6 | Single | Grosbeak | 636 MCM |
| 88 | Kallayanpur-Kamrangirchar | 11 | 11 | Single | Grosbeak | 636 MCM |
| 89 | Kallayanpur-Keraniganj | 20 | 20 | Single | Grosbeak | 636 MCM |
| 90 | Hasnabad-Keraniganj | 13.6 | 13.6 | Single | Grosbeak | 636 MCM |
| 91 | Tongi-New Tongi | 0.5 | 1 | Double | Grosbeak | 636 MCM |
| 92 | Hasnabad-Sitalakhya | 12.6 | 12.6 | Single | Grosbeak | 636 MCM |
| 93 | Madanganj-Sitalakhya | 4 | 4 | Single | Grosbeak | 636 MCM |
| 94 | Hasnabad-Shyampur | 21 | 21 | Single | Grosbeak | 636 MCM |
| 95 | Shyampur-Haripur | 30 | 30 | Single | Grosbeak | 636 MCM |
| 96 | Madanganj-Haripur | 12.4 | 12.4 | Single | Grosbeak | 636 MCM |
| 97 | Siddhirganj-Ullon | 16 | 32 | Double | Grosbeak | 636 MCM |
| 98 | Haripur-Matuail | 5.65 | 5.65 | Single | Grosbeak | 636 MCM |
| 99 | Maniknagar-Matuail | 16 | 16 | Single | Grosbeak | 636 MCM |
| 100 | Siddhirganj-Maniknagar | 10 | 10 | Single | Grosbeak | 636 MCM |
| 101 | Maniknagar-Bangabhaban | 3 | 6 | Double | Cu.Cable | 240 sq.mm |
| 102 | Maniknagar-Narinda | 5 | 10 | Double | Cu.Cable | 240 sq.mm |
| 103 | Ullon-Dhanmondi | 5.5 | 11 | Double | Cu.Cable | 240 sq.mm |
| 104 | Ullon-Dhanmondi | 5.5 | 11 | Double | XLPE | 500 sq.mm |
| 105 | Tongi-Kabirpur | 22.5 | 45 | Double | Grosbeak | 636 MCM |
| 106 | Kabirpur-Manikganj | 32 | 64 | Double | Grosbeak | 636 MCM |
| 107 | Ullon-Rampura | 4 | 8 | Double | XLPE | 800 sq. mm |
| 108 | Rampura-Bashundhara | 8 | 16 | Double | Grosbeak | 636 MCM |
| 109 | Bashundhara-Tongi | 11 | 22 | Double | Grosbeak | 636 MCM |
| 110 | Rampura-Moghbazar | 4.5 | 9 | Double | Grosbeak | 636 MCM |
| 111 | Ghorasal-Joydevpur | 28 | 56 | Double | Grosbeak | 636 MCM |
| 112 | Baghabari-Shahjadpur | 5.5 | 5.5 | Single | Grosbeak | 636 MCM |
| 113 | Chandpur-Chowmuhani | 68 | 136 | Double | Grosbeak | 636 MCM |
| 114 | Barapukuria-Rangpur | 42 | 84 | Double | Grosbeak | 636 MCM |
| 115 | Barapukuria-Saidpur | 36 | 72 | Double | ACCC HAWK | 611MCM |
| 116 | Madaripur-Gopalganj | 45 | 45 | Single | AAAC | 804 MCM |
| 117 | Khulna (C)-Khulna(S) | 9 | 18 | Double | Twin AAAC | 37/4.176 mm. |
| 118 | Khulna(S)-Satkhira | 47 | 94 | Double | AAAC | 804 MCM |
| 119 | Rajshahi-Natore | 40 | 40 | Single | Grosbeak | 636 MCM |
| 120 | Rampura-Gulshan | 3.3 | 6.6 | Double | XLPE | 800 sq.mm |
| 121 | Sikalbaha-Bakulia | 4 | 8 | Double | Grosbeak | 636 MCM |
| 122 | Juldah-Shahmirpur | 6 | 12 | Double | Grosbeak | 636 MCM |
| 123 | Khulshi-Bakulia | 15 | 30 | Double | Grosbeak | 636 MCM |
| 124 | Haripur-Maniknagar | 13 | 13 | Single | Grosbeak | 636 MCM |
| 125 | Joydevpur-Kodda PP | 8 | 16 | Double | Grosbeak | 636 MCM |
| 126 | Kodda PP-Kabirpur | 10 | 20 | Double | Grosbeak | 636 MCM |
| 127 | Sikalbaha-Shahmirpur | 9 | 18 | Double | Grosbeak | 636 MCM |
| 128 | Khulshi-Halishahar (Open at Khulshi) | 13 | 13 | Single | Grosbeak | 636 MCM |
| 129 | BoguraOld-BoguraNew | 1.5 | 3 | Double | Twin AAAC | 37/4.176 mm. |
| 130 | Ashuganj-Shahjibazar | 53 | 53 | Single | Grosbeak | 636 MCM |
| 131 | Khulna (S) -Gallamari | 4.2 | 8.4 | Double | Grosbeak | 636 MCM |

| Sl. No. | Name of Lines | Length in Route Kilometers | Length in Ckt. Kilometers | No. of Ckt. | Conductor | |
|---|---|---|---|---|---|---|
| | | | | | Name | Size |
| 132 | Naogaon-Niyamatpur | 46 | 46 | Single | AAAC | 804 MCM |
| 133 | Aminbazar-Savar | 15.8 | 31.6 | Double | Grosbeak | 636 MCM |
| 134 | Jhenaidah-Magura | 26.5 | 53 | Double | Grosbeak | 636 MCM |
| 135 | Jhenaidah-Chuadanga | 39.3 | 39.3 | Single | Grosbeak | 636 MCM |
| 136 | Naogaon-Joypurhat | 46.2 | 46.2 | Single | Grosbeak | 636 MCM |
| 137 | Thakurgaon-Panchagarh | 45 | 45 | Single | AAAC | 636 MCM |
| 138 | Sonargaon S/S to Megnaghat Rental PP | 5 | 10 | Double | Grosbeak | 636 MCM |
| 139 | Shiddhirganj to Siddhirganj Dutch Bangla PP | 2.4 | 2.4 | Single | Grosbeak | 636 MCM |
| 140 | Goalpara-Khulna © | 2.4 | 2.4 | Single | XLPE | Grosbeak |
| 141 | Noapara PP to Noapara Ss | 1.6 | 1.6 | Single | Grosbeak | Grosbeak |
| 142 | Daudkandi PP to Daudkandi ss | 1.3 | 1.3 | Single | Grosbeak | Grosbeak |
| 143 | Gopalganj PP to Gopalganj ss | 1.2 | 1.2 | Single | Grosbeak | Grosbeak |
| 144 | Shiddhirganj desh energy PP to Siddhirganj ss | 2.5 | 2.5 | Single | Grosbeak | Grosbeak |
| 145 | Faridpur PP to Faridpur -Bheramara | 1 | 1 | Single | Grosbeak | Grosbeak |
| 146 | Bera PP to Baghabari -Ishwardi line | 4.5 | 4.5 | Single | Grosbeak | Grosbeak |
| 147 | Amnura PP to Rajshahi-Chapai | 12.6 | 12.6 | Single | Grosbeak | Grosbeak |
| 148 | Madanganj-Munsiganj | 4 | 8 | Double | Grosbeak | 800 sq.mm |
| 149 | Old Airport-Cantonment | 7 | 13.98 | Double | XLPE | 636 MCM |
| 150 | Fenchuganj- Kulaura | 25 | 50 | Double | Grosbeak | 636 MCM |
| 151 | Jamalpur- Sherpur | 20 | 40 | Double | Grosbeak | 800 sq.mm |
| 152 | Old Airport-Sajmasjid | 8.3 | 16.588 | Double | XLPE | 500 sq.mm |
| 153 | Rampura-Madertek | 4.5 | 9 | Double | XLPE | 636 MCM |
| 154 | Cumilla(N)- Cumilla(S) | 19 | 38 | Double | Grosbeak | 636 MCM |
| 155 | Goalpara-Bagerhat | 45 | 90 | Double | Grosbeak | 636 MCM |
| 156 | LILO of Kabirpur-Tangail at Kaliakoir | 4.3 | 17.12 | Four | ACCC/ACSR Grosbeak | 636 MCM |
| 157 | Tangail-RPCL | 93.4 | 186.88 | Double | Grosbeak | 636 MCM |
| 158 | Amnura-Chapai Nawabganj | 12.6 | 12.6 | Single | Grosbeak | 636 MCM |
| 159 | Kaliakoir-Dhamrai | 22.7 | 45.46 | Double | Grosbeak | 636 MCM |
| 160 | Rangamati-Khagrachari | 52.3 | 104.6 | Double | Grosbeak | 636 MCM |
| 161 | Chandraghona-Rangamati | 27.7 | 55.4 | Double | Grosbeak | 636 MCM |
| 162 | Chhatak-Sunamganj | 32.1 | 64.1 | Double | Grosbeak | 636 MCM |
| 163 | Beanibazar-Sylhet T-Connection | 30 | 60 | Double | Grosbeak | 800 sq. mm |
| 164 | LILO of Tongi-Mirpur Single circuit at Uttara 3P | 1.1 | 2.2 | Single | XLPE | 636 MCM |
| 165 | T-connection from Dohazari - Cox's Bazar to Matarbari | 18.1 | 18.1 | Single | Grosbeak | 636 MCM |
| 166 | LILO of Feni-Hathazari doucle circuit line at Baroirhat | 3.1 | 12.588 | Four | Grosbeak | 636 MCM |
| 167 | Brahmanbaria-Narsingdi | 54.8 | 109.6 | Double | Grosbeak | 636 MCM |
| 168 | Saidpur-Jaldhaka | 30 | 59.902 | Double | Grosbeak | 636 MCM |
| 169 | RNPP-Ishurdi | 7 | 14 | Double | Grosbeak | 637 MCM |
| 170 | Confedence PP - Bogura 230kV | 7.9 | 15.7 | Double | Grosbeak | 638 MCM |
| 171 | LILO of Jamalpur-Sherpur at United PP | 3.3 | 13.36 | Four | Grosbeak | 639 MCM |
| 172 | LILO of Goalpara-Bagerhat single circuit at Labanchora PP | 6.2 | 12.3 | Double | Grosbeak | 636 MCM |
| 173 | Mymensingh-Bhaluka | 43 | 86 | Double | Grosbeak | 636 MCM |
| 174 | LILO of Bogura-Palashbari at Mahasthangarh | 0.7 | 1.36 | Double | Grosbeak | 636 MCM |
| 175 | Modhumati PP - Gopalganj | 14.6 | 14.6 | Single | Grosbeak | 636 MCM |
| 176 | Jashore-Benapole | 30.5 | 60.936 | Double | Grosbeak | 636 MCM |
| 177 | Madaripur-Shariatpur | 22 | 44 | Double | Grosbeak | 636 MCM |
| 178 | LILO of Shyampur-Haripur at Shyampur | 0.2 | 0.792 | Four | Grosbeak | 636 MCM |
| 179 | Rangpur-Kurigram | 40.95 | 40.949 | Single | Grosbeak | 636 MCM |
| 180 | Magura-Narail | 39.486 | 78.972 | Double | Grosbeak | 636 MCM |
| 181 | LILO of Bogura-Sirajganj at Sherpur (Bogura) | 0.654 | 2.616 | Four | Grosbeak | 636 MCM |
| 182 | LILO of Rajshahi-Chapai-Nawabganj-Amnura at Rajshahi(N) | 0.406 | 1.624 | Four | Grosbeak | 800sq |
| 183 | Rampura-Aftabnagar | 3.66 | 7.32 | Double | XLPE | 636 MCM |
| 184 | LILO of Feni-Cumilla(N) at Chowddagram | 0.788 | 3.152 | Four | Grosbeak | 611 MCM |
| 185 | LILO of Faridpur-Madaripur line at Gopalganj(N) | 1.53 | 6.12 | Four | ACCC HAWK | 636 MCM |
| 186 | LILO of Gopalanj-Madaripur line at Gopalganj(N) | 10.5 | 42 | Four | Grosbeak | 816 MCM |
| 187 | Kodda - Rajendrapur | 24.7 | 49.4 | Double | ACCC Grosbeak | 636 MCM |
| 188 | LILO of Rangpur-Palashbari at Confidence PP | 1.47 | 5.88 | Four | AAAC | |
| | **Total** | **4,591.60** | **7,764.00** | | | |

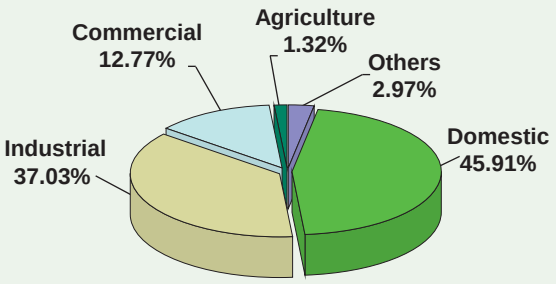
# DISTRIBUTION TABLES AND CHARTS

## Distribution Zone Wise Energy Import and Energy Sales Statistics of BPDB

| Distribution Zone's Name | Energy Imported (MkWh) | | Energy Sold (MkWh) | | Distribution System loss (%) | | |
|---|---|---|---|---|---|---|---|
| | 2018-19 | 2019-20 | 2018-19 | 2019-20 | 2018-19 | 2019-20 | % Change over previous year |
| Mymenshing | 2138.26 | 2178.21 | 1929.75 | 1954.93 | 9.75 | 10.25 | 5.12 |
| Chattogram | 4378.48 | 4248.77 | 4022.20 | 3928.43 | 8.14 | 7.54 | -7.34 |
| Cumilla | 1576.46 | 1605.99 | 1417.30 | 1443.64 | 10.10 | 10.11 | 0.13 |
| Sylhet | 974.16 | 968.93 | 870.63 | 863.66 | 10.63 | 10.86 | 2.23 |
| Others | 2333.11 | 2117.74 | 2332.67 | 2117.43 | 0.02 | 0.01 | -22.63 |
| **Total** | **11400.47** | **11119.64** | **10572.55** | **10308.09** | **7.26** | **7.30** | **0.50** |

### Consumption Pattern of BPDB

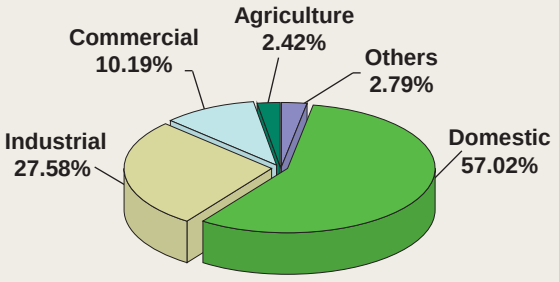
(FY 2019-20)




**Total Retail Consumption : 10,308 MkWh**

### Consumption Pattern of the Country

(FY 2019-20)




**Total Retail Consumption : 63,364 MkWh**

## Distribution Zone Wise Billing and Collection Statistics of BPDB

| Distribution Zone's Name | Billed Amount (Million Tk) | | Collected Amount (Million Tk) | | Accounts Receivable (Million Tk) | | | Coll/Bill Ratio (%) | | C/I Ratio (%) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2018-19 | 2019-20 | 2018-19 | 2019-20 | 2018-19 | 2019-20 | % increase over the previous year | 2018-19 | 2019-20 | 2018-19 | 2019-20 |
| Mymenshing | 11,498 | 12,152 | 11,575 | 11,311 | 4,842 | 5,907 | 22.00 | 100.68 | 93.08 | 90.86 | 83.54 |
| Chattogram | 28,054 | 27,656 | 28,295 | 26,944 | 3,383 | 4,073 | 20.40 | 100.86 | 97.42 | 92.65 | 90.08 |
| Cumilla | 9,522 | 9,751 | 9,467 | 9,341 | 1,935 | 2,305 | 19.08 | 99.42 | 95.79 | 89.38 | 86.11 |
| Sylhet | 6,111 | 5,999 | 6,056 | 5,880 | 2,131 | 2,299 | 7.88 | 99.10 | 98.02 | 88.57 | 87.37 |
| Others | 18,180 | 16,628 | 18,079 | 16,754 | 1,994 | 1,920 | -3.69 | 99.55 | 100.76 | 99.42 | 100.74 |
| **Total** | **73,365** | **72,186** | **73,473** | **70,229** | **14,284** | **16,503** | **15.53** | **100.15** | **97.29** | **92.87** | **90.19** |

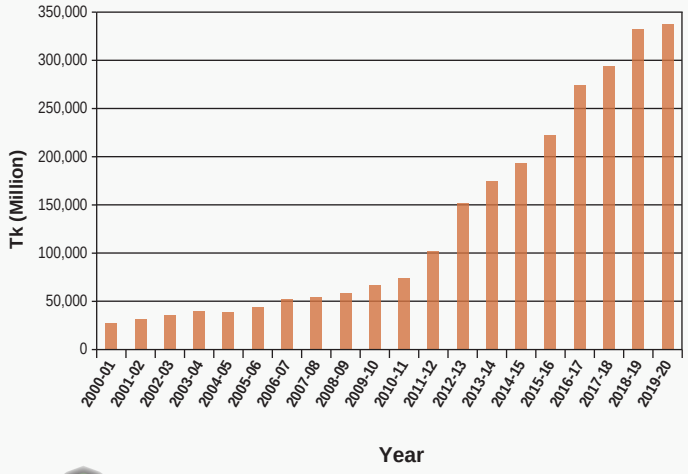
## Revenue Collection
### (Bulk & Retail)

| Year | Million Taka | % Change over previous year |
|---|---|---|
| 1995-96 | 16,791 | 7.05 |
| 1996-97 | 16,015 | -4.62 |
| 1997-98 | 17,199 | 7.39 |
| 1998-99 | 16,235 | -5.61 |
| 1999-00 | 22,450 | 38.28 |
| 2000-01 | 27,017 | 20.34 |
| 2001-02 | 31,373 | 16.12 |
| 2002-03 | 36,066 | 14.96 |
| 2003-04 | 39,608 | 9.82 |
| 2004-05 | 39,177 | -1.09 |
| 2005-06 | 44,284 | 13.03 |
| 2006-07 | 52,799 | 19.23 |
| 2007-08 | 54,060 | 2.39 |
| 2008-09 | 58,922 | 8.99 |
| 2009-10 | 66,776 | 13.33 |
| 2010-11 | 74,303 | 11.27 |
| 2011-12 | 102,242 | 37.60 |
| 2012-13 | 151,711 | 48.38 |
| 2013-14 | 174,740 | 15.18 |
| 2014-15 | 193,013 | 10.46 |
| 2015-16 | 222,382 | 15.22 |
| 2016-17 | 274,355 | 23.37 |
| 2017-18 | 293,725 | 7.06 |
| 2018-19 | 332,294 | 13.13 |
| 2019-20 | 337,846 | 1.67 |

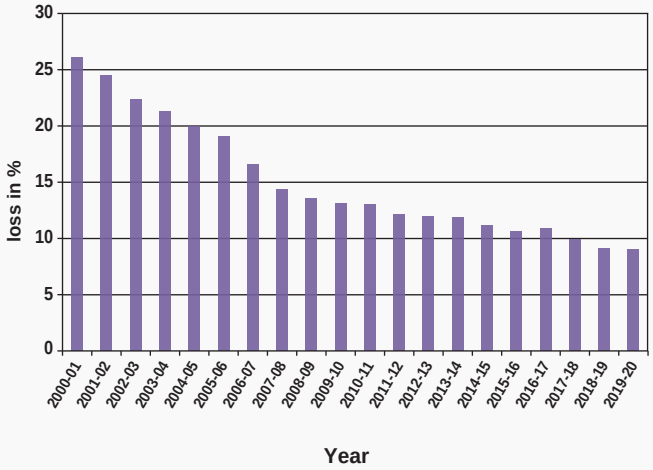
## Distribution System Loss
### (Without 132 KV consumer)

| Year | Distribution System loss In % |
|---|---|
| 1991-92 | 35.79 |
| 1992-93 | 31.24 |
| 1993-94 | 30.72 |
| 1994-95 | 29.94 |
| 1995-96 | 29.09 |
| 1996-97 | 28.28 |
| 1997-98 | 29.82 |
| 1998-99 | 30.56 |
| 1999-00 | 27.73 |
| 2000-01 | 26.11 |
| 2001-02 | 24.5 |
| 2002-03 | 22.35 |
| 2003-04 | 21.33 |
| 2004-05 | 20 |
| 2005-06 | 19.06 |
| 2006-07 | 16.58 |
| 2007-08 | 14.39 |
| 2008-09 | 13.57 |
| 2009-10 | 13.11 |
| 2010-11 | 13.06 |
| 2011-12 | 12.15 |
| 2012-13 | 11.95 |
| 2013-14 | 11.89 |
| 2014-15 | 11.17 |
| 2015-16 | 10.66 |
| 2016-17 | 10.92 |
| 2017-18 | 9.89 |
| 2018-19 | 9.12 |
| 2019-20 | 8.99 |

## Net Revenue Collection




## Distribution System Loss



## Category Wise Consumer

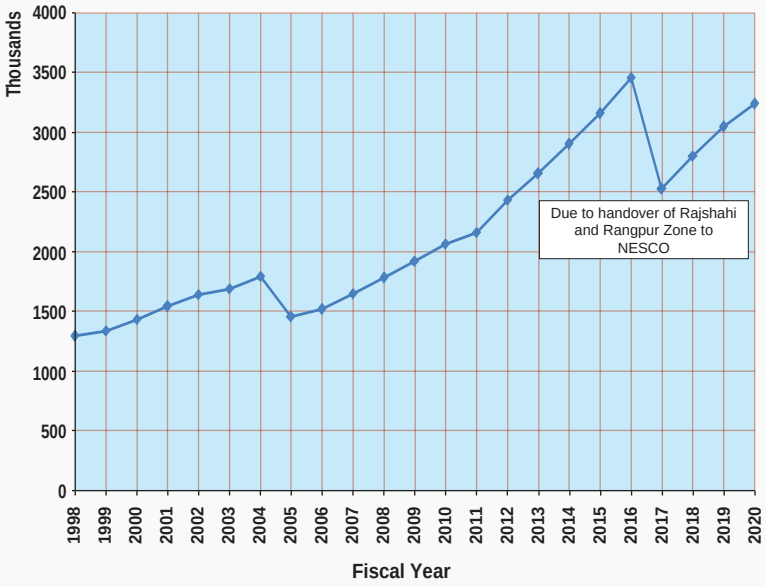
In Nos.

| Year | Domestic | Agriculture | Small Industrial | Small Commercial | Large Inds. & Comm. | REB | DPDC/ Others | DESCO | WZPDCL | NESCO | Others | Total | % Increase Over the Preceeding Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | E | F+H | I1 | G1+G2+ G3 | I2 | I3 | I4 | D+J | | |
| 1981-82 | 390,450 | 5,549 | 40,703 | 204,834 | 1,403 | 16 | - | - | - | - | 2,121 | 645,076 | - |
| 1982-83 | 418,532 | 6,603 | 34,595 | 205,629 | 1,531 | 22 | - | - | - | - | 2,287 | 669,199 | 3.74 |
| 1983-84 | 461,043 | 7,754 | 35,762 | 214,250 | 1,632 | 25 | - | - | - | - | 7,119 | 727,585 | 8.72 |
| 1984-85 | 518,532 | 8,637 | 39,730 | 226,670 | 1,657 | 33 | - | - | - | - | 8,508 | 803,767 | 10.47 |
| 1985-86 | 574,907 | 11,773 | 42,688 | 244,703 | 1,798 | 37 | - | - | - | - | 12,704 | 888,610 | 10.56 |
| 1986-87 | 632,814 | 10,885 | 45,666 | 257,510 | 1,931 | 48 | - | - | - | - | 14,238 | 963,092 | 8.38 |
| 1987-88 | 697,254 | 12,279 | 47,057 | 266,258 | 1,922 | 51 | - | - | - | - | 13,568 | 1,038,389 | 7.82 |
| 1988-89 | 784,951 | 14,104 | 48,659 | 285,629 | 2,027 | 59 | - | - | - | - | 16,253 | 1,151,682 | 10.91 |
| 1989-90 | 815,059 | 10,705 | 47,454 | 281,818 | 2,975 | 67 | - | - | - | - | 16,494 | 1,174,572 | 1.99 |
| 1990-91 | 853,959 | 12,828 | 48,479 | 287,498 | 3,251 | 77 | - | - | - | - | 17,872 | 1,223,964 | 4.21 |
| 1991-92 | 606,627 | 11,675 | 35,943 | 231,450 | 1,294 | 82 | 6 | - | - | - | 15,924 | 903,001 | -26.22 |
| 1992-93 | 649,173 | 16,670 | 36,969 | 230,096 | 1,375 | 93 | 6 | - | - | - | 18,227 | 952,609 | 5.49 |
| 1993-94 | 708,118 | 17,854 | 38,395 | 237,922 | 1,437 | 102 | 6 | - | - | - | 22,015 | 1,025,849 | 7.69 |
| 1994-95 | 750,273 | 17,974 | 39,702 | 245,234 | 1,486 | 118 | 6 | - | - | - | 20,941 | 1,075,734 | 4.86 |
| 1995-96 | 811,370 | 19,807 | 41,313 | 260,167 | 1,514 | 130 | 6 | - | - | - | 22,365 | 1,156,672 | 7.52 |
| 1996-97 | 858,354 | 17,878 | 42,248 | 267,197 | 1,595 | 143 | 6 | - | - | - | 22,711 | 1,210,132 | 4.62 |
| 1997-98 | 923,117 | 18,387 | 43,856 | 283,032 | 1,714 | 158 | 6 | - | - | - | 23,393 | 1,293,663 | 6.90 |
| 1998-99 | 963,319 | 17,142 | 43,742 | 287,636 | 1,748 | 178 | 6 | - | - | - | 23,099 | 1,336,870 | 3.34 |
| 1999-00 | 1,043,977 | 17,872 | 44,793 | 299,896 | 1,801 | 179 | 6 | - | - | - | 24,293 | 1,432,817 | 7.18 |
| 2000-01 | 1,134,074 | 18,293 | 45,816 | 316,629 | 1,890 | 182 | 6 | - | - | - | 25,760 | 1,542,650 | 7.67 |
| 2001-02 | 1,221,324 | 17,215 | 46,068 | 331,224 | 1,999 | 199 | 6 | - | - | - | 26,720 | 1,644,755 | 6.62 |
| 2002-03 | 1,270,727 | 15,084 | 44,432 | 331,997 | 2,038 | 212 | 6 | - | - | - | 25,955 | 1,690,451 | 2.78 |
| 2003-04 | 1,359,724 | 14,284 | 44,018 | 347,635 | 2,183 | 246 | 4 | 1 | - | - | 26,863 | 1,794,958 | 6.18 |
| 2004-05 | 1,114,679 | 12,484 | 34,472 | 273,957 | 1,867 | 266 | 4 | 1 | 1 | - | 21593 | 1,459,324 | -18.70 |
| 2005-06 | 1,165,265 | 14,911 | 34,574 | 280,079 | 2,010 | 275 | 4 | 1 | 1 | - | 21771 | 1,518,891 | 4.08 |
| 2006-07 | 1,272,144 | 17,693 | 35,561 | 297,213 | 2,163 | 184 | 5 | 1 | 1 | - | 23450 | 1,648,415 | 8.53 |
| 2007-08 | 1,385,424 | 21,191 | 37,065 | 312,041 | 2,299 | 185 | 5 | 1 | 1 | - | 25083 | 1,783,295 | 8.18 |
| 2008-09 | 1,495,195 | 25,175 | 39,114 | 333,818 | 2,534 | 185 | 5 | 1 | 1 | - | 26333 | 1,922,361 | 7.80 |
| 2009-10 | 1,621,596 | 28,724 | 40,903 | 345,605 | 2,689 | 185 | 6 | 1 | 1 | - | 27628 | 2,067,338 | 7.54 |
| 2010-11 | 1,704,936 | 30,523 | 41,607 | 351,673 | 2,846 | 185 | 7 | 1 | 1 | - | 27846 | 2,159,625 | 4.46 |
| 2011-12 | 1,947,827 | 36,506 | 43,241 | 372,245 | 3,184 | 70 | 7 | 1 | 1 | - | 28973 | 2,432,055 | 12.61 |
| 2012-13 | 2,146,940 | 39,810 | 44,809 | 386,947 | 3,464 | 70 | 9 | 1 | 1 | - | 31968 | 2,654,019 | 9.13 |
| 2013-14 | 2,378,278 | 45,042 | 45,792 | 396,776 | 3,780 | 71 | 9 | 1 | 1 | - | 31559 | 2,901,309 | 9.32 |
| 2014-15 | 2,606,764 | 49,937 | 47,215 | 416,197 | 4,125 | 71 | 10 | 1 | 1 | - | 32783 | 3,157,104 | 8.82 |
| 2015-16 | 2,868,941 | 54,952 | 48,764 | 444,140 | 4,471 | 82 | 12 | 1 | 1 | - | 35899 | 3,457,263 | 9.51 |
| 2016-17 | 2,111,564 | 32,951 | 31,396 | 321,931 | 3,513 | 84 | 13 | 1 | 1 | 1 | 25227 | 2,526,682 | -26.92 ☆ |
| 2017-18 | 2,360,627 | 34,807 | 38,041 | 336,526 | 3,848 | 85 | 14 | 1 | 1 | 1 | 28000 | 2,801,951 | 10.89 |
| 2018-18 | 2,573,705 | 35,727 | 39,129 | 361,479 | 4,214 | 84 | 14 | 1 | 1 | 1 | 31901 | 3,046,256 | 8.72 |
| 2019-20 | 2,749,620 | 36,922 | 42,022 | 369,081 | 4,508 | 80 | 16 | 1 | 1 | 1 | 34634 | 3,236,886 | 15.52 |

**A** = Residential Light & Fan
**B** = Agricultural pump
**C** = Small Industry
**D** = Non residential light & Fan
**E** = Commercial
**F** = Medium voltage general purpose
**G** = DPDC/Others
**H** = High voltage general purpose
**I** = REB/PBS
**J** = Street light and water pump

☆ Due to Handover of Rajshahi & Rangpur Zone to NESCO.

## Trend of Total Consumer




## Electrification of Thana Villages and Pumps

| Year | Upazila/ Thana (Nos.) | Village (Nos.) | Hat/Bazar (Nos.) | Deep, Shallow & Low Lift Pumps (Nos.) |
|---|---|---|---|---|
| 1971-72 | 111 | 250 | - | 551 |
| 1972-73 | 123 | 300 | - | 551 |
| 1973-74 | 133 | 326 | - | 594 |
| 1974-75 | 161 | 500 | - | 710 |
| 1975-76 | 237 | 1024 | - | 984 |
| 1976-77 | 295 | 1424 | 410 | 1280 |
| 1977-78 | 321 | 1518 | 448 | 1911 |
| 1978-79 | 335 | 1596 | 481 | 2317 |
| 1979-80 | 357 | 1675 | 506 | 4406 |
| 1980-81 | 377 | 1675 | 786 | 6155 |
| 1981-82 | 388 | 1956 | 903 | 7270 |
| 1982-83 | 403 | 2054 | 1050 | 8287 |
| 1983-84 | 417 | 2104 | 1078 | 8559 |
| 1984-85 | 422 | 2191 | 1096 | 8762 |
| 1985-86 | 432 | 2361 | 1181 | 9368 |
| 1986-87 | 437 | 2461 | 1231 | 9593 |
| 1987-88 | 437 | 2561 | 1275 | 9875 |
| 1988-89 | 438 | 2612 | 1326 | 10428 |
| 1989-90 | 438 | 2,657 | 1,371 | 11,031 |
| 1990-91 | 438 | 2,717 | 1,391 | 12,331 |
| 1991-92 | 438 | 2,767 | 1,411 | 14,033 |
| 1992-93 | 438 | 2,807 | 1,431 | 16,023 |
| 1993-94 | 438 | 2,837 | 1,446 | 16,943 |
| 1994-95 | 443 | 2,867 | 1,466 | 17,193 |
| 1995-96 | 443 | 2,927 | 1,513 | 18,622 |
| 1996-97 | 443 | 3,017 | 1,581 | 19,774 |
| 1997-98 | 443 | 3,061 | 1,613 | 19,969 |
| 1998-99 | 443 | 3,111 | 1,668 | 20,157 |
| 1999-00 | 443 | 3,201 | 1,718 | 20,307 |
| 2000-01 | 443 | 3,292 | 1,768 | 20,467 |
| 2001-02 | 443 | 3,356 | 1,858 | 20,687 |
| 2002-03 | 443 | 3,400 | 1,958 | 20,812 |
| 2003-04 | 443 | 3,432 | 2,040 | 20,928 |
| 2004-05 | 443 | 3,478 | 2,080 | 20,993 |
| 2005-06 | 443 | 3,495 | 2,113 | 21,020 |
| 2006-07 | 443 | 3,495 | 2,113 | 21,020 |
| 2007-08 | 443 | 3,495 | 2,113 | 21,020 |
| 2008-09 | 221 | 4,204 | 1,410 | 26,572 |
| 2009-10 * | 236 | 4,792 | 1,626 | 29,626 |
| 2010-11 * | 236 | 4,792 | 1,780 | 30,405 |
| 2011-12 * | 236 | 4,810 | 1,880 | 30,933 |
| 2012-13 * | 236 | 5,344 | 1,863 | 36,232 |
| 2013-14 * | 243 | 5,393 | 2,044 | 43,822 |
| 2014-15 * | 246 | 5,735 | 2,138 | 45,010 |
| 2015-16 * | 256 | 5,947 | 2,241 | 41,835 |
| 2016-17 ** | 173 | 3,778 | 1,389 | 28,018 |
| 2017-18** | 175 | 4,023 | 1,443 | 28,020 |
| 2018-19** | 195 | 4,646 | 1,666 | 35,332 |
| 2019-20** | 242 | 4,957 | 1,592 | 33,982 |

* Excluding DPDC, DESCO, WZPDCO & REB

** Excluding DPDC, DESCO, WZPDCO , NESCO & REB

# Total Electrified Areas & Consumer Numbers of BPDB

**(As of June 2020)**

| Sl. No. | Name of Divi./ESU | Total Electrified Area | | | | | Total Consumers |
|---|---|---|---|---|---|---|---|
| | | Thana/ Upazila | Ward | Village | Hat / Bazar | Deep, Shallow & Low Fit Pump | |
| | **Southern Zone, Chattogram** | | | | | | |
| | **O & M Circle, Chatta-Metro (East)** | | | | | | |
| 1 | S&D Patharghata | 3 | 6 | 0 | 8 | 0 | 54816 |
| 2 | S&D Stadium | 2 | 5 | 0 | 0 | 0 | 38592 |
| 3 | S&D Sholoshahar | 4 | 4 | 0 | 6 | 0 | 70100 |
| 4 | S&D Kalurghat | 4 | 6 | 0 | 4 | 0 | 68753 |
| 5 | S&D Bakalia | 5 | 5 | 0 | 10 | 0 | 84237 |
| 6 | S&D Madarbari | 2 | 4 | 0 | 5 | 0 | 35218 |
| | **O & M Circle, Chatta-Metro (West)** | | | | | | |
| 7 | S&D Agrabad | 3 | 7 | 0 | 9 | 0 | 52026 |
| 9 | S&D Khulshi | 3 | 8 | 0 | 0 | 0 | 49628 |
| 8 | S&D Halishahar | 2 | 3 | 0 | 4 | 0 | 47538 |
| 10 | S&D Pahartali | 4 | 6 | 0 | 6 | 0 | 81731 |
| 11 | S&D Rampur | 3 | 4 | 0 | 2 | 0 | 54969 |
| 12 | S&D Newmooring | 3 | 3 | 0 | 5 | 0 | 43976 |
| | **O & M Circle, Chatta-Metro (North)** | | | | | | |
| 13 | Distribution Division- Fouzderhat | 1 | 4 | 20 | 14 | 0 | 27725 |
| | Sandwip Electric Supply | 1 | 70 | 0 | 27 | 3 | 8739 |
| 14 | S&D Barabkunda | 1 | 37 | 90 | 32 | 2 | 32850 |
| 15 | S&D Hathazari | 1 | 26 | 40 | 17 | 24 | 47094 |
| 16 | S&D Mohora | 2 | 22 | 39 | 16 | 18 | 33182 |
| | **O & M Circle, Chatta-Metro (South)** | | | | | | |
| 17 | Distribution Division Patiya | 6 | 78 | 233 | 62 | 280 | 71498 |
| 18 | Distribution Division Cox's Bazar | 10 | 188 | 426 | 63 | 562 | 100179 |
| | **O & M Circle, Rangamati** | | | | | | |
| 19 | Distribution Division- Khagrachari | 12 | 227 | 859 | 144 | 202 | 68838 |
| 20 | Distribution Division- Rangamati | 8 | 99 | 246 | 26 | 30 | 51896 |
| 21 | Distribution Division- Bandarban | 4 | 110 | 285 | 39 | 38 | 15584 |
| | **Sub Total** | **82** | **922** | **2238** | **499** | **1159** | **1139169** |
| | **Cumilla Zone** | | | | | | |
| | **O & M Circle, Cumilla** | | | | | | |
| 1 | S&D-1, Cumilla | 3 | 20 | 97 | 22 | 73 | 66055 |
| 2 | Burichang E/S | 2 | 3 | 64 | 9 | 97 | 12092 |
| 3 | S&D-2 Cumilla | 2 | 7 | 120 | 30 | 26 | 53910 |
| 4 | Chauddagram E/S | 1 | 9 | 71 | 5 | 249 | 14055 |
| 5 | S & D-3. Cumilla | 2 | 10 | 72 | 6 | 143 | 40434 |
| 6 | S & D, Daulatganj | 1 | 5 | 27 | 5 | 669 | 30027 |
| 7 | S & D Chandpur | 1 | 15 | 25 | 11 | 11 | 61756 |
| 8 | S & D, B-Baria-1 | 3 | 6 | 77 | 16 | 679 | 50983 |
| 9 | S & D, B-Baria-2 | 2 | 4 | 21 | 6 | 395 | 35031 |
| 10 | S & D, Ashuganj | 1 | 3 | 11 | 5 | 136 | 24409 |
| 11 | S & D, Sarail | 1 | 3 | 17 | 6 | 565 | 36974 |
| | **O & M Circle, Noakhali** | | | | | | |
| 12 | Distribution Division- Noakhali | 3 | 14 | 37 | 24 | 61 | 60434 |
| 13 | S & D, Chowmuhani | 1 | 12 | 19 | 8 | 1 | 34168 |
| 14 | S&D-Feni | 2 | 18 | 20 | 3 | 28 | 66806 |
| 15 | Bashurhat E/S | 1 | 3 | 4 | 2 | 152 | 20140 |
| 16 | S&D-Laxmipur | 1 | 12 | 12 | 1 | 104 | 33568 |
| 17 | Hatiya E/S | 1 | 6 | 20 | 15 | 0 | 2787 |
| | **Sub Total** | **28** | **150** | **714** | **174** | **3389** | **643629** |

| Sl. No. | Name of Divi./ESU | Total Electrified Area | | | | | Total Consumers |
|---|---|---|---|---|---|---|---|
| | | Thana/ Upazila | Ward | Village | Hat / Bazar | Deep, Shallow & Low Fit Pump | |
| | **Central Zone, Mymenshing** | | | | | | |
| | **O & M Circle, Mymensingh** | | | | | | |
| 1 | S & D -1 (N) | 2 | 47 | 96 | 53 | 687 | 113729 |
| 2 | S & D -2 (S) | 3 | 75 | 99 | 34 | 1311 | 72751 |
| 3 | S & D -3 | 5 | 62 | 110 | 83 | 4294 | 30232 |
| 4 | S & D Fulpur | 3 | 30 | 55 | 82 | 1759 | 45972 |
| 5 | S & D Trisal | 1 | 32 | 80 | 28 | 869 | 41128 |
| 6 | S & D Goffargoan | 2 | 144 | 219 | 44 | 1450 | 55208 |
| 7 | S & D Netrokona | 2 | 9 | 20 | 8 | 1815 | 41808 |
| 8 | S & D Kishorgonj | 1 | 25 | 60 | 15 | 387 | 54778 |
| 9 | S & D Bajitpur | 71 | 15 | 75 | 26 | 399 | 20435 |
| 10 | S & D Bhairab | 2 | 56 | 156 | 51 | 1256 | 67174 |
| 11 | S & D Sherpur | 5 | 30 | 110 | 82 | 3879 | 82054 |
| 12 | S & D Valuka | 1 | 23 | 72 | 31 | 1069 | 27158 |
| | **O & M Circle, Tangail** | | | | | | |
| 13 | S & D, Jamalpur | 4 | 23 | 55 | 21 | 2046 | 59994 |
| 14 | S & D, Sharishabari | 2 | 12 | 39 | 7 | 2524 | 22391 |
| 15 | S & D, Ghatail | 2 | 28 | 39 | 38 | 890 | 36838 |
| 16 | S & D, Shakhipur | 8 | 29 | 75 | 55 | 711 | 64326 |
| 17 | S & D, Bhuapur | 4 | 73 | 142 | 41 | 1383 | 39655 |
| 18 | S & D, Kalithati | 2 | 20 | 33 | 33 | 1486 | 36201 |
| 19 | S & D-1, Tangail | 2 | 15 | 60 | 14 | 205 | 38456 |
| 20 | S & D-2, Tangail | 3 | 120 | 165 | 80 | 2395 | 43292 |
| 21 | S & D-3, Tangail | 2 | 13 | 59 | 13 | 1755 | 28100 |
| | **Sub Total** | **127** | **881** | **1819** | **839** | **32570** | **1021680** |
| | **Sylhet Zone** | | | | | | |
| | **O & M Circle, Sylhet** | | | | | | |
| 1 | Sales & Distributio Division-1 | 1 | 15 | 21 | 21 | 1 | 64247 |
| 2 | Sales & Distributio Division-2 | 2 | 14 | 10 | 9 | 0 | 57094 |
| 3 | Sales & Distributio Division-3 | 3 | 3 | 35 | 6 | 14 | 36618 |
| 4 | Sales & Distributio Division-4 | 1 | 9 | 198 | 20 | 17 | 39327 |
| 5 | Sales & Distributio Division-5 | 2 | 33 | 103 | 24 | 15 | 28092 |
| 6 | S & D-Chatak | 1 | 4 | 30 | 10 | 2 | 32890 |
| 7 | S & D-Sunamgonj | 3 | 38 | 70 | 16 | 14 | 26971 |
| 8 | Jogonnathpur E/S | 4 | 10 | 125 | 58 | 93 | 19140 |
| 9 | Jaintapur E/S | 3 | 31 | 114 | 34 | 19 | 17482 |
| 10 | Derai E/S | 3 | 15 | 47 | 10 | 15 | 13562 |
| | **O & M Circle, Moulavibazar** | | | | | | |
| 11 | Dist. Div. Moulavibazar | 1 | 9 | 12 | 3 | 6 | 25865 |
| 12 | S & D-Hobigonj | 3 | 9 | 30 | 8 | 57 | 32263 |
| 13 | S & D-Kulaura | 3 | 9 | 85 | 20 | 0 | 37008 |
| | **Sub Total** | **30** | **199** | **880** | **239** | **253** | **430559** |
| | **Total** | **242** | **2008** | **4957** | **1592** | **33982** | **3235037** |

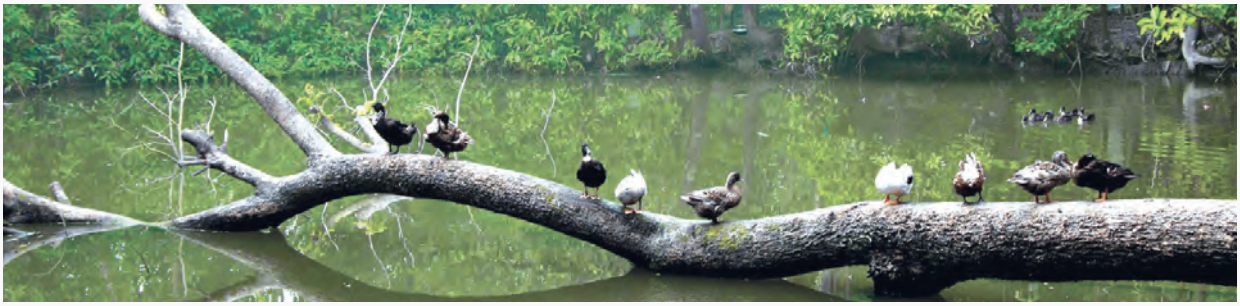
# Synopsis of Distribution lines of BPDB

**(As of June 2020)**

| Name of the Divn. /ESU | Name of Sub-station | 33 KV Feeder Length (km) | 11 KV Feeder Length (km) | 0.4 KV Feeder Length (km) |
|---|---|---|---|---|
| **Southern Zone, Chattogram** | | | | |
| **O & M Circle, Chatta-Metro (East)** | | | | |
| S & D Pathargahta | Patharghat 33/11 KV | 19 | 53 | 66 |
| S & D Stadium | Stadium 33/11 KV | 29 | 83 | 99 |
| S & D Sholoshahar | Sholoshahar 33/11 KV | 60 | 102 | 145 |
| S & D Kalurghat | 33/11 KV Kalurghat | 23 | 51 | 76 |
| | 33/11 KV Muradpur | 18 | 27 | 48 |
| S & D Bakulia | Bakalia | 0 | 120 | 214 |
| S & D Madarbari | Madarbari | 13 | 61 | 121 |
| **O & M Circle, Chatta-Metro (West)** | | | | |
| S & D Agrabad | Agrabad 33/11 kV | 26 | 128 | 174 |
| S & D Khulshi | Khushi 33/11 kV | 9 | 30 | 21 |
| | Jalalabad 33/11 kV | 8 | 40 | 36 |
| S & D Halisahar | Halishahar 33/11 kV | 35 | 63 | 75 |
| | Patenga 33/11 kV | 10 | 52 | 75 |
| S & D Pahartoly | Pahartoly | 16 | 160 | 209 |
| S & D Rampur | Rampur | 28 | 65 | 103 |
| S & D Newmoring | Newmooring 33/11 kV | 19 | 101 | 142 |
| **O & M Circle, Chatta-Metro (North)** | | | | |
| S & D Fouzdarhat | Fouzderhat | 8 | 65 | 107 |
| | Baraulia | 47 | 98 | 152 |
| Sandwip Electric Supply | Enamnahar 33/11 Kv Substation | 45 | 58 | 97 |
| S&D Barabkund | Barabkunda | 43 | 107 | 158 |
| S&D Hathazari | Hathazari | 2 | 160 | 230 |
| | Foteyabad | 4 | | |
| S&D Mohora | 33/11KV Mohra Substation | 18 | 195 | 233 |
| **O & M Circle, Chatta-Metro (South)** | | | | |
| Distribution Division Potiya | Sikalbaha | 78 | 41 | 52 |
| | Julda | 23 | 18 | 28 |
| | Shamirpur | 19 | 0 | 0 |
| | Dohazari | 42 | 58 | 85 |
| | Satkania | 10 | 40 | 83 |
| Distribution Division Cox's Bazar | Zilonza | 92 | 159 | 189 |
| | Kolatoli | 10 | 93 | 45 |
| | chakaria | 65 | 57 | 111 |
| | Aziznagar | 0 | 60 | 35 |
| | Lama | 28 | 130 | 183 |
| | Kutubdia | 0 | 7 | 12 |
| **O & M Circle, Rangamati** | | | | |
| Distribution Division- Khagrachari | Manikchari 33/11 KV | 35 | 71 | 80 |
| | Jaliapara (Matiranga) 33/11 KV | 45 | 65 | 110 |
| | Ramgarh 33/11 KV | 70 | 50 | 71 |
| | Khagrachari 33/11 KV | 126 | 80 | 212 |
| | Panchari 33/11 KV | 35 | 65 | 90 |
| | Dighinala 33/11 KV | 35 | 156 | 220 |
| | Mohalchari 33/11 KV | 62 | 95 | 110 |
| Distribution Division- Rangamati | Vedvedi 33/11 KV | 170 | 67 | 150 |
| | Majerbosti 33/11 KV | 6 | 87 | 149 |
| | Kawkhali 33/11 KV | 14 | 22 | 30 |
| | Ghagra 33/11 KV | 0 | 93 | 110 |
| | Kaptai Academy 33/11 KV | 16 | 55 | 65 |
| | Kaptai 132/33/11 KV | 0 | 55 | 40 |
| | Bangalhalia 33/11 KV | 17 | 36 | 30 |
| | Marishya 33/11 KV | 28 | 35 | 55 |

| Name of the Divn./ESU | Name of Sub-station | 33 KV Feeder Length (km) | 11 KV Feeder Length (km) | 0.4 KV Feeder Length (km) |
|---|---|---|---|---|
| Distribution Division- Bandarban | Office | 58 | 147 | 177 |
| | Kachinghata | 6 | 215 | 263 |
| | Y-Junction | 18 | 67 | 33 |
| | Thanchi | 50 | 30 | 10 |
| **Sub Total** | | **1638** | **3972** | **5409** |
| **Cumilla Zone** | | | | |
| **O & M Circle, Cumilla** | | | | |
| S & D-1, Cumilla | Horindora | 12 | 0 | 0 |
| | Kotbari | 19 | 43 | 96 |
| | Kaliajuri | 23 | 135 | 248 |
| Burichang E/S | Palpara | 8 | 46 | 112 |
| S & D-2, Cumilla | Balutupa | 37 | 110 | 234 |
| Chouddagram E/S | Chouddagram | 38 | 34 | 55 |
| S & D-3, Cumilla | Jangalia | 25 | 38 | 137 |
| S & D, Daulatganj | Daulatgonj | 35 | 39 | 153 |
| S & D, Chandpur | Balur Math | 2 | 33 | 105 |
| | Puran Bazar | 0 | 30 | 85 |
| S & D, B. Baria-1 | Datiara | 0 | 94 | 128 |
| S & D, B. Baria-2 | Ghatura | 25 | 101 | 70 |
| S & D, Ashuganj | Kalabagan | 0 | 32 | 33 |
| S & D, Sarail | Shahbazpur | 10 | 48 | 101 |
| | Kuttapara | 12 | 20 | |
| **O & M Circle, Noakhali** | | | | |
| Maijidee E/S | Maijdee | 10 | 19 | 37 |
| | Datterhat | 20 | 76 | 166 |
| Chowmuhani E/S | Chamuhani | 0 | 83 | 190 |
| Hatya E/S | Hatya | 0 | 60 | 30 |
| S & D, Laxmipur | Laxmipur | 35 | 62 | 330 |
| S&D.Feni | Mohipal | 65 | 37 | 205 |
| | Sultanpur | 15 | 42 | |
| Bosurhat E/S | Dagonbuyan | 13 | 15 | 50 |
| | Bashurhat | 12 | 20 | 30 |
| **Sub Total** | | **416** | **1217** | **2595** |
| **Central Zone, Mymensingh** | | | | |
| **O & M Circle, Mymensingh** | | | | |
| S & D- 1 (North) | Akua | 27 | 112 | 150 |
| | Batircal | 6 | 40 | 52 |
| S & D- 3 | Shambugonj | 14 | 62 | 118 |
| | Gauripur | 26 | 73 | 150 |
| | Issorgonj | 30 | 68 | 80 |
| S & D Fulpur | Fulpur | 35 | 98 | 193 |
| | Haluaghat | 40 | 115 | 128 |
| S & D- 2 (South) | Kewatkhali | 0 | 248 | 179 |
| | Digarkanda (bypass) | 5 | 98 | 153 |
| S & D Trisal | Trisal | 38 | 144 | 127 |
| S & D Goffargoan | Balipara | 18 | 30 | 42 |
| | Maijbari | 12 | 72 | 89 |
| | Goffargoan | 45 | 93 | 156 |
| S & D Netrokona | Satpai Netrokona | 12 | 84 | 159 |
| S & D Bhairab | Bhairab | 28 | 70 | 115 |
| | Kuliarchor | 20 | 40 | 70 |
| S & D Sherpur | Sherpur | 56 | 123 | 218 |
| | Nakla | 12 | 50 | 92 |
| | Nalitabari | 10 | 48 | 87 |
| | Jinaighat | 27 | 52 | 108 |
| | Sribordi | 27 | 17 | 101 |
| Dist. Divn. Kishorgonj | Josodal | 0 | 115 | 112 |
| | Mollapara | 11 | 55 | 55 |
| S & D Bajitpur | Sararchar | 55 | 130 | 152 |
| S & D Bhaluka | Bhaluka | 45 | 88 | 152 |

| Name of the Divn. /ESU | Name of Sub-station | 33 KV Feeder Length (km) | 11 KV Feeder Length (km) | 0.4 KV Feeder Length (km) |
|---|---|---|---|---|
| **O & M Circle, Tangail** | | | | |
| Jamalpur E/S | Shekher Vita | 23 | 130 | 140 |
| | Shahpur | 5 | 58 | 115 |
| | Bojrapur | 0 | 48 | 60 |
| | Jamuna | 40 | 0 | 0 |
| | Muktagacha | 40 | 0 | 0 |
| | Beltia | 12 | 0 | 0 |
| Sharishabari E/S | Sharishabari | 26 | 112 | 100 |
| Ghatail E/S | Ghatail | 45 | 142 | 370 |
| S & D Shakipur | Kutubpur | 18 | 70 | 70 |
| | Nalua | 34 | 55 | 95 |
| | Shakipur | 40 | 282 | 490 |
| S & D Bhuapur | Bhuapur | 30 | 192 | 372 |
| S & D Kalihati | Kalihati | 22 | 103 | 422 |
| S & D-1 Tangail | Betka | 41 | 156 | 337 |
| S & D-2 Tangail | Kachuadanga | 14 | 238 | 583 |
| S & D-3 Tangail | Elenga | 11 | 103 | 171 |
| **Sub Total** | | **1000** | **3814** | **6363** |
| **Central Zone, Sylhet** | | | | |
| **O & M Circle, Sylhet** | | | | |
| Sales & Distribution Division-1 | Ambarkhana | 7 | 180 | 358 |
| | Shekhghat | 5 | 70 | 140 |
| Sales & Distribution Division-2 | Upshahar | 23 | 139 | 242 |
| | MC College | 8 | 56 | 158 |
| | Ring Feeder | 6 | - | - |
| Sales & Distribution Division-3 | Boroikandi | 11 | 90 | 225 |
| | Gotatikor | | 48 | |
| Sales & Distribution Division-4 | Kumargaon | - | 225 | 470 |
| | Shahjalal | 1 | 60 | 125 |
| Sales & Distribution Division-5 | Botessor | 35 | 95 | 200 |
| S & D-Chatak | Chatak | 87 | 135 | 222 |
| | Jawa Bazar (Raoli) | - | 55 | 108 |
| S & D-Sunamgonj | Sunamganj | 65 | 83 | 172 |
| Jogonnathpur E/S | Jagannanthpur | 47 | 128 | 270 |
| Jaintapur E/S | Jaintapur | 30 | 90 | 270 |
| Derai E/S | Derai | 33 | 92 | 165 |
| **O & M Circle, Moulovibazar** | | | | |
| Dist. Div. Moulvibazar | Bajbari | 34 | 31 | 45 |
| | Shamostafa | 58 | 50 | 80 |
| S & D Hobiganj | Hobiganj (Old) | 34 | 85 | 475 |
| | second source | 25 | 0 | 0 |
| S & D Kulaura | Juri | 20 | 80 | 200 |
| | 33 KV consumer | 68 | - | - |
| | kukaura (new) | 0 | 178 | 670 |
| | Kulaura (old) | 56 | - | - |
| **Sub Total** | | **653** | **1970** | **4595** |
| **Total** | | **3706** | **10973** | **18962** |



# 33/11 KV Sub-stations of BPDB

**(As of June 2020)**

| Sl. No. | Name of the Division | Name of the 33/11KV Sub-station | Capacity (MVA) | Maximum Demand (MW) |
|---|---|---|---|---|
| | **Southern Zone, Chattogram** | | | |
| | **O & M Circle, Chatta-Metro (East)** | | | |
| 1 | S & D Patharghata | Patharghata 33/11 KV | 3×16/20 | 34.00 |
| 2 | S & D Stadium | Stadium | 2X16/20<br>1X20/26 | 40.00 |
| 3 | S & D Sholoshahar | Sholoshahar | 2x16<br>1x20/26 | 38.00 |
| 4 | S & D Kalurghat | Kalurghat | 1 x 16<br>2 x 16/20 | 36.00 |
| | | Muradpur | 3x 16/20 | 35.00 |
| 5 | S & D Bakalia | Bakalia | 3x16/20 | 36.00 |
| 6 | S & D Madarbari | Madarbari | 2x16/20 | 25.00 |
| | **O & M Circle, Chatta-Metro (West)** | | | |
| 7 | S & D Agrabad | Agrabad | 2x16/20<br>1x20/26 | 42.00 |
| 8 | S & D Khulshi | Jalalabad | 3x20/26<br>1x16/20 | 52.00 |
| | | Khulshi | 2x16/20<br>2X16/20 | 38.00 |
| 9 | S & D Halishor | Haliasahar | 2X16/20 | 24.00 |
| | | Potenga | 2X16/20 | 14.00 |
| 10 | S & D Pahartali | Pahartali | 1X20/26.66<br>2X16/20 | 39.00 |
| 11 | S & D Rampur | Rampur | 2X20/26<br>2X16/20 | 35.00 |
| 12 | S & D Newmooring | Newmooring | 3X16/20 | 38.00 |
| | **O & M Circle, Chatta-Metro (North)** | | | |
| 13 | S & D Fouzderhat | Fouzderhat 33/11 Kv Substation | 2x16/20 | 21.00 |
| | | Baro-aulia 33/11 Kv Substation | 1x16/20<br>1x20/26 | 14.00 |
| 14 | Sandeep Electric Supply | Enamnahar | 2x6.67 | 4.00 |
| 15 | S & D, Barabkunda | Barabkunda | 2×16/20 | 24.00 |
| 16 | S & D, Hathazari | Hathazari | 1×16/20<br>1×10/13.3 | 12.00 |
| | | Foteyabad | 2×10/13.3 | 13.00 |
| 17 | S & D, Mohara | Mohora | 2x16/20 | 25.00 |
| | | Rangunia sub-station | 1x5 | 3.00 |
| | | Anana | 2x20/26 | - |
| | **O & M Circle, Chatta-Metro (South)** | | | |
| 18 | Distribution Division patiya | Patiya | 2x10<br>1x10/13.33 | 10.00 |
| | | Fishharbor | 2x10 | 15.00 |
| | | Julda | 2x16/20 | 8.00 |
| | | Shikalbaha | 1x16/20<br>1x10/13.33 | 10.00 |
| | | Dohazari | 1x16/20 | 9.00 |
| | | Satkania | 2x5/6.67 | 8.00 |
| 19 | Distribution Division Cox's Bazar | Zilongza | 2x16/20 | 23.00 |
| | | Kolatoli | 2x10/13.33 | 15.00 |
| | | Chakaria | 1x10<br>1x10/13.33 | 9.50 |
| | | Aziznagar | 1x5/6.67 | 3.00 |
| | | Lama | 1x5/6.67 | 2.50 |

| Sl. No. | Name of the Division | Name of the 33/11KV Sub-station | Capacity (MVA) | Maximum Demand (MW) |
|---|---|---|---|---|
| | **O & M Circle, Rangamati** | | | |
| 20 | Distribution Division- Khagrachari | Khagrachari 33/11 KV | 2x5.00 | 7.00 |
| | | Takurchara | 1x10/13.33 | 2.00 |
| | | Panchari | 1x5.00 | 3.00 |
| | | Ramgarh | 3x1.667 | 3.50 |
| | | Jaliapara | 3x1.667 | 3.00 |
| | | Diginala | 2x5 | 8.00 |
| | | Manikchari | 1×5.00 | 2.50 |
| | | Mohalchari | 1×5.00 | 3.50 |
| 21 | Distribution Division- Rangamati | Vedvedi 33/11 KV | 2 x 5 | 7.50 |
| | | Majerbosti 33/11 KV | 1 x 10/13.33 | 6.50 |
| | | Kawkhali 33/11 KV | 1 x 5 | 1.50 |
| | | Ghagra 33/11 KV | 1 x 5 | 2.50 |
| | | Kaptai Academy 33/11 KV | 2 x 3 | 1.30 |
| | | Kaptai 132/33/11 KV | 1 x 20 | 8.00 |
| | | Bangalhalia 33/11 KV | 1 x 5 | 2.00 |
| | | Marishya 33/11 KV | 1 x 5 | 2.00 |
| | | Sukurchori Gridside | 1 x 10/13.33 | - |
| 22 | Distribution Division- Bandarban | Office | 2x5.00 | 6.25 |
| | | Kachingata | 3x1.667 | 3.50 |
| | | Y-Junction | 1x5.00 | 1.50 |
| | | Thanchi | 3x1.667 | 1.00 |
| **Sub Total** | | **56** | **1364/1670** | **831** |
| | **Cumilla Zone** | | | |
| | **O & M Circle, Cumilla** | | | |
| 23 | S & D-1, Cumilla | Kotbari | 3x10/13.33<br>1x20/26 | 25.00 |
| | | Kaliajori | 2x10/13.33<br>1x16/20 | 26.00 |
| 24 | Burichang E/S | Palpara | 2x5 | 5.00 |
| 25 | S & D-2, Cumilla | Balutupa | 3x10/13.33<br>1x16/20 | 22.50 |
| 26 | Chouddagram E/S | Chouddagram | 2x5<br>1x3 | 8.50 |
| 27 | S & D-3, Cumilla | Jangalia | 2x10/13.33<br>2x16/20 | 24.00 |
| 28 | S & D Daulatgonj | Daulatgonj | 1x10/13.33<br>1x16/20<br>1x5 | 11.00 |
| 29 | S & D, Chandpur | Balur Math | 2x10/13.33<br>1x16/20 | 20.00 |
| | | Puran Bazar | 1x5<br>1x10/13.33 | 10.00 |
| 30 | S & D, B Baria-1 | Datiara | 1x10/13.33<br>2x16/20 | 26.00 |
| 31 | S & D, B Baria-2 | Ghatura | 3x10/13.33 | 20.00 |
| 32 | S & D Ashugonj | Kalabagan | 2x10/13.33<br>1x16/20 | 25.00 |
| 33 | S & D Sarail | Shabazpur | 2x5 | 6.00 |
| | | Kuttapara | 2x10/13.33 | 8.00 |
| | **O & M Circle, Noakhali** | | | |
| 34 | S & D Feni | Mohipal | 4x10/13.33 | 24.00 |
| | | Sultanpur | 2x10/13.33 | 12.00 |
| 35 | Boshurhat E/S | Dagonbuyan | 2x10/13.33 | 12.00 |
| | | Boshurhat | 1x10/13.33 | 5.00 |

| Sl. No. | Name of the Division | Name of the 33/11KV Sub-station | Capacity (MVA) | Maximum Demand (MW) |
|---|---|---|---|---|
| 36 | S & D-Maijdee | Maijdee | 2x10/13.33, | 21.00 |
| | | | 1x16/20 | |
| | | Datterhat | 2x10/13.33 | 8.00 |
| 37 | S & D Chowmuhani | Chowmuhani | 3x10/13.33 | 20.00 |
| | | | 1x16/20 | |
| 38 | S & D, Laxmipur | Laxmipur | 2x10/13.33 | 11.00 |
| **Sub Total** | | **22** | **639/822** | **350** |
| | **Central Zone, Mymensingh** | | | |
| | **O & M Circle, Mymenshingh** | | | |
| 39 | S & D -1 (North) | Akua | 2x10/13.33 | 25.00 |
| | | | 1x20/26 | |
| | | Batircal | 2x10/13.33 | 18.00 |
| 40 | S & D -Fulpur | Fulpur | 2X10/13.33 | 17.00 |
| | | Haluaghat | 2X5/6.67 | 7.00 |
| 41 | S & D -3 | Shambuganj | 2X10/13.33 | 16.00 |
| | | Gauripur | 2X10/13.33 | 8.00 |
| | | Isshorgonj | 2X5/6.67 | 7.00 |
| 42 | S & D -2 (South) | Kewatkhali | 4x10/13.33 | 30.00 |
| | | Digarkanda (Bypass) | 2x10/13.33 | 16.00 |
| 43 | S & D Trisal | Trisal | 3x10/13.33 | 15.50 |
| 44 | S & D Bhaluka | Bhaluka | 3x10/13.33 | 17.00 |
| 45 | S & D Goffargoan | Maijbari | 2x5/6.66 | 7.00 |
| | | Goffargoan | 2x10/13.33 | 12.00 |
| | | Balipara | 1x5/6.66 | 2.00 |
| 46 | S&D Netrokona | Satpai Netrokona | 3x10/13.33 | 22.00 |
| 47 | S&D Bhairab | Bhairab | 4x10/13.33 | 27.00 |
| | | Kuliachor | 2x5/6.66 | 5.00 |
| 48 | S&D Sherpur | Sherpur | 1x16/20 | 25.00 |
| | | | 2x10/13.33 | |
| | | Nalitabari | 3X5/6.67 | 7.00 |
| | | Nakla | 2X5/6.67 | 5.00 |
| | | Jinaigati | 2 X 5/6.67 | 6.00 |
| | | Sribordi | 2 X 5/6.67 | 6.00 |
| 49 | Dist. Divn. Kishoregonj | Josodal | 3x10/13.33 | 13.00 |
| | | Mollapara | 2x10/13.33 | 14.00 |
| 50 | S&D Bajitpur | Sararchar | 2x10/13.33 | 14.00 |
| | **O & M Circle,Tangail** | | | |
| 51 | S & D-1 Tangail | Betka | 3x10/13.33 | 18.00 |
| | | Boilla | 2x10/13.33 | 7.00 |
| 52 | S & D-2 Tangail | Kachuadanga | 3x10/13.33 | 26.00 |
| 53 | S & D-3 Tangail | Elenga | 2x10/13.33 | 11.00 |
| 54 | S & D Bhuapur | Bhuapur | 1x10/13.33 | 18.00 |
| | | | 2x10/13.33 | |
| 55 | S & D Ghatail | Ghatail | 1x20/26.66 | 26.00 |
| | | | 2x10/13.33 | |
| 56 | S & D Khalihati | Kalihati | 10/13.33 | 17.50 |
| | | | 2x10/13.33 | |
| 57 | S & D Shakipur | Shakipur | 3x10/13.33 | 24.00 |
| | | Kutubput | 2x5/6.67 | 8.00 |
| | | Nalua | 2x5/6.67 | 8.00 |
| 58 | S & D Jamalpur | Bojrapur | 2x10/13.33 | 7.00 |
| | | Shapur | 2x10/13.33 | 8.00 |
| | | Shekhervita | 2x10/13.33 | 17.00 |
| 59 | S & D Sharishabari | Sharishabari | 2x10/13.33 | 10.00 |
| **Sub Total** | | **39** | **846/1126** | **547** |

| Sl. No. | Name of the Division | Name of the 33/11KV Sub-station | Capacity (MVA) | Maximum Demand (MW) |
|---|---|---|---|---|
| | **Sylhet Zone** | | | |
| | **O & M Circle, Sylhet** | | | |
| 60 | Sales & Distribution Division-1 | Ambarkhana | 2x10/13.33<br>2x 20/26.66 | 30.00 |
| | | Shekhghat | 2x10/13.33 | 15.00 |
| 61 | Sales & Distribution Division-2 | Upashahar | 4x10/13.33 | 26.00 |
| | | MC Collage | 2x10/13.33 | 11.00 |
| 62 | Sales & Distribution Division-3 | Boroikandi | 3x10/13.33 | 25.00 |
| | | Gotatikor | 2x10/13.33 | |
| 63 | Sales & Distribution Division-4 | Grid 33 KV | 2x10/13.33 | 19.00 |
| | | Shahjalal | 2x10/13.33 | |
| 64 | Sales & Distribution Division-5 | Botessore | 2x10/13.33<br>1x20/26 | 30.00 |
| 65 | S & D Sunamgonj | Sunamgonj | 2x10/13.33 | 10.00 |
| 66 | S & D Chatak | Jawa Bazar | 2x5/6.67 | 4.50 |
| | | Chattak | 2x10/13.33 | 14.00 |
| 67 | Jagannathpur E/S, Sunamganj | Jagannanthpur | 3x5/6.67 | 10.00 |
| 68 | Jaintapur Electric Supply Unit, PDB, Sylhet | Jaintapur | 2x5/6.67 | 8.00 |
| 69 | Derai E/S, Sunamganj | Derai | 2x5 | 8.00 |
| | **O & M Circle, Moulovibazar** | | | |
| 70 | Dist. Divn. Moulovibazar | Bajbari | 2x10/13.33 | 9.50 |
| | | Shamostafa Road (Moulovibazar-2) | 2x10/13.33 | 8.00 |
| 71 | S & D Hobiganj | Hobiganj | 3x10/13.33 | 16.00 |
| 72 | S & D, Kulaura | Juri | 2x5/6.67 | 6.00 |
| | | Kulaura | 2x10/13.33 | 15.00 |
| **Sub Total** | | **20** | **455/603** | **265** |
| **Total** | | **137** | **3304/4221** | **1993** |

Opening ceremony of training programme for creating skilled man power in electricity trade in observance of 'Mujib Barsha' in presence of Dr. Tawfiq-e-Elahi Chowdhury BB, Hon'ble Adviser to the Prime Minister and Mr. Nasrul Hamid MP, Hon'ble State Minister for Power, Energy & Mineral Resources.

# 11/0.4 KV Distribution Substations of BPDB

**(As of June 2020)**

| Name of ESU / Division | Distribution Transformer 11/0.4 KV | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1000 KVA (Nos.) | 500 KVA (Nos.) | 315 KVA (Nos.) | 300 KVA (Nos.) | 250 KVA (Nos.) | 200 KVA (Nos.) | 100 KVA (Nos.) | 50 KVA (Nos.) | Others KVA (Nos.) | Total Capacity (MVA) |
| **Central Zone, Mymensingh** | | | | | | | | | | |
| **O & M Circle, Mymensingh** | | | | | | | | | | |
| S&D-1(N), PDB, Mymensingh | 0 | 0 | 0 | 0 | 138 | 130 | 90 | 3 | 5 | 69.7 |
| S&D-2(S), PDB, Mymensingh | 0 | 0 | 1 | 2 | 152 | 145 | 110 | 7 | 10 | 79.365 |
| S&D-3, PDB, Mymensingh | 0 | 0 | 1 | 0 | 370 | 220 | 256 | 17 | 19 | 163.455 |
| S&D, Trisal | 0 | 0 | 0 | 0 | 69 | 171 | 135 | 1 | 13 | 65.13 |
| S&D, Fulpur | 0 | 0 | 0 | 2 | 114 | 155 | 148 | 3 | 0 | 75.05 |
| S&D, Gofargaon | 0 | 0 | 0 | 0 | 95 | 193 | 215 | 4 | 4 | 84.09 |
| S&D, Netrokona | 0 | 1 | 0 | 0 | 51 | 107 | 30 | 0 | 0 | 37.65 |
| Dist. Div Kishorganj | 0 | 0 | 0 | 2 | 83 | 109 | 118 | 3 | 0 | 55.1 |
| S&D, Bajitpur | 0 | 0 | 0 | 0 | 43 | 93 | 96 | 2 | 4 | 39.09 |
| S&D, Bhairab | 0 | 0 | 0 | 0 | 85 | 150 | 238 | 2 | 0 | 75.15 |
| S&D, Sherpur | 9 | 14 | 14 | 0 | 190 | 225 | 226 | 4 | 10 | 135.81 |
| S&D, Valuka | 0 | 0 | 0 | 0 | 71 | 91 | 109 | 12 | 12 | 47.57 |
| **O & M Circle, Tangail** | | | | | | | | | | |
| S & D, Jamalpur | 0 | 0 | 0 | 0 | 98 | 145 | 105 | 2 | 0 | 64.1 |
| S&D Sharishabari | 0 | 0 | 0 | 0 | 62 | 45 | 40 | 0 | 5 | 28.55 |
| S & D Ghatail | 0 | 0 | 0 | 0 | 105 | 109 | 110 | 2 | 0 | 59.15 |
| S & D Shakhipur | 0 | 0 | 0 | 0 | 136 | 246 | 263 | 14 | 50 | 110.7 |
| S & D Bhuapur | 0 | 1 | 0 | 0 | 60 | 118 | 103 | 2 | 17 | 49.67 |
| S & D Khalihati | 0 | 0 | 0 | 0 | 67 | 152 | 219 | 0 | 3 | 69.08 |
| S & D-1 Tangail | 0 | 1 | 0 | 0 | 76 | 77 | 45 | 1 | 11 | 39.56 |
| S & D-2 Tangail | 0 | 0 | 0 | 0 | 67 | 108 | 127 | 0 | 0 | 51.05 |
| S & D-3 Tangail | 0 | 0 | 0 | 0 | 49 | 64 | 70 | 4 | 3 | 32.28 |
| **Sub-Total** | **9** | **17** | **16** | **6** | **2181** | **2853** | **2853** | **83** | **166** | **1431.3** |
| **Cumilla Zone** | | | | | | | | | | |
| **O & M Circle, Cumilla** | | | | | | | | | | |
| S&D-1, Cumilla | 0 | 0 | 0 | 0 | 92 | 208 | 30 | 0 | 2 | 67.62 |
| Burichong E/S | 0 | 0 | 0 | 0 | 25 | 21 | 32 | 0 | 0 | 13.65 |
| S & D-2, Cumilla | 0 | 0 | 0 | 0 | 270 | 240 | 10 | 0 | 0 | 116.5 |
| Chauddagram E/S | 0 | 0 | 0 | 0 | 26 | 49 | 31 | 0 | 0 | 19.4 |
| S & D-3, Cumilla | 0 | 0 | 0 | 0 | 84 | 170 | 20 | 0 | 0 | 57 |
| S & D Daulatgonj | 0 | 0 | 0 | 0 | 23 | 140 | 12 | 0 | 0 | 34.95 |
| S & D, Chandpur | 0 | 0 | 0 | 0 | 55 | 115 | 28 | 0 | 2 | 39.57 |
| S & D-1, B-Baria | 0 | 0 | 0 | 1 | 102 | 153 | 26 | 0 | 1 | 59.01 |
| S & D-2, B-Baria | 0 | 0 | 0 | 0 | 140 | 105 | 20 | 0 | 0 | 58 |
| S & D Ashugonj | 0 | 5 | 0 | 0 | 74 | 134 | 61 | 0 | 0 | 53.9 |
| S & D Sarial | 0 | 3 | 0 | 0 | 133 | 44 | 5 | 0 | 0 | 44.05 |

| Name of ESU / Division | Distribution Transformer 11/0.4 KV | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1000 KVA (Nos.) | 500 KVA (Nos.) | 315 KVA (Nos.) | 300 KVA (Nos.) | 250 KVA (Nos.) | 200 KVA (Nos.) | 100 KVA (Nos.) | 50 KVA (Nos.) | Others KVA (Nos.) | Total Capacity (MVA) |
| **O & M Circle, Noakhali** | | | | | | | | | | |
| S & D-Maizdee | 0 | 0 | 0 | 0 | 147 | 149 | 32 | 0 | 0 | 69.75 |
| S & D Chowmuhani | 0 | 0 | 0 | 0 | 72 | 108 | 24 | 0 | 0 | 42 |
| Hatiya E/S | 1 | 7 | 0 | 0 | 4 | 7 | 4 | 0 | 0 | 7.3 |
| S & D-Feni | 0 | 0 | 0 | 0 | 110 | 120 | 120 | 0 | 0 | 63.5 |
| Bashourhat E/S | 0 | 0 | 0 | 0 | 48 | 20 | 32 | 1 | 0 | 19.25 |
| S & D-Laxmipur | 0 | 0 | 0 | 0 | 37 | 43 | 50 | 0 | 0 | 22.85 |
| **Sub Total** | **1** | **15** | **0** | **1** | **1442** | **1826** | **537** | **1** | **5** | **788.3** |
| **Southern Zone, Chattogram** | | | | | | | | | | |
| **O & M Circle, Chatta-Metro (East)** | | | | | | | | | | |
| S & D Patharghata | 0 | 0 | 1 | 0 | 299 | 59 | 13 | 0 | 0 | 88.165 |
| S & D Stadium | 0 | 0 | 1 | 0 | 229 | 28 | 12 | 0 | 0 | 64.365 |
| S & D Sholoshahar | 0 | 0 | 0 | 0 | 279 | 66 | 30 | 0 | 0 | 85.95 |
| S & D Kalurghat | 0 | 0 | 0 | 0 | 340 | 23 | 6 | 0 | 0 | 90.2 |
| S & D Bakalia | 0 | 0 | 0 | 0 | 201 | 57 | 15 | 0 | 0 | 63.15 |
| S & Madarbari | 0 | 0 | 0 | 0 | 184 | 21 | 5 | 0 | 0 | 50.7 |
| **O & M Circle, Chatta-Metro (West)** | | | | | | | | | | |
| S & D Agrabad | 0 | 0 | 0 | 0 | 277 | 75 | 9 | 0 | 0 | 85.15 |
| S & D Khulshi | 0 | 0 | 0 | 0 | 207 | 43 | 7 | 0 | 0 | 61.05 |
| S & D Halisahar | 0 | 0 | 0 | 0 | 181 | 30 | 22 | 0 | 4 | 53.49 |
| S & D Pahartali | 0 | 0 | 0 | 0 | 308 | 40 | 21 | 0 | 0 | 87.1 |
| S & D Rampur | 0 | 0 | 0 | 0 | 219 | 15 | 6 | 0 | 0 | 58.35 |
| S&D Newmooring | 0 | 0 | 0 | 0 | 176 | 34 | 4 | 0 | 12 | 51.32 |
| **O & M Circle, Chatta-Metro (North)** | | | | | | | | | | |
| S & D Fouzdarhat | 0 | 0 | 0 | 0 | 166 | 36 | 13 | 0 | 273 | 52.73 |
| Sandwip ESU | 0 | 0 | 0 | 0 | 58 | 0 | 12 | 23 | 26 | 17.11 |
| S & D Barabkund | 0 | 0 | 0 | 0 | 148 | 65 | 33 | 1 | 190 | 55.25 |
| S & D Hathazari | 0 | 0 | 0 | 0 | 178 | 90 | 30 | 0 | 17 | 65.67 |
| S & D Mohora | 0 | 0 | 0 | 0 | 150 | 30 | 18 | 0 | 17 | 45.47 |
| **O&M Circle, Chattogram (South)** | | | | | | | | | | |
| Distribution Patiya | 0 | 0 | 0 | 0 | 250 | 130 | 45 | 0 | 50 | 93.5 |
| Distribution coxbazar | 0 | 0 | 0 | 0 | 296 | 184 | 141 | 37 | 42 | 127.17 |
| **O&M Circle, Chattogram (Rangamati)** | | | | | | | | | | |
| DD-Khagrachari | 1 | 1 | 2 | 0 | 57 | 117 | 272 | 149 | 135 | 75.78 |
| DD-Rangamati | 0 | 0 | 1 | 0 | 26 | 97 | 165 | 69 | 118 | 47.345 |
| DD-Bandarban | 0 | 0 | 0 | 0 | 60 | 76 | 126 | 48 | 55 | 45.75 |
| **Sub Total** | **1** | **1** | **5** | **0** | **4289** | **1316** | **1005** | **327** | **939** | **1464.765** |

| Name of ESU / Division | Distribution Transformer | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 11/0.4 KV | | | | | | | | | |
| | 1000 KVA (Nos.) | 500 KVA (Nos.) | 315 KVA (Nos.) | 300 KVA (Nos.) | 250 KVA (Nos.) | 200 KVA (Nos.) | 100 KVA (Nos.) | 50 KVA (Nos.) | Others KVA (Nos.) | Total Capacity (MVA) |
| **Sylhet Zone** | | | | | | | | | | |
| **O & M Circle, Sylhet** | | | | | | | | | | |
| Sales & Distribution Division-1 | 0 | 0 | 0 | 0 | 280 | 292 | 125 | 1 | 0 | 140.95 |
| Sales & Distribution Division-2 | 0 | 0 | 0 | 0 | 459 | 37 | 11 | 0 | 0 | 123.25 |
| Sales & Distribution Division-3 | 0 | 0 | 0 | 0 | 155 | 98 | 80 | 4 | 0 | 66.55 |
| Jagannathpur Electric Supply | 0 | 0 | 0 | 0 | 70 | 77 | 107 | 2 | 82 | 44.52 |
| Sales & Distribution Division-4 | 0 | 0 | 0 | 0 | 160 | 75 | 62 | 2 | 0 | 61.3 |
| Sales & Distribution Division-5 | 0 | 0 | 0 | 0 | 90 | 51 | 30 | 0 | 0 | 35.7 |
| Jaintapur Electric Supply | 0 | 0 | 0 | 0 | 80 | 140 | 11 | 5 | 23 | 49.58 |
| Sales & Distribution Division-Chatak | 0 | 0 | 0 | 0 | 152 | 178 | 50 | 3 | 6 | 78.81 |
| Sales & Distribution Division, PDB, Sunamganj | 0 | 1 | 0 | 2 | 104 | 42 | 66 | 5 | 20 | 42.55 |
| Derai Electric Supply, PDB, Sunamganj | 0 | 0 | 0 | 0 | 46 | 64 | 48 | 7 | 36 | 29.81 |
| **O & M Circle, Moulovibazar** | | | | | | | | | | |
| Sales & Distribution Division, PDB, Moulvibazar | 0 | 0 | 0 | 0 | 127 | 42 | 41 | 0 | 0 | 44.25 |
| Sales & Distribution Division, PDB, Habiganj | 0 | 0 | 0 | 0 | 165 | 67 | 10 | 1 | 0 | 55.7 |
| Sales & Distribution Division-Kulaura | 0 | 0 | 0 | 0 | 110 | 42 | 56 | 2 | 15 | 41.75 |
| **Sub Total** | **0** | **1** | **0** | **2** | **1998** | **1205** | **697** | **32** | **182** | **814.72** |
| **Total** | **11** | **34** | **21** | **9** | **9910** | **7200** | **5092** | **443** | **1292** | **4499.085** |

## SYNOPSIS OF CHATTOGRAM P.C. POLE MANUFACTURING PLANT

| Details | FY1998 | FY1999 | FY2000 | FY2001 | FY2002 | FY2003 | FY2004 | FY2005 | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nos. of poles manufactured | | | | | | | | | | | | | | | | | | | | | | | |
| i) 33 kV poles a) 15 x 220 | 311 | 981 | 1,596 | 842 | 1,146 | 1,040 | 438 | 1,160 | 1,071 | 738 | 860 | 1,152 | 515 | 959 | 1,000 | 1,078 | 896 | 1,724 | 842 | 4,208 | 5,299 | 4,168 | 5,355 |
| b) 15 x 190 | 524 | 163 | 298 | 716 | 676 | 723 | 564 | 1,256 | 1,901 | 600 | 582 | 499 | 1,322 | 1,929 | 1,115 | 1,110 | 1,390 | 3,430 | 1,880 | 2,430 | 2,095 | 447 | 1,939 |
| ii) 11 kV poles 12 x 190 | 1,581 | 3,334 | 4,397 | 5,471 | 5,913 | 9,697 | 10,185 | 7,055 | 6,680 | 7,884 | 7,678 | 3,075 | 9,698 | 7,379 | 10,000 | 7,784 | 6,387 | 6,565 | 6,831 | 9,261 | 10,735 | 9,401 | 8,350 |
| iii) 0.4 kV poles 9 x 140 | 5,222 | 3,548 | 3,723 | 6,793 | 6,639 | 12,654 | 9,430 | 7,825 | 9,474 | 7,808 | 7,285 | 2,153 | 4,603 | 4,743 | 1,889 | 5,075 | 7,384 | 7,790 | 4,249 | 4,663 | 7,616 | 6,986 | 7,174 |
| 2. Cost per no. of pole (Tk.) | | | | | | | | | | | | | | | | | | | | | | | |
| i) 33 kV poles a) 15 x 220 | 20,000 | 20,000 | 20,000 | 16,821 | 16,821 | 16,821 | 20,185 | 23,180 | 23,180 | 23,180 | 31,650 | 35,740 | 35,740 | 35,740 | 35,740 | 35,740 | 40,897 | 40,897 | 53,381 | 53,381 | 53,381 | 53,381 | 53,381 |
| b) 15 x 190 | 17,000 | 17,000 | 17,000 | 15,150 | 15,150 | 15,150 | 18,180 | 20,908 | 20,908 | 20,908 | 27,833 | 32,353 | 32,353 | 32,353 | 32,353 | 32,353 | 36,374 | 36,374 | 47,478 | 47,478 | 47,478 | 47,478 | 47,478 |
| ii) 11 kV poles 12 x 190 | 14,400 | 14,400 | 14,400 | 11,005 | 11,005 | 11,005 | 13,206 | 15,119 | 15,119 | 15,119 | 18,891 | 20,383 | 20,383 | 20,383 | 20,383 | 20,383 | 23,295 | 23,295 | 30,406 | 30,406 | 30,406 | 30,406 | 30,406 |
| iii) 0.4 kV poles 9 x 140 | 7,000 | 7,000 | 7,000 | 5,885 | 5,885 | 5,885 | 7,062 | 7,902 | 7,902 | 7,902 | 8,310 | 8,629 | 8,629 | 8,629 | 8,629 | 8,629 | 9,885 | 9,885 | 12,903 | 12,903 | 12,903 | 12,903 | 12,903 |
| 3. Production Capacity (Nos.) | | | | | | | | | | | | | | | | | | | | | | | |
| i) 33 kV poles a) 15 x 220 | 800 | 1,000 | 600 | 800 | 1,500 | 1,000 | 460 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 1,000 | 1,000 | 1,000 | 2,000 | 3,000 | 2,000 | 3,000 | 4,000 | 4,000 |
| b) 15 x 190 | 1,000 | 500 | 500 | 700 | 800 | 600 | 600 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 1,500 | 1,500 | 1,500 | 3,000 | 3,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| ii) 11 kV poles 12 x 190 | 4,000 | 4,000 | 5,000 | 4,000 | 8,400 | 8,400 | 10,725 | 7,500 | 7,500 | 7,500 | 7,500 | 7,500 | 7,500 | 7,500 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 12,000 | 10,000 | 9,000 | 9,000 |
| iii) 0.4 kV poles 9 x 140 | 5,300 | 4,000 | 4,000 | 4,500 | 9,300 | 10,000 | 9,900 | 8,500 | 8,500 | 8,500 | 8,500 | 8,500 | 8,500 | 8,500 | 7,500 | 7,500 | 7,500 | 5,000 | 4,000 | 5,000 | 6,000 | 6,000 | 6,000 |
| 4. Use of production capacity (%) | 68.81 | 84.48 | 99.15 | 138.22 | 71.87 | 120.57 | 95.07 | 86.84 | 95.63 | 85.45 | 82.03 | 34.39 | 80.69 | 75.05 | 70.02 | 75.23 | 80.28 | 97.54 | 69.01 | 102.81 | 128.72 | 105.01 | 114.09 |

| 5. Specification of poles | | Top Dia (mm) | Bottom Dia (mm) | Length (mm) | Wall Thickness (mm) | Av. Weight (Kg) | Design Load (Kg) | Pole Designation |
|---|---|---|---|---|---|---|---|---|
| i) 33 kV poles | a) 15 x 220 | 220 | 420 | 15,000 | 55 | 2180 | 650 | 15 x 220x650 |
| | b) 15 x 190 | 190 | 390 | 15,000 | 50 | 1840 | 550 | 15 x 190x550 |
| ii) 11 kV poles | 12 x 190 | 190 | 350 | 12,000 | 50 | 1220 | 450 | 12 x 190x450 |
| iii) 0.4 kV poles | 9 x 140 | 140 | 260 | 9,000 | 40 | 500 | 250 | 9 x 140x250 |

## SYNOPSIS OF ARICHA P.C. POLE MANUFACTURING PLANT

| Details | FY1998 | FY1999 | FY2000 | FY2001 | FY2002 | FY2003 | FY2004 | FY2005 | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nos. of poles manufactured | | | | | | | | | | | | | | | | | | | | | | | |
| i) 33 kVpoles 22.5x230 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15x230 | 61 | --- | 17 | 39 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ii) 11 kV poles 12x230 | 751 | 240 | 720 | 1,450 | 3,449 | 4,007 | 3,508 | 2,722 | 1,338 | 2,238 | 1,583 | 929 | 1,429 | 1,630 | 1,381 | 791 | 1,425 | 2,728 | 3,245 | 701 | 14,868 | 15,814 | 5,975 |
| 11x230 | 4,300 | 3,416 | 3,674 | 5,090 | 6,884 | 5,162 | 5,170 | 6,673 | 3,790 | 3,852 | 729 | 836 | 1,198 | 1,037 | 1,361 | 625 | 1,545 | 2,551 | 828 | 4,643 | 1,225 | 403 | 0 |
| iii) 0.4 kV poles 9 M | 4,022 | 3,371 | 4,640 | 6,501 | 12,046 | 14,859 | 12,342 | 10,610 | 8,009 | 9,912 | 4,691 | 3,286 | 3,219 | 4,261 | 6,268 | 3,141 | 5,170 | 7,729 | 7,929 | 10,509 | 10,587 | 12,010 | 15,977 |
| 2. Cost per no. of pole (Tk.) | | | | | | | | | | | | | | | | | | | | | | | |
| i) 33 kV poles 22.5 M | --- | --- | --- | 39,014 | 39,014 | 39,014 | 39,014 | 45,589 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 M | 15,880 | 16,516 | 20,550 | 21,246 | 21,246 | 21,246 | 21,246 | 24,816 | 24,816 | 28,119 | 41,669 | 36,713 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ii) 11 kV poles 12 M | 10,642 | 10,868 | 13,802 | 14,197 | 14,197 | 14,197 | 14,197 | 15,783 | 15,783 | 17,328 | 24,486 | 21,574 | 21,574 | 21,574 | 21,574 | 21,574 | 22,512 | 22,512 | 29,384 | 29,384 | 29,384 | 29,384 | 29,384 |
| 11 M | 9,400 | 9,634 | 12,385 | 12,652 | 12,652 | 12,652 | 12,652 | 13,910 | 13,910 | 15,313 | 21,066 | 18,560 | 18,560 | 18,560 | 18,560 | 18,560 | 19,579 | 19,579 | 25,555 | 25,555 | 25,555 | 25,555 | 25,555 |
| iii) 0.4 kV poles 9 M | 4,501 | 4,669 | 6,072 | 6,262 | 6,262 | 6,262 | 6,262 | 6,694 | 6,694 | 7,074 | 9,558 | 8,421 | 8,421 | 8,421 | 8,421 | 8,421 | 9,065 | 9,065 | 11,832 | 11,832 | 11,832 | 11,832 | 11,832 |
| 3. Production Capacity (Nos) | | | | | | | | | | | | | | | | | | | | | | | |
| i) 33 kV poles 22.5 M | --- | --- | --- | 25 | 25 | 25 | 25 | 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 M | 300 | 100 | 300 | 300 | 340 | 200 | 200 | 200 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ii) 11 kV poles 12 M | 1,500 | 1,500 | 900 | 900 | 2,000 | 3,000 | 3,000 | 3,000 | 4,000 | 4,000 | 4,000 | 4,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 2,500 | 4,500 | 10,000 | 12,000 | 12,000 |
| 11 M | 4,000 | 4,000 | 4,000 | 4,000 | 8,000 | 5,000 | 5,000 | 5,775 | 5,000 | 5,000 | 5,000 | 5,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,500 | 500 | 2,500 | 500 | 0 |
| iii) 0.4 kV poles 9 M | 4,200 | 4,400 | 4,800 | 4,800 | 9,660 | 11,000 | 11,000 | 11,000 | 11,000 | 11,000 | 11,000 | 11,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 10,000 | 7,500 | 7,500 | 8,000 |
| 4. Use of production capacity (%) | 91.34 | 70.27 | 90.51 | 130.80 | 111.90 | 120.14 | 105.10 | 100.03 | 65.68 | 80.01 | 35.01 | 25.26 | 58.46 | 69.28 | 90.10 | 70.6 | 81.4 | 130.08 | 120.02 | 105.68 | 133.4 | 141.135 | 108.86 |

| 5. Specification of poles | | Top Dia (mm) | Bottom Dia (mm) | Wall Thickness (mm) | Pole Weight (Kg) | Design Load (Kg) | Pole Designation |
|---|---|---|---|---|---|---|---|
| i) 33 kv poles | 22.5 M | 230 | 530 | 55 | 3092.86 | 587 | -- |
| | 15 M | 230 | 430 | 55 | 1,719.78 | 500 | 15 x 230x500 |
| ii) 11 kv poles | 12 M | 230 | 390 | 55 | 1,249.44 | 512 | 12 x 230x512 |
| | 11 M | 230 | 375 | 55 | 1,110.46 | 512 | 11 x 230x512 |
| iii) 0.4 kv poles | 9 M | 150 | 270 | 50 | 522.50 | 233 | 9 x 150x232 |


Hon'ble Prime Minister Sheikh Hasina inaugurating one newly built Power Plant, 100% electrification of seven Districts and 23 Upazila through video conference from Ganabhaban.

# Chapter 5

# Accounts, Finance and Audit

# ACCOUNTS, FINANCE AND AUDIT

Electricity (Power) plays a vital role in the economy of a developing country in many aspects. Day to day the demand of the electricity is growing up. To meet the growing demand of the electricity, BPDB has given high priority in the electricity generation. Beside own generation, BPDB also purchase electricity from the Private Companies generally termed as IPP (Independent Power Producer), Rental power plant and Public power plant to meet the growing demand. In the FY 2019-2020, Generation cost of BPDB's own plant and Electricity purchase from other sources are shown in 'Table-A' with compare to the preceding year.

**Table-A**

| Particulars | FY 2019-20 | | FY 2018-19 | | Increase/ (Decrease) |
|---|---|---|---|---|---|
| | Amount (Crore Tk.) | Cost (Tk/kWh) | Amount (Crore Tk.) | Cost (Tk/kWh) | |
| i. BPDB's Generation | 7,464.76 | 4.47 | 7,648.06 | 4.58 | (2.40)% |
| ii. Purchase from IPP | 17,518.98 | 7.00 | 15,748.50 | 7.42 | 11.24% |
| iii. Purchase from Rental | 3,216.43 | 8.34 | 5,013.62 | 8.40 | (35.85)% |
| iv. Purchase from Public Plant | 6,671.67 | 3.86 | 6,839.30 | 3.82 | (2.45)% |
| v. Purchase from India | 4,017.13 | 6.01 | 3,702.63 | 5.46 | 8.49% |
| vi. Interest on budgetary support | 1,294.80 | 0.19 | 1,294.80 | 0.19 | 0.00% |
| vii. Provision for Maintenance and Development fund | 1,015.02 | 0.15 | 998.20 | 0.15 | 1.68% |
| **Total** | **41,198.80** | **5.91** | **41,245.12** | **6.01** | **(0.11)%** |
| **Energy Sales** | **34,011.55** | | **33,064.03** | | **2.87%** |

It shows that Energy purchase from India & purchase from IPP has increased by 8.49% and 11.24%. BPDB's own generation cost, purchase from Rental, & Public Plants decreased to 2.40%, 35.85% & 2.45% respectively compared to FY 2018-2019. Chart-1 shows the comparative generation picture.

## Cost of Electricity Generation and Purchase

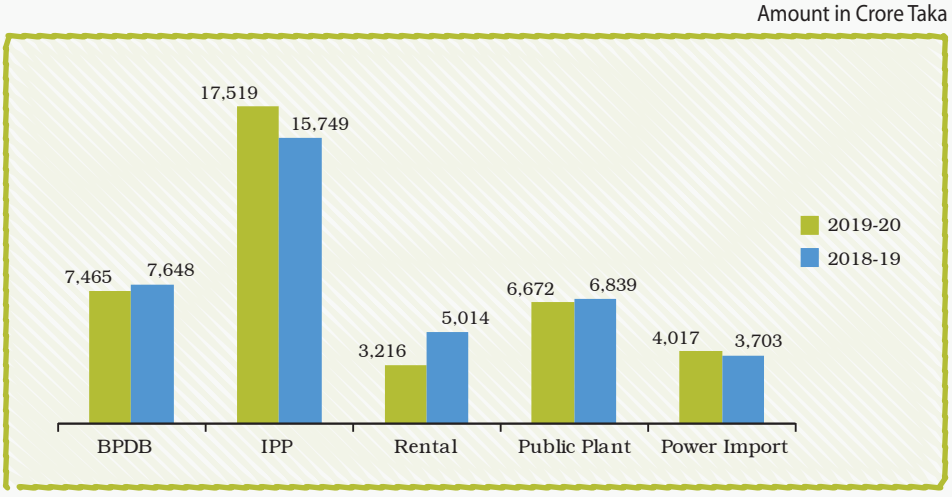



**Chart-1**

During the financial year 2019-2020 amount of sales to BPDB's own consumers, DPDC, DESCO, WZPDCL, NESCO & REB and the collected amount against sales are given bellow:

**Table-B**

| Particulars | FY-2019-2020 | | | FY-2018-2019 | Increase / (Decrease) |
|---|---|---|---|---|---|
| | Sales (Crore Tk.) | Collection (Crore Tk.) | (% of collection on sales) | (% of collection on sales) | |
| PDB's own consumer | 7,231 | 6,988 | 96.64% | 100.12% | (3.48)% |
| DPDC | 5,523 | 5,645 | 102.20% | 103.49% | (1.28)% |
| DESCO | 3,356 | 3,447 | 102.70% | 97.19% | 5.52% |
| WZPDCL | 1,732 | 1,749 | 101.01% | 97.21% | 3.81% |
| REB | 14,323 | 14,369 | 100.32% | 95.92% | 4.40% |
| NESCO | 1,846 | 1,955 | 105.88% | 107.04% | (1.16)% |
| **Total** | **34,012** | **34,153** | **100.42%** | **98.92%** | **1.50%** |

During the financial year 2019-2020 sales to BPDB's own consumer, DPDC, DESCO, WZPDCL, REB and NESCO Taka 7,231 Crore 5,523 Crore, 3,356 Crore, 1,732 Crore, 14,323 Crore and 1,846 Crore respectively against which amount collected was 6,988 Crore 5,645 Crore, 3,447 Crore, 1,749 Crore, 14,369 Crore and 1,955 Crore which is (3.48)%, (1.28)%, 5.52%, 3.81%, 4.40% and (1.16)% of billed amount respectively.

## Comparative collection over sales

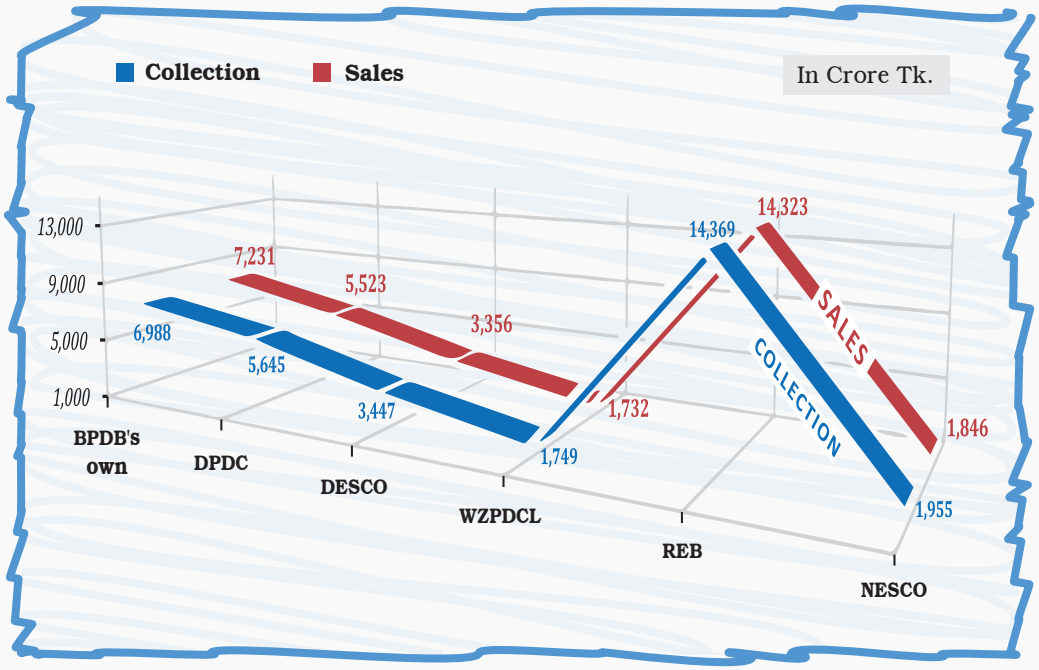



**Chart-2**

A comparison of the Operating income and operating expenses for FY 2019-2020 and FY 2018-2019 is shown below:

**Table-C**

Figures in Crore Taka

| Head of Accounts | FY 2019-2020 | FY 2018-2019 | Amount increase/ (Decrease) | Percentage of increase/(Decrease) |
|---|---|---|---|---|
| **Operating Revenue (1)** | **35,535.40** | **34,506.87** | **1,028.53** | **2.98%** |
| Sale of Electricity | 34,011.55 | 33,064.03 | 947.52 | 2.87% |
| Other Operating Revenue | 1,523.85 | 1,442.84 | 81.01 | 5.61% |
| **Operating Expenses (2)** | **39,887.15** | **39,553.30** | **333.85** | **0.84%** |
| Fuel Cost | 3,415.17 | 4,249.35 | (834.18) | (19.63)% |
| Generation Expenses (Excluding fuel cost) | 3,008.22 | 2,442.39 | 565.83 | 23.17% |
| Electricity purchase from IPP | 17,518.98 | 15,748.50 | 1,770.48 | 11.24% |
| Electricity purchase from RENTAL | 3,216.43 | 5,013.62 | (1,797.19) | (35.85)% |
| Electricity purchase from Public Plant | 6,671.67 | 6,839.30 | (167.63) | (2.45)% |
| Electricity purchase from India | 4,017.13 | 3,702.63 | 314.49 | 8.49% |
| Wheeling Charge to PGCB | 231.99 | 215.02 | 16.98 | 7.89% |
| Distribution Expenses | 1,354.05 | 947.51 | 406.55 | 42.91% |
| General & Administrative Expenses | 453.49 | 394.97 | 58.51 | 14.81% |
| **Operating Loss = (1-2)** | **(4,351.75)** | **(5,046.43)** | **694.68** | **(13.77)%** |

Table-c shows that sale of electricity has increased by 2.87% and Other Operating Revenue has increased by 5.61% respectively over FY 2018-2019. The cost of fuel for generation has decreased by 19.63% and other generation expense has increased by 23.17% over FY 2018-2019. The total operating expenses has increased by 0.84%. Wheeling Charge to PGCB and Distribution Expenses has increased by 7.89%. Operating Loss for the year 2019-2020 has decreased by 13.77%.

## COMPARATIVE STATEMENT OF BUDGET AND ACHIVEMENT FOR THE YEAR 2019-2020

Amount in Lac Taka

| Particulars | Budget | Achievement | Difference | Performance Over Budget |
|---|---|---|---|---|
| **OPERATING REVENUE** | | | | |
| ENERGY SALES | 3,640,415 | 3,401,155 | (239,260) | A |
| OTHER OPERATING INCOME | 108,197 | 152,385 | 44,188 | F |
| | **3,748,612** | **3,553,540** | **(195,072)** | **A** |
| **OPERATING EXPENSES** | | | | |
| FUEL COST - GAS | 213,905 | 174,619 | 39,286 | F |
| DIESEL/FURNACE OIL USED FOR ELECTRICITY GENERATION | 96,897 | 65,474 | 31,423 | F |
| COAL USED FOR ELECTRICITY GENERATION | 118,321 | 101,424 | 16,897 | F |
| ELECTRICITY PURCHASE FROM IPP | 1,735,328 | 1,751,898 | (16,570) | A |
| ELECTRICITY PURCHASE FROM RENTAL | 353,199 | 321,643 | 31,556 | F |
| ELECTRICITY PURCHASE FROM INDIA | 469,354 | 401,713 | 67,641 | F |
| ELECTRICITY PURCHASE FROM PUBLIC PLANT | 867,765 | 667,167 | 200,598 | F |
| DEPRECIATION | 188,558 | 230,780 | (42,222) | A |
| REPAIR & MAINTENANCE EXPENSES | 93,400 | 96,977 | (3,577) | A |
| PERSONNEL EXPENSES | 153,312 | 142,064 | 11,248 | F |
| OFFICE & ADMINISTRATIVE EXPENSES | 32,250 | 11,755 | 20,495 | F |
| TRANSMISSION EXPENSES FOR WHEELING CHARGE | 29,948 | 23,199 | 6,749 | F |
| **TOTAL OPERATING EXPENSES** | **4,352,237** | **3,988,715** | **363,522** | **F** |
| **OPERATING INCOME / (LOSS)** | **(603,625)** | **(435,175)** | **168,450** | **F** |
| **NON - OPERATING EXPENSES:** | | | | |
| ASSETS INSURANCE FUND | 700 | 700 | - | F |
| INTEREST ON LOANS | 234,280 | 202,638 | 31,642 | F |
| PROVISION FOR MAINTANANCE & DEVELOPMENT FUND | 110,222 | 101,502 | 8,720 | F |
| GAIN / (LOSS) DUE TO EXCHANGE RATE FLUCTUATION | 13,000 | 4,848 | 8,152 | F |
| NET NON-OPERATING EXPENSES | 358,202 | 309,688 | 48,514 | F |
| SUBSIDY FROM GOVT. | 967,588 | 743,944 | (223,644) | A |
| **COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR** | **5,761** | **(919)** | **(6,680)** | **A** |

From the above statement it is found that, the actual net loss for the FY 2019-2020 is 919 Lac Taka against the revised budgeted net profit of 5,761 Lac Taka which is less than budget provision by 6,680 Lac Taka. In analysis of the revised budget and actual expenditure it is observed that the govt. orders/decisions for controlling the cost have been reflected in BPDB's operation.

Utility Plant in Service acquired through project completion amounting to Taka 62.06 Crore has been transferred to assets in operation during the FY 2019-2020. Depreciation has been charged @ 3.20% on the opening balance of utility plant in service except those of 820mw. project and transportation equipment on which depreciation has been charged @ 6.00% and 9.00% respectively on the basis of "Fixed Percentage" method & half of the normal rate on addition during the year.

Chart-3 shows the trend analysis of revenue from sale of electricity with operating expense:

## Year Wise Revenue To Operating Expenses

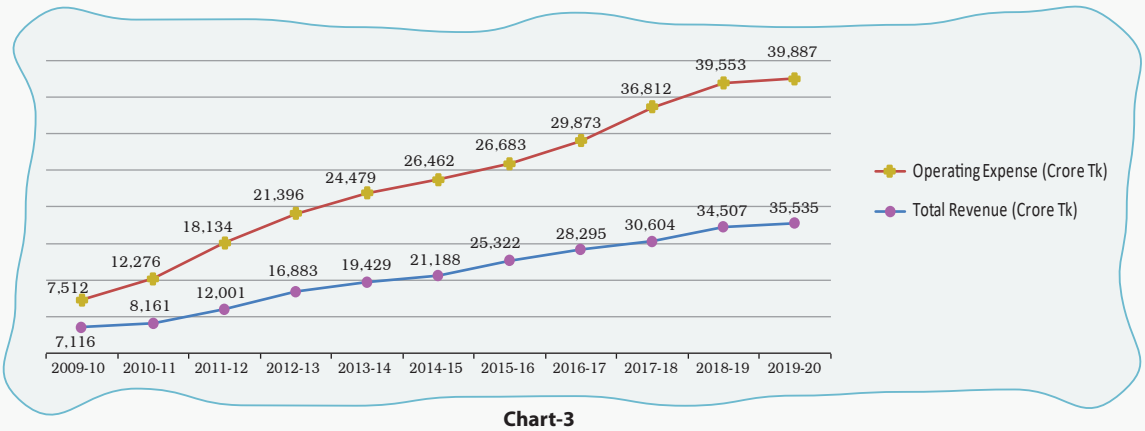



**Chart-3**

## Category Wise Total Expenses

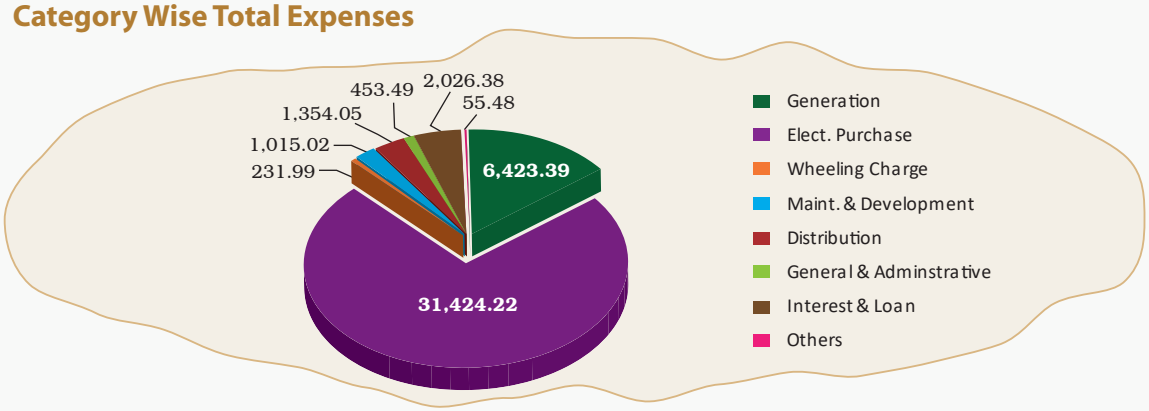



**Chart-4**

## BPDB's Own Generation and Electricity Purchase

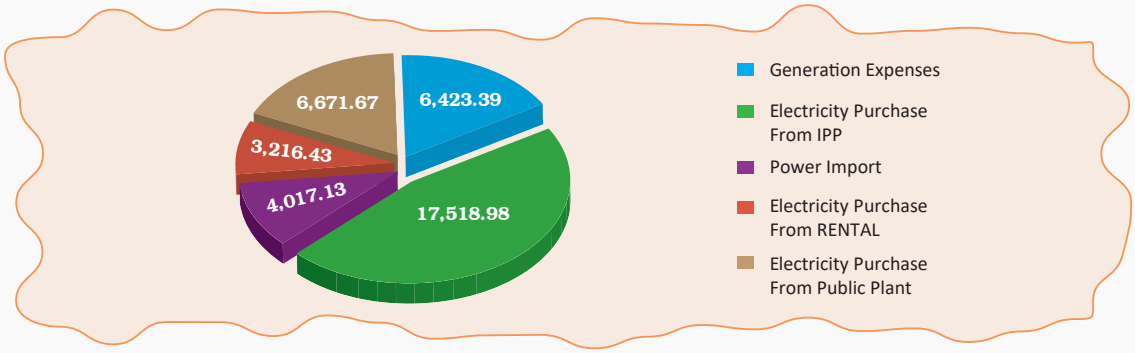



**Chart-5**

# STATEMENT OF FINANCIAL POSITION

**AS AT JUNE 30, 2020**

Figures In Taka

| PROPERTY & ASSETS | AS ON 30-06-2020 | AS ON 30-06-2019 |
|---|---|---|
| **NON-CURRENT ASSETS** | | |
| UTILITY PLANT IN SERVICE | 954,600,733,588 | 617,954,488,788 |
| LESS : ACCUMULATED DEPRECIATION | 318,153,303,811 | 258,735,481,865 |
| **WRITTEN DOWN VALUE** | **636,447,429,777** | **359,219,006,923** |
| PROJECT IN PROGRESS | 174,735,350,509 | 148,107,093,830 |
| INVESTMENT IN SHARES | 33,248,745,642 | 24,716,266,948 |
| **TOTAL NON-CURRENT ASSETS** | **844,431,525,928** | **532,042,367,701** |
| **CURRENT ASSETS** | | |
| INVESTMENT | 78,000,518,383 | 71,419,588,442 |
| CASH IN HAND & AT BANK | 65,003,904,372 | 50,372,776,610 |
| ACCOUNTS RECEIVABLE - TRADE | 110,172,579,743 | 111,587,342,806 |
| ACCOUNTS RECEIVABLE - OTHERS | 29,281,550,892 | 30,687,415,869 |
| LOAN/ADVANCE TO GOVERNMENT | 20,000,000,000 | - |
| PROVISION FOR BAD & DOUBTFUL DEBTS | (1,236,107,585) | (1,236,107,585) |
| ADVANCE TO CONTRACTORS & SUPPLIERS | 4,932,949,576 | 4,768,612,331 |
| ADVANCE TO EMPLOYEES | 2,089,407,628 | 1,996,476,837 |
| STOCK & STORES | 38,900,457,645 | 17,012,109,188 |
| SECURITY DEPOSIT TO OTHER UTILITIES | 744,033,024 | 762,995,931 |
| INCOME TAX DEDUCTION AT SOURCE | 6,317,644,704 | 5,238,240,476 |
| **TOTAL CURRENT ASSETS** | **354,206,938,382** | **292,609,450,906** |
| **TOTAL PROPERTY & ASSETS** | **1,198,638,464,311** | **824,651,818,606** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

# STATEMENT OF FINANCIAL POSITION

**AS AT JUNE 30, 2020**

Figures In Taka

| CAPITALS & LIABILITIES | AS ON 30-06-2020 | AS ON 30-06-2019 |
|---|---|---|
| **AUTHORIZED CAPITAL** | **400,000,000,000** | **200,000,000,000** |
| **EQUITY & RESERVE** | | |
| PAID UP CAPITAL | 213,289,275,677 | 199,789,679,430 |
| GOVERNMENT EQUITY | - | 2,574,060,000 |
| RETAINED EARNINGS | (620,462,024,366) | (579,637,444,825) |
| APPRAISAL SURPLUS | 467,354,806,728 | 117,057,871,482 |
| GOVT. EQUITY AGAINST DESCO'S SHARE | 3,328,924,865 | 3,328,924,865 |
| GRANTS | 7,436,755,860 | 7,436,755,860 |
| DEPOSIT WORK FUND | 6,169,206,259 | 5,061,162,856 |
| LIQUIDITY DAMAGE RESERVE | 72,053,500 | 72,053,500 |
| ASSETS INSURANCE FUND | 460,000,000 | 390,000,000 |
| MAINTANANCE & DEVELOPMENT FUND | 102,515,319,007 | 86,064,523,213 |
| | **180,164,317,530** | **(157,862,413,619)** |
| **NON-CURRENT LIABILITIES** | | |
| GOVERNMENT LOAN | 83,935,962,425 | 82,112,266,176 |
| BUDGETARY SUPPORT AS SUBSIDY FROM GOVT. | 431,601,200,000 | 431,601,200,000 |
| FOREIGN LOAN | 130,041,832,603 | 142,125,673,652 |
| SECURITY DEPOSIT (CONSUMERS) | 6,180,033,931 | 5,906,988,628 |
| GRATUITY & PENSION FUND | 13,533,882,565 | 14,470,962,283 |
| GPF & CPF | 9,512,193,795 | 9,064,052,949 |
| | **674,805,105,318** | **685,281,143,688** |
| **CURRENT LIABILITIES** | | |
| ACCOUNTS PAYABLE | 87,914,778,811 | 71,621,278,530 |
| SECURITY DEPOSIT (CONTRACTORS & SUPPLIERS) | 1,616,463,236 | 1,648,910,599 |
| CURRENT PORTION OF LONG TERM LIABILITIES | 15,914,309,326 | 11,419,917,696 |
| DEBT SERVICING LIABILITIES ( PRINCIPAL) | 85,080,765,199 | 80,697,163,103 |
| REIMBURSABLE PROJECT AID | 1,024,287,460 | 1,024,287,460 |
| DEBT SERVICING LIABILITIES (INTEREST) | 72,483,664,832 | 66,854,026,942 |
| INTEREST ON BUDGETARY SUPPORT FROM GOVT. (FUND) | 82,597,093,760 | 69,649,057,760 |
| OTHER LIABILITIES | 2,012,034,024 | 2,114,352,021 |
| | **348,643,396,649** | **305,028,994,111** |
| CLEARING ACCOUNTS | (4,974,355,186) | (7,795,905,573) |
| **TOTAL EQUITY AND LIABILITIES** | **1,198,638,464,311** | **824,651,818,606** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

# STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME

**FOR THE YEAR ENDED JUNE 30, 2020**

Figures In Taka

| PARTICULARS | FY 2019-2020 | FY 2018-2019 |
|---|---|---|
| **OPERATING REVENUE** | | |
| ENERGY SALES | 340,115,516,283 | 330,640,293,772 |
| OTHER OPERATING INCOME | 15,238,488,936 | 14,428,432,752 |
| | **355,354,005,219** | **345,068,726,523** |
| **OPERATING EXPENSES** | | |
| GENERATION EXPENSES | 64,233,922,246 | 66,917,410,817 |
| ELECTRICITY PURCHASE FROM IPP | 175,189,846,701 | 157,485,024,369 |
| ELECTRICITY PURCHASE FROM INDIA | 40,171,296,679 | 37,026,349,447 |
| ELECTRICITY PURCHASE FROM RENTAL | 32,164,342,577 | 50,136,234,417 |
| ELECTRICITY PURCHASE FROM PUBLIC PLANT | 66,716,719,282 | 68,392,984,316 |
| TRANSMISSION EXPENSES FOR WHEELING CHARGE | 2,319,940,994 | 2,150,187,186 |
| DISTRIBUTION EXPENSES | 13,540,529,860 | 9,475,065,565 |
| GENERAL AND ADMINISTRATIVE EXPENSES | 4,534,880,470 | 3,949,749,896 |
| | **398,871,478,808** | **395,533,006,013** |
| **OPERATING INCOME / (LOSS)** | **(43,517,473,590)** | **(50,464,279,490)** |
| FINANCING AND OTHER CHARGES | 7,315,787,374 | 7,048,333,238 |
| INTEREST ON BUDGETARY SUPPORT FROM GOVT. | 12,948,036,000 | 12,948,036,000 |
| **INCOME/(LOSS)** | **(63,781,296,963)** | **(70,460,648,728)** |
| LOSS/(GAIN) DUE TO EXCHANGE RATE FLUCTUATION | 484,801,202 | 955,806,673 |
| ASSETS INSURANCE FUND | 70,000,000 | 15,000,000 |
| SUBSIDY FROM GOVT. | (74,394,400,000) | (79,667,300,000) |
| PROVISION FOR MAINTANANCE AND DEVELOPMENT FUND | 10,150,170,000 | 9,981,987,450 |
| **COMPREHENSIVE INCOME / (LOSS)** | **(91,868,165)** | **(1,746,142,851)** |
| **RETAINED EARNINGS** | | |
| BALANCE AS AT JULY 01, 2019 | (579,637,444,825) | (575,427,924,045) |
| PREVIOUS YEAR'S ADJUSTMENT | (40,732,711,375) | (2,463,377,930) |
| COMPREHENSIVE INCOME / (LOSS) | (91,868,165) | (1,746,142,851) |
| **BALANCE AS AT JUNE 30, 2020** | **(620,462,024,366)** | **(579,637,444,825)** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

# STATEMENT OF CASH FLOWS

## FOR THE YEAR ENDED JUNE 30, 2020

Figures In Taka

| SL. No. | DESCRIPTION | AMOUNT | AMOUNT | AMOUNT |
|---|---|---|---|---|
| | **CASH FLOW FROM OPERATING ACTIVITIES** | | | |
| A | **Total Receipts from BPDB Customer, REB and Others** | | | |
| | Operating Revenue-Note-40 & 41 | **355,354,005,219** | | |
| | Accounts Receivable-Trade-Opening-Note-10 | 111,587,342,806 | | |
| | Accounts Receivable-Trade-Closing-Note-10 | (110,172,579,743) | | |
| | Accounts Receivable-Others -Opening-Note-11( Except 142A, 142B , 142C & 142D) | 26,286,249,166 | | |
| | Accounts Receivable-Others -Closing-Note-11 ( Except 142A, 142B, 142C & 142D) | (27,336,928,216) | | |
| | Provision for Bad Debt-Opening-Note-12 | (1,236,107,585) | | |
| | Provision for Bad Debt-Closing-Note-12 | 1,236,107,585 | | |
| | | | **355,718,089,231** | |
| B | **Less Total Payment for Operating Expenses and Others** | | | |
| | Operating Expenses net of Depreciation*01 | 374,579,584,335 | | |
| | Previous Year's Adjustments-Note-58 ( Excluding valuation & Maintainance Fund against 205) | (175,347,582) | | |
| | Interest Charges- Sh-52 (Code-675 & Interest of Foreign Loan paid in cash ) | 3,828,831,771 | | |
| | Liquidity Reserve-Opening- Note-24 | 72,053,500 | | |
| | Liquidity Reserve-Closing - Note-24 | (72,053,500) | | |
| | Accounts Payable-Opening -Note-33 | 71,621,278,530 | | |
| | Accounts Payable-Closing- Note-33 | (87,914,778,811) | | |
| | Security Deposit Contractor's-Opening -Note-34 | 1,648,910,599 | | |
| | Security Deposit Contractor's-Closing- Note-34 | (1,616,463,236) | | |
| | Other Liabilities-Opening-Note-40 | 2,114,352,021 | | |
| | Other Liabilities-Closing-Note-40 | (2,012,034,024) | | |
| | Advance to Contractors-Opening - Note-13 | (4,768,612,331) | | |
| | Advance to Contractors-Closing - Note-13 | 4,932,949,576 | | |
| | Advance to Employees-Opening- Note-14 | (1,996,476,837) | | |
| | Advance to Employees-Closing- Note-14 | 2,089,407,628 | | |
| | Stock & Stores-Opening- Note-15 | (17,012,109,188) | | |
| | Stock & Stores-Closing- Note-15 (Excluding valuation ) | 16,407,375,970 | | |
| | Clearing Account-Opening- Note-41 | (7,795,905,573) | | |
| | Clearing Account-Closing- Note-41 | 4,974,355,186 | | |
| | Deposits & Prepaid-Opening- Note-16 | (6,001,236,407) | | |
| | Deposits & Prepaid-Closing -Note-16 | 7,061,677,728 | **359,965,759,355** | |
| | | | - | |
| C | **Reimburseable Project Aid- received-Sh-35** | | | |
| D | | | | |
| E | **NET CASH OUTFLOW FROM OPERATING ACTIVITIES (A-B-C-D)** | | | **(4,247,670,125)** |
| | **CASH FLOW FROM INVESTING ACTIVITIES** | | | |
| | Consumers Security Deposit -Note-30 (Closing-Opening) | 273,045,304 | | |
| | Capital Expenditure-UPIS- Sh-3 | (9,657,351,752) | | |
| | Capital Expenditure-PIP*06 ( Net Cash) | (25,525,998,949) | | |
| | Employees Contribution to GPF, CPF and Pension Fund-Note-31 & 32 (Closing-Opening) | (488,938,872) | | |
| | Investment in Share -07 (Excluding APSCL's Addition ) | (2,962,162,030) | | |
| | Encashment of FDR-Sh-08 | 9,499,758,250 | | |
| | Investment in FDR-Sh-08 | (16,080,688,191) | | |
| F | **NET CASH OUT FLOW FROM INVESTING ACTIVITIES** | | | **(44,942,336,241)** |
| | **CASH FLOW FROM FINANCING ACTIVITIES** | | | |
| | Capital Contribution -Note-18 (Closing-Opening) | 10,925,536,247 | | |
| | Grant-Note-20 (Closing- Opening) | - | | |
| | Govt. Loan- Sh-28 (Loan Drawn during the Year) | 5,414,151,021 | | |
| | Reimburseable Project Aid- received-Sh-35 | - | | |
| | Foreign Loan- Sh-29.Loan wise(Loan Drawn during the Year) | 4,451,508,310 | | |
| | Deposit Work Fund -Note-23 (Closing- Opening) | 1,108,043,403 | | |
| | Repayment of Foreign Loan-Sh-36 | (11,433,949,899) | | |
| | Repayment of Govt. Loan-Sh-36 | (1,031,611,954) | | |
| | Refund of Govt. Loan- Sh-24 | (2,777,200) | | |
| | Refund of Equity to GOB | (4,165,800) | | |
| | Loan to Government | (20,000,000,000) | | |
| G | **NET CASH INFLOW FROM FINANCING ACTIVITIES** | | | **(10,573,265,872)** |
| H | **NET CASH OUTFLOW (E+F+G)** | | | **(59,763,272,238)** |
| I | **CASH RECEIVED FROM GOVT. AS BUDGETARY SUPPORT** | | | **74,394,400,000** |
| J | **OPENING CASH IN HAND** | | | **50,372,776,610** |
| K | **CLOSING CASH IN HAND (H+I+J)** | | | **65,003,904,372** |

## STATEMENT OF FINANCIAL POSITION (GENERATION & BULK)

**AS AT JUNE 30, 2020**

Figures In Taka

| PROPERTY & ASSETS | FY 2019-2020 | FY 2018-2019 |
|---|---|---|
| **NON-CURRENT ASSETS** | | |
| UTILITY PLANT IN SERVICE | 649,953,139,193 | 474,184,862,295 |
| LESS : ACCUMULATED DEPRECIATION | 209,646,268,523 | 194,324,290,671 |
| **WRITTEN DOWN VALUE** | **440,306,870,670** | **279,860,571,624** |
| PROJECT IN PROGRESS | 119,534,752,260 | 107,538,112,793 |
| INVESTMENT IN SHARES | 28,334,943,451 | 19,802,464,757 |
| **TOTAL NON-CURRENT ASSETS** | **588,176,566,381** | **407,201,149,174** |
| **CURRENT ASSETS** | | |
| INVESTMENT | 62,033,307,849 | 58,563,414,704 |
| CASH IN HAND & AT BANK | 51,483,453,404 | 38,982,839,427 |
| ACCOUNTS RECEIVABLE - TRADE | 88,145,759,658 | 91,991,525,724 |
| ACCOUNTS RECEIVABLE - FROM SPC | 52,591,372,994 | 39,707,119,037 |
| ACCOUNTS RECEIVABLE - OTHERS | 26,003,232,615 | 27,630,907,366 |
| LOAN/ ADVANCE TO GOVERNMENT | 20,000,000,000 | - |
| ADVANCE TO CONTRACTORS & SUPPLIERS | 4,558,060,242 | 4,721,222,110 |
| ADVANCE TO EMPLOYEES | 1,168,300,755 | 1,096,499,617 |
| STOCK & STORES | 33,083,684,998 | 15,605,280,493 |
| SECURITY DEPOSIT TO OTHER UTILITIES | 736,406,865 | 754,741,794 |
| INCOME TAX DEDUCTION AT SOURCE | 5,987,392,516 | 4,947,104,973 |
| **TOTAL CURRENT ASSETS** | **345,790,971,896** | **284,000,655,246** |
| **TOTAL PROPERTY & ASSETS** | **933,967,538,276** | **691,201,804,420** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

## STATEMENT OF FINANCIAL POSITION (GENERATION & BULK)

**AS AT JUNE 30, 2020**

Figures In Taka

| CAPITAL & LIABILITIES | FY 2019-2020 | FY 2018-2019 |
|---|---|---|
| **EQUITY AND RESERVE** | | |
| PAID UP CAPITAL | 156,149,875,093 | 151,464,365,093 |
| GOVERNMENT EQUITY | - | 2,574,060,000 |
| RETAINED EARNINGS | (545,054,114,966) | (546,244,441,064) |
| APPRAISAL SURPLUS | 281,709,455,417 | 89,477,620,309 |
| GRANTS | 5,087,812,642 | 5,087,812,642 |
| LIQUIDITY DAMAGE RESERVE | 72,053,500 | 72,053,500 |
| ASSETS INSURANCE FUND | 353,000,000 | 297,000,000 |
| MAINTANANCE & DEVELOPMENT FUND | 102,515,319,007 | 86,064,523,213 |
| | **833,400,693** | **(211,207,006,307)** |
| **NON-CURRENT LIABILITIES** | | |
| BUDGETARY SUPPORT AS SUBSIDY FROM GOVT. (DIFFERENCE OF BUYING & SELLING RATE) | 431,601,200,000 | 431,601,200,000 |
| GOVERNMENT LOAN | 56,574,386,553 | 59,852,728,803 |
| FOREIGN LOAN | 118,265,970,524 | 129,817,178,432 |
| GPF & CPF | 5,556,942,414 | 5,423,028,497 |
| GRATUITY & PENSION FUND | 9,427,191,611 | 10,826,471,992 |
| | **621,425,691,102** | **637,520,607,724** |
| **CURRENT LIABILITIES** | | |
| ACCOUNTS PAYABLE | 86,625,466,706 | 70,441,289,679 |
| SECURITY DEPOSIT (CONTRACTORS & SUPPLIERS) | 1,129,753,124 | 1,137,696,826 |
| CURRENT PORTION OF LONG TERM LIABILITIES | 14,698,906,338 | 10,163,058,471 |
| DEBT SERVICING LIABILITIES ( PRINCIPAL) | 57,812,853,604 | 54,742,576,389 |
| REIMBURSABLE PROJECT AID | 516,533,039 | 516,533,039 |
| DEBT SERVICING LIABILITIES (INTEREST) | 52,548,922,886 | 48,318,749,798 |
| INTEREST ON BUDGETARY SUPPORT FROM GOVT. (FUND) | 82,597,093,760 | 69,649,057,760 |
| OTHER LIABILITIES | 1,060,865,058 | 1,229,467,959 |
| | **296,990,394,516** | **256,198,429,921** |
| CLEARING ACCOUNTS | 14,718,051,966 | 8,689,773,081 |
| **TOTAL EQUITY & LIABILITIES** | **933,967,538,276** | **691,201,804,420** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

# STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME OF GENERATION & BULK SUPPLY

**FOR THE YEAR ENDED JUNE 30, 2020**

Figures In Taka

| PARTICULARS | FY 2019-2020 | FY 2018-2019 |
|---|---|---|
| **OPERATING REVENUE** | | |
| ENERGY SALES (BULK) | 328,655,625,329 | 319,293,547,796 |
| OTHER OPERATING INCOME | 13,150,184,764 | 12,739,673,287 |
| | **341,805,810,093** | **332,033,221,082** |
| **OPERATING EXPENSES** | | |
| FUEL EXPENSES | 34,151,740,542 | 42,493,542,803 |
| PERSONNEL EXPENSES | 6,942,724,213 | 5,812,280,428 |
| OFFICE EXPENSES | 394,330,104 | 381,390,392 |
| REPAIRS & MAINTENANCE EXPENSES | 6,558,726,069 | 4,355,067,468 |
| DEPRECIATION | 16,186,401,317 | 13,875,129,725 |
| **TOTAL OWN GENERATION EXPENSES** | **64,233,922,246** | **66,917,410,817** |
| ELECTRICITY PURCHASE FROM IPP | 175,189,846,701 | 157,485,024,369 |
| ELECTRICITY PURCHASE FROM INDIA | 40,171,296,679 | 37,026,349,447 |
| ELECTRICITY PURCHASE FROM RENTAL | 32,164,342,577 | 50,136,234,417 |
| ELECTRICITY PURCHASE FROM PUBLIC PLANT | 66,716,719,282 | 68,392,984,316 |
| GENERAL & ADMINISTRATIVE EXPENSES | 3,608,215,484 | 3,022,673,212 |
| **TOTAL OPERATING EXPENSES** | **382,084,342,968** | **382,980,676,578** |
| **OPERATING INCOME / (LOSS)** | **(40,278,532,875)** | **(50,947,455,496)** |
| FINANCING AND OTHER CHARGES | 6,308,480,879 | 6,083,024,357 |
| INTEREST ON BUDGETARY SUPPORT FROM GOVT. | 12,948,036,000 | 12,948,036,000 |
| **INCOME / (LOSS)** | **(59,535,049,754)** | **(69,978,515,853)** |
| LOSS/(GAIN) DUE TO EXCHANGE RATE FLUCTUATION | 441,007,248 | 720,941,025 |
| ASSETS INSURANCE FUND | 56,000,000 | 12,000,000 |
| PROVISION FOR MAINTANANCE AND DEVELOPMENT FUND | 10,150,170,000 | 9,981,987,450 |
| SUBSIDY FROM GOVT. | (74,394,400,000) | (79,667,300,000) |
| **COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR** | **4,212,172,998** | **(1,026,144,328)** |
| **RETAINED EARNINGS** | | |
| BALANCE AS ON JULY 01, 2019 | (546,244,441,064) | (542,757,368,679) |
| PREVIOUS YEAR'S ADJUSTMENT | (3,021,846,900) | (2,460,928,057) |
| COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR | 4,212,172,998 | (1,026,144,328) |
| **BALANCE AS ON JUNE 30, 2020** | **(545,054,114,966)** | **(546,244,441,064)** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

# STATEMENT OF FINANCIAL POSITION
# (DISTRIBUTION)

**AS AT JUNE 30, 2020**

Figures In Taka

| PROPERTY & ASSETS | FY 2019-2020 | FY 2018-2019 |
|---|---|---|
| **NON-CURRENT ASSETS** | | |
| UTILITY PLANT IN SERVICE | 304,647,594,395 | 143,769,626,493 |
| LESS : ACCUMULATED DEPRECIATION | 108,507,035,287 | 64,411,191,194 |
| **WRITTEN DOWN VALUE** | **196,140,559,108** | **79,358,435,299** |
| PROJECT IN PROGRESS | 55,200,598,249 | 40,568,981,038 |
| INVESTMENT IN SHARES | 4,913,802,191 | 4,913,802,191 |
| **TOTAL NON-CURRENT ASSETS** | **256,254,959,548** | **124,841,218,527** |
| **CURRENT ASSETS** | | |
| INVESTMENT | 15,967,210,535 | 12,856,173,739 |
| CASH IN HAND & AT BANK | 13,520,450,969 | 11,389,937,183 |
| ACCOUNTS RECEIVABLE - TRADE | 22,026,820,085 | 19,595,817,081 |
| ACCOUNTS RECEIVABLE - OTHERS | 3,278,318,278 | 3,056,508,504 |
| PROVISION FOR BAD AND DOUBTFUL DEBTS | (1,236,107,585) | (1,236,107,585) |
| ADVANCE TO CONTRACTORS & SUPPLIERS | 374,889,334 | 47,390,221 |
| ADVANCE TO EMPLOYEES | 921,106,874 | 899,977,221 |
| STOCK AND STORES | 5,816,772,646 | 1,406,828,695 |
| SECURITY DEPOSIT TO OTHER UTILITIES | 7,626,159 | 8,254,138 |
| INCOME TAX DEDUCTION AT SOURCE | 330,252,188 | 291,135,502 |
| **TOTAL CURRENT ASSETS** | **61,007,339,483** | **48,315,914,699** |
| **TOTAL PROPERTY & ASSETS** | **317,262,299,031** | **173,157,133,226** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants


Contract signing ceremony of consultancy service for bringing BPDB distribution zones under underground distribution network between BPDB and Energytron.

# STATEMENT OF FINANCIAL POSITION
# (DISTRIBUTION)

**AS AT JUNE 30, 2020**

Figures In Taka

| CAPITAL & LIABILITIES | FY 2019-2020 | FY 2018-2019 |
|---|---|---|
| **EQUITY AND RESERVE** | | |
| PAID UP CAPITAL | 57,139,400,585 | 48,325,314,338 |
| RETAINED EARNINGS | (75,407,909,400) | (33,393,003,761) |
| APPRAISAL SURPLUS | 185,645,351,311 | 27,580,251,173 |
| GOVT. EQUITY AGAINST DESCO'S SHARE | 3,328,924,865 | 3,328,924,865 |
| GRANTS | 2,348,943,218 | 2,348,943,218 |
| DEPOSIT WORK FUND | 6,169,206,259 | 5,061,162,856 |
| ASSETS INSURANCE FUND | 107,000,000 | 93,000,000 |
| | **179,330,916,839** | **53,344,592,689** |
| **NON-CURRENT LIABILITIES** | | |
| GOVERNMENT LOAN | 27,361,575,872 | 22,259,537,373 |
| FOREIGN LOAN | 11,775,862,079 | 12,308,495,220 |
| SECURITY DEPOSIT (CONSUMERS) | 6,180,033,931 | 5,906,988,627 |
| GPF & CPF | 3,955,251,381 | 3,641,024,453 |
| GRATUITY & PENSION FUND | 4,106,690,954 | 3,644,490,291 |
| | **53,379,414,217** | **47,760,535,965** |
| **CURRENT LIABILITIES** | | |
| ACCOUNTS PAYABLE | 1,289,312,104 | 1,179,988,851 |
| ACCOUNTS PAYABLE TO BPDB GENERATION | 52,591,372,994 | 39,707,119,037 |
| SECURITY DEPOSIT (CONTRACTORS & SUPPLIERS) | 486,710,111 | 511,213,772 |
| CURRENT PORTION OF LONG TERM LIABILITIES | 1,215,402,989 | 1,256,859,224 |
| DEBT SERVICING LIABILITIES ( PRINCIPAL) | 27,267,911,595 | 25,954,586,714 |
| REIMBURSABLE PROJECT AID | 507,754,421 | 507,754,421 |
| DEBT SERVICING LIABILITIES (INTEREST) | 19,934,741,946 | 18,535,277,144 |
| OTHER LIABILITIES | 951,168,967 | 884,884,062 |
| | **104,244,375,126** | **88,537,683,225** |
| CLEARING ACCOUNTS | (19,692,407,150) | (16,485,678,657) |
| **TOTAL EQUITY & LIABILITIES** | **317,262,299,031** | **173,157,133,226** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

# STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME OF DISTRIBUTION

**FOR THE YEAR ENDED JUNE 30, 2020**

Figures In Taka

| PARTICULARS | FY 2019-2020 | FY 2018-2019 |
|---|---|---|
| **OPERATING REVENUE** | | |
| ENERGY SALES (RETAIL) | 72,313,806,283 | 73,329,681,412 |
| OTHER OPERATING INCOME | 2,088,304,172 | 1,688,759,465 |
| | **74,402,110,454** | **75,018,440,876** |
| **OPERATING EXPENSES** | | |
| POWER PURCHESE COST AS PER BST | 60,853,915,329 | 61,982,935,436 |
| TRANSMISSION EXPENSES FOR WHEELING CHARGE | 2,319,940,994 | 2,150,187,186 |
| **TOTAL ENERGY IMPORT COST** | **63,173,856,323** | **64,133,122,622** |
| PERSONNEL EXPENSES | 4,202,766,183 | 3,709,884,906 |
| OFFICE EXPENSES | 380,648,105 | 361,393,348 |
| REPAIR AND MAINTENANCE EXPENSES | 2,637,982,847 | 1,320,996,385 |
| DEPRECIATION | 6,319,132,725 | 4,082,790,925 |
| PROVISION FOR BAD DEBTS | - | - |
| **TOTAL DISTRIBUTION EXPENSES** | **13,540,529,860** | **9,475,065,565** |
| GENERAL & ADMINISTRATIVE EXPENSES | 926,664,986 | 927,076,684 |
| **TOTAL OPERATING EXPENSES** | **77,641,051,169** | **74,535,264,871** |
| **OPERATING INCOME / (LOSS)** | **(3,238,940,715)** | **483,176,006** |
| FINANCING & OTHER CHARGES | 1,007,306,494 | 965,308,881 |
| **INCOME / (LOSS)** | **(4,246,247,209)** | **(482,132,875)** |
| LOSS/(GAIN) DUE TO EXCHANGE RATE FLUCTUATION | 43,793,954 | 234,865,648 |
| ASSETS INSURANCE FUND | 14,000,000 | 3,000,000 |
| **COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR** | **(4,304,041,163)** | **(719,998,523)** |
| **RETAINED EARNINGS** | | |
| BALANCE AS ON JULY 01, 2019 | (33,393,003,761) | (32,670,555,359) |
| PREVIOUS YEAR'S ADJUSTMENT | (37,710,864,475) | (2,449,879) |
| COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR | (4,304,041,163) | (719,998,523) |
| **BALANCE AS ON JUNE 30, 2020** | **(75,407,909,400)** | **(33,393,003,761)** |

**A B SAHA & CO.**
Chartered Accountants

**MARHK & CO.**
Chartered Accountants

## INCOME STATEMENT AND BALANCE SHEET RATIOS

| Name of Ratio | Formula | 30-Jun-20 | | 30-Jun-19 | |
|---|---|---|---|---|---|
| | | Calculations | Result | Calculations | Result |
| Operating Income Ratio | Operating Income | (43,517,473,589.83) | (12.25)% | (50,464,279,489.90) | (14.62)% |
| | Total operating revenue | 355,354,005,218.66 | | 345,068,726,523.09 | |
| Rate of Return on Asset | Operating Income | (43,517,473,589.83) | (4.56)% | (50,464,279,489.90) | (8.17)% |
| | Operating Average fixed Assets | 954,600,733,588.08 | | 617,954,488,787.63 | |
| Operating Expenses Ratio | Operating Expenses | 398,871,478,808.49 | 112.25% | 395,533,006,012.99 | 114.62% |
| | Operating revenue | 355,354,005,218.66 | | 345,068,726,523.09 | |
| Current Ratio | Total Current Assets | 354,206,938,382.17 | 1.02:1 | 292,609,450,905.62 | 0.96:1 |
| | Total Current Liabilities | 348,643,396,649.28 | | 305,028,994,110.66 | |
| Quick Ratio | Total Current Assets - Inventory | 354,206,938,382.17-38,900,457,644.67 | 0.90:1 | 292,609,450,905.62-17,012,109,188.64 | 0.90:1 |
| | Total Current Liabilities | 348,643,396,649.28 | | 305,028,994,110.66 | |
| Debt-Equity Ratio | Total Long Term Debt | 645,578,995,027.08 | 3.58:1 | 655,839,139,828.29 | (4.15):1 |
| | Total Equity Capital | 180,164,317,530.27 | | (157,862,413,618.76) | |

## CONSOLIDATED SCHEDULE OF EXPENSES

Figures In Taka

| Head of Accounts | Generation Expenses | Distribution Expenses | Gen. & Admn. Expenses | Total Expenses FY 2019-2020 | Total Expenses FY 2018-2019 |
|---|---|---|---|---|---|
| **Fuel Consumption for Generation** | | | | | |
| Natural Gas | 17,461,910,978 | - | - | 17,461,910,978 | 12,258,800,013 |
| Liquid fuel | 6,547,408,197 | - | - | 6,547,408,197 | 23,897,850,210 |
| Coal | 10,142,421,367 | - | - | 10,142,421,367 | 6,336,892,581 |
| **Sub-Total** | **34,151,740,542** | **-** | **-** | **34,151,740,542** | **42,493,593,450** |
| Personnel Expenses | 6,942,724,213 | 4,202,766,183 | 3,060,885,925 | 14,206,376,320 | 12,195,331,535 |
| Office & Other Expenses | 394,330,104 | 380,648,105 | 400,536,993 | 1,175,515,203 | 1,272,024,232 |
| Repairs & Maintenance | 6,558,726,069 | 2,637,982,847 | 500,970,344 | 9,697,679,261 | 6,113,001,817 |
| Depreciation | 16,186,401,317 | 6,319,132,725 | 572,487,208 | 23,078,021,250 | 18,268,325,891 |
| Bad debts | - | - | - | - | - |
| Wheeling Charge | - | 2,319,940,994 | - | 2,319,940,994 | 2,150,187,186 |
| **Sub-Total** | **30,082,181,704** | **15,860,470,854** | **4,534,880,470** | **50,477,533,028** | **39,998,870,660** |
| **Electricity Purchase :** | | | | - | - |
| From IPP & SIPP. | 175,189,846,701 | - | - | 175,189,846,701 | 157,485,024,369 |
| From Rental Plant | 32,164,342,577 | - | - | 32,164,342,577 | 50,136,234,417 |
| From Public Plant | 66,716,719,282 | - | - | 66,716,719,282 | 68,392,984,316 |
| From India | 40,171,296,679 | - | - | 40,171,296,679 | 37,026,349,447 |
| **Sub-Total** | **314,242,205,238** | **-** | **-** | **314,242,205,238** | **313,040,592,549** |
| Financing & other charges | 6,308,480,879 | 1,007,306,494 | - | 7,315,787,374 | 7,048,333,238 |
| Interest on Budgetary Support | 12,948,036,000 | - | - | 12,948,036,000 | 12,948,036,000 |
| Maint. & Dev. Expenses | 10,150,170,000 | - | - | 10,150,170,000 | 9,981,987,450 |
| Provision for Assets Ins. | 56,000,000 | 14,000,000 | - | 70,000,000 | 15,000,000 |
| Exchange Rate Fluctuation | 441,007,248 | 43,793,954 | - | 484,801,202 | 955,806,673 |
| **Sub-Total** | **29,903,694,127** | **1,065,100,448** | **-** | **30,968,794,575** | **30,949,163,361** |
| **Grand Total** | **408,379,821,611** | **16,925,571,303** | **4,534,880,470** | **429,840,273,384** | **426,482,220,021** |

## DETAILS OF PERSONNEL EXPENSES

Figures In Taka

| Head of Accounts | Generation Expenses | Distribution Expenses | General & Administrative Expenses | Total |
|---|---|---|---|---|
| Pay of Officers | 480,371,595 | 293,404,954 | 439,937,516 | 1,213,714,066 |
| Pay of Staff | 888,125,190 | 729,592,858 | 356,200,744 | 1,973,918,792 |
| Allowances of Officers | 325,317,275 | 131,159,332 | 209,723,801 | 666,200,408 |
| Allowances of Staff | 656,395,354 | 446,837,781 | 224,641,605 | 1,327,874,740 |
| Leave Encashment | 36,420,689 | 31,989,267 | 22,147,853 | 90,557,809 |
| Overtime Allowances (Single Rate) | 146,150,643 | 120,277,933 | 50,062,214 | 316,490,790 |
| Overtime Allowances (Double Rate) | 603,651,407 | 426,899,477 | 119,392,717 | 1,149,943,600 |
| House Rent Expenses | 238,000 | 1,613,328 | - | 1,851,328 |
| Medical Expenses | 12,628,100 | 8,102,133 | 4,243,658 | 24,973,891 |
| Bonus for Officers | 71,875,143 | 44,664,154 | 58,108,665 | 174,647,963 |
| Bonus for Stuff | 154,436,745 | 120,751,670 | 64,514,477 | 339,702,892 |
| Bangla Nobo Barsho Allowance (For Officers) | 6,704,893 | 4,913,087 | 6,416,621 | 18,034,601 |
| Bangla Nobo Barsho Allowance (For Staff) | 13,493,345 | 12,522,409 | 5,821,424 | 31,837,178 |
| Employees Electricity Rebate | 154,004,224 | 121,493,472 | 71,202,937 | 346,700,634 |
| Workmen Compensation | - | - | - | - |
| Gratuity | - | - | - | - |
| Income Tax of Officers & Staff | - | - | - | - |
| Employees Other Benefit & Welfare Expenses | 4,481,553 | 1,559,170 | 24,072,365 | 30,113,088 |
| Reimbursement for Treatment of Accident (on duty) affected Employee | - | - | - | - |
| Board's Contribution to CPF | - | - | - | - |
| Board's Contribution to Pension Fund | 2,729,387,122 | 1,193,600,821 | 980,592,974 | 4,903,580,917 |
| Leave Encashment on Retirement | 84,504,075 | 81,969,763 | 73,965,542 | 240,439,379 |
| L. Salary & Pension Cont. for Trans. Govt. Employees | - | 76,853 | - | 76,853 |
| Honorarium Punishment/Reward Scheme | 278,456,119 | 216,444,773 | 144,044,375 | 638,945,267 |
| Honorarium Others | 46,939,961 | 3,816,171 | 15,046,631 | 65,802,763 |
| Wages for Hired Labour | 249,142,779 | 211,076,777 | 67,814,617 | 528,034,173 |
| Computerization of Commercial Operation | - | - | 122,935,190 | 122,935,190 |
| Service charge for collection of Electricity Bill by Mobile Phone Co. | - | - | - | - |
| Contract out- Commercial Operation activities | - | - | - | - |
| Interest on GPF/CPF | - | - | - | - |
| **Total Personnel Expenses** | **6,942,724,213** | **4,202,766,183** | **3,060,885,925** | **14,206,376,320** |

## DETAILS OF OFFICE AND OTHER EXPENSES

Figures In Taka

| Head of Accounts | Generation | Distribution | General & Administrative | Total |
|---|---|---|---|---|
| Traveling Expenses/ Allowances (For Official) | 104,433,744 | 103,132,821 | 75,549,135 | 283,115,700 |
| Traveling Expenses (For Training) | 17,897,072 | 1,669,790 | 10,476,110 | 30,042,972 |
| Conveyance Charge | 1,347,305 | 3,712,176 | 5,480,174 | 10,539,655 |
| Washing Expenses | 179,595 | 214,408 | 690,536 | 1,084,539 |
| Representation & Entertainment | 640,270 | 53,019 | 7,096,837 | 7,790,126 |
| Stationary & Printing | 13,735,163 | 52,623,382 | 41,251,988 | 107,610,533 |
| Taxes,Licence & Fees | 37,393,173 | 15,968,428 | 30,416,999 | 83,778,600 |
| Office Rent | - | 4,921,110 | 2,474,466 | 7,395,576 |
| Water Charges | 5,732,399 | 1,228,013 | 8,029,000 | 14,989,412 |
| Electric Charges (Own use) | 157,978,386 | 112,187,603 | 39,223,693 | 309,389,682 |
| Electricity Rebate - Freedom fighters | - | 2,845,909 | - | 2,845,909 |
| Uniforms & Liveries | 8,314,768 | 7,639,335 | 1,995,331 | 17,949,434 |
| Post & Telegram | 334,303 | 1,050,075 | 1,361,716 | 2,746,094 |
| Telephone,Telex & Fax | 6,502,061 | 8,732,248 | 4,914,347 | 20,148,656 |
| Advertising & Promotion | 22,438,500 | 26,646,959 | 75,818,501 | 124,903,960 |
| Audit Fee | - | 12,541,970 | 1,853,608 | 14,395,578 |
| Legal Expenses (Lawyer's Fees & Court Fees) | 88,862 | 5,391,208 | 9,088,945 | 14,569,015 |
| Books & Periodicals | 773,133 | 408,153 | 808,490 | 1,989,775 |
| Donation & Contributions | 11,714,400 | 19,653,500 | 3,827,655 | 35,195,555 |
| Donation to sick Employees from Benevolent Fund | 4,436,470 | - | - | 4,436,470 |
| Training & Education | 390,500 | 28,000 | 80,179,463 | 80,597,963 |
| Training & Education- Foreign | - | - | - | - |
| Allocation of Gen. Admn. Exp. | - | - | - | - |
| Miscellaneous Expenses | - | - | - | - |
| **Total Office & Other Expenses** | **394,330,104** | **380,648,105** | **400,536,993** | **1,175,515,203** |

Central revenue meeting of BPDB distribution zones chaired by
Engr. Md. Belayet Hossain, Chairman BPDB at Bijoy Hall, Bidyut Bhaban.

## DETAILS OF REPAIR AND MAINTENANCE EXPENSES

Figures In Taka

| Head of Accounts | Generation | Distribution | General & Administrative | Total |
|---|---|---|---|---|
| Petrol/ Diesel & Lubricants Used for Transport | 36,178,138 | 110,756,068 | 55,222,905 | 202,157,112 |
| CNG Used for Vehicle | 6,802,570 | 2,543,980 | 3,288,365 | 12,634,915 |
| Petrol/ Diesel & Lubricants Used for Other Equipment | 153,682,261 | - | - | 153,682,261 |
| Store & Spares Used | 295,218,668 | 80,963,226 | 14,258,010 | 390,439,904 |
| Store & Spares Used-Foreign | - | - | - | - |
| Store & Spares Used-Received from other stores | - | - | - | - |
| Custom Duties & Sale Tax | 1,375,623,918 | 461,991,460 | - | 1,837,615,378 |
| Vat | 163,740,883 | - | - | 163,740,883 |
| Demarrage & Warfront | - | - | - | - |
| Hire of Equipment | - | - | - | - |
| Freight & Handling | 25,592,974 | 101,675,527 | 123,681 | 127,392,182 |
| Insurance (For Goods & Property) | - | - | 7,045,085 | 7,045,085 |
| Insurance (For Transportation Equipment) | 2,699,580 | 839,403 | 1,708,960 | 5,247,943 |
| Insurance For Vehicle & other | - | - | 9,000,000 | 9,000,000 |
| Bank Charge & Commission | 18,625,486 | 55,571,112 | 103,282,945 | 177,479,544 |
| Contractor's Fees | - | - | - | - |
| Offfice Maintenance | - | - | 285,093 | 285,093 |
| Store Maintenance | - | - | - | - |
| Consultants Expenses Local | 59,147,665 | 18,095,505 | 4,286,456 | 81,529,626 |
| Consultants Expenses Foreign | 219,734,170 | 6,913,906 | 36,882,230 | 263,530,306 |
| Land & Land Rights | - | - | - | - |
| Structure & Improvement | 60,369,636 | 73,073,076 | 195,894,823 | 329,337,536 |
| Boiler Plant equipment | 20,009,846 | - | - | 20,009,846 |
| Engine & Engine Driven Generators | 13,508,557 | - | - | 13,508,557 |
| Generator | 47,909,112 | - | - | 47,909,112 |
| Prime Movers | 22,564,438 | - | - | 22,564,438 |
| Accessory elect. equipment | 3,633,310 | 1,253,400,200 | - | 1,257,033,510 |
| Reservoir, Dams & Waterways | 5,003,045 | - | - | 5,003,045 |
| Water Wheels and Turbines | - | - | - | - |
| Roads, Rail Roads & Bridges | - | - | - | - |
| Fuel Holders, Producers & Accessories | - | - | - | - |
| Station Equipment | 3,759,307,336 | 2,001,367 | - | 3,761,308,703 |
| Towers and Fixtures | - | - | - | - |
| Poles & Fixtures | - | 1,678,324 | - | 1,678,324 |
| Overhead Conduct & Devices | 209,581,596 | 377,780,087 | 662,650 | 588,024,333 |
| Underground Conductors | - | - | - | - |
| Line Transformers | - | 7,752,316 | - | 7,752,316 |
| Transformer Manufacturing | - | 95,640 | - | 95,640 |
| Street Lighting and Single Systems | - | - | - | - |
| Metters | - | - | - | - |
| Transportation Equipment's | 26,215,440 | 76,228,937 | 60,499,673 | 162,944,049 |
| Heavy & Other Power Operated Equipment's | - | - | - | - |
| Office furniture & Equipment | 1,072,740 | 4,698,491 | 5,745,105 | 11,516,335 |
| Office furniture & Equipment (Computer, Monitor & Others) | 93,660 | - | 45,820 | 139,480 |
| Communication Equipments | - | - | - | - |
| Tools, Shop and Garage Equipments | - | 1,634,464 | 1,352,296 | 2,986,760 |
| Laboratory Equipment | - | - | - | - |
| Stores Equipment | 32,411,040 | 289,759 | 1,386,247 | 34,087,046 |
| Fire Fighting Equipment | - | - | - | - |
| Miscellaneous Equipment | - | - | - | - |
| **Total Repair & Maintenance** | **6,558,726,069** | **2,637,982,847** | **500,970,344** | **9,697,679,261** |

## COMPARISION OF ELECTRICITY PURCHASE FROM IPP AND SIPP WITH PREVIOUS YEAR

| Particulars | FY 2019-2020 | | | FY 2018-2019 | | |
|---|---|---|---|---|---|---|
| | Unit kWh | Amount In Tk. | Cost/kWh | Unit kWh | Amount In Tk. | Cost/kWh |
| KPCL, Khulna | - | - | - | 105,934,584 | 1,365,644,202 | 12.89 |
| NEPC Consortium Power Ltd. Haripur | - | - | - | 104,846,900 | 2,072,906,353 | 19.77 |
| RPC LTD. Mymensingh (210 MW) | 1,289,580,768 | 4,400,973,182 | 3.41 | 1,007,336,904 | 3,554,063,448 | 3.53 |
| Haripur Power Ltd. | 2,585,723,830 | 4,082,364,590 | 1.58 | 2,411,163,800 | 3,234,280,511 | 1.34 |
| Meghnaghat Power Ltd. | 3,042,188,735 | 7,702,108,964 | 2.53 | 2,936,374,438 | 6,066,951,502 | 2.07 |
| Doreen Power Generation & System Ltd.-Feni | 141,279,396 | 415,324,790 | 2.94 | 153,741,252 | 387,611,669 | 2.52 |
| Doreen Power Generation & System Ltd.- Tangail | 143,404,572 | 418,599,224 | 2.92 | 141,895,048 | 376,513,287 | 2.65 |
| Rejent Power Ltd. | 156,648,285 | 459,412,619 | 2.93 | 354,669,185 | 1,279,662,161 | 3.61 |
| Summit Purbachal Power Ltd.-Jangalia | 208,181,905 | 732,228,346 | 3.52 | 184,659,264 | 680,413,387 | 3.68 |
| Summit Meghnaghat Power Ltd. | 1,232,984,954 | 6,261,944,337 | 5.08 | 911,455,542 | 8,625,248,852 | 9.46 |
| Midland Power Company Ltd. | 267,912,697 | 875,684,572 | 3.27 | 221,227,941 | 639,445,171 | 2.89 |
| Raj Lanka Power Limited | 80,771,237 | 1,391,433,185 | 17.23 | 238,487,933 | 2,885,554,726 | 12.10 |
| Baraka Patenga Power Limited | 133,215,792 | 1,738,349,397 | 13.05 | 250,415,136 | 2,827,751,225 | 11.29 |
| Digital Power & Associates Ltd. | 228,469,691 | 2,686,001,914 | 11.76 | 257,834,736 | 3,403,344,219 | 13.20 |
| Regent Energy & Power Ltd. | 286,323,365 | 1,361,023,355 | 4.75 | 163,349,152 | 404,444,041 | 2.48 |
| United Power Generation & Distribution | 220,248,960 | 733,501,951 | 3.33 | 191,850,240 | 569,502,054 | 2.97 |
| RPCL 52MW Gazipur | 93,961,416 | 1,608,591,025 | 17.12 | 245,282,040 | 2,988,598,490 | 12.18 |
| RPCL 25MW Rawjan | 33,256,526 | 721,093,405 | 21.68 | 112,143,456 | 1,339,813,835 | 11.95 |
| Lakdhanvi Bangla Power Ltd. | 68,975,144 | 1,435,248,603 | 20.81 | 88,419,214 | 1,512,942,205 | 17.11 |
| ECPV Power Ltd. | 177,963,288 | 2,602,765,227 | 14.63 | 407,314,680 | 4,995,294,312 | 12.26 |
| Sinha People Energy Ltd. | 87,773,136 | 1,327,329,508 | 15.12 | 180,756,288 | 2,327,103,429 | 12.87 |
| Aggreko Energy Solution Ltd - Bhola (95MW) | - | - | - | - | - | - |
| ACE Alliance Power Ltd. (149MW) (Summit Gazipur) | 404,137,440 | 4,095,794,531 | 10.13 | 443,332,816 | 5,243,258,884 | 11.83 |
| United Ashugang Energy Ltd. | 342,066,540 | 3,482,085,887 | 10.18 | 410,689,172 | 3,364,048,191 | 8.19 |
| Summit Bibiyana II Power Company Ltd. | 2,533,405,256 | 6,195,036,994 | 2.45 | 2,275,778,120 | 4,928,709,112 | 2.17 |
| Summit Barishal Power Ltd. | 191,397,120 | 2,791,433,109 | 14.58 | 360,597,024 | 4,655,710,946 | 12.91 |
| Summit Narayangonj Power Unit II Ltd. | 96,817,909 | 1,397,885,741 | 14.44 | 195,645,957 | 2,486,648,174 | 12.71 |
| Doreen Southern Power Limited | 110,210,738 | 1,587,720,218 | 14.41 | 231,642,627 | 2,931,159,878 | 12.65 |
| Doreen Northern Power Limited | 151,070,207 | 1,867,971,877 | 12.36 | 252,122,106 | 3,056,609,791 | 12.12 |
| Power Pac Motiara - Jamalpur | 339,610,944 | 4,114,629,696 | 12.12 | 366,057,946 | 4,791,078,725 | 13.09 |
| Shahjanullah Power Generation Co. Ltd. | 133,358,044 | 460,363,566 | 3.45 | 125,134,056 | 385,379,047 | 3.08 |
| CLC Power Company Ltd. | 139,259,482 | 2,154,540,707 | 15.47 | 228,447,004 | 3,235,680,227 | 14.16 |

| Particulars | FY 2019-2020 | | | FY 2018-2019 | | |
|---|---|---|---|---|---|---|
| | Unit kWh | Amount In Tk. | Cost/kWh | Unit kWh | Amount In Tk. | Cost/kWh |
| Engreen Solar | 3,860,015 | 62,075,299 | 16.08 | 4,073,350 | 64,919,129 | 15.94 |
| Kushiara Power Company Ltd. | 1,148,090,686 | 3,328,431,877 | 2.90 | 1,078,626,003 | 2,709,875,451 | 2.51 |
| M/S Banco Energy Generation Ltd. | 209,990,340 | 2,517,495,961 | 11.99 | 253,455,372 | 3,127,758,077 | 12.34 |
| Bangla Track Power Company Ltd. | 5,992,320 | 3,631,805,621 | 606.08 | 53,481,024 | 4,410,558,290 | 82.47 |
| Bangla Track Power Company Ltd. (Unit-2) | 78,702,240 | 3,093,031,604 | 39.30 | 116,391,360 | 3,695,084,304 | 31.75 |
| Aggreko Energy Solution Ltd. - Aorahati (100MW) | 6,040,888 | 1,881,430,202 | 311.45 | 43,176,939 | 2,481,108,402 | 57.46 |
| Aggreko Energy Solution Ltd. - Brahmangaon (100MW) | 4,676,090 | 1,844,846,730 | 394.53 | 29,279,018 | 2,218,646,691 | 75.78 |
| APR Energy 300MW | 3,448,215 | 5,446,696,116 | 1,579.57 | 83,692,925 | 6,082,956,824 | 72.68 |
| United Mymensingh Power Ltd. (200MW) | 507,801,840 | 6,075,281,810 | 11.96 | 653,489,120 | 8,756,691,193 | 13.40 |
| Teknaf Solartech Energy Ltd. (20MW) | 36,027,726 | 423,055,479 | 11.74 | 31,696,433 | 370,591,722 | 11.69 |
| Acron Infrastruchure Service Ltd. (Unit-3) | 329,174,995 | 3,710,075,142 | 11.27 | 368,699,319 | 3,903,550,067 | 10.59 |
| Sembcorp NWPC Ltd. - Sirajgonj (282MW) | 3,047,637,942 | 9,193,002,080 | 3.02 | 773,306,069 | 2,929,717,465 | 3.79 |
| Paramount BTrac Energy Ltd. - Sirajgonj | 3,756,087 | 3,546,541,105 | 944.21 | 20,164,916 | 1,633,755,115 | 81 |
| Orion Power Rupsha Ltd. - Khulna (105MW) | 186,785,520 | 3,018,423,032 | 16.16 | 302,803,587 | 3,645,807,575 | 12 |
| Desh Energy Chandpur Power Company Ltd. | 352,369,138 | 5,811,857,467 | 16.49 | 387,345,705 | 5,227,662,497 | 13.50 |
| Midland East Power Company Ltd. | 196,073,411 | 3,988,343,214 | 20.34 | 165,551,105 | 2,840,810,715 | 17.16 |
| Baraka Shikalbaha Power Ltd. (105MW) | 99,169,409 | 2,184,396,966 | 22.03 | 45,556,671 | 542,023,533 | 12 |
| Confidence Power Ltd. - Rangpur | 283,390,147 | 3,615,280,274 | 12.76 | - | - | - |
| Confidence Power Ltd. (Unit-1) | 199,459,584 | 2,189,153,968 | 10.98 | - | - | - |
| Confidence Power Ltd. (Unit-2) - Bogura | 223,190,976 | 3,596,109,041 | 16.11 | 135,611,136 | 1,750,345,931 | 13 |
| United Jamalpur 200MW | 435,503,268 | 5,345,969,591 | 12.28 | 230,414,684 | 2,797,803,450 | 12 |
| Sympa Solar Power Limited | 11,029,586 | 121,571,385 | 11.02 | - | - | - |
| RPCL - Gazipur (105MW) | 287,819,928 | 4,018,991,023 | 13.96 | 96,280,944 | 866,528,496 | 9.00 |
| United - Anawara (300MW) | 810,582,644 | 10,113,893,939 | 12.48 | 131,861,760 | 1,219,721,280 | 9.25 |
| Zodiac Power Ctg. Ltd. | 36,177,063 | 922,527,587 | 25.50 | - | - | - |
| Karnaphuli Power Ltd. | 40,597,792.27 | 1,563,611,789 | 38.51 | - | - | - |
| Lanka Power Limited - Feni | 34,679,849 | 1,082,818,157 | 31.22 | - | - | - |
| HP Power Company Limited | 115,725,246 | 1,559,483,281 | 13.48 | - | - | - |
| Bangladsh -China Power Company (Pvt.) Ltd. 1320MW | 831,938,471.8 | 5,215,734,878 | 6.27 | - | - | - |
| Acron Infrastructure Services Ltd. Unit-2 | 186,554,976 | 1,003,595,519 | 5.38 | - | - | - |
| Orion Power Sonargaon Ltd. | 10,829,376 | 94,757,040 | 8.75 | - | - | - |
| Summit Gazipur II Power Ltd. - Kodda (300MW) | 365,298,295.3 | 5,888,119,002 | 16.12 | 671,643,491 | 9,593,736,108 | 14.28 |
| **TOTAL IPP & SIPP** | **25,012,571,440** | **175,189,846,701** | **7.00** | **21,235,205,492** | **157,485,024,369** | **7.42** |

## COMPARISION OF ELECTRICITY PURCHASE FROM PUBLIC PLANTS WITH PREVIOUS YEAR

| Particulars | FY 2019-2020 | | | FY 2018-2019 | | |
|---|---|---|---|---|---|---|
| | Unit kWh | Amount In Tk. | Cost/kWh | Unit kWh | Amount In Tk. | Cost/kWh |
| APSCL (Except New 570 MW) | 871,733,180 | 3,992,507,875 | 4.58 | 1,238,583,358 | 4,002,455,913 | 3.23 |
| APSCL (New 50 MW) | 244,146,276 | 533,228,573 | 2.18 | 236,096,818 | 487,165,926 | 2.06 |
| APSCL (225 MW) | 1,480,504,353 | 5,104,811,743 | 3.45 | 1,622,102,643 | 4,664,116,762 | 2.88 |
| APSCL (450 MW) South | 2,350,523,007 | 8,671,643,247 | 3.69 | 2,427,896,984 | 7,993,985,091 | 3.29 |
| APSCL (450 MW) North | 2,458,470,544 | 6,666,202,866 | 2.71 | 2,238,446,455 | 5,818,840,573 | 2.60 |
| SBU HARIPUR | - | 278,186,638 | - | - | 502,973,247 | |
| EGCB Ltd.(210X2)MW | 278,915,352 | 2,263,261,009 | 8.11 | 572,543,832 | 2,399,317,765 | 4.19 |
| EGCB Ltd.(412)MW | 2,783,382,126 | 6,122,051,191 | 2.20 | 2,706,160,962 | 5,273,081,829 | 1.95 |
| EGCB Ltd.(360)MW | 926,684,819 | 3,260,352,289 | 3.52 | 732,292,831 | 1,601,038,799 | 2.19 |
| North West Power Gen (NWPGCL)-Sirajgonj | 1,251,820,331 | 3,962,775,220 | 3.17 | 1,258,621,096 | 4,702,078,834 | 3.74 |
| North West Power Gen (NWPGCL)-Sirajgonj (Unit - 2) | 659,693,652 | 4,066,747,219 | 6.16 | 1,227,348,582 | 7,951,106,153 | 6.48 |
| North West Power Gen (NWPGCL)-Sirajgonj (Unit - 3) | 1,246,030,415 | 4,356,240,963 | 3.50 | 754,750,611 | 2,241,054,488 | 2.97 |
| North West Power Gen (NWPGCL)-Khulna | 6,755,128 | 3,602,950,417 | 533.37 | 387,194,376 | 8,943,633,431 | 23.10 |
| North West Power Gen (NWPGCL)-Bheramara | 2,315,525,576 | 6,376,468,917 | 2.75 | 2,001,314,030 | 4,428,455,882 | 2.21 |
| North West Power Gen (NWPGCL)-Madhumati | 216,337,824 | 3,427,103,611 | 15.84 | 156,871,885 | 1,786,206,854 | 11.39 |
| BPDB RPCL PowerGen Ltd. | 175,337,452 | 4,032,187,505 | 23.00 | 340,414,742 | 5,597,472,768 | 16.44 |
| **Total Public Co.(Code No. 616)** | **17,265,860,037** | **66,716,719,282** | **3.86** | **17,900,639,206** | **68,392,984,316** | **3.82** |

## COMPARISION OF ELECTRICITY PURCHASE FROM INDIA WITH PREVIOUS YEAR

| Particulars | FY 2019-2020 | | | FY 2018-2019 | | |
|---|---|---|---|---|---|---|
| | Unit kWh | Amount in Tk. | Cost/kWh | Unit kWh | Amount in Tk. | Cost/kWh |
| NVVN Ltd. - India 250 MW | 1,720,991,506 | 5,519,165,342 | 3.21 | 1,807,208,597 | 6,321,876,283 | 3.50 |
| PTC India Ltd. 250MW | - | - | - | 718,157,665 | 4,846,083,974 | 6.75 |
| NVVN Ltd. - India 160 MW (Tripura) | 1,005,185,656 | 7,633,343,637 | 7.59 | 1,028,298,144 | 7,709,249,383 | 7.50 |
| Power Grid Corporation of India - 250MW | - | 714,415,237 | - | - | - | - |
| PTC India Ltd. 40MW | - | - | - | 95,323,500 | 469,737,349 | 4.93 |
| Power Grid Corporation of India - 160MW | - | 183,742,973 | - | - | - | - |
| NVVN Ltd. - India 300 MW | 1,700,740,025 | 10,912,458,117 | 6.42 | 1,750,516,169 | 9,327,884,121 | 5.33 |
| PTC India Ltd. 200 MW | 902,021,075 | 6,199,398,155 | - | 553,754,893 | 4,202,255,417 | 7.59 |
| Sembcrop Energy India Ltd. 250MW | 1,360,269,293 | 9,008,773,219 | 6.62 | 827,595,358 | 4,149,262,920 | 5.01 |
| **Total Import** | **6,689,207,555** | **40,171,296,679** | **6.01** | **6,780,854,326** | **37,026,349,447** | **5.46** |

## COMPARISION OF ELECTRICITY PURCHASE FROM RENTAL & QUICK RENTAL PLANTS WITH PREVIOUS YEAR

| Particulars | FY 2019-2020 | | | FY 2018-2019 | | |
|---|---|---|---|---|---|---|
| | Unit Kwh | Amount in Tk. | Cost/kwh | Unit Kwh | Amount in Tk. | Cost/kwh |
| AGGREKO, KHULNA(3 YEARS) LIQUID FUEL | - | - | - | - | - | - |
| AGGREKO, INTERNATIONAL LTD.-GHORASAL (145 MW) | - | - | - | - | - | - |
| AGGREKO, INTERNATIONAL LTD.-B.BARIA (85 MW) | - | - | - | 317,578,028 | 1,297,621,382 | 4.09 |
| AGGREKO, INTERNATIONAL LTD.-ASHUGONJ (95 MW) | - | - | - | 633,939,339 | 2,251,047,415 | 3.55 |
| AGGREKO, INTERNATIONAL LTD.-Khulna (55 MW) | - | - | - | 10,925,440 | 256,434,535 | 23.47 |
| BARKATULLAH ELECTRO DYNAMICS LTD. | 284,768,958 | 952,112,505 | 3.34 | 295,735,116 | 850,781,149 | 2.88 |
| SHAHJIBAZAR POWER CO. LTD. | 440,516,616 | 1,792,127,676 | 4.07 | 474,114,000 | 1,452,597,031 | 3.06 |
| DESH CAMBRIDGE, KUMERGOAN | 64,287,123 | 236,886,291 | 3.68 | 59,592,250 | 180,456,550 | 3.03 |
| ENERGYPRIMA, KUMERGOAN | 136,384,360 | 516,341,479 | 3.79 | 284,333,460 | 812,914,043 | 2.86 |
| ENERGYPRIMA, SHAHJIBAZAR | 115,908,741 | 441,313,171 | 3.81 | 310,288,608 | 971,727,476 | 3.13 |
| ENERGYPRIMA, FENCHUGONJ | 307,712,992 | 1,112,358,546 | 3.61 | 321,997,053 | 1,070,647,221 | 3.33 |
| ENERGYPRIMA, Bogura | 78,662,952 | 283,738,154 | 3.61 | 87,247,220 | 335,685,081 | 3.85 |
| VENTURE ENERGY, BHOLA | 172,416,822 | 684,018,417 | 3.97 | 187,633,112 | 683,927,996 | 3.65 |
| DPA POWER GEN. INT. LTD. | - | - | | 52,152,264 | 1,238,985,404 | 23.76 |
| QUANTUM POWER 100 MW BHERAMARA | - | - | | - | - | - |
| DESH ENERGY100 MW SIDDIRGONJ | - | - | | 51,218,760 | 1,036,977,978 | 20.25 |
| SUMMIT NARAYANGONJ POWER LTD. | 223,216,584 | 2,658,477,107 | 11.91 | 204,833,832 | 3,458,322,584 | 16.88 |
| MAX POWER LTD.-GHORASAL | 151,850,141 | 1,561,450,593 | 10.28 | 254,927,322 | 1,632,409,528 | 6.40 |
| KPCL -UNIT-2 | 280,086,325 | 3,907,312,120 | 13.95 | 326,928,126 | 4,787,479,180 | 14.64 |
| KHANJAHAN ALI POWER LTD. | 91,546,622 | 1,466,836,454 | 16.02 | 175,231,613 | 2,302,054,698 | 13.14 |
| UNITED ASHUGONJ POWER LTD. | - | - | - | 77,028,084 | 953,092,610 | 12.37 |
| QUANTUM POWER NOWAPARA | - | - | - | - | - | - |
| IELCONSOURTIUM & ASSOCIATES | 193,301,761 | 2,815,677,934 | 14.57 | 207,498,854 | 3,483,910,638 | 16.79 |
| R Z POWER LTD. | - | - | | - | - | - |
| ENERGIS POWER CORPORATION LTD. | 7,500,072 | 122,021,384 | 16.27 | 269,937,907 | 3,440,857,228 | 12.75 |
| PRECISION ENERGY LTD. | 218,732,592 | 1,106,804,428 | 5.06 | 114,710,412 | 899,558,013 | 7.84 |
| DUTCH BANGLA POWER & ASSOCIATES LTD. | 188,221,250 | 2,785,839,895 | 14.80 | 183,082,606 | 3,277,361,237 | 17.90 |
| ACRON INFRASTRUCTURE SERVICE LTD. | 90,292,560 | 2,246,199,780 | 24.88 | 364,846,890 | 4,800,413,856 | 13.16 |
| AMNURA(SINHA POWER GENERATION) | 109,202,080 | 1,412,855,301 | - | 225,566,427 | 2,892,996,093 | 12.83 |
| POWER PAC MUTIARA KERANIGONJ | 52,371,672 | 1,923,586,409 | 36.73 | 156,838,536 | 3,028,503,067 | 19.31 |
| NORTHERN POWER | 69,379,654 | 1,351,484,542 | 19.48 | 155,675,824 | 2,220,198,709 | 14.26 |
| AGGREKO, INTERNATIONAL LTD.-BHOLA (95 MW) | 445,528,501 | 2,207,102,989 | 4.95 | - | - | - |
| GBB POWER LTD. | 133,166,952 | 579,797,403 | - | 161,982,576 | 519,273,714 | 3.21 |
| **TOTAL RENTAL & QUICK RENTAL** | **3,855,055,330** | **32,164,342,577** | **8.34** | **5,965,843,660** | **50,136,234,417** | **8.40** |


A seminar on the occasion of 'International Women's Day' organised by BPDB held at Bidyut Bhaban.

# GENERATION COST (BPDB'S OWN POWER PLANT) FOR THE YEAR 2019-2020

| Sl. No. | Generating Plant under Power Station | Capacity | Plant Factor | Net Generation (kWh) | Variable Cost | | | | Fixed Cost | | Total Generation Cost (Tk.) | Gen. Cost Tk/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fuel Cost Tk | Fuel cost Tk/kWh | Variable O & M (Tk.) | Variable O & M Tk/kWh | Total Fixed Cost (Tk.) | Fixed Cost Tk/kWh | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7=(6/5) | 8 | 9=8/5 | 10 | 11=10/5 | 12=6+8+10 | 13=12/5 |
| 1 | KARNAFULI HYDRO POWER STATION | 230 | 41% | 825,190,259 | - | - | 343,856,284 | 0.42 | 1,156,044,603 | 1.40 | 1,499,900,887 | 1.82 |
| | **TOTAL WATER** | **230** | **41%** | **825,190,259** | **-** | **-** | **343,856,284** | **0.42** | **1,156,044,603** | **1.40** | **1,499,900,887** | **1.82** |
| 2 | WIND BASE POWER STATION, KUTUBDIA & HATIYA | - | - | 537,078 | - | - | 180,296 | 0.34 | 12,325,704 | 22.95 | 12,506,000 | 23.29 |
| | **TOTAL WIND** | **-** | **-** | **537,078** | **-** | **-** | **180,296** | 0.34 | **12,325,704** | **22.95** | **12,506,000** | **23.29** |
| 3 | 7.4 MW SOLAR PV POWER PLANT AT KAPTAI | - | - | 9,508,450 | - | - | 730,159 | 0.08 | 106,113,887 | 11.16 | 106,844,045 | 11.24 |
| | **TOTAL SOLAR** | **-** | **-** | **9,508,450** | **-** | **-** | **730,159** | **0.08** | **106,113,887** | **11.16** | **106,844,045** | **11.24** |
| 4 | BAGHABARI POWER STATION | 171 | 21% | 310,884,760 | 528,842,578 | 1.70 | 38,477,311 | 0.12 | 892,113,387 | 2.87 | 1,459,433,276 | 4.69 |
| 5 | GHORASHAL POWER STATION | 740 | 15% | 971,151,414 | 1,254,101,943 | 1.29 | 252,964,922 | 0.26 | 3,412,133,591 | 3.51 | 4,919,200,455 | 5.07 |
| 6 | GHORASHAL POWER STATION | 365 | 76% | 2,416,694,932 | 3,120,812,847 | 1.29 | 252,197,660 | 0.10 | 3,787,115,665 | 1.57 | 7,160,126,172 | 2.96 |
| 7 | CHATTOGRAM POWER STATION, RAWZAN | 420 | 25% | 926,094,540 | 1,646,941,795 | 1.78 | 141,034,113 | 0.15 | 1,684,343,664 | 1.82 | 3,472,319,572 | 3.75 |
| 8 | SHIKALBAHA POWER STATION (Duel Fuel) | 150 | 73% | 958,604,615 | 1,390,331,080 | 1.45 | 175,928,762 | 0.18 | 853,814,467 | 0.89 | 2,420,074,309 | 2.52 |
| 9 | KUMERGOAN GT POWER SYLHET | 20 | 56% | 98,064,120 | 175,163,912 | 1.79 | 37,752,878 | 0.38 | 92,854,734 | 0.95 | 305,771,524 | 3.12 |
| 10 | SYLHET 150 MG PEAKING POWER PLANT | 150 | 47% | 615,675,001 | 944,391,657 | 1.53 | 75,215,508 | 0.12 | 844,532,032 | 1.37 | 1,864,139,198 | 3.03 |
| 11 | FENCHUGANJ 2x 90 MW CCPP (1st & 2nd unit) | 180 | 54% | 848,956,163 | 1,263,635,847 | 1.49 | 112,613,499 | 0.13 | 1,522,462,310 | 1.79 | 2,898,711,657 | 3.41 |
| 12 | SHAHJIBAZAR POWER STATION | 68 | 81% | 480,460,020 | 793,930,022 | 1.65 | 87,361,973 | 0.18 | 504,250,031 | 1.05 | 1,385,542,026 | 2.88 |
| 13 | TONGI POWER STATION | 109 | 0% | - | - | - | 19,841,544 | - | 266,933,977 | - | 286,775,522 | - |
| 14 | SIDDIRGONJ POWER STATION | 210 | 0% | - | 838,064 | - | 60,698,833 | - | 942,013,815 | - | 1,003,550,711 | - |
| 15 | CHADPUR CC POWER PLANT | 163 | 41% | 590,802,399 | 896,105,452 | 1.52 | 170,456,421 | 0.29 | 942,332,468 | 1.60 | 2,008,894,341 | 3.40 |
| 16 | Bhola 225 MW CCPP | 195 | 62% | 1,054,246,227 | 1,176,037,829 | 1.12 | 130,552,878 | 0.12 | 2,384,096,464 | 2.26 | 3,690,687,171 | 3.50 |
| 17 | Shahjibazar 330 CCPP | 330 | 53% | 1,531,469,158 | 1,917,430,791 | 1.25 | 359,380,728 | 0.23 | 3,165,812,595 | 2.07 | 5,442,624,115 | 3.55 |
| 18 | Bibiyana-3 400mw | 218 | 57% | 1,081,545,601 | 1,082,028,923 | 1.00 | 87,861,340 | 0.08 | 510,351,134 | 0.47 | 1,680,241,397 | 1.55 |
| 19 | Shahjibazar 100 P/S | - | - | - | - | | 791,213 | - | 14,028,171 | - | 14,819,384 | - |
| 20 | Bibiyana - South | - | - | - | - | | 125,197 | - | 7,690,007 | - | 7,815,204 | - |
| 21 | SHIKALBAHA 225 MW Shamipur (Duel Fuel) | 225 | 70% | 1,382,986,348 | 1,273,934,052 | 0.92 | 133,140,519 | 0.10 | 1,667,316,366 | 1.21 | 3,074,390,936 | 2.22 |
| 22 | SBU Haripur | 40 | 1% | 1,883,600 | - | - | - | - | 245,688,015 | 130.44 | 245,688,015 | 130.44 |
| | **TOTAL GAS** | **3,746** | **40%** | **13,269,518,898** | **17,464,526,792** | **1.32** | **2,136,395,299** | **0.16** | **23,739,882,894** | 1.79 | **43,340,804,984** | **3.27** |
| 22 | BARAPUKURIA POWER STATION | 220 | 16% | 307,464,596 | 1,533,006,616 | 4.99 | 31,064,397 | 0.10 | 1,244,226,681 | 4.05 | 2,808,297,694 | 9.13 |
| 23 | BARAPUKURIA POWER STATION | 274 | 73% | 1,759,569,881 | 8,773,147,554 | 4.99 | 177,776,490 | 0.10 | 2,675,856,257 | 1.52 | 11,626,780,301 | 6.61 |
| | **TOTAL COAL** | **494** | **48%** | **2,067,034,477** | **10,306,154,169** | **4.99** | **208,840,887** | **0.10** | **3,920,082,939** | 1.90 | **14,435,077,994** | **6.98** |
| 24 | KHULNA POWER STATION | - | - | - | - | - | 7,846,516 | - | 742,637,990 | - | 750,484,506 | - |
| 25 | BAGHABARI 50 PEAKING POWER PLANT | 50 | 10% | 42,524,786 | 480,186,382 | 11.29 | 13,150,554 | 0.31 | 349,267,171 | 8.21 | 842,604,107 | 19.81 |
| 26 | BERA PEACKING POWER PLANT | 71 | 2% | 13,027,401 | 179,570,297 | 13.78 | 11,140,776 | 0.86 | 351,244,154 | 26.96 | 541,955,227 | 41.60 |
| 27 | HATHAZARI PEACKING POWER PLANT | 100 | 1% | 4,488,554 | 283,709,805 | 63.21 | 11,034,182 | 2.46 | 920,242,718 | 205.02 | 1,214,986,705 | 270.69 |
| 28 | DOHAZARI PEACKING POWER PLANT | 100 | 12% | 104,803,000 | 1,101,650,828 | 10.51 | 33,285,122 | 0.32 | 959,161,094 | 9.15 | 2,094,097,044 | 19.98 |
| 29 | FARIDPUR PEACKING POWER PLANT | 50 | 9% | 39,499,230 | 433,239,653 | 10.97 | 56,234,588 | 1.42 | 479,222,556 | 12.13 | 968,696,797 | 24.52 |
| 30 | GOPALGONJ PEAKING POWER PLANT | 100 | 6% | 48,533,394 | 601,216,280 | 12.39 | 84,339,254 | 1.74 | 800,998,164 | 16.50 | 1,486,553,697 | 30.63 |
| 31 | DAUDKANDI PEACKING POWER PLANT | 50 | 2% | 7,643,529 | 104,028,084 | 13.61 | 10,888,307 | 1.42 | 665,206,793 | 87.03 | 780,123,184 | 102.06 |
| 32 | SHANTAHAR 50MW POWER PLANT | 50 | 6% | 26,921,269 | 303,236,093 | 11.26 | 16,323,522 | 0.61 | 288,513,343 | 10.72 | 608,072,958 | 22.59 |
| 33 | KATAKHALI 50MW POWER PLANT | 50 | 9% | 41,524,016 | 452,235,860 | 10.89 | 14,249,256 | 0.34 | 320,043,643 | 7.71 | 786,528,759 | 18.94 |
| 34 | CHAPAINOBABGONJ PEAKING PP 100 MW AMNURA | 100 | 19% | 168,363,260 | 1,773,795,768 | 10.54 | 15,322,622 | 0.09 | 1,085,476,357 | 6.45 | 2,874,594,747 | 17.07 |
| | **SUB. TOTAL HFO** | **721** | **8%** | **497,328,439** | **5,712,869,049** | **11.49** | **273,814,699** | **0.55** | **6,962,013,983** | **14.00** | **12,948,697,731** | **26.04** |
| 35 | BHERAMARA POWER STATION | 60 | 1% | 3,890,129 | 113,150,976 | 29.09 | 3,798,979 | 0.98 | 319,368,778 | 82.10 | 436,318,733 | 112.16 |
| 36 | BARISHAL GAS TURBINE POWER STATION | 40 | 0% | 1,071,952 | 52,578,048 | 49.05 | 6,403,784 | 5.97 | 199,592,113 | 186.20 | 258,573,946 | 241.22 |
| 37 | BARISHAL DIESEL POWER STATION | | | - | - | | - | - | 35,448,780 | - | 35,448,780 | - |
| 38 | BHOLA DIESEL POWER STATION | | | - | - | | 36,750 | | 14,352,321 | - | 14,389,071 | - |
| 39 | SAYEDPUR GAS TURBINE POWER STATION | 20 | 5% | 9,215,910 | 285,643,031 | 30.99 | 5,370,066 | 0.58 | 112,919,264 | 12.25 | 403,932,361 | 43.83 |
| 40 | RANGPUR GAS TURBINE POWER STATION | 20 | 2% | 3,378,143 | 113,952,270 | 33.73 | 2,769,877 | 0.82 | 127,468,804 | 37.73 | 244,190,951 | 72.29 |
| 41 | SAYEDPUR DIESEL GENERATOR | | | - | - | | - | | 325,684 | - | 325,684 | - |
| 42 | THAKURGOAN DIESEL GENERATOR | | | - | - | | - | | - | - | - | - |
| 43 | KUTUBDIA DIESEL GENERATOR | 2 | 0% | 45,313 | 9,272,623 | 204.63 | 7,486,390 | 165.22 | 17,483,025 | 385.83 | 34,242,038 | 755.68 |
| 44 | SANDIP DIESEL GENERATOR | 3 | 0% | - | - | | - | - | 5,319,178 | - | 5,319,178 | - |
| 45 | HATIYA DIESEL GENERATOR | 2 | 19% | 3,735,613 | 84,977,608 | 22.75 | 9,555,906 | 2.56 | 14,745,560 | 3.95 | 109,279,074 | 29.25 |
| 46 | SHIKALBAHA POWER STATION (Duel Fuel) | | | - | - | | 277,961,057 | - | 412,729,661 | - | 690,690,717 | - |
| 47 | SHIKALBAHA 225 MW Shamipur (Duel Fuel) | | | 336,720 | 8,615,976 | 25.59 | 32,416 | 0.10 | 260,418 | 0.77 | 8,908,810 | 26.46 |
| 48 | DGD, Dhaka | | | - | - | | 1,272,278 | | 60,902,594 | | 62,174,872 | |
| | **SUB. TOTAL DIESEL** | **146** | **2%** | **21,673,780** | **668,190,532** | **30.83** | **314,687,503** | **14.52** | **1,320,916,180** | **60.95** | **2,303,794,215** | **106.29** |
| | **GRAND TOTAL** | **5,337** | **36%** | **16,690,791,381** | **34,151,740,542** | **2.05** | **3,278,505,126** | **0.20** | **37,217,380,189** | **2.23** | **74,647,625,857** | **4.47** |

Placing of floral wreath at Shahid Minar on International Mother Language Day and National Martyrs Day.

Prize giving ceremony of 34th Annual Athletic competition of BPDB.

Placing of floral wreath at the Mausoleum of Father of the Nation Bangabandhu Sheikh Mujibur Rahman at Tungipara by BPDB Chairman Engr. Md. Belayet Hossain.


Placing of floral wreath at National Mausoleum at Saver on Victory Day.

Prize giving ceremony of annual cultural program of BPDB.

Dhaka Premier Division Volleyball League Champion BPDB Volleyball team with Championship Trophy.

বাংলাদেশ
বিদ্যুৎ উন্নয়ন বোর্ড

# Primary Grid System of Bangladesh

As on **June 2020**

Directorate of System Planning, BPDB

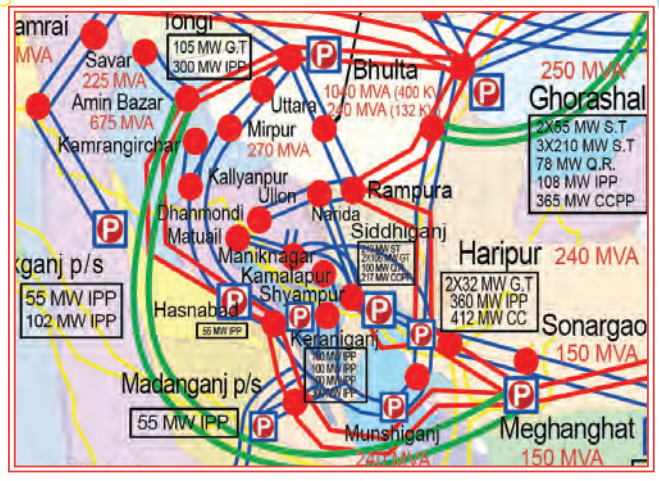
**Legend :**

- 400 KV LINE
- 230 KV LINE
- 132 KV LINE
- Existing Power Station
- Existing Grid Sub-Station
- Existing HVDC Grid Sub-Station

N

SCALE 0 10 20 30 40 50 100 KM

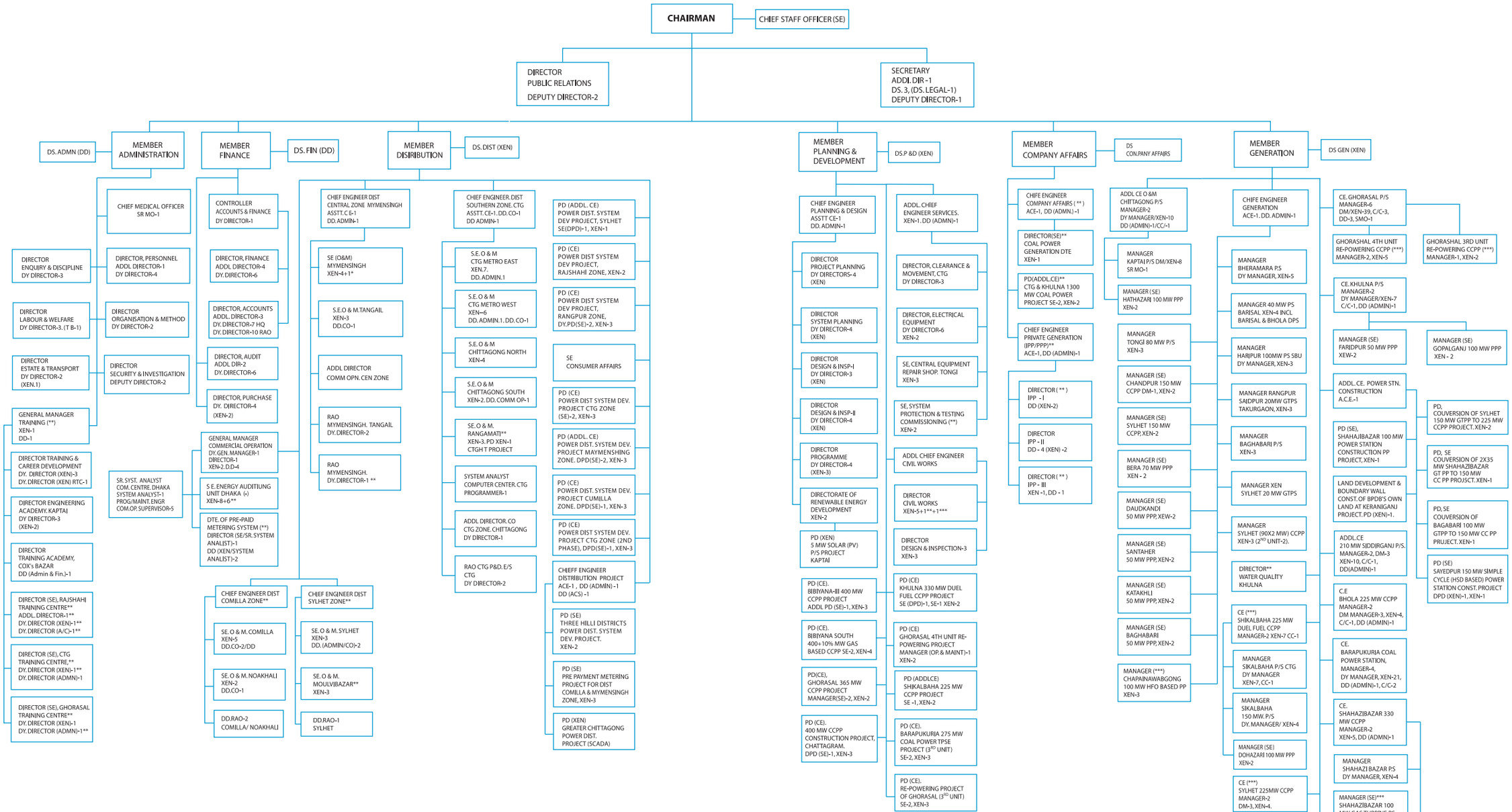
Tetulia
8 MW Solar
Panchagorh
164 MVA
Thakurgaon
191 MVA
Jaldhaka
150 MVA
Lalmonirhat
223 MVA
20 MW G.T
Saidpur
207 MVA
Rangpur
281 MVA
Kurigram
150 MVA
Purbasadipur
211 MVA
20 MW G.T
2 X 125 MW COAL
275 MW COAL
Barapukuria
750 MVA (230 KV)
123 MVA (132 KV)
Palashbari
232 MVA
Mahahtanghar
240 MVA
Bogura Old
390 MVA
Joypurhat
164 MVA
Santaher
50 MW
Bogura New
750 MVA
Niamatpur
141 MVA
Naogaon
225 MVA
Ch. Nawabganj
211 MVA
Amnura
150 MVA
50 MW QR
104 MW
20 MW (Rental)
22 MW (Rental)
113 MW IPP
Sherpur (Bogura)
150 MVA
52 MW IPP
Rajshahi North
240 MVA
Rajshahi
240 MVA
Natore
240 MVA
Katakhali
50 MW QR
50 MW RE
Rooppur
82 MVA
Pabna
232 MVA
Ullapara
11 MW
Shahajadpur
250 MVA
Sirajganj
241 MVA
210 MW CCPP
220 MW CCPP
220 MW CCPP
414 MW CCPP
22 MW IPP
Tangail
356 MVA
BERA 71
MW PEAK
171 MW
52 MW PEAK
200 MW IPP
2X500 MW
HVDC
Ishwardi
675 MVA (230 KV)
150 MVA (132 KV)
Baharampur,
India
Baghabari
225 MVA
Bheramara
20 MW G.T
410 MW CCPP
Bheramara Grid
102 MVA
Kushtia
240 MVA
Chunadanga
150 MVA
Faridpur
281 MVA
54 MW
PEAKING
Jhenaidah
240 MVA
Magura
82 MVA
Narail
150 MVA
Jashore
323.3 MVA
40 MW
100 MW
Noapara
143 MVA
Benapole
150 MVA
40 MW Q.R
105 MW RENTAL
100 MW HSD
Kh. Central
192 MVA
115 MW KPCL
230 MW NWPGCL
Kh. South
450 MVA
Gallamari
82 MVA
Rupsa
105 MW
Satkhira
161 MVA
Mongla
82 MVA
Bagerhat
157 MVA
105 MW
Bhandaria
82 MVA
Gopalganj
650 MVA (400 KV)
161 MVA (132 KV)
109 MW
PEAKING
Madaripur
191 MVA
Shariatpur
240 MVA
Barishal (N)
600 MVA (230 KV)
240 MVA (132 KV)
Barishal
150 MVA
110 MW HFO
Patuakhali
191 MVA
Payra
622 MW
60 MVA
Bhola
194 MW CC
95 MW
33 MW
Sherpur
175 MVA
Jamalpur
232 MVA
95 MW IPP
115 MW IPP
200 MW HFO
Mymensingh
360 MVA
RPCL
210 MW C.C.
Bhaluka
240 MVA
Shorisha Bari
3 MW SOLAR
Netrokona
157 MVA
Kishoreganj
207.6 MVA
Kaliakoir
650 MVA (400/132 KV)
1040 MVA (400/230 KV)
Kodda p/s
Kodda Ghorashal
225 MVA
149 MW GT
105 MW GT
149 MW IPP
52 MW IPP
33 MW IPP
Kabirpur
360 MVA
Rajendrapur
240 MVA
Joydevpur
270 MVA
53 MW GT
3X150 MW S.T
225 MW CC
360 MW CC SOUTH
55 MW RENTAL
51 MW RE
195 MW IPP
360 MW North
150 MW IPP
Ashuganj
300 MVA (400 KV)
Basundhara
Narsingdi
225 MVA
Dhamrai
150 MVA
Tongi
105 MW G.T
300 MW IPP
Savar
225 MVA
Amin Bazar
675 MVA
Manikganj
150 MVA
Kamrangirchar
Uttara
Mirpur
270 MVA
Bhulta
1040 MVA (400 KV)
240 MVA (132 KV)
250 MVA
Ghorashal
2X55 MW S.T
3X210 MW S.T
78 MW Q.R.
108 MW IPP
365 MW CCPP
Kallyanpur
Ullon
Rampura
Nerida
Dhanmondi
Matuail
Siddhiganj
Manikganj p/s
55 MW IPP
102 MW IPP
Manikhagar
Kamalapur
Shyampur
Haripur
240 MVA
2X32 MW G.T
360 MW IPP
412 MW CC
Hasnabad
55 MW IPP
Keraniganj
Sonargaon
150 MVA
Madanganj p/s
55 MW IPP
Meghanghat
150 MVA
52 MW HFO
200 MW HSD
450 MW CC IPP
305 MW CC IPP
100 MW IPP
51 MW IPP
54 MW IPP
Sitalakheya
102 MW IPP
Ramganj
150 MVA
225 MVA
150 MW CC
200 MW IPP
52 MW IPP
25 MW SIPP
33 MW SIPP
Chowmuhoni
270 MVA
113 MW IPP
Feni
240 MVA
114 MW IPP
22 MW SIPP
11 MW SIPP
Cumilla North
450 MVA
52 MW
Cumilla South
300 MVA
Chandpur
150 MW CC
200 MW IPP
Chauddagram
150 MVA
Suryamaninagor,
India
Sunamganj
78 MVA
Chhatak
81 MVA
Sylhet
285 MVA
20 MW GT
231 MW CCPP
10 MW IPP
25 MW IPP
Beanibazar
150 MVA
Kulaura
82 MVA
341 MW IPP
400 MW CCPP
Fenchunganj P/S
Bibiyana
1040 MVA (400 KV)
97 MW CCPP
51 MW IPP
104 MW CCPP
44 MW IPP
163 MW IPP
11 MW REB
2 X 35 MW G.T
86 MW IPP
50 MW IPP
330 MW CCPP
236 MVA
Fenchunganj
300 MVA
Shahjibazar
70 MW O.P.
Sreemangal
101 MVA
B. Baria
281 MVA
Khagrachori
78 MVA
Rangamati
82 MVA
Baroirhat
150 MVA
BSRM
280 MVA
AKSPL
380 MVA
25 MW GT
2X210 MW S.T
2X40 MW HYDRO
3X50 MW HYDRO
7 MW SOLAR
20 MVA
Hathazari
600 MVA (230 KV)
195 MVA (132 KV)
98 MW Peak
Raujan
Kaptai
Chandraghona
82 MVA
Baroaulia
240 MVA
Madunaghat
128 MVA
Kulsi
240 MVA
Bakulia
203 MVA
54 MW G.T
108 MW G.T
110 MW G.T
105 MW
Halishahar
190 MVA
Shikalbaha
600 MVA
Dohazari
150 MVA
102 MW PEAK
Juldah
82 MVA
100 MW
100 MW
100 MW
Shahmirpur
128 MVA
Anowara
300 MW IPP
Sikalbaha
225 MW IPP
Mararbari
82 MVA
Cox's Bazar
157 MVA
Teknaf
20 MW SOLAR
Bay of Bengal



# ORGANISATION CHART OF BANGLADESH POWER DEVELOPMENT BOARD

## (SHOWING POSITION DOWN TO XEN / DD AND EQUIVALENT)

**As on June, 2020**




### SUMMARY (INCLUDING PROJECTS)

CHAIRMAN-1, MEMBER-6, CHIEF ENGINEER-21+5**, G.M/ADDL. CHIEF ENGINEER-11+1**
CONTROLLER-1, CMO-1, MANAGER/DIRECTOR (TECH)/SE/DGM-114+13**, SR.SYSTEM ANALYST-1+1**,
SECRETARY/DIRECTOR (NON TECH)-13+2**, ADDL.DIRECTOR-13+1**,
XEN/DD/DS/DM-337+31** DD (NON TECH)-114+8**, SYSTEM ANALYST-2+1**
PRO/M.E/COMPUTER OPERATION SUPERVISOR-6, CC-10, SMO-3

**TOTAL SANCTIONED STRENGTH-20,171**

(*) THERE IS NO APPROVAL OF THE GOVERNMENT AFTER 30 JUNE 1991 FOR THE OFFICES UNDER ENERGY AUDITING UNIT.

(**) THERE IS NO APPROVAL AS YET FROM THE GOVERNMENT.

(***) SET-UP ISSUED FROM APPROVED PP PROVISION AS PER REQUIREMENT THE MANPOWER OF ABOVE STARS (*, **, ***) ARE NOT INCLUDING IN THE SET-UP STRENGTH.

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