শেখ হাসিনার উদ্যোগ
ঘরে ঘরে বিদ্যুৎ

Annual Report
2022-23

Bangladesh Power Development Board

শেখ হাসিনার উদ্যোগ
ঘরে ঘরে বিদ্যুৎ

Annual Report
2022-23

Bangladesh Power Development Board

Bangladesh Power Development Board (BPDB)

An Organisation of Excellence

Vision

To deliver uninterrupted quality power to all.

Mission

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

Objective

- 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

Bangladesh Power Development Board (BPDB), the single largest utility in the power sector, is proud to present its Annual Report for the financial year 2022-2023.

Power sector plays a crucial role in the socio-economic development to ensure economic growth and energy security. Government has a vision to achieve total generation capacity of 40,000 MW by 2030 and 60,000 MW by 2041. To achieve its vision, strategic planning has been prepared which includes diversified fuel-based sustainable generation, expansion and upgradation of transmission & distribution systems, promotion of private participation, electricity import from neighboring countries, improving energy efficiency and conservation measures.

Under the implementation of this plan, the total grid-based generation capacity has increased to 25,951 MW at present, marking a sixfold increase compared to the 4,942 MW capacity in 2009. Additionally, about 15,000 MW new capacity will be added from fossil fuel-based power plants by 2030 to meet the increasing power demand. For secured, sustainable and environment, friendly energy, carbon free Hydrogen and Ammonia co-firing with fossil fuels have been considered to be incorporated in near future. In pursuance of enhanced regional cooperation, currently 2,656 MW power is being imported from India. New regional initiative includes 40 MW power import from Nepal by 2024 and 500 MW power from GMR Upper Karnali, Nepal by 2030 with their PSA to be signed soon. Another 683 MW power from Sunkoshi-3 hydro plant, Nepal are also under planning. Apart from this, more cross-border power trade initiatives are under consideration with neighboring countries.

Under fuel diversification program, gas-based generation capacity is reduced to 44% from 88%, while the share of other fuel like coal, liquid fuel and renewable has been increased significantly. Along with efforts from the public sector, collaboration between private & public-private companies has ensured financing of $33 billion in power sector in the last 14 years.

Noticeable progress has been achieved in various fields of BPDB during FY 2022-23. BPDB, as a single buyer, has resumed its initiatives to combat increasing electricity demands by addition of 2,253 MW (including IPPs and power import) in the FY 2022-23. The peak power generation during FY 2022-23 was 15,648 MW and total electricity generation was 88,450 GWh. In this FY, distribution system loss of BPDB stands at 6.4%. Aligning with the nationwide digitalization, BPDB has integrated Enterprise Resource Planning (ERP) software within its organizational practices to promote efficiency and to enable data driven decision making.

The world is moving forward to greener energy sources in response to climate change and to protect global environment. IEA study, net zero scenario shows that contribution of renewable energy-based power generation will be 69% by 2030 and 81 % by 2050 mostly in wind and solar. Honorable Prime Minister expressed her hope to have 40% energy from renewable sources by 2041. Aligning with this target, initiatives for methodological development of renewable and nuclear-based power generation have been taken. Under these initiatives, several renewable energy projects have already been implemented and are providing 459 MW power to national grid. As per ongoing plan, new renewable energy generation of capacity 3,600 MW will be added by 2030. Two nuclear power plant units having combined capacity of 2,400 MW at Rooppur Pabna are under construction which will be commissioned in 2024-2025.

As the vanguard organization of power sector, BPDB devotedly implemented the government's target. BPDB has provided a significant support to other power entities as a mother organization and relentlessly serving the nation since its formation. BPDB is helping to navigate these efforts as a power producer and front liner.

These achievements are direct results of our employees' efforts, organizational skills and sheer determination and assistance from the power sector, IPPs and other stakeholders. The goal of BPDB is to serve the citizens of Bangladesh and provide them with a clean, reliable quality power at an affordable price. BPDB Annual Report 2022-23 will help with sufficient information to those who need power sector information.

As we move forward, BPDB remains dedicated to innovation, sustainability, and excellence, and will continue to illuminate the path towards a sustainable future.

Md Mahbubur Rahman
Chairman
Bangladesh Power Development Board

CONTENTS

About BPDB | Highlights | Key Statistics

Present Board

(November, 2023)

Md Mahbubur Rahman
Chairman

SK Aktar Hossain
Member (Finance)

Mahmudul Kobir Murad
Member (Administration)

S M Wazed Ali Sardar
Member (Generation)

Md. Mizanur Rahman
Member (Distribution)

Pallabi Zaman
Member (P & D)

Member (Company Affairs)

About BPDB

TThe Bangladesh Power Development Board (BPDB), a government-owned entity, was formed on May 31, 1972 by Presidential Order No. 59 after bifurcation of erstwhile Bangladesh Water and Power Development Authority (WAPDA). BPDB stands as the cornerstone of Bangladesh's quest for a robust and sustainable power sector. BPDB is entrusted with the formidable responsibility of planning, coordinating the nation's power generation and demand, transmission, and distribution endeavors.

BPDB had started its operation with generation capacity of only 500 MW. With a relentless commitment to meeting the escalating energy demands, the grid-based installed power generation capacity of the country increased to 24,911 MW, and a total of 28,134 MW including captive and off-grid HFO & renewable energy, at the end of the FY 2022-2023.

As a part of reform and sector restructuring process, transmission sector was vertically separated as a subsidiary of BPDB and distribution sector was horizontally separated to create new distribution entities in capital city (DPDC & DESCO) and rural areas (REB). Gradually, 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 PLC (NESCO)

BPDB also formed Joint Venture with other organization/company as part of continuous development of power sector. The JV's with BPDB are:

- ☑ B-R Powergen Ltd. (BRPL) (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 the nodal agency 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 expansion plan;
- Preparation of distribution expansion plan for its jurisdiction;
- Implementation of Generation & Distribution Projects as approved by the Government;
- Power import from neighboring countries as a single buyer.

With a visionary outlook, meticulous generation expansion plan has been prepared to infuse a remarkable 11,807 MW capacity from July 2023 to December 2025, out of which BPDB will directly manage 1,324 MW capacity addition in public sector and 4,296 MW through private sector.

Along with comprehensive generation plan, BPDB also adopted distribution plan within its four distribution zones. In FY 2022-23, BPDB's bulk energy sale is 84,450 GWh and retail sales of its four distribution zones is 12,070 GWh, which comprises 15.27% of total energy sales. BPDB's main focus in distribution sector is to provide uninterrupted quality power to its consumers. All S&Ds within its four distribution zones are tirelessly working towards this goal. To further enhance the efficiency and effectiveness of the distribution sector, a

comprehensive study is being conducted with an aim to equip the distribution sector with smart solutions and modern technologies to ensure a reliable and seamless supply of electricity.

During the Financial Year under report (2022-23) Chairman and Members of the Board:

Chairman
Mr. Md Mahbubur Rahman (From 31.01.2022)

Member (Administration)
Mr. Md. Sayed Kutub (Upto 06.10.2022)
Mr. Sk. Aktar Hossain (From 07.10.2022 to 13.11.2022)
Mr. Mahmudul Kabir Murad (From 14.11.2022)

Member (Finance)
Mr. SK Aktar Hossain (From 17.02.2021)

Member (Generation)
Mr. Md. Ashraful Islam (Upto 22.09.2022)
Mr. Nazmul Haque (From 23.09.2022 to 19.10.2022)
Mr. S. M. Wazed Ali Sardar (From 20.10.2022)

Member (Distribution)
Mr. C. F. K. Musaddek Ahmed (From 24.07.2022 to 31.01.2023)
Mr. Mizanur Rahman (From 07.02.2023)

Member (Planing & Development)
Mr. Dhurjjati Prasad Sen (Upto 31.01.2023)
Mr. S. M. Wazed Ali Sardar (From 01.02.2023 to 06.02.2023)
Ms. Nira Mazumder (From 07.02.2023 to 17.05.2023)
Mr. Mizanur Rahman (From 17.05.2023)

Member (Company Affairs)
Ms. Dewan Samina Banu (Upto 31.07.2022)
Mr. Nazmul Haque (From 01.08.2022 to 29.11.2022)
Mr. S. M. Wazed Ali Sardar (31.11.2022 to 06.02.2022)
Mr. Shamsul Haque (From 07.02.2023)

HIGHLIGHTS

In the fiscal year 2022-23, the Bangladesh Power Development Board (BPDB) embarked on a resolute journey to redefine the energy landscape of the nation. With unwavering commitment and strategic acumen, 3,149 MW new generation capacity have been added during this fiscal year, which increased the total generation capacity to 24,911 MW and annual growth of generation capacity became 10.8%. Out of this new capacity addition, BPDB installed 220 MW of its own and 2,033 MW through contracted capacity of IPPs & Power Import from Adani Power Ltd. and the remaining 896 MW was installed by APSCL, BIFPCL and B-R Powergen Ltd. The maximum generation was 15,648 MW and the total energy generation was 88,450 GWh (including purchase by REB from SIPP). These figures are 5.86% and 3.32% higher than the previous year, respectively.

Diversified fuel-based power generation expansion plans are adopted to meet the ever growing electricity demand in Bangladesh. As a part of these plans, 29 power generation projects of capacity 10,881 MW are now under construction, out of which, BPDB is directly implementing 5 projects of capacity 730 MW and 17 projects of capacity 4,230 MW through IPP sector. The plan envisages around 20,416 MW new generation addition from July 2023 to December 2027, out of which 728 MW capacity has already been added up to September 2023.

In this fiscal year, BPDB sold bulk energy of 84,450 GWh to the distribution utilities including BPDB's own distribution zones as single buyer, which was 3.48% higher than the previous year. Retail sales of BPDB's four distribution zones was 12,070 GWh, which was 1.02% less than the previous year. Distribution system loss without 230 & 132 kV consumers of BPDB came down to 7.92% from 8.10% of previous year and with 230 & 132 kV consumers of BPDB Distribution system loss became 6.40%. Collection/Import (C/I) ratio became 93.96%, that was 95.08% in previous year. Per capita generation and consumption (grid) was 518 kWh and 464 kWh. Per capita generation was 602 kWh including captive and off-grid renewable energy.

KEY STATISTICS

S.N.	Particulars	Year 2021-22	Year 2022-23	% Change over the previous year
1	**Installed Capacity of Power Plants as of June (MW):**			
	a) Public Sector			
	i) BPDB	6,013	6233	3.66
	ii) APSCL	1,428	1394	-2.38
	iii) EGCB	957	957	0.00
	iv) RPCL	182	182	0.00
	v) NWPGCL	1,401	1401	0.00
	vi) B-R Powergen Ltd. (BRPL)	149	312	109.40
	b) Joint Venture (BCPCL)	1,244	1861	49.60
	c) Private Sector:			
	i) IPP/SIPP	8,556	8,494	-0.72
	ii) Rental	424	373	-12.03
	iii) NENP (No Electricty No Payment)	717	797	-
	d) BREB (for PBS's only)	251	251	0.00
	e) Power Import	1,160	2,656	128.97
	System Total Installed Capacity (MW)	22,482	24,911	10.80
2	Maximum Peak Generation (MW)	14,782	15,648	5.86
3	Maximum Peak Demand (MW) (forcasted)	15,800	17,100	8.23
4	**Net Energy generation (MkWh):**			
	a) i) Public Sectors	32,047	34,698	8.27
	ii) Joint Venture	3,998	7,647	91.27
	iii) Private Sectors (IPP, SIPP, & Rental)	40,174	34,253	-14.74
	iv) Power Import	7,712	10,425	35.18
	iv) Total Generation (In account of Single Buyer)	83,931	87,024	3.68
	b) REB (for PBS's only)	1,676	1,426	-14.91
	c) System Total Generation (MkWh)	85,607	88,450	3.32
5	Per Unit Generation Cost in Public & Private (Tk/kWh)	8.54	11.02	-100.00
6	a) Fuel Cost for Thermal Plants in Public Sector (MTk)	80,357	160,858	100.18
	b) Per Unit fuel Cost for thermal Plants (Tk/kWh)	2.51	4.63	84.61
7	Annual Plant Factor of Public Sector's Power Plants (%)	39.70	41.03	3.36
8	System load factor (%)	64.82	63.49	-2.05
9	BPDB's Commercial Activities as Single Buyer :			
	a) Bulk Sales Unit to Utilities (MkWh)	81,606	84,450	3.48
	b) Bulk Billing Amount (MTk)	428,605	492,652	14.94
	c) Bulk Collection Amount (MTk)	418,075	464,294	11.06
	d) Accounts Receivables to Utilities (MTk)	89,860	41,839	-53.44
	e) Average Bulk Tariff (Tk./kWh)	5.08	5.94	16.93
10	Transmission Loss (%)	2.89	3.07	6.07
11	Ave. Bulk Electricity Supply cost Taka/kWh	8.96	11.51	-100.00
12	BPDB's Commercial Activities with in Distribution Zones :			
	a) Energy Imports for Retail Sale (MkWh)	13,015	12,895	-0.92
	b) Retail Sales Unit (MkWh)	12,195	12,070	-1.02
	c) Retail Billing Amount (MTk)	88,297	93,242	5.60
	d) Retail Collection Amount (MTk)	89,596	93,600	4.47
	e) Accounts Receivables to Retail Consumers (MTk)	13,517	13,149	-2.72
	f) Collection/Bill Ratio (%)	101.47	100.38	-1.07
	g) Collection/Import Ratio (%)	95.08	93.96	-1.18
	h) Distribution System loss (%) (at 33 kV)	8.10	7.92	-2.22
13	Transmission & Distribution (T & D) system Loss (%)	10.41	10.33	-0.77
14	Total Number of consumers of BPDB (Nos.)	3,670,816	3,980,433	8.43
15	Total Population in the Country (Million)	165	170.79	3.51
16	Per capita generation (kWh) (grid)	518	518	-0.02
17	Per capita Consumption (kWh) (grid)	464	464	0.03
18	Net profit/(loss) (MTk)	-32,327	-	-100.00

Note : Maximum Denamd is shown as per Power System Master Plan 2016.

Chapter 1

Overview on BPDB Operation

Power Demand

The highest electricity generation peak reached a record of 15,648 MW on 19 April 2023, marking a notable increase of 5.86% compared to the preceding year. This surge in peak generation reflects a substantial growth within a year, showcasing progress and improved capacity in the power sector.

Load Factor and Load Management

Electricity demand in the system fluctuates throughout the day and night. The highest demand is observed during 5 pm to 11 pm, known as the 'peak hour,' while the rest of the time is categorized as the 'off-peak hour.' The degree of this fluctuation is quantified using the Load Factor, defined as the ratio of average demand to the maximum demand. Maintaining a higher Load Factor is economically beneficial as it allows for more efficient use of plant capacity. Therefore, consistent load management is crucial year-round to optimize power plant capacity utilization and minimize generation costs.

Load management involves efforts to reduce or minimize certain electricity-consuming activities during peak hours. Shifting these activities from high-demand to low-demand periods through specific mechanisms is the essence of load management. In terms of load management:

- A two-part tariff system is introduced for 3-phase consumers (both low tension and high tension), where the price during peak hours is significantly higher than off-peak hours. This pricing structure incentivizes consumers to reduce usage during peak times.
- Holiday staggering is implemented to coordinate closures of industries, markets, and shopping malls based on specified holidays for different areas. This approach helps distribute demand more evenly.
- Consumers are motivated to adopt energy-efficient practices, such as using energy-efficient bulbs, electric appliances, pumps, etc., to reduce overall energy consumption.
- Consumers are encouraged to set their air-conditioner's temperature at 25 degrees Celsius, promoting energy conservation and reducing peak demand.

Power Generation

Sector wise Generation Capacity

In June 2023, total installed generation capacity was 24,911 MW. This comprised 6,233 MW from the BPDB in a total of 10,479 MW from public sectors, 1,861 MW from Joint Ventures (JVs), 8,494 MW from IPP/SIPP, 1,170 MW from rental and NENP (No Electricity No Payment) Power Plants, 251 MW under REB (for PBS) and power import from India (2,656 MW).

The sector wise generation capacity is shown below:

Installed Capacity of Power Plants as of 30 June 2023 (MW)	
Public Sector	
BPDB	6233
APSCL	1394
EGCB	957
RPCL	182
NWPGCL	1401
B-R Powergen Ltd. (BRPL)	312
Joint Venture (BCPCL)	1861
Private Sector	
IPP/SIPP	8,494
Rental	373
NENP (no Electricity No Payment)	797
REB (for PBS's only)	251
Power Import	2,656
System Total Installed Capacity (MW)	**24,911**

Installed Capacity by Plant & Fuel Type

The power generation is diversified across various types of plants, each contributing to the nation's energy portfolio. Combined cycle plants contribute the most with 8,363 MW (33.57% of total capacity), followed by Reciprocating engines with a significant 8,023 MW (32.21% of total capacity). Steam turbines contribute 3,742 MW (15.02% of total capacity), Gas turbines add 1,438 MW (5.77% of total capacity), and Hydro power plant provides 230 MW (0.92% of total capacity). Solar PV systems contribute 459 MW (1.84% of total capacity), while power imports add 2,656 MW (10.66% of total capacity).

Bangladesh's power generation is sourced from a diverse range of fuels. Bangladesh's power generation is predominantly fueled by gas, making a significant share with 11,372 MW (45.65%). Furnace oil follows with 6,492 MW (26.06%), coal provides 2,692 MW (10.81%), and power imports contribute 2,656 MW (10.66%). Diesel adds 1,010 MW (4.05%), Hydro contributes 230 MW (0.92%), and solar PV systems contribute 459 MW (1.84%).

The power generation capacity of Bangladesh amounts to 24,911 MW, encompassing a diverse range of sources, each playing a vital role in meeting the country's power needs.

By Type of Plant	
Hydro	230 MW (0.92%)
Steam Turbine	3,742 MW (15.02%)
Gas Turbine	1,438 MW (5.77%)
Combined Cycle	8,363 MW (33.57%)
Reciprocating Engine	8,023 MW (32.21%)
Solar PV	459 MW (1.84%)
Power Import	2,656 MW (10.66%)
TOTAL	**24,911 MW (100%)**

By Type of Fuel	
Hydro	230 MW (0.92%)
Gas	11,372 MW (45.65%)
Furnace Oil	6,492 MW (26.06%)
Diesel	1,010 MW (4.05%)
Coal	2,692 MW (10.81%)
Solar PV	459 MW (1.84%)
Power Import	2,656 MW (10.66%)
TOTAL	**24,911 MW (100%)**

Sector wise Energy Generation

Total net energy generation in FY 2022-23 was 88,450 MkWh, which was about 3.32% higher than previous year's net generation of 85,607 MkWh. In the public sector, there was a net energy generation of 34,698 MkWh, and BPDB's own power plants contributed 17,433 MkWh to this total. Net energy generation in the private sector (including REB) is 35,679 MkWh and 7,647 MkWh from Joint Venture. Another 10,425 MkWh was imported from India (Including Adani Power Ltd, Jharkhand, India).

The sector wise electricity generation is shown below:

Total Net Electricity Generation in FY 2022-23 (MkWh)	
Public Sector	
BPDB	17,433
APSCL	6,983
EGCB	4,153
RPCL	941
NWPGCL	4,700
B-R Powergen Ltd. (BRPL)	506
CPGCBL	-17
Joint Venture	7,647
Private Sector	
IPP	30,447
SIPP/Rental/Q.Rental/NENP	3,806
REB (for PBS's only)	1,426
Power Import	10,425
System Total Net Generation (MkWh)	**88,450**

Energy Generation by Fuel Type

Gas contributes the most to net energy generation, contributing significantly with 46,013 MkWh or 52.02% of the total energy output. Furnace oil comes in second place, making up 20.71% of the total with a contribution of 18,323 MkWh. Coal also represents a significant portion, generating 10,081 MkWh, or 11.40% of the total energy. Import stands at 10,425 MkWh, making up 11.79% of the total energy generated. Hydro contributes 610 MkWh, representing 0.69% of the total, renewable sources contribute 671 MkWh, accounting for 0.76%, and HSD adds 2,327 MkWh, constituting 2.63% of the total net energy generated.

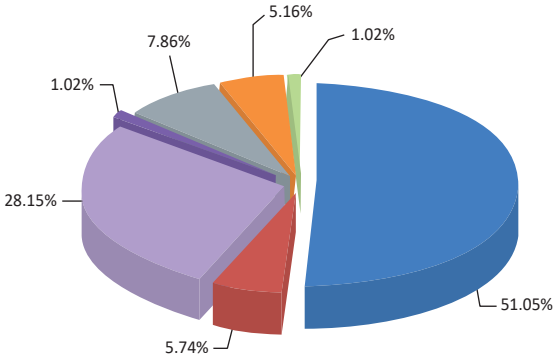
Total net energy generated by fuel type are as follows:

Hydro	610	0.69%
Gas	46,013	52.02%
Furnace Oil	18,323	20.71%
HSD	2,327	2.63%
Coal	10,081	11.40%
Renewable	671	0.76%
Import	10,425	11.79%
Total	**88,450 (MkWh)**	**100%**

Installed Capacity (National) By Fuel Type

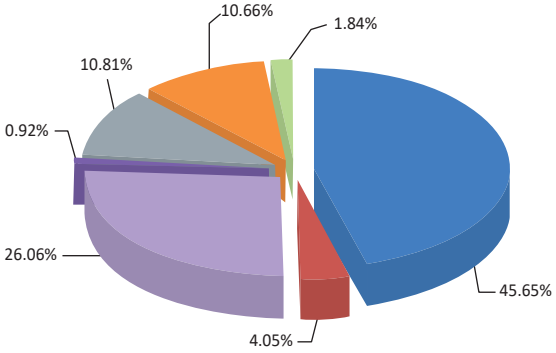
Gas | Diesel | Furnace Oil | Hydro | Coal | Power Import | Renewable

(FY 2021-22)



Total : 22,482 MW

(FY 2022-23)

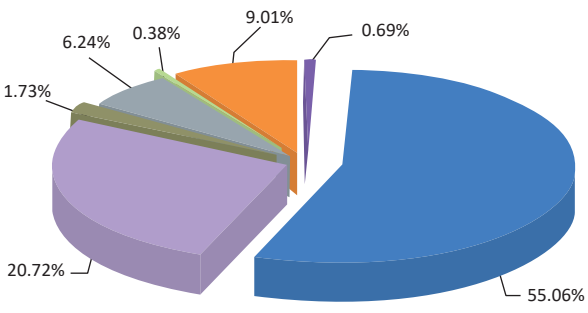


Total : 24,911 MW

Eenergy Generation (National) Fuel wise

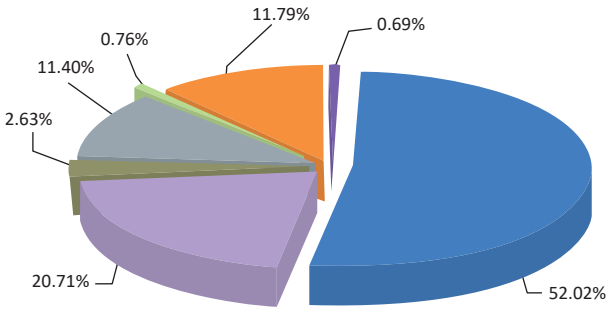
Gas | Furnace Oil | HSD | Coal | Renewable | Import | Hydro

(FY 2021-22)



Total Net Generation : 85,607 MkWh

(FY 2022-23)



Total Net Generation : 88,450 MkWh

Tramsmission

Transmission Line

During fiscal year 2022-23, a total length of 828 circuit kilometer transmission line have been added to the system through different projects. In the same period, transmission line length has been increased by 5.96% than that of previous year. The line details are as below:

Sl.	Transmission Line	Quantity (Ckt. Km.)
1	Gopalganj-Aminbazar (With River) 400kV line	150.60
2	Gopalganj-Amubazar River Crossing 400kV line	15.00
3	Bogura (West)-Rahanpur 400kV line	209.92
4	Barguna PP - Payra PP 400kV line	27.80
5	Matarbari-Banskhali 400kV line	75.54
6	LILO of Sikalbaha-Hathazari at Madunaghat (N) 230kV line	23.40
7	Roopppur-Baghabari 230kV line	130.62
8	Khula 330MW-Khula (S) 230kV line	14.00
9	LILO of Bogura-Barapukuria at Bogura (West) 230kV line	44.26
10	LILO of Ashuganj-Sirajganj at Sreepur 230kV line	5.60
11	Sudarganj Solar – Rangpur 132kV line	71.4
12	Rampura-Dhaka University 132kV line	14.96
13	Aminbazar 400/132kV transformer connecting 132kV line	0.42
14	Sripur-Bhaluka 132kV line	44.78
Total		**828.30**

Total length of 400 KV transmission line has been increased to 1972.5 circuit km from the previous year of 1493.6 circuit km. The total length of 230 kV transmission line increased to 4235.7 circuit km from the previous year of 4017.84 circuit km. The total length of 132 kV transmission line increased to 8508.8 circuit km from the previous year of 8377.25 circuit km.

Grid Substations

During fiscal year 2022-23, transmission grid substation capacity also increased due to completion of new substations and augmentation of existing grid substation. At the end of fiscal year 2022-23, the grid substations capacity has been increased by 8.54% at different voltage level. The details of substations capacity are as below:

A. New Subs-stations:

Sl.	Name of substation	Transformer Capacity (MVA)
1	Bogura (W) 400/230 kV	2x750
2	Rahanpur 400/132 kV	1x520
3	Sripur 230/132 kV	2x225/300
4	Bashundhara Cement 132/33 kV	1x35
5	Seven Circle 132/33 kV	2x30
6	Sripur 132/33 kV	2x50/75
Total (MVA)		**2,665 / 2,865**

B. Augmentation of Existing Substation Capacity

Sl.	Name of substation	Augmentation Capacity (MVA)
1	Aminbazar 400/132 kV	325
2	Rampal 400/230 kV	520
3	Gopalganj(N) 400/132 kV	325
4	Bogura 132/33 kV	45
5	Chandraghona 132/33 kV	34
6	Cumilla (N) 132/33 kV	75
7	Cox's Bazar 132/33 kV	158
8	Gallamari 132/33 kV	79
9	Juldah 132/33 kV	68
10	Manikganj 132/33 kV	25
11	Mirpur 132/33 kV	45
12	Noapara 132/33 kV	35
13	Purbasadipur 132/33 kV	120
14	Sirajganj 132/33 kV	79
15	Sonargaon 132/33 kV	45
Total (MVA)		**1,978**

Transmission Summary

Sl.	Transmission Line Type	Circuit Km
1	400 kV Transmission Line	1,972.5 Circuit km
2	230 kV Transmission Line	4,235.7 Circuit km
3	132 kV Transmission Line	8,508.8 Circuit km
4	**Total Transmission Line**	14,717.0 Circuit km
5	Transmission Loss (%)	3.07 %

Sub-Station Type	No of Sub-station	Capacity (MVA)
400 kV HVDC Sub-Station	1	---
400/230 kV Sub-Station Capacity	7	8,195
400/132 kV Sub-Station Capacity	4	2,795
230/132 kV Sub-Station Capacity	30	16,375
230/33 kV Sub-Station Capacity	5	1,390
132/33 kV Sub-Station Capacity	168	32,770
Total	**215**	**61,525**

Grid System Operation

In the FY 2022-23, total duration of power interruption in the grid network was 140 hours 21 minutes.

Interruption Of National Grid For FY 2022-23

Sl. No.	Type of Fault	Total Number of Faults		Total Duration	
		FY 2022	FY 2023	FY 2022 Hours/ Minutes	FY 2023 Hours/ Minutes
1	Partial Power failure due to trouble in generation	72	151	-	-
2	Partial Power failure due to trouble in grid S/S Equipment	96	69	130/46	116/44
3	Partial Power failure due to fault in transmission line	7	11	14/10	16/06
4	Partial Power failure due to the lightning on transmission line/Thunder Storm	0	0	00/00	00/00
5	Partial Grid failure	0	3	00/00	07/31
6	Total Grid failure	0	0	00/00	00/00
Total		**175**	**234**	**144/56**	**140/21**

Bulk Electricity Sales by BPDB

BPDB is functioning as a single buyer in the power market of Bangladesh. Besides its own generation, BPDB purchases electricity from the public and private generation entities and sales bulk electricity to all the distribution utilities including its four distribution zones.

In the FY 2022-23, Bulk electricity sales to distribution utilities saw an increase, reaching 84,450 MkWh compared to 81,606 MkWh in the previous year, reflecting a growth of 3.48%. Specifically, BPDB's for distribution zones have an aggregated sale of 12,895 MkWh, which is 15.27% of the total energy sale.

Utility Wise Billing & Collection Statistics of BPDB

Utilities Name	Billed Amount (Million Tk)		Collected Amount (Million Tk)		Accounts Receivable (Million Tk)			Coll/Bill Ratio (%)	
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	% increase over the previous year	2021-22	2022-23
BPDB	88,297	93,242	89,596	93,600	13,517	13,149	-2.73	101.47	100.38
WZPDCL	20,411	23,444	18,810	22,208	3,391	2,633	-22.34	92.16	94.73
DPDC	65,286	75,170	61,480	73,462	39,730	8,088	-79.64	94.17	97.73
DESCO	40,177	47,290	36,971	44,875	6,759	5,190	-23.21	92.02	94.89
REB/PBS's	191,884	227,402	188,800	206,618	37,773	23,112	-38.81	98.39	90.86
NESCO	22,548	26,104	22,418	23,531	2,207	2,815	27.56	99.42	90.15
TOTAL	**428,602**	**492,652**	**418,075**	**464,294**	**103,377**	**54,987**	**-46.81**	**97.54**	**94.24**

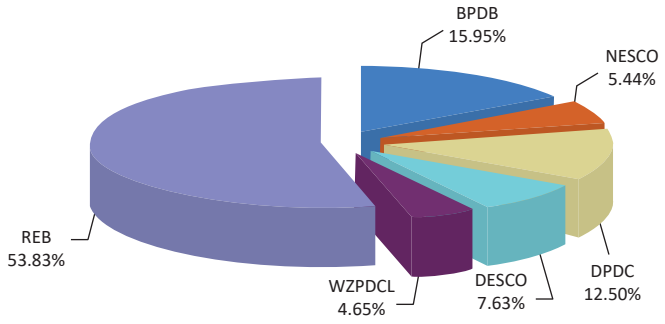
Utility wise Bulk Energy Sales by BPDB as Single Buyer

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
2020-21	12,309	4,221	9,746	5,762	3,680	40,605	76,323
2021-22	13,015	4,440	10,199	6,229	3,796	43,927	81,606
2022-23	**12,895**	**4,570**	**10,677**	**6,649**	**3,871**	**45,787**	**84,450**

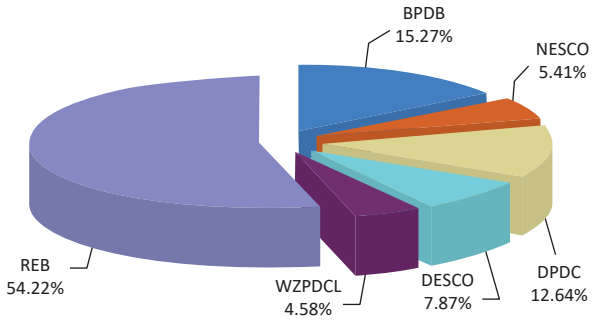
Utility Wise Bulk Sales

(FY 2021-22)



Total Net Generation : 81,606 MkWh

(FY 2022-23)



Total Net Generation : 84,450 MkWh

Distribution System

BPDB has been functioning as a retail seller of electricity within its four distributions zones named as Chattorgram, Sylhet, Mymensingh and Cumilla Distribution zone. Under these four zones, there are 13 nos. of O&M Circles, 68 nos. of Divisions and 35 nos. of ESUs. The total distribution network is comprised of 4,036 km of 33 kV lines, 16,586 km of 11 kV lines and 28,896 km of 0.4 kV lines. The total distribution line in the country is about 6,43,167 km of which 49,517 km belongs to BPDB's distribution as of June 2023. Moreover, BPDB has a 39,80,433 Nos. of total consumer of different category as of June 2023.

BPDB continuously works on modernizing and upgrading this system to meet the increasing demands, improve efficiency, enhance sustainability, and incorporate advanced technologies that promote energy conservation and reduce losses during distribution. The target is to provide a stable and consistent power supply to support the growth and development of the country.

Several distribution projects are currently ongoing in Chattogram, Cumilla, Mymensingh and Sylhet Zones. Taking into consideration the future electricity demand, BPDB has planned to undertake distribution system development projects. As part of this plan, primary documentation procedures are currently underway for the development project in three Hilly Districts, as well as two separate development projects in Cumilla and Mymensingh regions.

Distribution Network & Commercial Summary

In the FY 2022-23, BPDB has extended about 3,699 numbers distribution transformer with 681 MVA capacity as a part of continuous improvement of the system. BPDB covers electrification in 216 thanas/upazillas and 7,476 villages within its four distribution zones up to the end of this fiscal year. The summary of distribution networks and commercials from FY 2015-16 to FY 2022-23 is given below:

Distribution Network Summary

Particulars	Unit	2015-16	* 2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
33/11 kV sub-station	Nos	183	130	132	133	137	151	165	166
Capacity 33/11 kV substation	MVA	3593/4694	2623/3390	2863/3698	3082/3978	3304/4221	3621/4628	4090/5253	4203/5416
33 kV Line	Km	4194	3404	3418	3654	3706	3605	3824	4036
11 kV line	Km	14112	9436	9577	10742	10973	11768	13050	16586
0.4 kV line	Km	23614	16979	17071	18592	18962	20168	21991	28896
Distribution Transformer	Nos	21875	16630	19512	22020	24012	25607	27904	31603
Capacity Distribution Transformer	MVA	3674	2829	3376	3948	4499	4857	5256	5937
Maximum Demand Served	MW	1973	1997	1624	1863	1876	1923	2044	2434

Distribution Commercial Summary

Particulars	Unit	2015-16	* 2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Energy import	MkWh	12159	11024	10537	11400	11120	12309	13015	12895
Energy sale (without bulk consumer)	MkWh	9667	8063	7685	8240	8191	8825	9296	9583
Energy sale (with bulk consumer)	MkWh	10820	10002	9694	10573	10308	11489	12195	12070
System loss (without bulk consumer)	%	10.66	10.92	9.89	9.12	8.99	8.50	8.10	7.92
System loss (with bulk consumer)	%	12.16	9.27	8.00	7.26	7.30	6.66	6.29	6.40
C.I Ratio	%	85.34	89.94	92.13	92.87	90.19	95.31	95.08	93.96
C.B Ratio	%	95.90	99.13	100.14	100.15	97.29	102.11	101.47	100.38
Consumer number	Nos	3457263	2526682	2801951	3046257	3236886	3451534	3670816	3980433
Accounts receivable	Million taka	18696	13999	13440	14284	16503	15466	13517	13149

* Due to transfer Rajshahi and Rangpur Zone to NESCO.

Customer's Service & Satisfaction

BPDB has introduced following services for customer satisfaction:

- Computerized Billing System
- Easy Bill Pay
- Online Application
- Bill on Web
- BIDA OSS Service Innovation of BPDB
- Pre-paid Metering
- Supervisory Control and Data Acquisition (SCADA) System
- Demad Side Management
- ERP
- IVVR
- Innovation of BPDB

Computerized Billing system

BPDB has brought 100% consumers under a computerized billing system in its four distribution zones namely Chattogram, Cumilla, Mymensingh and Sylhet. BPDB prepares their postpaid consumer bill through nine computer centers. Each computerized bill shows the present month's billing amount along with the previous month's payment and arrear status for consumers' acknowledgement. It improves the billing system, revenue collection, decreases system loss and ensures better service to the consumers than the previous manual one. BPDB prepares approximately 21 lakh post-paid customers' bills monthly. Postpaid bills are prepared by eight local computer centers (Chattogram, Cumilla, Sylhet, Moulavibazar, Mymensingh, Tangail, Jamalpur, Kishoreganj) of BPDB. Dhaka computer center monitors all the billing processes and backups the billing data of each local computer center. Dhaka computer center coordinates billing related supporting services- Bill Pay, E-payment, Online New Connection, and Bill on Web with all local computer centers through a dedicated secured channel.

In the Snapshot Meter Reading System, meter readers move from door to door to collect the meter reading by taking a picture of the meter and sending it to the billing database. This snapshot ensures more accuracy in the data collection system.

BPDB has 15 Extra High Tension (EHT) consumers. Dhaka computer center processes these EHT bills. There are 84 bulk consumers of BPDB consisting of DESCO, DPDC, WZPDCL, NESCO, and 80 Palli Biddut Samitys. Dhaka computer center generates these 84 bulk consumer bills (utility bills) by coordinating 13 Energy Audit Divisions (EAUDs) and GM commercial operation office.

Easy Bill pay

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

Online New Connection

BPDB has introduced online application facilities for new connection in its four distribution zones. Any applicant can apply round the clock for new connection from the website of BPDB.

Bill on Web

Bill on Web' feature has made it possible for the consumers to download their billing history from BPDB's website. Consumers can get bills on the web from digital services in BPDB's home page. After giving 'customer no' and 'location code' in the bill information menu, customer can see his detailed information. Now, consumers do not need to wait for a hard copy. Consumers can print their bill from Bill on Web software and pay the bill through different payment methods.

BIDA OSS Service

BIDA (Bangladesh Industrial Development Authority) takes initiative for their investors to take electricity connection in an easy way. For this reason a MOU was signed between BIDA (Bangladesh Industrial Development Authority) and BPDB (Bangladesh Power Development Board). Investors of BIDA in industries can apply for new electricity connection online through BIDA OSS platform. All the process are performed through online and consumer receive SMS in every step of this connection and take initiative. The payment process of this connection is fully online based. Consumers do not need to go to the BPDB Sales and Distribution office for this connection issue. At first, consumers have to complete registration and then they can apply through BIDA for a new connection of electricity.

Pre-paid Metering

The conventional postpaid billing method involves a group of meter readers taking reading from the postpaid meter installed at consumer's 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.

Benefits for Customers	Benefits for Utility
• No average billing, no estimated billing • Better budget, reduced consumption • No hassles with bill payment waiting in a queue • No billing inaccuracies & amendments • No minimum charge • No disconnection/re-connection fees for dues • No security deposit required for prepaid meter new connection • 24/7 service • 1% rebate on each vending • Low credit warning/friendly hour/emergency credit/weekend/holiday • Grow power saving attitude while monitoring regular power consumption.	• No meter readers & bill distributors. • Lower overheads expenses (Meter reading, MRS Fill up, Bill distributing, DCS collecting, data entry etc). • Advance revenue collection, no outstanding bill which improved cash flow. • Actual demand due to non-allowance of over sanctioned load. • Saving transformers from overloading. • Decreased non-technical losses. • Avoid non-payment problems. • No disconnection /re-connection. • More time for engineers to work on distribution system development. • Tamper detection by sensors. • System loss reduction. • Better load management by Demand Side Management (DSM). • Automated record keeping.

Mobile/Online Vending System

In traditional system, prepaid customers have to go to particular Utility Vending Station (UVS) physically within office hour i.e. 10 am to 4 pm to purchase prepaid energy Token. Customer pays cash to vending counter and receives a printed copy of prepaid energy token or a smart card which is usable only for that particular prepaid meter number. Then customers come back to home and finally insert the printed token in keypad meter by pressing keys. Meter accepts only valid token and displays the recharged amount. Unified prepayment System was generating prepaid energy token only in vending Stations. This system requires huge numbers of vending stations to deal with vast number of consumers which needs large manpower for operation. The system used to operate huge amount of cash in the vending station every day. Vending was not possible without going to Vending Station and after office hours.

BPDB introduced Mobile/Online Vending System to make the prepaid metering vending more secure, consumer friendly and cost effective. To attain this goal, BPDB signed agreement with Grameenphone, Robi, bKash, tap, SSL, Nagad & Upay who work to provide vending service to the prepaid meter consumer of BPDB through mobile USSD and mobile Apps.

Customers now can recharge through debit/credit cards also using SSL platform.

The main objectives of Mobile/Online Vending System are:

- Vending at 24 x 7 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	Benefits for Utility
• Recharge automatically. • Consumers can be informed remotely historical data or real time data	• 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 Prepaid at a Glance

BPDB installed 1.75 million prepaid meters out of its 3.98 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 (as of June 2023):

Sl. No.	Zone	Prepaid Coverage (%) In Ratio of Total Consumer
1	Chattogram	50.81 %
2	Cumilla	35.41 %
3	Mymensingh	38.20 %
4	Sylhet	52.04 %
Total		**44.06 %**

SCADA

Supervisory Control and Data Acquisition (SCADA) systems are used to control, monitor, and analyze devices and processes. The system consists of both hardware and software components which enables remote and on-site gathering of data from the equipments for a better load management plan. Key functions of SCADA are:

- Supervising/Monitoring the networks under it continuously to controls the power supply of the networks 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 for analyzing demand, power factor & other necessary elements of each circuit for system management within the SCADA in a smart manner.

• Preparing and reporting daily and monthly power supply, demand, load shedding, line shut-down, etc. of each circuit of the networks.

BPDB has a plan to implement SCADA system to Supervise/Monitor and Control the networks through Data acquisition of power flow through the circuits in order to reduce energy loss and improve efficiency. BPDB has already engaged Consultants to implement (SCADA) system in its four distribution zones (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. Feasibility Study is in progress throughout the four distribution zones in order to implement SCADA system, considering Sylhet & Chattogram zones as a first phase project and Mymensingh & Cumilla as the second phase project.

Moreover, BPDB has a plan to set up one SCADA system in Dhaka to monitor/control all other regional SCADA system of BPDB, centrally.

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 taken measures 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.

Enterprise Resource Planning (ERP)

Power Division had taken proactive programs to carry forward the Vision 2021 of the government, utilizing the benefit of information and communication technology. In line with the concept of corporate management, Power Division is implementing Enterprise Resource Planning (ERP) software in all its utilities. Bangladesh Power Development Board has crafted its strategies to implement ERP software in all its offices including projects.

By this time, BPDB has introduced Enterprise Resource Planning (ERP) software in its business process. Data Center has been prepared in 12th floor, Biddut Bhaban for running ERP System smoothly. Redundant internet service has been provided in ERP server. Environmental management system (EMS) has also been incorporated in the ERP Data Center so that any change in temperature and humidity can be noticed through SMS. At present, four modules of ERP named Human Resources & Payroll, Procurement, Fixed Asset and Finance modules are introduced and functioning properly. ERP is being operated in BPDB using 97 licensed users. ERP software has been upgraded from Navision to Dynamic 365 Business Central. For successful and sustainable implementation of ERP, BPDB has formed module based Virtual ERP Cell. BPDB has taken initiatives to expand the scope of ERP software with the passage of time and need. 2 New Modules (Inventory Management, Plant Management) and 2 Sub modules (Performance Appraisal (HR), Tender Management) will be introduced in ERP software. With this new technology, it is expected that in the coming days BPDB will be able to deliver better services to its stakeholders.

IVVR

Bangladesh Power Development Board (BPDB) completed Identification, verification, valuation and recording of Fixed Assets and Stores through IVVR Project Phase – I, which started on June, 2000 and completed on 31st, December 2004. BPDB emphasize on the revaluation of fixed asset and physical verification of stores after 14 years and the Board takes up IVVR Project Phase – II.

As per BDPB requirement, project work is distributed into 5 packages.

a) Physical verification, Valuation Recording of fixed asset and stores.
b) Codification of Fixed asset & Stores and Preparation of Manual.
c) Computerization of Fixed Assets and Store Accounting System.
d) Operational Service & Maintenance of Fixed Assets and Store Management System and Support service for implementation of online Store Software.
e) Project Administration.

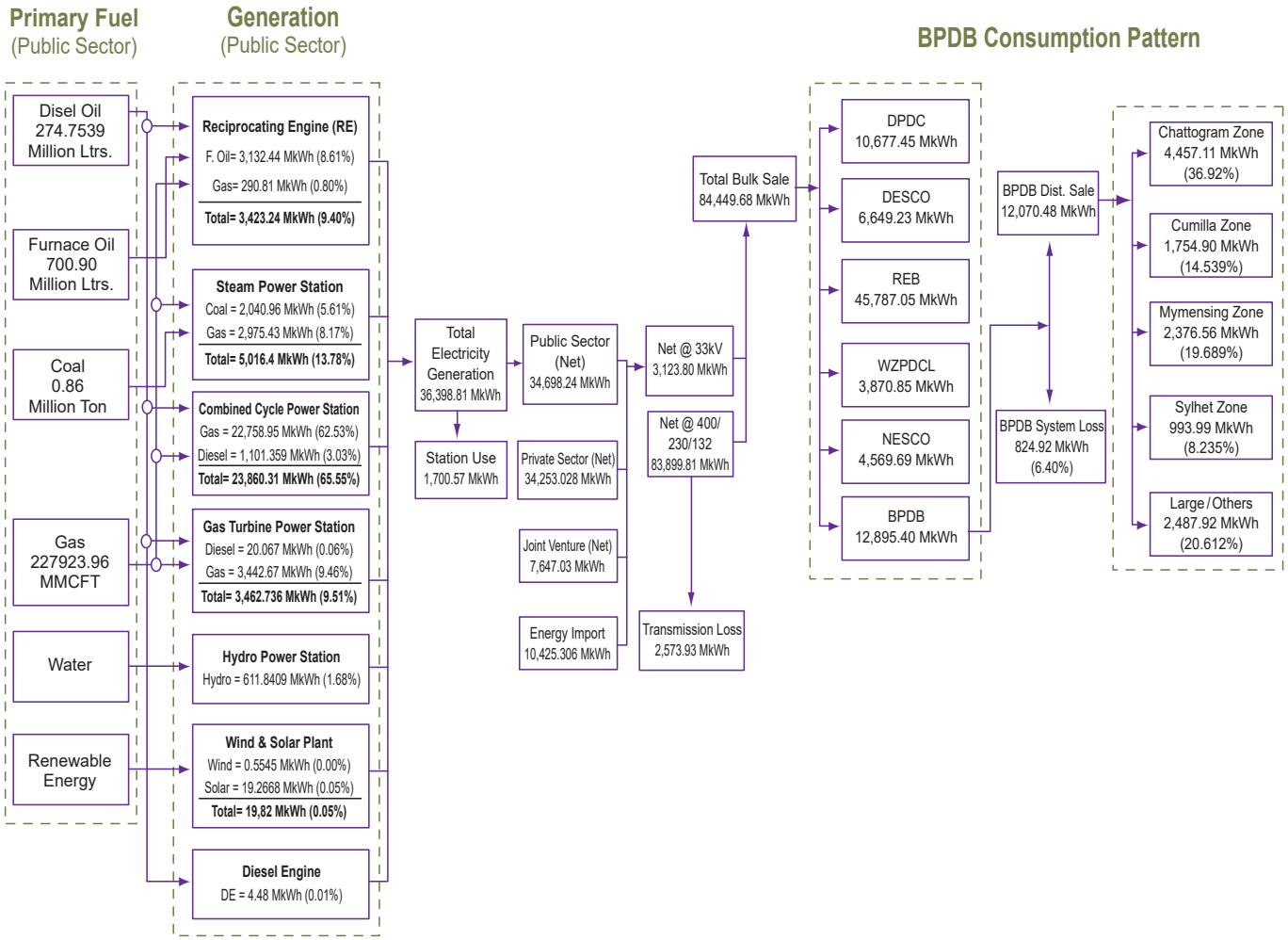
Considering total offices of BPDB across Bangladesh, Package A is divided into seven (7) lots for Fixed Asset valuation for 358 unit offices in total. BPDB's Fixed Assets are classified into 19 categories. In Package A, fixed assets and store values are calculated and finalized which brings improvement of BPDBs financial position. In Package B, all the fixed asset and store items are categorized under major, sub major and minor groups and unique code prepared for each item in the central database. Introduction of unique code helps to identify availability of any item from a specific store or from entire store units. In Package C web based online and centralized fixed asset management and store accounting software developed by consultant firms. In Package D, Operation and Maintenance Services are provided by vendors within three (3) years from the contract date. A 24/7 helpdesk is established for the support which is available in Phone & email. Currently IVVR software is operating with Fixed Assets module & Store module, a data centre is established for this purpose and it is continuously used by 358 unit offices of BPDB.

Innovation of BPDB

BPDB has an innovation team whose task is to compile an annual e-governance and innovation work planning of BPDB. This team arranges regular meetings and shortlists innovation ideas to be implemented in a fiscal year. Since 2017, every year, new ideas and innovations are implemented in BPDB. Some of the innovations of BPDB in the past years are as below:

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.
	Providing customers profile information online.
2019-20	Piloting spot billing and spot collection software.
2020-21	HT consumer connection by One Stop Service.
2021-22	Implementation of QR code in Postpaid Billing Software.
2022-23	Postpaid Bill Info and Payment Link through SMS.

ENERGY FLOW CHART
(FY 2022-23)



Chapter 2

Power Sector Development Plan

Power Sector of Bangladesh

Present Power Scenario

Electricity plays pivotal role in the economic growth through development of sustainable infrastructure as well as poverty eradication. 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.

Before 2009, there was a gap between demand and supply of electricity. More than 90% of electricity was generated using mono-fuel natural gas, with a small contribution from other fuels. The government recognized the necessity of diversification of primary fuel for electricity generation and took drastic measures to improve the electricity supply scenario of the country. PSMP-2010 was adopted, incorporating diversified expansion plans and policies to meet the growing demand. This plan envisaged about 24,000 MW generation capacity by 2021 and 38,000 MW by 2030. Subsequently, PSMP-2016 was introduced to update the long-term plan and provide a more comprehensive framework for the future of our energy sector. 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 of 57,000 MW in 2041. At present, a comprehensive Integrated Energy and Power Master Plan (IEPMP) is being developed, which includes the upgradation of PSMP-2016 to encompass a broader range of fuel diversification programs. This updated plan will serve as a detailed roadmap for the nation's energy sector, ensuring a more robust and sustainable energy mix to meet evolving needs.

According to these plans, diversified fuel sources such as gas/LNG, coal, liquid fuel, renewable energy and power import have been seamlessly integrated into our power system, ensuring a balanced and resilient energy mix. Due to the proper implementation and vigilant monitoring of these plans, total installed generation capacity has surged to 25,339 MW as of 30 September 2023. Out of this, public sector possesses 10,595 MW (41.81%), private sector 10,227 MW (40.36%), joint venture 1,861 MW (7.34%) and power import 2,656 MW (10.48%).

In this fiscal year, our energy infrastructure has reached new heights, with a maximum generation of 15,648 MW recorded on 19th April 2023. This capacity is well-balanced with the ever-growing demand, ensuring a reliable and uninterrupted power supply. It's a remarkable achievement, considering that 100% of our population now has access to electricity and our per capita generation stands at a commendable 602 kWh (including captive and off-grid renewable energy). In addition to expanding our energy generation capabilities, the government has also taken proactive steps towards energy efficiency and conservation programs. These plans are meticulously designed to maintain a delicate balance with demand, and they are being implemented in phases to ensure their successful realization.

Implementation of Power Generation Plan up to 2025

Present (as on October 2023) generation expansion plan is targeting about 11,079 MW generation additions up to 2025 including 5,534 MW capacity addition in public sector; 1,861 MW from JV and 3,684 MW in private sector. Capacity addition plan from CY 2023 to CY 2025 is provided in the table below:

Year Wise Generation Projects to be Completed (From October 2023 to CY 2025)

Year	2023 (MW)	2024 (MW)	2025 (MW)	Total
Public	50	2,774	2,740	**5,534**
Joint Venture	617	1,244	0	**1,861**
Private	2,015	1,492	177	**3,684**
Total	**2,682**	**5,480**	**2,917**	**11,079**

Under Construction & Tendering Process Projects

Under the above plan, 27 projects of capacity 9,334 MW are now under construction stage, 14 projects of capacity 659 MW are now in the contract signing process (LOI & NOA are given) and 7 projects of capacity 628 MW are now in tendering process. The under construction, signing (LOI & NOA are given) and tendering process projects will be implemented in phase.

Under Construction Projects

S.N.	Description	No. of Projects	Capacity (MW)
01	Public Sector	10	**3,543**
02	Joint Venture	2	**2,486**
03	IPP	15	**3,305**
	Total	**27**	**9,334**

Projects under Signing Process (LOI & NOA are given)

S.N.	Type of Power Plant	Power Plant No.	Installed Capacity (MW)
01	Public	0	**0**
02	Joint Venture	0	**0**
03	Private	14	**659**
	Total	**14**	**659**

Projects under Tendering Process

S.N.	Type of Power Plant	Power Plant No.	Installed Capacity (MW)
01	Public	4	**478**
02	Joint Venture	0	**0**
03	Private	3	**150**
	Total	**7**	**628**

Transmission and 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. As on September 2023, a total 14,934 km (Circuit km) transmission lines and 6,43,167 km distribution lines have been connected to power system network.

Under cross-border power import initiative, a total 2,656 MW of power is being imported from neighboring India. This cross-border initiative has been gradually expanding over the years, with commencing 500 MW power imports from Bohorampur, India to Bheramara in 2013, and additional imports of 100 MW from Tripura to Cumilla since March 2016, later increasing to 160 MW in July 2017. Notably, since September 2018, an additional 500 MW power import has been

started through the Bohorampur-Bheramara interconnection. This year marked a significant milestone with the commencement of 1,496 MW power import from Adani Power Ltd in Jharkhand, India. Looking ahead, BPDB has ambitious plans to further diversify its cross-border energy sources, with intentions to import 40 MW and 500 MW power from Nepal, as well as 100 MW from Bhutan by the year 2030.

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

A total of 6 generation and 8 distribution projects were undertaken in the Revised Annual Development Program (RADP) in the FY2022-23. Power Distribution System Development Project, Rangpur Zone has been completed during this fiscal year. Original ADP Allocation, Revised ADP Allocation and Expenditure incurred (provisional) in the FY2022-23 are shown in the following table.

(Taka in lakh)

Sub-sector	Original ADP FY (2022-23)					Revised ADP FY (2022-23)					Expenditure incurred in FY (2022-23)				
	Total (Ceiling 25% less)	GoB (Ceiling 25% less)	PA	Self-finance		Total (Ceiling 25% less)	GoB (Ceiling 25% less)	PA	Self-finance		Total	GoB	PA	Self-finance	
				Own Fund	ECA				Own Fund	ECA				Own Fund	ECA
Generation (Excluding own funded projects)	994	196	200	8	590	863	24.5	194	290	355	910	18	8.4	519.5	364
Generation (including own funded projects)	1164	196	200	178	590	864	24.5	194	291	355	911	18	8.4	520	364
Distribution	1438 (1309)	1399 (1269)	0	39.5	0	1129 (1094)	1016 (980)	44.5	69	0	1094	979	45.6	69.5	0
Total (Excluding own funded projects)	2432 (2303)	1595 (1465)	200	47.5	590	1992 (1957)	1040 (1005)	238.5	359	355	2004	997	54	589	364
Total (including own funded projects)	2602 (2473)	1595 (1465)	200	217.5	590	1993 (1958)	1041 (1005)	238.5	360	355	2005	997	54	589.5	364

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	Gas	18 August, 2010
2.	Siddhirganj 2x120 MW GT	105	EGCB	Gas	14 October, 2010
	Sub Total (Public)	**255**			
	Private Sector				
3.	Ashuganj Rental Power Plant	55	Rental (BPDB)	Gas	7 April, 2010
4.	Shikalbaha 55 MW Rental Power Plant	55	Rental (BPDB)	HFO	6 May, 2010
5.	Thakurgaon, 3 Years Rental PP	50	Rental (BPDB)	HFO	2 August, 2010
6.	Ghorashal quick rental PP	145	Rental (BPDB)	Gas	23 August, 2010
7.	Khulna quick rental PP	55	Rental (BPDB)	Diesel	10 August, 2010
8.	Pagla, Narayaganj quick rental PP	50	Rental (BPDB)	Diesel	24 November, 2010
9.	Bheramara 3 Years Rental PP	110	Rental (BPDB)	Diesel	31 December, 2010
	Sub Total (Private)	**520**			
	Total (2010)	**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.	Gopalganj 100 MW Peaking PP	109	BPDB	HFO	29 September, 2011
4.	Fenchuganj 90 MW CCPP	104	BPDB	Gas	26 October, 2011
5.	Bera 70 MW Peaking PP	71	BPDB	HFO	28 October, 2011
6.	Titas, Doudkandi 50 MW Peaking PP	52	BPDB	HFO	29 October, 2011
7.	Faridpur 50 MW Peaking PP	54	BPDB	HFO	3 November, 2011
8.	Hathazari 100 MW Peaking PP	98	BPDB	HFO	23 December, 2011
9.	Sangu, Dohazari 100 MW Peaking PP	102	BPDB	HFO	30 December, 2011
10.	Siddhirganj 2x120 MW Peaking PP	105	EGCB	Gas	31 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 quick rental PP	100	Rental (BPDB)	Diesel	17 February, 2011
2.	B Baria quick rental PP	70	Rental (BPDB)	Gas	06 March, 2011
3.	Modanganj quick rental PP	102	Rental (BPDB)	HFO	01 April, 2011
4.	Meghnaghat quick rental PP	100	Rental (BPDB)	HFO	08 May, 2011
5.	Ghorashal quick rental PP	78	Rental (BPDB)	Gas	27 May, 2011
6.	Noapara quick rental PP	40	Rental (BPDB)	HFO	28 May, 2011
7.	Ashuganj quick rental PP	80	Rental (BPDB)	Gas	31May, 2011
8.	Khulna quick rental PP	115	Rental (BPDB)	HFO	01 June, 2011
9.	Ashuganj quick rental PP	53	Rental (BPDB)	Gas	22 June, 2011
10.	Siddhirganj quick rental PP	100	Rental (BPDB)	HFO	21 July, 2011
11.	Noapara, Jashore (5 Years Rental) PP	105	Rental (BPDB)	HFO	26 August, 2011
12.	Bogura 3 Years quick rental PP	20	Rental (BPDB)	Gas	13 November, 2011
	Sub Total (Private)	**963**			
	Total (2011)	**1763**			

Projects commissioned in 2012

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
	Public Sector				
1.	Chandpur 150 MW CC Power Plant	163	BPDB	Gas	3 March, 2012
2.	Sylhet 150 MW Power Plant	142	BPDB	Gas	28 March, 2012
3.	Gazipur 50 MW PP	52	RPCL	Gas/HFO	7 July, 2012
4.	Santahar 50 MW Peaking Power Plant	50	BPDB	HFO	7 December, 2012
5.	Katakhali 50 MW Peaking Power Plant	50	BPDB	HFO	17 December, 2012
6.	Sirajganj 150 MW GTPP	150	NWPGCL	Gas/HSD	31 December, 2012
	Sub Total (Public)	**607**			
	Private Sector				
1.	Amnura, Chapainawabganj Power Plant Sponsor: Sinha Power	50	Rental (BPDB)	HFO	13 January, 2012
2.	Fenchuganj 3 Years Rental Power Plant Sponsor: Energy Prime Ltd.	44	Rental (BPDB)	Gas	15 February, 2012
3.	Julda, Chattogram Power Plant	100	Rental (BPDB)	HFO	26 March, 2012
4.	Keraniganj Power Plant	100	Rental (BPDB)	HFO	27 March, 2012
5.	Katakhali, Rajshahi Power Plant Sponsor: NPSL	50	Rental (BPDB)	HFO	23 May, 2012
	Sub Total (Private)	**344**			
	Total (2012)	**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 GTPP	150	NWPGCL	Gas/HSD	23 September, 2013
3.	Haripur 360 MW CCPP	412	EGCB	Gas	December, 2013
Sub Total (Public)		**587**			
	Private Sector				
1.	Shajanullah Power Company	25	IPP	Gas	11 January, 2013
2.	Regional Import	500	Import	Import	5 October, 2013
3.	Ashuganj 51 MW PP	51	IPP	Gas	6 December, 2013
Sub Total (Private)		**576**			
Total (2013)		**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 (2014)		**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 : GT Unit	222	IPP	Gas	6 June, 2015
6.	Bibiyana-II 341 MW CCPP : ST Unit	119	IPP	Gas	26 December, 2015
Sub Total (Private)		**797**			
Total (2015)		**1,357**			

Projects Commissioned in 2016

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
	Public Sector				
1.	Upgradation 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 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 (2016)		**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 (2017)		**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
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 PP (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 (2018)		**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 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
3.	Bogura 113 MW PP (unit-2)	113	IPP	HFO	30 March, 2019
*	Sirajganj 400±10 MW CCPP	132	IPP	GAS/HSD	ST: 09 April, 2018
4.	Shikalbaha 105 MW PP	105	IPP	HFO	24 May, 2019

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
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	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 PP	113	IPP	HFO	31 December, 2019
Sub Total (Private)		**1,590**			
Total (2019)		**2,404**			

Projects Commissioned in 2020

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
	Public Sector				
1.	Upgradation of Sylhet 150 MW PP to 225 MW CCPP	89	BPDB	Gas	14 March, 2020
2.	Payra, Potuakhali 1320 Coal Fired Power Plant (1st Unit)	1,244	BCPCL (NWPGCL)	Imported Coal	15 May, 2020 (1st Unit) 8 December, 2020 (2nd Unit)
Sub Total (Public)		**1,333**			
	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
3.	Sutiakhali, mymensing 50 MW Solar PP	50	IPP	Solar	04 November, 2020
4.	Manikgonj 162 MW PP	162	IPP	HFO	01 December, 2020
5.	Tangail 22 MW PP (Duel Fuel)	22	IPP	HFO	20 December, 2020
Sub Total (Private)		**438**			
Total (2020)		**1,771**			

Projects Commissioned in 2021

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
	Public Sector				
1.	Bibiana South 383 MW CCPP	383	BPDB	Gas	28 January 2021
2.	Shajibazar 100 MW PP	100	BPDB	Gas	01 February 2021
3.	Shirajgonj 6.55 MW Solar PP	6	NWPGCL	Solar	30 March, 2021
4.	Ghorasal 416 MW CCPP (3rd Unit Repowering) GT	260	BPDB	Gas	01 April, 2021
	Sub Total (Public)	**749**			
	Private Sector				
1.	Potiya, Chattogram 116 MW PP (Unlima Energy)	116	IPP	HFO	04 January, 2021
2.	Potuakhali 150 MW PP (United)	150	IPP	HFO	18 January, 2021
3.	Bhairab 54 MW PP	54	IPP	HFO	08 March, 2021
4.	Manikgonj 35 MW Solar PP	35	IPP	Solar	12 March, 2021
5.	Bhola 220 MW CCPP	220	IPP	Gas/HSD	09 June, 2021
6.	Kanchan, Narayangonj 55 MW PP	55	IPP	HFO	20 December, 2021
7.	Borodurgapur, mongla Bagerhat 100 MW Solar PP	100	IPP	Solar	29 December, 2021
	Sub Total (Private)	**730**			
	Total (2021)	**1,479**			

Projects Commissioned in 2022

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
	Public Sector				
1.	Ashugonj 400 MW CCPP (East) GT unit	284	APSCL	Gas	23 June, 2022
2.	Ashugonj 400 MW CCPP (West) ST unit	116	APSCL	Gas	26 November, 2022
	Sub Total (Public)	**400**			
	Joint Venture				
1.	BIFPCL, Rampal, Coal Fired Power Plant (1st Unit)	617	BIFPCL	Imported Coal	23 December, 2022
	Sub Total (Joint Venture)	**617**			
	Private Sector				
1.	Chandpur 115 MW Power Plant	115	IPP	HFO	11 February, 2022
2.	Thakurgao 100 MW Power Plant	115	IPP	HFO	01 March, 2022
3.	Lalmonirhat 30 MW Solar Park	30	IPP	Solar	28 August, 2022
	Sub Total (Private)	**260**			
	Total (2022)	**1,277**			

Projects Commissioned in 2023 (Up to June)

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
	Public Sector				
1.	Khulna 330 MW Duel Fuel PP (GT Unit)	220	BPDB	Gas/HSD	30 January, 2023
2.	Mirsorai, Chittagong 150 MW PP	163	BR Power Gen	HFO/Gas	01 May, 2023
Sub Total (Public)		**383**			
	Private Sector				
1.	Barishal 307 MW Coal Fired PP	307	IPP	Imported Coal	01 January, 2023
2.	Gaibandha 200 MW Solar Park	200	IPP	Solar	08 January, 2023
3.	Hatia 15 MW Power Plant	5	IPP	HFO	12 February, 2023
4.	Power Import (Adani Power, Jharkhand, India) (1st Unit)	748	Import	Import	04 April, 2023
5.	Power Import (Adani Power, Jharkhand, India) (2nd Unit)	748	Import	Import	26 June, 2023
Sub Total (Private)		**2,008**			
Total (Up to June 2023)		**2,391**			

Future Generation Projects

Ongoing Projects				
Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel
	Public Sector			
1.	Barishal 1 MW Solar Power Plant	1	BPDB	Solar
2.	Sirajganj 2 MW Wind based Power Plant	2	BPDB	Wind
3.	Sonagazi, Feni 50 MW Solar Power Plant	50	EGCB	Solar
4.	Matarbari 1200 MW USCPP Phase-1 (Unit-1&2)	1200	CPGCBL	Imported Coal
5.	Sreepur, Gazipur 150 MW Power Plant	163	BR Power gen	HFO
6.	Ghorasal 4th Unit Repowering	409	BPDB	Gas
7.	Sayedpur 150 MW PP	162	BPDB	HSD
8.	Ghorasal 3rd Unit Repowering - ST	156	BPDB	Gas
9.	Rupsa 800 MW CCPP (Unit-1)	440	NWPGCL	Gas
10.	Madarganj, Jamalpur 100 MW Solar Power Pant	100	RPCL	Solar
11.	Rupsa 800 MW CCPP; Unit-2	440	NWPGCL	Gas

Ongoing Projects				
Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel
12.	Mymenshingh 360 MW CCPP	420	RPCL	Gas/HSD
13.	Rooppur Nuclear Power Plant	2,060	NPCBL	Nuclear
Sub Total (Public)		**5,603**		
	Joint Venture			
1.	BIFPCL, Rampal, Coal Fired Power Plant (2nd Unit)	617	BIFPCL	Imported Coal
2.	Potuakhali 1320 USCPP Phase-1 (Unit-1&2)	1247	RNPL	Imported Coal
3.	Payra, Potuakhali 1320 Coal Fired Power Plant; 2nd Phase (Unit-1&2)	1244	BCPCL	Imported Coal
Sub Total (Joint Venture)		**3,108**		
	Private Sector			
1.	Chattogram 2 x 612 MW Coal Fired Power Project (S. Alam Group); Unit-2	612	IPP	Imported Coal
2.	Chattogram 2 x 612 MW Coal Fired Power Project (S. Alam Group); Unit-1	612	IPP	Imported Coal
3.	Meghnaghat 600 MW CCPP (Summit)	583	IPP	Gas
4.	Meghnaghat 600 MW CCPP (Unique)	584	IPP	Gas
5.	Cox's Bazar 60 MW Wind based Power Plant	60	IPP	Wind
6.	Patgram, Lalmonirhat 5 MW Solar Power Plant	5	IPP	Solar
7.	Gowainghat, Sylhet 5 MW Solar Power Plant	5	IPP	Solar
8.	Bera, Pabna 3.77 MW Solar Power Plant	4	IPP	Solar
9.	Meghnagat 750 MW CCPP (Reliance)	718	IPP	Gas
10.	Keraniganj 100 MW Peaking (Power Pac)	100	IPP	HFO
11.	Dhormopasha, Sunamganj 32 MW Solar Power Plant	32	IPP	Solar
12.	Tetulia, Panchagarh 30 MW Solar Park	30	IPP	Solar
13.	Sirajganj 68 MW Solar Power Plant (BCRECL)	68	IPP	Solar
14.	Pabna 100 MW Solar Power Plant	100	IPP	Solar
15.	Mongla, Bagerhat 55 MW Wind Power Plant	55	IPP	Wind
16.	Aminbazar (Dhaka North City Corporation) 42.50 MW Waste-to-Energy Power Plant	43	IPP	Waste
17.	Pabna 64.55 MW Solar Park (BCRECL)	65	IPP	Solar
18.	Anowara 590 MW CCPP (United)	590	IPP	Gas
19.	Dhaka 635 MW Coal based PP (Orion Power)	635	IPP	Imported Coal
Sub Total (Private)		**4,901**		
Total		**13,612**		

LOI/NOA Issued				
Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel
	Private Sector			
1.	Cox's Bazar 100 MW Solar	100	IPP	Solar
2.	Lama, Bandarban Solar Power Plant	70	IPP	Solar
3.	Barapukuria 200 MW Solar Power Plant	200	IPP	Solar
4.	Chakaria 220 MW Wind Power Plant	220	IPP	Solar
5.	Rampal 300 MW Solar	300	IPP	Solar
6.	Fenchuganj 50 MW Power Plant	50	IPP	Gas
7.	Dimla, Nilphamari 50 MW Solar Power Plant	50	IPP	Solar
8.	Debiganj, Panchagarh 20 MW Solar Park	20	IPP	Solar
9.	Moulovibazar, Sylhet 10 MW Solar Power Plant	10	IPP	Solar
10.	Panchagarh 50 MW Solar Park	50	IPP	Solar
11.	Baraiyarhat, Chattogram 50 MW Solar Power Plant	50	IPP	Solar
12.	Terokhada, Khulna 50 MW Solar Power Plant	50	IPP	Solar
13.	Chuadanga 50 MW Solar Power Plant	50	IPP	Solar
14.	Madarganj, Jamalpur 100 MW Solar Power Plant	100	IPP	Solar
15.	Ishwardi, Pabna 70 MW Solar Power Plant	70	IPP	Solar
16.	Muktagachha, Mymensingh 50 MW Solar Power Plant	50	IPP	Solar
17.	Sonagazi, Feni 30 MW Wind Power Plant	30	IPP	Wind
18.	Trishal, Mymensingh 64 MW Solar Power Plant	64	IPP	Solar
19.	Muktagachha, Mymensingh 20 MW Solar Power Plant	20	IPP	Solar
20.	Jamaldi, Gazaria 660 MW CCPP (EDRA)	660	IPP	Gas
21.	Meghnaghat 450 MW CCPP (Anlima)	450	IPP	Gas
22.	Mirsorai 660 MW PP (Confidence)	660	IPP	Gas
	Total (Private)	**3,324**		

Under Tendering Process				
Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel
	Public Sector			
1.	Kaptai 7.6 Solar Power Plant	8	BPDB	Solar
2.	Barapukuria 20 MW Solar Power Plant	20	BPDB	Solar
3.	Rangunia 50 MW Solar Power Plant	50	BPDB	Solar
4.	Raojan, Chattogram 400±10% MW CCPP	400	BPDB	Gas
	Sub Total (Public)	**478**		
	Private Sector			
1.	Netrokona 50 MW Solar Power Plant	50	IPP	Solar

Under Tendering Process				
Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel
2.	Inani, Cox's Bazar 50 MW Wind Power Plant	50	IPP	Wind
3.	Chandpur 50 MW Wind Power Plant	50	IPP	Wind
Sub Total (Private)		**150**		
Total		**628**		

Under Planning Process				
Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel
	Public Sector			
1.	Gazaria 50 MW Solar Power Plant Project	50	RPCL	Solar
2.	Panchagarh 30 MW Solar Power Plant	30	RPCL	Solar
3.	Sonagazi, Feni 100 MW Solar Power Plant Project-1	100	EGCB	Solar
4.	Sonagazi, Feni 100 MW Solar Power Plant Project-2	100	EGCB	Solar
5.	Haripur 250±20% MW GT Power Plant	250	BPDB	Gas
6.	Sonagazi, Feni 82.50 MW Solar Park	83	BPDB	Solar
7.	Padma 50 MW Solar Power Plant	50	RPCL	Solar
8.	Parki Beach, Anwara, Chattogram 100 MW Wind Power Plant	100	EGCB	Wind
9.	Ghorasal 225±10% MW GT PP	225	BPDB	Gas
10.	Mymenshingh 400±10% MW CCPP	400	BRPL	Gas
11.	Payra 1,200 MW LNG based CCPP (1st Phase)	1,200	NWPGCL	Gas
12.	Barishal 2 MW Solar PP (Phase-1)	2	BPDB	Solar
13.	Raypura, Narsingdi 100 MW Solar PP	100	APSCL	Solar
14.	Bheramara 150 MW	150	BPDB	LNG
15.	Sonagazi, Feni 600±10% MW CCPP	550	EGCB	LNG
16.	Matarbari 1200 MW Coal Based (2nd Phase)	1200	CPGCBL	Imported Coal
17.	Gazaria 600±10% CCPP	550	RPCL	LNG
18.	Matarbari, Cox's Bazar 50 MW Wind Power Plant	50	CPGCBL	Wind
19.	Barishal 2 MW Solar PP (Phase-2)	2	BPDB	Solar
20.	Matarbari, Cox's Bazar 50 MW Solar Power Plant	50	CPGCBL	Solar
21.	Parki Beach 100 MW Solar Power Plant	100	BPDB	Solar
22.	Sonagazi, Feni 100 MW Solar Power Plant Project-3	100	EGCB	Solar
23.	Moheshkhali 160-250 MW Solar	160	BPDB	Solar
Sub Total (Public)		**5,602**		
	Joint Venture			
1.	Matarbari, Cox's Bazar 400±10% MW Solar Power Plant (CPGCBL-Sembcorp)	400	CPGCBL	Solar
2.	500-600 MW LNG Based (CPGCBL-Mitsui & Co. Ltd, Japan)	587	Joint Venture (Japan)	LNG

Under Planning Process				
Sl. No.	**Name of the Power Plant**	**Capacity (MW)**	**Ownership**	**Type of Fuel**
3.	Moheshkhali 3 x 1200 LNG Based CCPP (1st Phase)	1200	Joint Venture	LNG
4.	Bay of Bengal Power Company Ltd. 160 MW Solar Power Plant	160	BBPCL	Solar
Sub Total (Joint Venture)		**2,347**		
Private Sector				
1.	Hemayetpur, Pabna 35 MW Solar Park (BCRECL)	35	IPP	Solar
2.	Kurigram 51 MW Solar Park	51	IPP	Solar
3.	Payra 20 MW Wind Power Plant (Phase 1) (BCRECL)	20	IPP	Wind
4.	Keraniganj Municipal Solid Waste-to-Energy 1±10% MW PP	1	IPP	Waste
5.	Sheikh Ahmed Dalmuk Al-Maktum 100 MW Solar	100	IPP	Solar
6.	Payra 30 MW Wind PP (2nd Phase) (BCRECL)	30	IPP	Wind
Sub Total (Private)		**237**		
Total		**8,186**		

Implementation, Planning & Development of Renewable Energy Based Project/Systems

Bangladesh government has prioritized the development of renewable energy resources to enhance energy security and establish a sustainable energy regime alongside conventional sources. Consequently, the government has set a target to increase the share of clean energy based generation up to 40% by 2041.

Since 2009, Bangladesh government has systematically taken measures to implement projects based on renewable energy and promote energy efficiency measures to attain the policy target. Bangladesh Power Development Board (BPDB) has emerged as a pivotal entity in advancing toward this goal. In the fiscal year 2022-2023, the following steps were taken for the implementation, planning, and development of the renewable energy sector:

1. Utility Scale Solar PV Projects

At present, grid-connected solar power generation capacity stands at 459 MW, of which 230 MW was installed in the fiscal year 2022-2023.

(i) Projects completed

Sl. No.	Project Name	Capacity	Location	COD	Status
1.	200 MW (AC) Solar Park by Teesta Solar Limited	200 MWp (AC)	Sundarganj, Gaibandha	08-01-2023	On-grid
2.	30MW (AC) Solar Park by Intraco CNG Ltd & Juli New Energy Co. Ltd.	30 MWp (AC)	Gangachara, Rangpur	28-08-2022	On-grid

(ii) Projects under Construction

Sl. No.	Project Name	Capacity (MW)	Ownership
1.	Barishal 1 MW Solar Power Plant	1	BPDB
2.	Sonagazi, Feni 50 MW Solar Power Plant	50	EGCB
3.	Madarganj, Jamalpur 100 MW Solar Power Pant	100	RPCL
4.	Patgram, Lalmonirhat 5 MW Solar Power Plant by Green Housing & Energy Ltd (PV Power Patgram Ltd)	5	IPP
5.	Gowainghat, Sylhet 5 MW Solar Power Plant by Ekisuji & Sun Solar Power Plant Ltd	5	IPP
6.	Bera, Pabna 3.77 MW Solar Power Plant by Soudia Agro Solar PV Power Plant Ltd	4	IPP
7.	Dhormopasha, Sunamganj 32 MW Solar Power Plant by HKGE Consortium Ltd	32	IPP
8.	Tetulia, Panchagarh 30 MW Solar Park by Korotoa Solar limited	30	IPP
9.	Sirajganj 68 MW Solar Power Plant (BCRECL)	68	IPP
10.	Pabna 100 MW Solar Power Plant by Dynamic Sun Energy Private Limited	100	IPP
11.	Pabna 64.55 MW Solar Park (BCRECL)	65	IPP

(iii) LOI/NOA Issued

Sl. No.	Project Name	Capacity (MW)	Ownership
1	Cox's Bazar 100 MW Solar	100	IPP
2	Lama, Bandarban Solar Power Plant	70	IPP
3	Barapukuria 200 MW Solar Power Plant	200	IPP
4	Chakaria 220 MW Wind Power Plant	220	IPP
6	Rampal 300 MW Solar	300	IPP
7	Dimla, Nilphamari 50 MW Solar Power Plant	50	IPP
8	Debiganj, Panchagarh 20 MW Solar Park	20	IPP
9	Moulovibazar, Sylhet 10 MW Solar Power Plant	10	IPP
10	Panchagarh 50 MW Solar Park	50	IPP
11	Baraiyarhat, Chattogram 50 MW Solar Power Plant	50	IPP
12	Terokhada, Khulna 50 MW Solar Power Plant	50	IPP
13	Chuadanga 50 MW Solar Power Plant	50	IPP
14	Madarganj, Jamalpur 100 MW Solar Power Plant	100	IPP
15	Ishwardi, Pabna 70 MW Solar Power Plant	70	IPP
16	Muktagachha, Mymensingh 50 MW Solar Power Plant	50	IPP
17	Trishal, Mymensingh 64 MW Solar Power Plant	64	IPP
18	Muktagachha, Mymensingh 20 MW Solar Power Plant	20	IPP

(iv) Projects under Tendering Process

Sl. No.	Project Name	Capacity (MW)	Ownership
1	Kaptai 7.6 Solar Power Plant	8	BPDB
2	Barapukuria 20 MW Solar Power Plant	20	BPDB
3	Rangunia 50 MW Solar Power Plant	50	BPDB
4	Netrokona 50 MW Solar Power Plant	50	IPP

(v) Projects under Planning

Sl. No.	Project Name	Capacity (MW)	Ownership
	Public		
1	Gazaria 50 MW Solar Power Plant Project	50	RPCL
2	Panchagarh 30 MW Solar Power Plant	30	RPCL
3	Sonagazi, Feni 100 MW Solar Power Plant Project-1	100	EGCB
4	Sonagazi, Feni 100 MW Solar Power Plant Project-2	100	EGCB
6	Sonagazi, Feni 82.50 MW Solar Park	83	BPDB
7	Padma 50 MW Solar Power Plant	50	RPCL
8	Barishal 2 MW Solar PP (Phase-1)	2	BPDB
9	Raypura, Narsingdi 100 MW Solar PP	100	APSCL
10	Barishal 2 MW Solar PP (Phase-2)	2	BPDB
11	Matarbari, Cox's Bazar 50 MW Solar Power Plant	50	CPGCBL
12	Parki Beach 100 MW Solar Power Plant	100	BPDB
13	Sonagazi, Feni 100 MW Solar Power Plant Project-3	100	EGCB
14	Moheshkhali 160-250 MW Solar	160	BPDB

Sl. No.	Project Name	Capacity (MW)	Ownership
	Joint Venture		
1	Matarbari, Cox's Bazar 400±10% MW Solar Power Plant (CPGCBL-Sembcorp)	400	CPGCBL
2	Bay of Bengal Power Company Ltd. 160 MW Solar Power Plant	160	BBPCL
	Private		
1	Hemayetpur, Pabna 35 MW Solar Park (BCRECL)	35	IPP
2	Kurigram 51 MW Solar Park	51	IPP
3	Sheikh Ahmed Dalmuk Al-Maktum 100 MW Solar	100	IPP

2. Wind Power Projects

Sl. No.	Project Name	Capacity (MW)	Ownership
	Ongoing Projects		
1.	Sirajganj 2 MW Wind based Power Plant	2	BPDB
2.	Cox's Bazar 60 MW Wind based Power Plant by US DK Green Energy (BD) Ltd	60	IPP
	LOI/NOA Issued		
1.	Sonagazi, Feni 30 MW Wind Power Plant	30	IPP
	Under Tendering Process		
1.	Inani, Cox's Bazar 50 MW Wind Power Plant	50	IPP
2.	Chandpur 50 MW Wind Power Plant	50	IPP
	Under Planning		
1.	Parki Beach, Anwara, Chattogram 100 MW Wind Power Plant	100	EGCB
2.	Matarbari, Cox's Bazar 50 MW Wind Power Plant	50	CPGCBL
3.	Payra 20 MW Wind Power Plant (Phase 1) (BCRECL)	20	IPP
4.	Payra 30 MW Wind PP (2nd Phase) (BCRECL)	30	IPP

3. Solid Waste to Energy based Power Projects

Sl. No.	Project Name	Capacity (MW)	Ownership
1.	42.5 MW Municipal Solid Waste based Power Plant at Dhaka North City Corporation by China Machinery Engineering Corporation (CMEC).	2	BPDB
2.	Keraniganj Municipal Solid Waste-to-Energy 1±10% MW Power Plant	60	IPP

4. Renewable Energy Based Rooftop Solar Projects

- BPDB has installed solar system of total capacity 2.379 MWp under BPDB distribution divisions and total capacity 366.60 kWp net metering rooftop solar system in the fiscal year 2022-23.

Ongoing Distribution Projects

With the aim of renovation and expansion of existing distribution network for reduction of distribution line loss, electrification of 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				Implementation Period	Cumu. Progress (%)
		BPDB (Crore Tk.)	GoB (Crore Tk.)	Foreign (Crore Tk.)	Total (Crore Tk.)		
1.	Power Distribution System Development, Chattogram Zone (2nd Phase) (1st Revised).	119	2481	0	2600	July, 2018 to June, 2025	52%
2.	Power Distribution System Development Project, Sylhet Division (2nd Revised).	118	1723	0	1841	April, 2016 to June, 2024	85%
3.	Power Distribution System Development Project, Mymensingh Zone (1st Revised).	100	1524	0	1624	January, 2018 to June, 2024	78%
4.	Power Distribution System Development Project, Cumilla Zone.	66	1456	0	1522	January, 2018 to June, 2025	77%
5.	Pre-Payment Metering Project for Distribution Cumilla & Mymensingh Zones. (1st Revised)	99	46	20	165	July, 2013 to June, 2024	38%
6.	Hundred Percent Reliable and Sustainable Electrification of Hatiya Island, Nijhum Island & Kutubdia Island. (1st Revised)	50	597	0	647	July, 2020 to June 2025	96%
7.	Smart Pre-payment Metering Project in Distribution Zones of BPDB.	329	169	121	619	March, 2022 to February 2025	6%

Future Distribution Projects

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

Sl. No.	Name of the Projects	Projects costs			
		BPDB (CroreTk.)	GoB (CroreTk.)	Foreign (CroreTk.)	Total (CroreTk.)
1.	Extension of Power Distribution System Network in Three Hilly Districts.	248	148	2401	2797

Chapter 3

Reforms & Other Activities

Reform & Restructure

Government has given top priority in power sector development and has already attained 100% electrification throughout the country. For sustainable development of the sector, 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 and 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 and Distribution facilities of electricity throughout the country. Now BPDB works as a single buyer of the country. BPDB is engaged in implementing the development program of the GoB in the power sector. To find and ensure optimum utilization of the alternative source of fuel for power generation is also a part of its vision. Bangladesh Power Development Board is performing business in generation of electricity as a GoB wing and distribution of electricity in areas except the areas under the distribution companies
- 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 in 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.
- West Zone Power Distribution Company Ltd. (WZPDCL) was created in 2002 to look after the distribution system of Barisal 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 2x120 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 (1st unit) , 225 MW Combined Cycle Power Plant at Sirajganj (2nd unit), 225 MW Combined Cycle Power Plant at Sirajganj (3rd unit) , 225 MW Combined Cycle Power Plant at Khulna , 410 MW Combined Cycle Power Plant at Bheramara , 6.55 MW grid connected solar plant at Sirajganj and 100 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 Payra, Potuakhali.
- 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.
- 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 better and highly effective under one legal binding in a big organization rather than small corporate power entities.

HRD Activites

BPDB has a vision to provide reliable, sustainable and affordable electricity to the people of Bangladesh with the intention of achieving desired economic and social development of the country. Institutional and structural reforms are the prerequisites to create an organization of international standard. In order to achieve this vision, it is necessary to develop specialized and skilled human resources in the field of operation & maintenance to bring out the outstanding performances. Human resource development is the key for successful implementation of hi-tech nature projects in power sector. Skilled workers can provide optimum and efficient services of the existing facilities to keep the tariff at affordable range as well. Training program plays a very important rule for Human resource development. BPDB has a program to train 60 hours/year/ employee according to the signed APA for FY 2022-2023. It is very important to ensure quality training otherwise all efforts will go in vain.

Achievement against training program conducted during FY 2022-23 is shown below

Sl. No.	Name of Training Center/Academy	No. of Course	Total No. of Trainees
1.	Engineering Academy, Kaptai, Rangamati	78	1979
2.	Regional Training Centre, Tongi, Gazipur.	51	1249
3.	Chattogram Training Centre, Chattogram.	59	1764
4.	Rajshahi Training Centre, Rajshahi	72	2080
5.	Ghorashal Training Centre, Narsingdi	68	1824
6.	Directorate of Training & Career Development, Dhaka.	114	3748
7.	Training Academy, Cox's Bazar	67	2023
8.	On The Job Training	62	2544
9.	Training in Abroad	28	107
10.	Seminar/Workshop	33	588
11.	Training in Other organization	38	112
Total		**670**	**18,018**

BPDB has been implementing all its training programs through Dhaka training and career development center, four regional training center (Tongi, Rajshahi, Chattogram and Ghorashal training center) and two training academy (Engineering Academy at Kaptai and Training academy at Cox's Bazar). These training center and training academy have been providing training courses for both technical and non-technical manpower of BPDB throughout the country. Efforts are underway to establish an organization full of skilled and knowledgeable workers through succession planning strategies.

Chapter 4

Tables and Charts

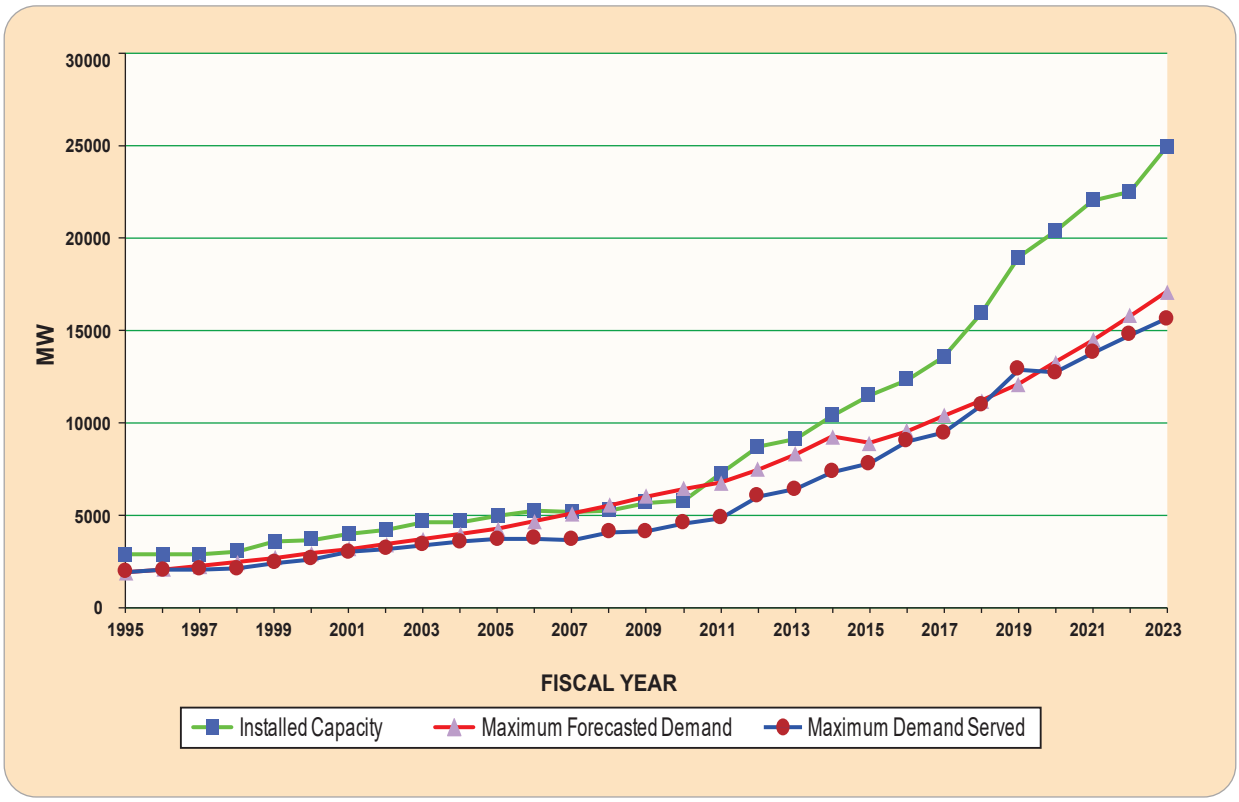
Generation Tables & Charts

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)
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
1997-98	3,091	2,320	2,492	2,136
1998-99	3,603	2,850	2,721	2,449
1999-00	3,711	3,549	2,974	2,665
2000-01	4,005	3,830	3,206	3,033
2001-02	4,234	3,883	3,457	3,218
2002-03	4,680	4,368	3,728	3,428
2003-04	4,680	4,315	4,023	3,592
2004-05	4,995	4,364	4,308	3,721
2005-06	5,245	4,614	4,693	3,782
2006-07	5,202	4,623	5,112	3,718
2007-08	5,305	4,776	5,569	4,130
2008-09	5,719	5,166	6,066	4,162
2009-10	5,823	5,271	6,454	4,606
2010-11	7,264	6,639	6,765	4,890
2011-12	8,716	8,100	7,518	6,066
2012-13	9,151	8,537	8,349	6,434
2013-14	10,416	9,821	9,268	7,356
2014-15	11,534	10,939	8,920	7,817
2015-16	12,365	11,170	9,600	9,036
2016-17	13,555	12,771	10,400	9,479
2017-18	15,953	15,410	11,200	10,958
2018-19	18,961	18,438	12,100	12,893
2019-20	20,383	19,892	13,300	12,738
2020-21	22,031	21,280	14,500	13,792
2021-22	22,482	21,680	15,800	14,782
2022-23	24,911	24,171	17,100	15,648

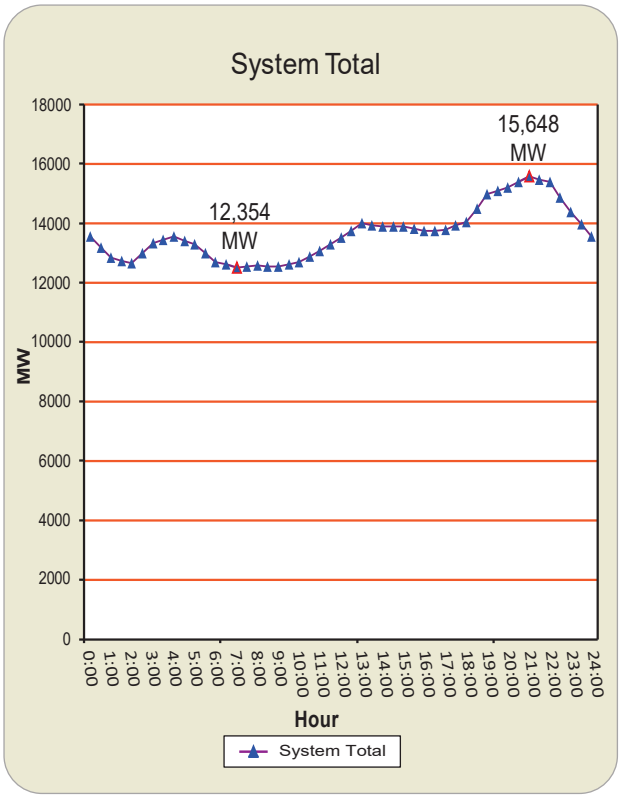
Note :
1. Installed capacity is as of 30th June of the year.
2. Present Capacity (Derated) is the Maximum available generation capacity at present.
3. Maximum Demand is shown as per power system master plan.

Install Capacity, Maximum Forecasted Demand & Maximum Demand Served

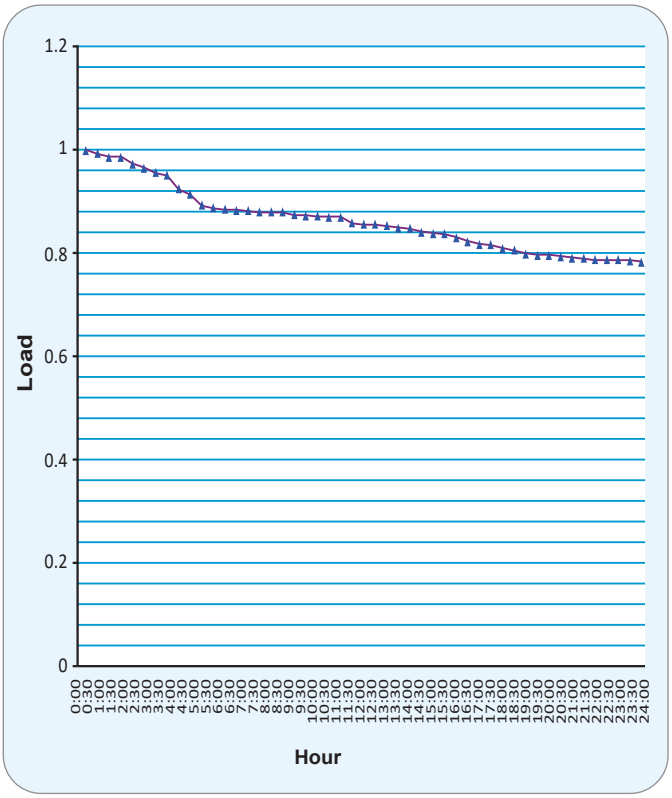


Daily Load Curve

Date : 19-04-2023



Load Duration 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)
2020-21	9,473	4,319	13,792	8.27
2021-22	9,853	4,929	14,782	7.18
2022-23	9,270	6,378	15,648	5.86

Treands of Maximum Generation (Actual)

Plant Wise Installed Generation Capacity (FY 2022-23)

Sl. No.	Name of power plant	Type of Fuel	Generation Capacity Installed (MW) (As on 30 June 2023)
PUBLIC			
DHAKA ZONE			
1	a) Ghorasal Repowered CCPP Unit-3 (GT)	Gas	260
	b) Ghorasal Repowered CCPP Unit-4	Gas	210
	c) Ghorasal TPP Unit-5	Gas	210
	d) Ghorasal TPP Unit-6	Gas	0
2	Ghorasal 365 MW CCPP Unit-7	Gas	365
3	Tongi 80 MW GTPP	Gas	105
4	Haripur GTPP	Gas	32
5	210 MW Shiddirganj TPP	Gas	210
6	Siddhirganj 2x120 MW GTPP	Gas	210
7	Haripur 412 MW CCPP	Gas	412
8	Siddhirganj 335 MW CCPP	Gas	335
9	Gazipur 52 MW PP	F.oil	52
10	Gazipur 100 MW PP	F.oil	105
11	Kodda 150 MW PP	F.oil	149
CHATTOGRAM ZONE			
12	Karnafuli Hydro	Hydro	230
13	Rauzan 210 MW /ST (1st)	Gas	210
	Rauzan 210 MW /ST (2nd)	Gas	210
14	Shikalbaha 150 MW Peaking PP	Gas	150
		HSD	
15	Shikalbaha 225 MW PS	Gas	225
		HSD	
16	Hathazari 100 MW Peaking PP	F.oil	98
17	Sangu, Dohazari-kaliaish 100 MW PPP	F.oil	102
18	RPCL Raozan 25 MW	F.oil	25
19	Mirsarai 150MW Ecconomic Zone	Gas	163
		F.oil	
20	Matarbari 2*600 MW U-1 PS	Imported Coal	
21	Sonagazi 1 MW Wind PP	Wind	0
22	Kutubdia 900KW Wind PP	Wind	0
23	Kaptai Solar	Solar	7
CUMILLA ZONE			
24	Ashuganj TPP Unit-5	Gas	0
25	Ashuganj 50 MW PP	Gas	53
26	Ashuganj 225 MW CCPP	Gas	221
27	Ashuganj 450 MW CCPP (South)	Gas	360
28	Ashuganj 450 MW CCPP (North)	Gas	360
29	Ashuganj 450 MW CCPP (East)	Gas	400
30	Chandpur 150 MW CCPP	Gas	163
31	Titas 50 MW Peaking PP	F.oil	52
SYLHET ZONE			
32	Shahjibazar 70 MW GT, Habiganj	Gas	70
33	Shahjibazar 330 MW CCPP	Gas	330
34	Fenchuganj C.C. (Unit #1)	Gas	97
35	Fenchuganj C.C. (Unit #2)	Gas	104
36	Sylhet 1x20 MW /GT	Gas	20
37	Sylhet 225 MW CCPP	Gas	231
38	Bibiana III 400 MW CCPP	Gas	400
39	Shahazibazar 100 MW GT	Gas	100
40	Bibiyana - South 383 MW CCPP	Gas	383
KHULNA ZONE			
41	Bheramara 3x20 MW /GT	HSD	20
42	Khulna 330	HSD	220
43	Faridpur 50 MW Peaking PP	F.oil	54
44	Gopalganj 100 MW Peaking PP	F.oil	109

Sl. No.	Name of power plant	Type of Fuel	Generation Capacity Installed (MW) (As on 30 June 2023)
45	Bheramara 360 MW CCPP (NWPGCL)	Gas	410
46	Khulna 225 MW (NWPGCL)	Gas	230
		HSD	
47	Modhumoti 105 MW NWPGCL	F.oil	105
BARISHAL ZONE			
48	Barishal 2x20 MW /GT	HSD	0
49	Bhola 225 MW CCPP	Gas	194
RAJSHAHI ZONE			
50	Baghabari 71 MW /GT	Gas	71
	Baghabari 100 MW /GT	Gas	100
51	Baghabari 50 MW Peaking RE	F.oil	52
52	Bera 70 MW Peaking RE	F.oil	71
53	Santahar 50 MW PP	F.oil	50
54	Katakhali 50 MW PP	F.oil	50
55	Chapainobabgonj Peaking Power Station 100 MW, Amnura	F.oil	104
56	Sirajgonj 210 MW CC (NWPGCL) Unit-1	Gas	210
		HSD	
57	Sirajgonj 210 MW CC (NWPGCL) Unit-2	Gas	220
		HSD	
58	Sirajgonj 210 MW CC (NWPGCL) Unit-3	Gas	220
		HSD	
59	Sirajgonj 2 MW Wind Plant	Wind	
60	Sirajgonj 7.6 MW Solar Power Plant	Solar	6
RANGPUR ZONE			
61	Barapukuria Coal based S/T (unit 1,2)	COAL	250
62	Barapukuria Coal based S/T (unit 3)	COAL	274
63	Saidpur 20 MW /GT	HSD	20
64	Rangpur 20 MW /GT	HSD	20
	Total (Grid)		**10,479**
	Isolated East	HSD	0
	Isolated West	HSD	0
	Total PUBLIC		**10,479**
JOINT VENTURE			
1	Payra, Potuakhali 2*660 MW PP Phase 1	Imported Coal	1,244
	Maitree Super Thermal Coal Fired Power Plant (BIFPCL)	Imported Coal	617
	Total JV		**1,861**
PRIVATE			
IPP			
1	Midland Power Co. Ashuganj 51 MW	GAS	51
2	Rural Power Company Ltd.(RPCL)	GAS	210
3	Haripur Power Ltd.	GAS	360
4	Meghnaghat Power Ltd.	GAS	450
5	Regent Energy & Power Ltd 108 MW	GAS	108
6	Ashuganj United Power Co. Ltd.195 MW	GAS	195
7	Summit Bibiyana - II Power Co Ltd. 341 MW	GAS	341
8	Kushiara power Co. Ltd (163MW)CCPP Fenchuganj	GAS	163
9	Sembcorp NWPGCL	GAS	414
10	Summit Meghnaghat Power Co.Ltd.	GAS	335
11	Nutan Biddyut 220MW Bhola	GAS	220
12	Raj Lanka Power Gen.Com. Ltd.Nator 52 MW	F.Oil	52
13	Digital Power & Associates Gagnagar	F.Oil	102
14	Baraka Patenga	F.Oil	50
15	ECPV Chattogram Limited 108 MW	F.Oil	108
16	Lakdhanvi lanka- Bangla Jangalia Cumilla 52MW	F.Oil	52
17	Sinha Peoples Energy Ltd.Katpatti 52.5 MW Exp	F.Oil	51
18	Summit Barishal (110 MW)	F.Oil	110
19	Summit Narayangonj Power unit-2 Madangonj	F.Oil	55
20	Dhaka(Doreen) Northern Power Ltd. Manikgonj	F.Oil	55

Sl. No.	Name of power plant	Type of Fuel	Generation Capacity Installed (MW) (As on 30 June 2023)
21	Dhaka(Doreen) Southern Power Ltd. Nobabgonj	F.Oil	55
22	Powerpac Mutiara Jamalpur Power plant Ltd	F.Oil	95
23	CLC Power Co. Ltd. 108 MW Bosila Keranigonj	F.Oil	108
24	Kamalaghat Banco Energy Generation	F.Oil	54
25	Kodda Gazipur 300MW Power Ltd.(unit-2 Summit)	F.Oil	300
26	United Mymensing Power(UMPL) 200MW Generation	F.Oil	200
27	Kodda Gazipur 149MW Power Ltd.(unit-1 Summit) ACE Alliance	F.Oil	149
28	Lobonchora Orion Power Rupsha Ltd. 105 MW	F.Oil	105
29	Desh Energy Chandpur 200 MW	F.Oil	200
30	Juldha Acorn 100 MW Unit-3	F.Oil	100
31	Ashugonj 150 MW (Midland East)	F.Oil	150
32	Chandpur Power Generation Lid. 115MW	F.Oil	115
33	United Jamalpur PPL	F.Oil	115
34	Confidence CPBL- 2 Bogura	F.Oil	113
35	Baraka Shikalbaha 105MW PS	F.Oil	105
36	United Anwara 300MW PS	F.Oil	300
37	Confidence Power Ltd. 113MW Rangpur	F.Oil	113
38	Potia Jodiac Power	F.Oil	54
39	Shikolbaha Karnaphuli Power Ltd.	F.Oil	110
40	Feni Lanka (Lakdanavi) Power 114 MW PP	F.Oil	114
41	Bogra 113 MW PP (Confidence) Unit-1	F.Oil	113
42	HF 113 MW Power Limited	F.Oil	113
43	Julda 100 MW Unit - 2 (Acorn)	F.Oil	100
44	Manikganj 162MW P0wer Generation	F.Oil	162
45	Orion Power Sonargaon Ltd.	F.Oil	104
46	Anlima Chattogram 116 MW	F.Oil	116
47	Tangail Polly Power 22 MW TPPGCl	F.Oil	22
48	Bhairab Power 54.5 MW	F.Oil	54
49	United Payra PP Patuakhali Imp	F.Oil	150
50	Kanchan Purbachol 55 MW Power Generation	F.Oil	55
51	Energypac Thakurgaon	F.Oil	115
52	Desh Energy Hatia 15 MW (off-grid)	F.Oil	0
53	APR Energy 300MW	HSD	300
54	Daudkandi 200MW(Bangla Trac)	HSD	0
55	Noapara100MW (Bangla Trac)	HSD	0
56	Aggreko, Aourahati 100MW	HSD	0
57	Aggreko, Brahmangaon 100MW	HSD	0
58	Paramount Baghabari BanglaTrack	HSD	200
59	Sharishabari 3 MW Engreen Solar Power Plant	Solar	3
60	20 MW Solar Teknaf	Solar	20
61	Sympa Solar Power 8 MW	Solar	8
62	Sutiakhali 50 MW HDFC Solar Power Plant	Solar	50
63	ERBL Solar 100 MW Mongla	Solar	100
64	Manikganj 35MW Spectra Solar Park Ltd.	Solar	35
65	Intraco Solar Lalmonoirhat	Solar	30
66	Teesta Solar Ltd 200MW	Solar	200
67	Sailo Solar Power Plant Shantahar	Solar	
68	KEPZ Solar	Solar	
69	BRB Solar	Solar	
70	US-DK Wind PP 60 MW, Cox's Bazar	Wind	
71	Barishal Coal	Imported Coal	307
72	S.S. Power	Imported Coal	
	Sub-Total IPP		**8,494**
RENTAL & SIPP			
1	Bogra RPP (24MW) 15 yrs	GAS	22
2	Tangail SIPP (22 MW) (Doreen Power Ltd.)	GAS	22
3	Feni SIPP (22 MW) (Doreen Power Ltd.)	GAS	22
4	Jangalia 33 MW (Summit Purbanchol Po. Co. Ltd.)	GAS	33

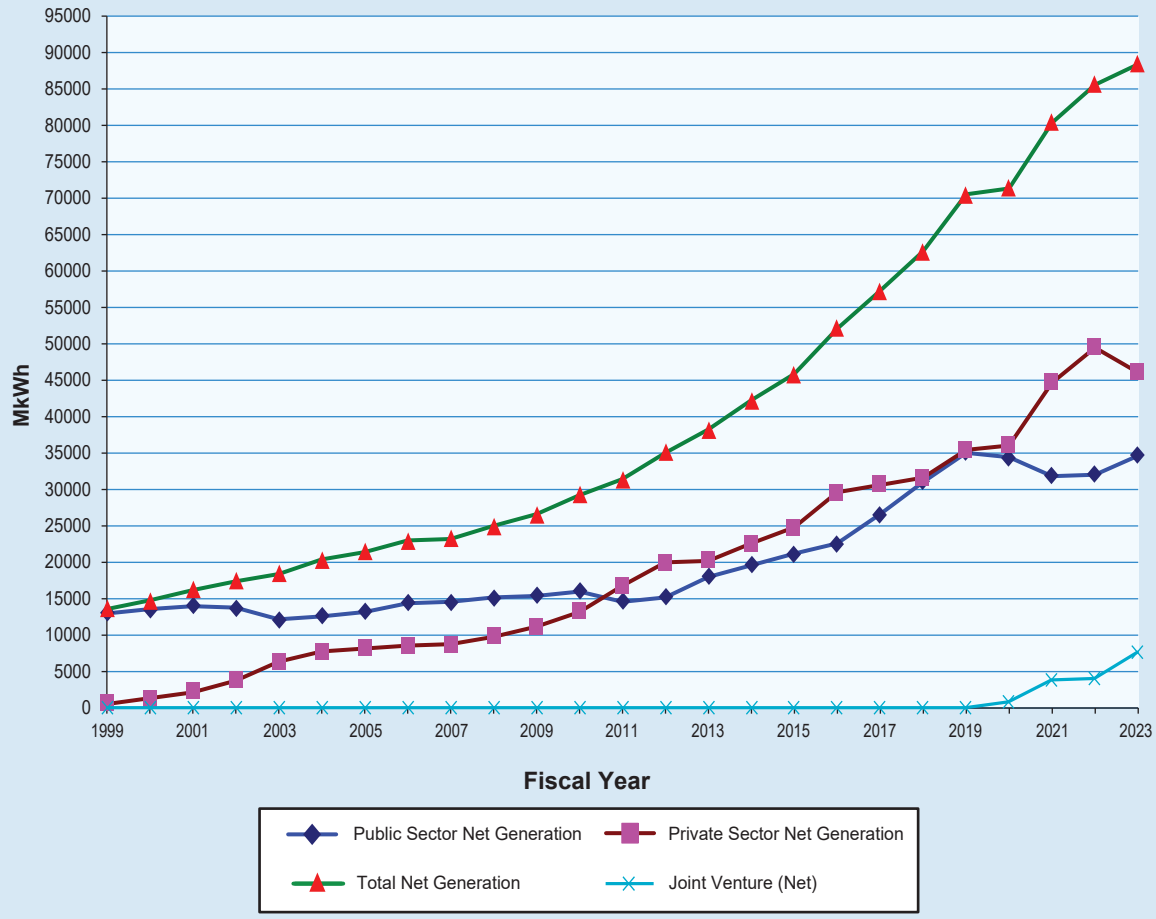
Sl. No.	Name of power plant	Type of Fuel	Generation Capacity Installed (MW) (As on 30 June 2023)
5	Ashugonj 55 MW 3Yrs Rental (Precision Energy)	GAS	55
6	Sylhet 50 MW PP (Energyprima Ltd.[Kumargao])	GAS	0
7	Sahzibazar 86 MW RPP (15 yrs)	GAS	86
8	Kumargao 10 MW Desh Combridge (15 Yrs)	GAS	10
9	Fenchugonj 51 MW Rental (15 Yrs) (Barakatullah)	GAS	51
10	Fenchugonj 50 MW Rental (Energy Prima)	GAS	50
11	Barabkundu SIPP 22 MW (Regent Power)	GAS	22
12	Malancha, EPZ, Ctg (Captive)	GAS	0
13	Bhola 40 MW (Venture Energy Resources Ltd.)	GAS	40
14	Shahjahanullah Power Gen Co. Ltd. (Marchant)	GAS	0
15	KPCL(115 MW) U-2	F.oil	115
16	Khanjahan Ali Noapara 40 MW	F.oil	40
17	Summit Power Co. Ltd Madangonj (100 MW)	F.oil	102
18	IEL, Meghnaghat 100 MW	F.oil	100
19	Shiddirganj Dutchbangla 100 MW	F.oil	100
20	Amnura 50MW Sinha Power	F.oil	50
21	Power Pac Mutiara,Keranigonj,100MW	F.oil	100
22	Julda Acorn Infra.service Ltd.100MW	F.oil	100
23	Katakhali (Northern) Peaking	F.oil	50
	Sub-Total RENTAL& SIPP		**1170.00**
IMPORT			
1	NVVN 250 MW India (Imported) Phase-I	Import	250
2	Tripura 160 MW (Imported) G2G	Import	160
3	PTC 200 MW (Imported) Phase- II	Import	200
4	NVVN 300MW Bharamara Phase- II	Import	300
5	Sembcorp Energy India Ltd. 250MW Phase-I	Import	250
6	Adani Power Ltd., Jharjhand, India	Import	1,496
	Total Energy IMPORT		**2,656**
	SubTotal (REB)		**251**
	GRAND TOTAL		**24,911**

Year Wise Energy Generation (National)

In MkWh

Year	Gross Energy Generation of Public Sector			Net Generation of Public Sector	Joint Venture (Net)	Total Private Generation Inclu. BREB & Import (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	34,415	901	36,102	71,418	1.25	2119.86	-
2020-21	25,104	8,386	33,490	31,916	3,812	44,695	80,423	12.61	1899.54	-
2021-22	25,591	8,072	33,664	32,047	3,998	49,562	85,607	6.45	1936.30	-
2022-23	27,335	9,064	36,399	34,698	7,647	46,104	88,450	3.32	264.39	6388.86

Total Net Energy Generation



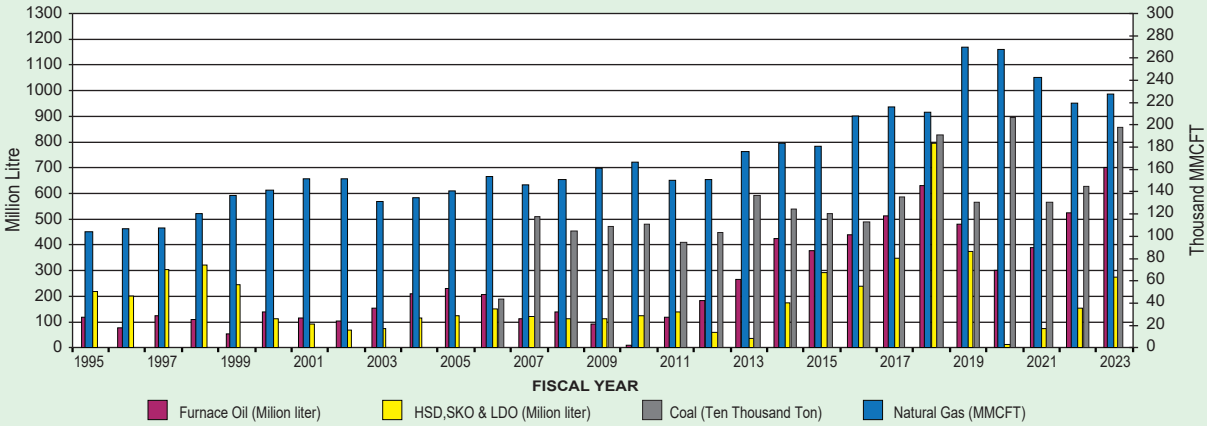
Year Wise Per Capita Generation and Consumption (Grid)

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
2020-21	80,423	169	71,470	475.00	422.13
2021-22	85,607	165	76,667	518.33	464.20
2022-23	88,450	171	79,270	517.89	464.13

* 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	
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	0.89
2020-21	243082.20	389.07	74.00	0.56
2021-22	219534.76	522.80	153.62	0.63
2022-23	227923.96	700.90	274.75	0.86



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
1991-1992	3,337	1,484	4,821	-
1992-1993	3,803	2,157	5,960	23.62
1993-1994	4,085	2,388	6,473	8.61
1994-1995	4,951	3,242	8,193	26.58
1995-1996	5,072	2,828	7,900	(3.58)
1996-1997	4,882	4,376	9,258	17.20
1997-1998	5,809	4,479	10,289	11.13
1998-1999	7,116	3,325	10,441	1.48
1999-2000	7,732	2,080	9,812	(6.02)
2000-2001	8,846	2,533	11,378	15.96
2001-2002	9,152	2,474	11,626	2.18
2002-2003	8,324	3,488	11,813	1.60
2003-2004	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)
2020-2021	35,031	22,184	57,215	(1.12)
2021-2022	45,577	34,780	80,357	40.45
2022-2023	87,248	73,610	160,858	100.18

Fuel Price

SL. No.	Fuel Type	01.07.2021	04.07.2021	08.10.2021	05.11.2021	05.11.2021	16.12.2021	01.01.2022	14.02.2022	10.03.2022	25.03.2022	01.06.2022	06.08.2022	15.08.2022	30.08.2022	01.02.2023	03.04.2023
1.	High speed Diesel oil (TK./ Lit)	59.74	65.00	65.00	65.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	110.30	110.30	105.43	105.43	105.43
2.	Furnace oil (TK./ Lit)	34.46	53.00	59.00	62.00	62.00	60.00	60.00	63.00	67.00	74.00	74.00	74.00	85.00	85.00	85.00	80.00
3.	Natarul Gas (TK./ 1000 Cft)	126	126	126	126	126	126	126	126	126	126	142.14	142.14	142.14	142.14	396.43	396.43
4.	Coal (US $./ M Ton) (Inc. VAT)	136.00	136.00	136.00	136.00	136.00	136.00	184.80	184.80	184.80	184.80	184.80	184.80	184.80	184.80	184.80	184.80

TRANSMISSION TABLES AND CHARTS

Circle Wise Sub-stations Capacity (MVA)

(As of June 2023)

Information about present Grid Sub-station:

i) Summary of 400 kV HVDC Sub-station

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

ii) Summary of 400/230 kV Sub-station Information

S.N.	Circle Name	PGCB		APSCL/BIFPCL	
		No.'s of Sub-station	Capacity (MVA)	No.'s of Sub-station	Capacity (MVA)
01	Cumilla	1	1,040	1	650
02	Dhaka(N)	2	2,925	-	-
03	Dhaka(S)	1	1,040	-	-
04	Khulna	-	-	1	1,040
05	Bogura	1	1,500	-	-
Total		**5**	**6,505**	**2**	**1,690**
Grand Total		**7 No's**	**8,195 MVA**		

iii) Summary of 400/132 kV Sub-station Information

S.N.	Circle Name	PGCB	
		No.'s of Sub-station	Capacity (MVA)
01	Dhaka(N)	1	650
02	Khulna	2	1,625
03	Bogura	1	520
Total		**4 No.'s**	**2,795 MVA**

iv) Summary of Grid Circle wise 230/132kV Sub-station

S.N.	Circle Name	PGCB		BPDB/APSCL	
		No.'s of Sub-station	Capacity (MVA)	No.'s of Sub-station	Capacity (MVA)
01	Bogura	4	2,100	-	-
02	Chattogram	3	1,800	-	-
03	Cumilla	2	1,050	1	**300**
04	Dhaka(N)	5	2,550	1	**250**
05	Dhaka(S)	8	4,725	-	-
06	HVDC	4	2,250	-	-
07	Khulna	2	1,350	-	-
Total		**28**	**15,825**	**2**	**550**
Grand Total		**30 No's**	**16,375 MVA**		

v) Summary of Grid Circle wise 230/33kV Sub-station

S.N.	Circle Name	PGCB		BPDB/Private	
		No.'s of Sub-station	Capacity (MVA)	No.'s of Sub-station	Capacity (MVA)
01	Chattogram	1	280	3	910
02	Khulna	-	140	1	60
Total		1	420	4	**970**
Grand Total		**5 No's**	**1,390 MVA**		

vi) 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	24	5,213	-	-	-	-
02	Chattogram	19	3,399	2	136.6	7	415
03	Cumilla	18	3,421	1	116	1	35
04	Dhaka(N)	22	5,658	1	126	9	2,490
05	Dhaka(S)	13	2,620	-	-	21	3,653
06	HVDC	10	1,913	-	-	-	20
07	Khulna	20	3,554	-	-	-	-
Total		**126**	**25,778**	**4**	**379**	**38**	**6,613**
Grand Total (MVA)		**168 No's**				**32,770 MVA**	

Synopsis of Transmission Lines

(As of June 2023)

A. 400kV 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(N)	163.55	327.1	Double		
7	BSRM- Mirsarai	16.5	33	Double	Twin ACCC Finch	1113 MCM
8	HVDC Bheramara-Bangladesh Border (Baharampur) 2nd	27.91	55.83	Double	Twin Finch	1113 MCM
9	Payra PP - Payra SS	1.2	2.4	Double	Quad ACCC Finch	1113 MCM
10	Banskhali-Madunaghat	55.36	110.72	Double	LL-Quad ACSR Finch	1113 MCM
11	LILO of Matarbari-Madunaghat	3.44	13.74	Four	LL-Quad ACSR Finch	1113 MCM
12	Monakosa-Rahanpur	29.83	59.65	Double	Quad ACSR Finch	1113 MCM
13	Rampal-Gopalganj	96.7	193.4	Double	Quad ACCC Finch	1113 MCM
14	Gopalganj-Aminbazar(With River)	75.3	150.6	Double	Quad ACCC Finch	1113 MCM
15	Gopalganj-Amubazar River Crossing	7.5	15	Double	Quad ACCC Finch	1113 MCM
16	Bogura(West)-Rahanpur	104.96	209.92	Double	Twin ACCC Finch	1113 MCM
17	Barguna PP - Payra PP	27.8	27.8	Single	Single ACSR Finch	1113 MCM
18	Matarbari-Banskhali	37.77	75.54	Double	LL-Quad ACSR Finch	1113 MCM
Total		**996.7**	**1972.46**			

* Presently Operated at 230kV

** Presently Operated at 132kV

B. 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 & AAAC	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 - Comilla 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	Comilla North - Hathazari	151	302	Double	Finch	1113 MCM
11	AES, Haripur - Haripur	2.4	4.8	Double	Finch	1113 MCM
12	Comilla North - Meghnaghat	58	116	Double	Twin Mallard	2x795 MCM
13	Tongi-Aminbazar	25.2	50.4	Double	Twin AAAC	37/4.176 mm.
14	Aminbazar-Hasnabad	21.5	43	Double	Twin AAAC	37/4.176 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	37/4.176 mm.
17	Khulna-Bheramara HVDC	176.5	353	Double	Twin AAAC	37/4.176 mm.
18	Bheramara HVDC-Ishurdi	10.1	20.2	Double	Twin AAAC	37/4.176 mm.
19	Bogra-Barapukuria	106	212	Double	Twin AAAC	37/4.176 mm.
20	Sirajganj-Bogra	72.5	145	Double	Twin AAAC	37/4.176 mm.
21	Ishurdi-Baghabari	55	110	Double	Twin AAAC	37/4.176 mm.
22	Baghabari-Sirajganj	38	76	Double	Twin AAAC	37/4.176 mm.
23	Fenchuganj-Bibiyana	33.19	67.37	Double	Twin Mallard	2x795 MCM
24	Bibiyana-Comilla(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-Barisal	62.5	125	Double	Twin Mallard	2x795 MCM
29	LILO of Comilla(N)-Hathazari line at BSRM	0.18	0.72	Double	Finch	1113 MCM
30	LILO of Comilla(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 AAAC	-

Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
32	Bheramara HVDC-Bheramara 230	3	12	Double	Twin AAAC	-
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 Mallard	2x795 MCM
42	Ishurdi-Rajshahi	79.12	158.24	Double	Twin Mallard	2x795 MCM
43	LILO of Bheramara-Khulna (S) at Jhenaidah	1.97	7.87	Four	Twin Mallard	2x795 MCM
44	Sikalbaha-Hathazari	28.35	56.7	Double	Quad Mallard	4x795 MCM
45	Mongla- Khulna(S)	23.86	47.71	Double	Twin Mallard	2x795 MCM
46	Barishal(N)-Gopalganj	74.93	149.86	Double	Twin ACCC Mallard	2x795 MCM
47	Gopalganj-Faridpur	48.88	97.76	Double	Twin ACCC Mallard	2x795 MCM
48	LILO of Sikalbaha-Hathazari at Madunaghat(N)	5.85	23.4	Double	Quad Mallard	4x795 MCM
49	Rooppur-Baghabari	65.31	130.62	Double	Twin ACCC Mallard	2x795 MCM
50	Khula 330MW-Khula(S)	14	14	Single	-	-
51	LILO of Bogura-Barapukuria at Bogura(West)	11.07	44.26	Double	Twin Mallard	2x795 MCM
52	LILO of Ashuganj-Sirajganj at Sreepur	1.4	5.6	Four	Twin Mallard	2x795 MCM
Total		**2066.63**	**4235.72**			

C. 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	ACCC 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	636 MCM
12	Fenchuganj-Sylhet	31.7	63.4	Double	ACCC Grosbeak	636 MCM
13	Sylhet-Chhatak	32.9	65.8	Double	Grosbeak	636 MCM
14	Kaptai-Hathazari	45	90	Double	Grosbeak	636 MCM
15	Hathazari-Baroirhat	63.3	126.512	Double	Grosbeak	636 MCM
16	Feni-Comilla (N)	66	132	Double	Grosbeak	636 MCM
17	Comilla (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	Comilla (N)-Chandpur	77.5	77.5	Single	Linnet + Grosbeak	(336.4 + 636) MCM
23	Comilla (N)-Comilla (S)	16	16	Single	Grosbeak	636 MCM
24	Comilla (S)-Chandpur	62	62	Single	ACCC Linnet	336.4 mCM
25	Ashuganj-Kishoreganj	52	104	Double	ACCC Grosbeak	636 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	636 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

Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
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	ACCC 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	804 MCM
48	Khulna (C)-Noapara	22.8	45.6	Double	AAAC	804 MCM
49	Noapara-Jessore	27.9	55.8	Double	AAAC	804 MCM
50	Jessore-Jhenaidah	47.5	95	Double	AAAC	804 MCM
51	Jhenaidah-Kustia	43	86	Double	ACCC AAAC	804 MCM
52	Kustia-Bheramana	23	46	Double	ACCC Grosbeak	804 MCM
53	Bheramara-Ishwardi	10	20	Double	AAAC	804 MCM
54	Ishwardi-Natore	42	84	Double	AAAC	804 MCM
55	Natore-Bogra	61	122	Double	AAAC	804 MCM
56	Bogra-Palashbari	50	100	Double	AAAC	804 MCM
57	Palashbari-Rangpur	52	104	Double	AAAC	804 MCM
58	Rangpur-Saidpur	41.5	83	Double	AAAC	804 MCM
59	Saidpur-Purbasadipur	24.5	49	Double	ACCC Grosbeak	804 MCM
60	Purbasadipur-Thakurgaon	45	90	Double	AAAC	804 MCM
61	Barisal-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	Barisal-Patuakhali	38.2	38.2	Single	HAWK	477 MCM
65	Bheramara-Faridpur	105	210	Double	ACCC HAWK	477 MCM
66	Faridpur-Madaripur	65.5	131	Double	HAWK	477 MCM
67	Madaripur-Barisal(N)	49	97	Double	HAWK	477 MCM
68	Barishal(N)-Barishal	10	20	Double	ACCC HAWK	477 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	Bogra-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	Bogra-Naogaon	44	88	Double	ACCC Grosbeak	636 MCM
80	Kabirpur-Tangail	51	102	Double	ACCC/ACSR Grosbeak	636 MCM
81	Tongi-Mirpur	17	17	Single	ACCC Grosbeak	636 MCM
82	Tongi-Uttara	14.5	14.5	Single	ACCC Grosbeak	636 MCM
83	Uttara-Mirpur	8.5	8.5	Single	ACCC Grosbeak	636 MCM
84	Mirpur-Aminbazar	7	14	Double	ACCC Grosbeak	636 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	XLPE	500 sq.mm
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-Narinda	5	10	Double	Cu.Cable	240 sq.mm
102	Ullon-Dhanmondi	5.5	11	Double	Cu.Cable	240 sq.mm
103	Ullon-Dhanmondi	5.5	11	Double	XLPE	500 sq.mm
104	Tongi-Kabirpur	22.5	45	Double	Grosbeak	636 MCM

Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
105	Kabirpur-Manikganj	32	64	Double	Grosbeak	636 MCM
106	Ullon-Rampura	4	8	Double	Grosbeak	636 MCM
107	Rampura-Bashundhara	8	16	Double	Grosbeak	636 MCM
108	Bashundhara-Tongi	11	22	Double	Grosbeak	636 MCM
109	Rampura-Moghbazar	4.5	9	Double	Grosbeak	636 MCM
110	Ghorasal-Joydevpur	28	56	Double	Grosbeak	636 MCM
111	Baghabari-Shahjadpur	5.5	5.5	Single	Grosbeak	636 MCM
112	Chandpur-Chowmuhani	68	136	Double	Grosbeak	636 MCM
113	Barapukuria-Rangpur	42	84	Double	Grosbeak	636 MCM
114	Barapukuria-Saidpur	36	72	Double	ACCC AAAC	636 MCM
115	Madaripur-Gopalganj	45	45	Single	AAAC	804 MCM
116	Khulna (C)-Khulna(S)	9	18	Double	Twin AAAC	37/4.176 mm.
117	Khulna(S)-Satkhira	47	94	Double	AAAC	804 MCM
118	Rajshahi-Natore	40	40	Single	Grosbeak	636 MCM
119	Rampura-Gulshan	3.3	6.6	Double	XLPE	800 sq.mm
120	Sikalbaha-Bakulia	4	8	Double	Grosbeak	636 MCM
121	Juldah-Shahmirpur	6	12	Double	Grosbeak	636 MCM
122	Khulshi-Bakulia	15	30	Double	Grosbeak	636 MCM
123	Haripur-Maniknagar	13	13	Single	Grosbeak	636 MCM
124	Joydevpur-Kodda PP	8	16	Double	Grosbeak	636 MCM
125	Kodda PP-Kabirpur	10	20	Double	Grosbeak	636 MCM
126	Sikalbaha-Shahmirpur	9	18	Double	Grosbeak	636 MCM
127	Khulshi-Halishahar	13	13	Single	Grosbeak	636 MCM
128	BograOld-BograNew	1.5	3	Double	Twin AAAC	37/4.176 mm.
129	Ashuganj-Shahjibazar	53	53	Single	Grosbeak	636 MCM
130	Khulna (S) -Gallamari	4.2	8.4	Double	Grosbeak	636 MCM
131	Naogaon-Niyamatpur	46	46	Single	AAAC	804 MCM
132	Aminbazar-Savar	15.8	31.6	Double	Grosbeak	636 MCM
133	Jhenaidah-Magura	26.5	53	Double	Grosbeak	636 MCM
134	Jhenaidah-Chuadanga	39.3	39.3	Single	Grosbeak	636 MCM
135	Naogaon-Joypurhat	46.2	46.2	Single	Grosbeak	636 MCM
136	Thakurgaon-Panchagarh	45	45	Single	AAAC	636 MCM
137	Sonargaon S/S to Megnaghat Rental PP	5	10	Double	Grosbeak	636 MCM
138	Shiddhirganj to Siddhirganj Dutch Bangla PP	2.4	2.4	Single	Grosbeak	636 MCM
139	Goalpara-Khulna ©	2.4	2.4	Single	XLPE	637 MCM
140	Noapara PP to Noapara Ss	1.6	1.6	Single	Grosbeak	638 MCM
141	Daudkandi PP to Daudkandi ss	1.3	1.3	Single	Grosbeak	639 MCM
142	Gopalganj PP to Gopalganj ss	1.2	1.2	Single	Grosbeak	640 MCM
143	Shiddhirganj desh energy PP to Siddhirganj ss	2.5	2.5	Single	Grosbeak	641 MCM
144	Faridpur PP to Faridpur -Bheramara	1	1	Single	Grosbeak	642 MCM
145	Bera PP to Baghabari -Ishwardi line	4.5	4.5	Single	Grosbeak	643 MCM
146	Amnura PP to Rajshahi-Chapai	12.6	12.6	Single	Grosbeak	644 MCM
147	Madanganj-Munsiganj	4	8	Double	Grosbeak	645 MCM
148	Old Airport-Cantonment	7	13.98	Double	XLPE	800 sq.mm
149	Fenchuganj- Kulaura	25	50	Double	Grosbeak	636 MCM
150	Jamalpur- Sherpur	20	40	Double	Grosbeak	636 MCM
151	Old Airport-Sajmasjid	8.3	16.588	Double	XLPE	800 sq.mm
152	Rampura-Madertek	4.5	9	Double	XLPE	500 sq.mm
153	Comilla(N)- Comilla(S)	19	38	Double	Grosbeak	636 MCM
154	Goalpara-Bagerhat	45	90	Double	Grosbeak	636 MCM
155	LILO of Kabirpur-Tangail at Kaliakoir	4.3	17.12	Four	ACCC/ACSR Grosbeak	636 MCM
156	Tangail-RPCL	93.4	186.88	Double	Grosbeak	636 MCM
157	Amnura-Chapai Nawabganj	12.6	12.6	Single	Grosbeak	636 MCM
158	Kaliakoir-Dhamrai	22.7	45.46	Double	Grosbeak	636 MCM
159	Rangamati-Khagrachari	52.3	104.6	Double	Grosbeak	636 MCM
160	Chandraghona-Rangamati	27.7	55.4	Double	Grosbeak	636 MCM
161	Chhatak-Sunamganj	32.1	64.1	Double	Grosbeak	636 MCM
162	Beanibazar-Sylhet T-Connection	30	60	Double	Grosbeak	636 MCM
163	LILO of Tongi-Mirpur Single circuit at Uttara 3P	1.1	2.2	Single	XLPE	800sq
164	T-connection from Dohazari-Cox's Bazar to Matarbari	18.1	18.1	Single	Grosbeak	636 MCM
165	Feni- Baroirhat	28.4	56.9	Double	ACCC Grosbeak	636 MCM

Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
166	Brahmanbaria-Narsingdi	54.8	109.6	Double	Grosbeak	636 MCM
167	Saidpur-Jaldhaka	30	59.902	Double	Grosbeak	636 MCM
168	RNPP-Ishurdi	7	14	Double	Grosbeak	636 MCM
169	Confedence PP - Bogura 230kV	7.9	15.7	Double	Grosbeak	637 MCM
170	LILO of Jamalpur-Sherpur at United PP	3.3	13.36	Four	Grosbeak	638 MCM
171	LILO of Goalpara-Bagerhat single circuit at Labanchora PP	6.2	12.3	Double	Grosbeak	639 MCM
172	Mymensingh-Bhaluka	43	86	Double	Grosbeak	636 MCM
173	LILO of Bogura-Palashbari at Mahasthangarh	0.7	1.36	Double	Grosbeak	636 MCM
174	Modhumati PP - Gopalganj	14.6	14.6	Single	Grosbeak	636 MCM
175	Jashore-Benapole	30.5	60.936	Double	Grosbeak	636 MCM
176	Madaripur-Shariatpur	22	44	Double	Grosbeak	636 MCM
177	LILO of Shyampur-Haripur at Shyampur	0.2	0.792	Four	Grosbeak	636 MCM
178	Rangpur-Kurigram	40.95	40.949	Single	Grosbeak	636 MCM
179	Magura-Narail	39.486	78.972	Double	Grosbeak	636 MCM
180	LILO of Bogura-Sirajganj at Sherpur (Bogura)	0.654	2.616	Four	Grosbeak	636 MCM
181	LILO of Rajshahi-Chapai-Nawabganj-Amnura at Rajshahi (N)	0.406	1.624	Four	Grosbeak	636 MCM
182	Rampura-Aftabnagar	3.66	7.32	Double	XLPE	800sq
183	LILO of Feni-Cumilla(N) at Chowddagram	0.788	3.152	Four	Grosbeak	636 MCM
184	LILO of Faridpur-Madaripur line at Gopalganj(N)	1.53	6.12	Four	ACCC Grosbeak	636 MCM
185	LILO of Gopalanj-Madaripur line at Gopalganj(N)	10.5	42	Four	Grosbeak	636 MCM
186	Kodda - Rajendrapur	24.7	49.4	Double	ACCC Grosbeak	636 MCM
187	LILO of Rangpur-Palashbari at Confidence PP	1.47	5.88	Four	AAAC	636 MCM
188	LILO of Khulshi - Halishahar at Rampur	2.775	5.55	Four	XLPE	800sq
189	Rampur-Agrabad	4.54	9.08	Double	XLPE	800sq
190	Keraniganj-Sreenagar	15.854	31.708	Double	Grosbeak	636 MCM
191	Keraniganj-Nawabganj	27.076	54.152	Double	Grosbeak	636 MCM
192	LILO of Shyampur-Haripur at Fatullah	0.9	3.6	Double	XLPE	800sq
193	DU- Dhanmondi	2.1	4.2	Double	XLPE	500sq
194	Bagerhat-Mongla	28.57	57.14	Double	Grosbeak	636 MCM
195	Baghabari-Bangura	24.84	49.68	Double	Grosbeak	636 MCM
196	Bakerganj-Barguna	50.22	50.22	Single	Grosbeak	636 MCM
197	Gallamari- Gopalganj	51.8	103.6	Double	Grosbeak	636 MCM
198	Gopalganj - Madaripur 2nd Ckt	45	45	Single	Grosbeak	636 MCM
199	LILI of Rangpur-Palashbari line at Mithapukur	0.55	2.2	Four	Grosbeak	636 MCM
200	Maniknagar-Kazla	2.5	5	Double	XLPE	800sq
201	Hasnabad-Keraniganj PP line re-routing at Keraniganj	2.8	11.2	Four	Grosbeak	636 MCM
202	Purbachal-Basundhara	4.731	9.462	Double	XLPE	800sq
203	Banani-Basundhara	13.293	26.586	Double	XLPE	800sq
204	LILO of Bhermara-Fardipur at Rajbari	1.144	4.576	Four	Grosbeak	636 MCM
205	S/c LILO of Jhenaidah- Chuadanga at Jhenaidah	2.915	5.83	Double	Grosbeak	636 MCM
206	Keraniganj-Lalbagh & Kamrangirchar four circuit	3.124	12.496	Four	Grosbeak	636 MCM
207	Tongi-Tongi-3 (Mill Gate)	2.612	5.224	Double	XLPE	800sq
208	LILO of Jessore-Jhenaidah d/c line at Jhenaidah	0.366	1.464	Four	Grosbeak	636 MCM
209	Manaknagar-Motijheel	2.1	4.2	Double	XLPE	800sq
210	Motijheel-Bangabhaban	0.55	1.1	Double	XLPE	800sq
211	Madanganj-Char Saidpur	3.1	6.2	Double	Mallard+XLPE	800sq
212	Kamrangirchar-Zigatola	7	14	Double	XLPE	800sq
213	Energaon-Mongla	8.92	8.92	Single	Grosbeak	636 MCM
214	Hasnabad-Postogola	2	4	Double	XLPE	800sq
215	Bashundhara-Purbachal	5.636	11.272	Double	XLPE	800sq
216	Chapai Nawabganj-Rahanpur	25.876	51.752	Single	ACCC Grosbeak	636 MCM
217	LILO of Madunaghat-Khulshi at Sholoshahar	0.15	0.3	Single	XLPE	800sq
218	Madunaghat-Kalurghat	7.096	14.192	Double	XLPE	800sq
219	Khulshi-Halishahar LILO at Rampur	2.68	5.36	Single	XLPE	800sq
220	Sudarganj Solar - Rangpur	35.7	71.4	Double	Grosbeak	636 MCM
221	Rampura-Dhaka University	7.48	14.96	Double	XLPE	800sq
222	Aminbazar 400/132kV transformer connecting 132kV line	1	0.413	Single	-	-
223	Sripur-Bhaluka	22.392	44.784	Double	Grosbeak	636 MCM
Total		**5011.314**	**8508.804**			

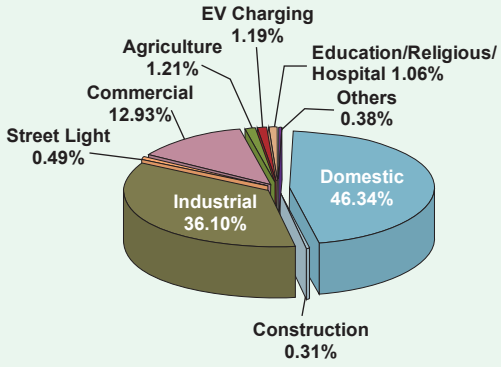
DISTRIBUTION TABLES AND CHARTS

Distribution Zone Wise Energy Import and Energy Sales Statistics of BPDB

Distribution Zone's Name	Energy Imported (MkWh)		Energy Sold (MkWh)		System loss (%)		
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	% Change over previous year
Mymenshing	2509.39	2616.39	2274.58	2376.56	9.36%	9.17%	-2.04
Chattogram	4715.51	4765.62	4397.81	4457.11	6.74%	6.47%	-3.91
Cumilla	1841.96	1932.47	1669.61	1754.90	9.36%	9.19%	-1.80
Sylhet	1048.10	1092.76	954.00	993.99	8.98%	9.04%	0.67
Others (132kV & Power Station)	2899.67	2488.16	2899.38	2487.92	0.010%	0.010%	-4.56
Total	**13014.63**	**12895.40**	**12195.38**	**12070.48**	**6.29%**	**6.40%**	**1.62**

Consumption Pattern of BPDB

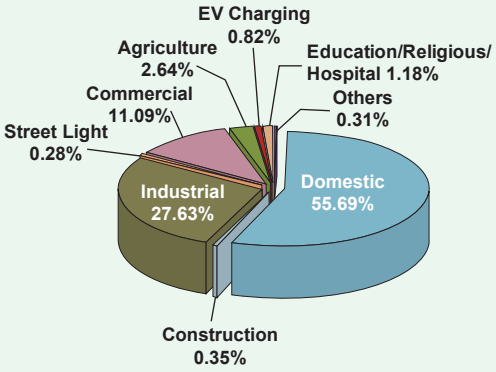
(FY 2022-23)



Total Retail Consumption : 12,070 MkWh

Consumption Pattern of the Country

(FY 2022-23)



Total Retail Consumption : 79,270 MkWh

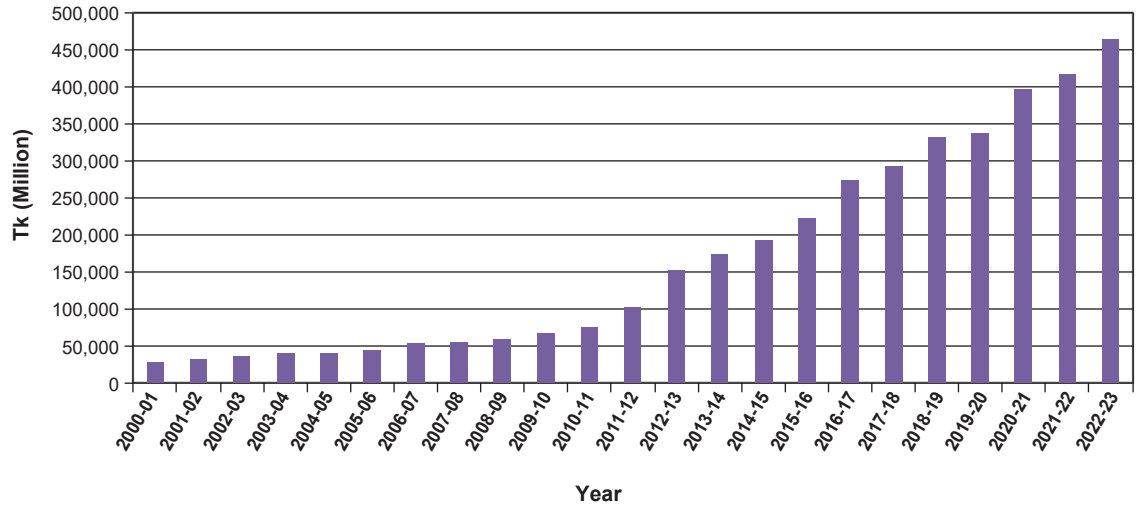
Distribution Zone Wise Billing & Collection Statistics of BPDB

Distribution Zone's Name	Billed Amount (Million Tk)		Collected Amount (Million Tk)		Accounts Receivable (Million Tk)			Coll/Bill Ratio (%)		C/I Ratio (%)	
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	% increase over the previous year	2021-22	2022-23	2021-22	2022-23
Mymenshing	13,790	15,535	14,251	15,582	4,480	4,433	-1.05	103.34%	100.30%	93.67%	91.11%
Chattogram	31,920	34,798	32,274	35,000	3,124	2,922	-6.46	101.11%	100.58%	94.29%	94.07%
Cumilla	11,642	13,079	11,674	13,046	1,988	2,022	1.67	100.28%	99.75%	90.89%	90.58%
Sylhet	6,663	7,626	6,997	7,719	1,548	1,447	-6.57	105.01%	101.23%	95.58%	92.08%
Others (132kV & Power Station)	24,281	22,203	24,400	22,253	2,377	2,326	-2.16	100.49%	100.22%	100.48%	100.21%
Total	**88,297**	**93,242**	**89,596**	**93,600**	**13,517**	**13,149**	**-2.73**	**101.47%**	**100.38%**	**95.08%**	**93.96%**

Revenue Collection (Utility)

Year	Million Taka	% Change over previous year
1995-1996	16,791	7.05
1996-1997	16,015	-4.62
1997-1998	17,199	7.39
1998-1999	16,235	-5.61
1999-2000	22,450	38.28
2000-2001	27,017	20.34
2000-2002	31,373	16.12
2002-2003	36,066	14.96
2003-2004	39,608	9.82
2004-2005	39,177	-1.09
2005-2006	44,284	13.03
2006-2007	52,799	19.23
2007-2008	54,060	2.39
2008-2009	58,922	8.99
2009-2010	66,776	13.33
2010-2011	74,303	11.27
2011-2012	102,242	37.60
2012-2013	151,711	48.38
2013-2014	174,740	15.18
2014-2015	193,013	10.46
2015-2016	222,382	15.22
2016-2017	274,355	23.37
2017-2018	293,725	7.06
2018-2019	332,294	13.13
2019-2020	337,846	1.67
2020-2021	397,609	17.69
2021-2022	418,075	5.15
2022-2023	464,294	11.06

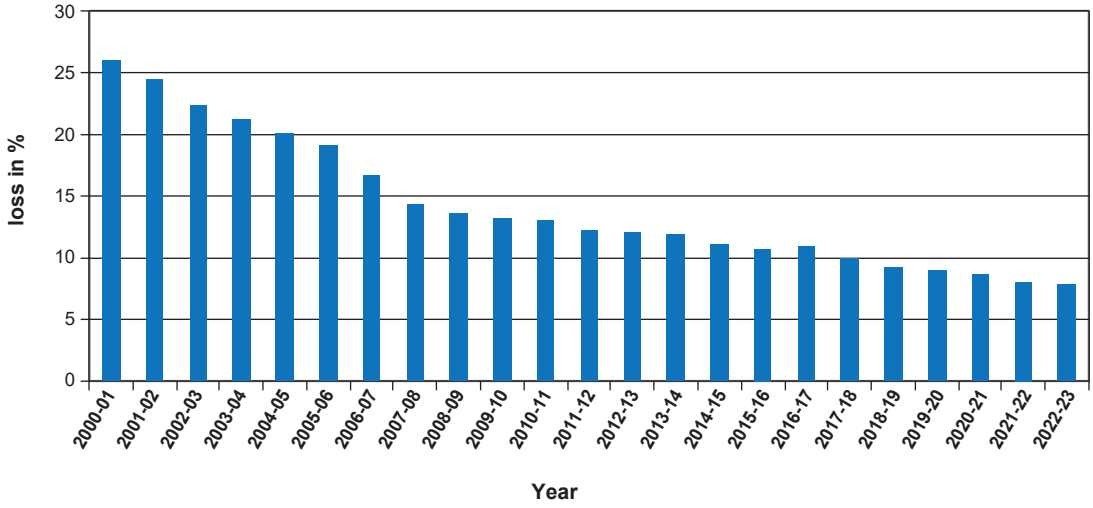
Net Revenue Collection



Distribution System Loss (BPDB)

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	24.50
2002-03	22.35
2003-04	21.33
2004-05	20.00
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
2020-21	8.50
2021-22	8.10
2022-23	7.92

Distribution System Loss



Category Wise Consumer (BPDB)

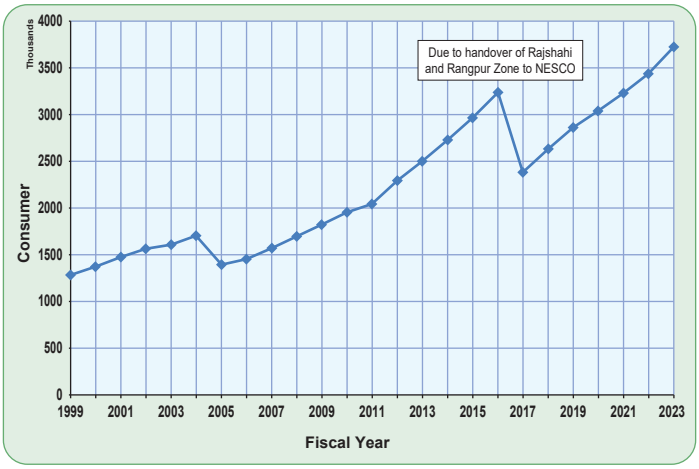
In Nos.

Year	Domestic	Agriculture	Small Industrial	Small Commercial	Large Inds. & Comm.	REB	DPDC/ Others	DESCO	WZPDCL	NESCO	Others	Total	% Increase Over the Preceeding Year
	LT-A	LT-B	LT-C1+ LT-C2	LT-E+ LT-Tem	MT-1+MT-2+ MT-3+MT-4+ MT-5+MT-6+ EHT-1+EHT-2+ HT-1+HT-2+ HT-3+HT-4	I1	G1	I2	I3	I5	LT-D1+ LT-D2+ LT-D3		
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	1,299	82	1	-	-	-	15,924	903,001	-26.22
1992-93	649,173	16,670	36,969	230,096	1,380	93	1	-	-	-	18,227	952,609	5.49
1993-94	708,118	17,854	38,395	237,922	1,442	102	1	-	-	-	22,015	1,025,849	7.69
1994-95	750,273	17,974	39,702	245,234	1,491	118	1	-	-	-	20,941	1,075,734	4.86
1995-96	811,370	19,807	41,313	260,167	1,519	130	1	-	-	-	22,365	1,156,672	7.52
1996-97	858,354	17,878	42,248	267,197	1,600	143	1	-	-	-	22,711	1,210,132	4.62
1997-98	923,117	18,387	43,856	283,032	1,719	158	1	-	-	-	23,393	1,293,663	6.90
1998-99	963,319	17,142	43,742	287,636	1,753	178	1	-	-	-	23,099	1,336,870	3.34
1999-00	1,043,977	17,872	44,793	299,896	1,806	179	1	-	-	-	24,293	1,432,817	7.18
2000-01	1,134,074	18,293	45,816	316,629	1,895	182	1	-	-	-	25,760	1,542,650	7.67
2001-02	1,221,324	17,215	46,068	331,224	2,004	199	1	-	-	-	26,720	1,644,755	6.62
2002-03	1,270,727	15,084	44,432	331,997	2,043	212	1	-	-	-	25,955	1,690,451	2.78
2003-04	1,359,724	14,284	44,018	347,635	2183+3	246	1	1	-	-	26,863	1,792,772	6.05
2004-05	1,114,679	12,484	34,472	273,957	1,870	266	1	1	1	-	21593	1,459,324	-18.60
2005-06	1,165,265	14,911	34,574	280,079	2,013	275	1	1	1	-	21771	1,518,891	4.08
2006-07	1,272,144	17,693	35,561	297,213	2,167	184	1	1	1	-	23446	1,648,411	8.53
2007-08	1,385,424	21,191	37,065	312,041	2,303	185	1	1	1	-	25083	1,783,295	8.18
2008-09	1,495,195	25,175	39,114	333,818	2,538	70	1	1	1	-	26333	1,922,246	7.79
2009-10	1,621,596	28,724	40,903	345,605	2,694	70	1	1	1	-	27628	2,067,223	7.54
2010-11	1,704,936	30,523	41,607	351,673	2,852	70	1	1	1	-	27846	2,159,510	4.46
2011-12	1,947,827	36,506	43,241	372,245	3,190	70	1	1	1	-	28973	2,432,055	12.62
2012-13	2,146,940	39,810	44,809	386,947	3,472	70	1	1	1	-	31968	2,654,019	9.13
2013-14	2,378,278	45,042	45,792	396,776	3,788	71	1	1	1	-	31559	2,901,309	9.32
2014-15	2,606,764	49,937	47,215	416,197	4,134	71	1	1	1	-	32783	3,157,104	8.82
2015-16	2,868,941	54,952	48,764	444,140	4,483	82	1	1	1	-	35899	3,457,264	9.51
2016-17	2,111,564	32,951	31,396	321,931	3,525	84	1	1	1	1	25227	2,526,682	-26.92 ★
2017-18	2,360,627	34,807	38,041	336,526	3,861	85	1	1	1	1	28000	2,801,951	10.89
2018-18	2,573,705	35,727	39,129	361,479	4,228	84	1	1	1	1	31901	3,046,257	8.72
2019-20	2,749,620	36,922	42,022	369,081	4,523	80	1	1	1	1	34634	3,236,886	6.26
2020-21	2,935,953	36,421	44,212	391,289	4,860	81	1	1	1	1	38714	3,451,534	6.63
2021-22	3,128,923	37,824	47,205	409,637	5,196	81	1	1	1	1	41946	3,670,816	6.35
2022-23	3,388,588	41,462	50,401	444,550	5,975	89	1	1	1	1	49364	3,980,433	8.43

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 Rajshahi and Rangpur zone to NESCO.

Trends of Consumer Growth



Electrification of Thanas, 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**	201	5,651	1,592	33,982
2020-21**	204	6,470	1,792	37,371
2021-22**	214	7,029	1,848	36,839
2022-23**	216	7,476	2,114	39,022

* Excluding DPDC, DESCO, WZPDCO & BREB

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

Total Electrified Areas & Consumer Numbers of BPDB

(As of June 2023)

Sl. No.	Name of Divi./ESU	Total Electrified Area				
		Thana/ Upazila	Ward	Village	Hat / Bazar	Deep, Shallow & Low Fit Pump
Southern Zone, Chattogram						
O & M Circle, Chatta-Metro (East)						
1	S&D Kalurghat	4	5	0	4	0
2	S&D Pathorghata	4	8	0	8	0
3	S&D Stadium	3	5	0	8	3
4	S&D Bakalia	5	5	0	10	0
5	S&D Madarbari	3	4	0	5	0
6	S&D Sholoshahar	3	4	0	9	0
O & M Circle, Chatta-Metro (West)						
7	S&D Agrabad	3	6	0	8	0
9	S&D Halishahar	2	3	0	4	0
8	S&D Newmooring	3	3	0	5	0
10	S&D Pahartoli	4	6	1	6	0
11	S&D Rampur	3	3	0	0	6
12	S&D Khulshi	4	6	0	8	0
O & M Circle, Chatta-Metro (North)						
13	S&D Fouzdarhat	1	4	20	14	-
14	S&D Sandwip	1	90	15	100	3
15	S&D Barabkunda	1	37	90	32	2
16	S&D Hathazari	1	26	40	17	30
17	S&D Mohora	2	25	39	16	9
O & M Circle, Chatta-Metro (South)						
18	Distribution Division, Patya	3	42	111	53	5
	Satkania ESU	1	9	12	3	201
	Dohazari ESU	2	27	110	6	119
19	Distribution Division, Cox's Bazar	2	16	116	9	99
	Ramu Electric Spply	2	56	180	8	249
20	S&D Chakaria	2	51	105	25	376
	Kutubdia Electric Spply	1	54	35	18	6
	Lama Electric Spply	2	9	342	17	109
O & M Circle, Rangamati						
21	Distribution Division, Rangamati	3	42	88	10	6
	Kaptai ESU	3	33	78	8	16
	Betbunia ESU	1	15	61	6	21
	Marisha ESU	1	9	31	4	19
22	Distribution Division, Bandarban	1	0	178	14	20
	Rownchori ESU	1	0	115	9	2
	Ruma ESU	1	0	80	7	0
	Thanchi ESU	1	0	72	9	0
23	Distribution Division, Khagrachori	1	54	184	75	36
	Panchori ESU	2	45	171	45	29
	Dhighinala ESU	2	90	56	52	23
	Mohalchori ESU	2	90	220	26	18
	Matiranga ESU	2	90	177	22	43
	Manikchori ESU	2	90	147	23	25
	Ramgarh ESU	1	54	96	15	57
	Sub Total	**86**	**1116**	**2970**	**718**	**1532**

Sl. No.	Name of Divi./ESU	Total Electrified Area				
		Thana/ Upazila	Ward	Village	Hat / Bazar	Deep, Shallow & Low Fit Pump
Cumilla Zone						
O & M, Cumilla						
1	S&D-1, Cumilla	3	20	97	23	76
	Burichang E/S	2	4	72	22	98
2	S&D-2 Cumilla	2	7	120	32	31
	Chauddagram E/S	1	10	76	11	153
3	S & D-3. Cumilla	2	10	72	7	149
4	S & D, Daulatganj	1	5	27	6	678
5	S & D Chandpur	1	15	25	13	4
6	S & D, B-Baria-1	3	6	77	19	851
7	S & D, B-Baria-2	2	4	21	8	430
8	S & D, Ashuganj	1	3	11	7	137
9	S & D, Sarail	1	3	17	7	615
O & M, Noakhali						
10	DD Noakhali	3	14	37	25	65
11	S&D Hatiya	1	6	36	16	0
12	S & D, Chaumuhoni	1	12	19	8	0
13	S&D-Feni	2	18	20	5	107
	Bashurhat E/S	1	3	4	3	152
14	S&D-Laxmipur	1	12	12	4	111
	Sub Total	**28**	**152**	**743**	**216**	**3657**
Mymensingh Zone						
O & M Circle-1, Mymensingh						
1	S & D -1, Mymensingh	1	33	261	58	211
	Muktagacha (Dapunia) ESU	1	18	28	11	242
	Fulbaria ESU, Mymensingh	1	27	23	10	252
2	S & D -2, Mymensingh	3	75	102	30	1064
3	S & D, Trishal	1	32	80	28	1019
4	S & D, Bhaluka	4	23	74	32	1088
5	S & D, Goffargaon	3	136	219	36	1615
O & M Circle-2, Mymensingh						
6	S & D -3, Mymensingh	4	20	45	44	2221
	Gouripur ESU, Mymensingh	2	20	30	22	1523
	Ishwarganj ESU, Mymensingh	2	22	35	24	643
7	S & D, Fulpur	2	103	190	48	1595
	Haluaghat ESU, Mymensingh	1	50	75	20	565
8	S & D, Netrakona	2	9	64	16	2342
9	S & D, Kishoreganj	1	25	60	25	453
10	S & D, Bajitpur	3	15	78	28	399
11	S & D, Bhairab	1	34	97	35	204
	Shimulkandi ESU, Kishoreganj	1	28	40	10	289
	Kuliarchar ESU, Kishoreganj	1	22	27	12	405
O & M Circle, Jamalpur						
12	S & D, Jamalpur	4	23	55	23	2161
13	S & D, Sharishabari	3	39	85	9	2540

Sl. No.	Name of Divi./ESU	Total Electrified Area				
		Thana/ Upazila	Ward	Village	Hat / Bazar	Deep, Shallow & Low Fit Pump
14	S & D, Sherpur	1	9	29	23	1861
	Nakla ESU, Sherpur	1	12	20	10	447
	Nalitabari ESU, Sherpur	1	9	22	11	353
	Jinaigati ESU, Sherpur	1	20	48	25	445
	Sribordi ESU, Sherpur	1	9	36	9	495
O & M Circle, Tangail						
15	S & D-1, Tangail	2	21	68	29	214
16	S & D-2,Tangail	3	120	165	80	2736
17	S & D-3,Tangail	3	22	105	30	1714
18	S & D, Bhuapur	5	75	147	43	1355
19	S & D, Kalihati	2	20	77	33	1438
20	S & D, Ghatail	2	28	42	40	889
21	S & D, Shakhipur	8	35	170	80	731
Sub Total		**71**	**1134**	**2597**	**934**	**33509**
Sylhet Zone						
O & M Circle, Sylhet						
1	Sales & Distribution Division-1, PDB, Sylhet	1	15	23	24	41
2	Sales & Distribution Division-2, PDB, Sylhet	1	13	11	22	0
3	Sales & Distribution Division-3, PDB, Sylhet	3	3	102	6	1
	Jagannathpur Electric Supply, PDB, Sunamganj	1	9	135	6	19
4	Sales & Distribution Division-4, PDB, Sylhet	2	33	103	25	4
5	Sales & Distribution Division-5, PDB, Sylhet	2	33	103	24	15
	Jaintapur Electric Supply, PDB, Sylhet	3	38	70	16	12
6	Sales & Distribution Division, PDB, Sunamganj	3	31	114	34	10
	Derai Electric Supply, PDB, Sunamganj	3	15	47	10	12
7	Sales & Distribution Division-Chatak,PDB, Sunamganj	3	189	140	17	138
O & M Circle, Moulavibazar						
8	Sales & Distribution Division, PDB, Moulvibazar	1	9	18	5	5
9	Sales & Distribution Division, PDB, Habiganj	3	9	33	10	67
10	Sales & Distribution Division-Kulaura, PDB, Moulvibazar	3	63	103	25	0
	Juri ESU	2	41	164	22	0
Sub Total		**31**	**501**	**1166**	**246**	**324**
Total		**216**	**2903**	**7476**	**2114**	**39022**

Synopsis of Distribution Lines of BPDB

(As of June 2023)

Sl. No.	Name of the Divn. /ESU	Sub-station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
	Name of the Zone: Southern Zone, Chattogram				
	O & M Circle, Chatta-Metro (East)				
1	S&D Kalurghat	Kalurghat 33/11 kv S/S	23	64	92
		Muradpur 33/11 kv S/S	23	45	73
		FIDC 33/11 kv S/S	1.5	6	10
2	S&D Patharghata	Patharghata 33/11KV	19	64	108
3	S&D Stadium	Stadium 33/11 KV	31	86.78	107.8
		Rahmatganj 33/11 KV	10	10	15
4	S&D Bakalia	33/11kV Bakalia S/S	0	71	126
		33/11kV Kolpolok S/S	19	66	109
5	S& D Madarbari	Madarbari 33/11 KV S/S	10	64	127
		Banglabazar 33/11 KV S/S	4.5	7	12
6	S&D Sholoshahar	Oxyzen 33/11 KV S/S	10	40	59
		Sholoshahar 33/11KV S/S	42	71	91
	O & M Circle, Chatta-Metro (West)				
7	S&D Agrabad	Agrabad 33/11 KV S/S	39	51	90
		Monsurabad 33/11 KV S/S	16	18	45
		Banglabazar 33/11 KV S/S	0	12	28
8	S&D Halishahar	Halishahar 33/11 kv S/S	35	63.32	80.97
		Potenga 33/11 kv S/S	10	58.17	83.21
9	S&D Newmooring	Newmooring 33/11 kv S/S	21	137	240
		Anandabazar 33/11 kv S/S	10	36	63
10	S&D Pahartoli	Pahartali 33/11 kv S/S	12	118	134
		Kattali 33/11 kv S/S	19	51	59
11	S&D Rampur	Rampur 33/11 kv S/S	28	81.5	126.5
12	S&D Khulshi	Khulshi 33/11 kv S/S	1	47.96	68.77
		Jalalabad 33/11 kv S/S	29	41	57
		Arefin Nagor33/11 kv S/S	13	27	3
	O & M Circle, Chatta-Metro (North)				
13	S&D Fouzderhat	Baro-Aulia 33/11 kv S/S	42	76	47
		Fouzderhat 33/11 kv S/S	20	82	81
		Madambibirhat 33/11 kv S/S	23	2	8
14	S&D Sandwip	Anamnahar 33/11 kv S/S	45	320	400
		Taltoli 33/11 kv S/S	7	150	250
15	S&D Barabkundu	Barabkunda-33/11 kv S/S	48	163	212
16	S&D Hathazari	Kolabagan 33/11 kv S/S	3	38	105
		Foteyavad 33/11 kv S/S	6	43	116
17	S&D Mohra	Mohora 33/11 kv S/S	27	198	239
		Ananya 33/11 kv S/S	8	4	25
		Rangunia 33/11 kv S/S	2	11	0
		Modunaghat 33/11 kv S/S	5	0	0
	O & M Circle, Chatta-Metro (South)				
18	Distribution Division Patya	Patiya 33/11 kv S/S	0	70	90
		Fishharbor 33/11 kv S/S	0	42	55
		Sikalbaha 33/11 kv S/S	79	40	45
		Moizzertek 33/11 kv S/S	0	25	30
		Julda 33/11 kv S/S	25	22	35
		Shamirpur 33/11 kv S/S	28	0	0
	Dohazari ESU	Dohazari 33/11 kv S/S	0	70	180
	Satkania ESU	Satkania 33/11 kv S/S	15	45	92
19	Distribution Division Cox's Bazar	Jhilongja 33/11 kv S/S	0	73	71
		Kolatoli 33/11 kv S/S	8	85	81
		Motel Road 33/11 kv S/S	14	42	52

Sl. No.	Name of the Divn. /ESU	Sub-station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
	Ramu Electric Spply	Ramu 33/11 kv S/S	11	60	88
		Naikhonchari 33/11 kv S/S	14	87	106
20	S&D Chakaria	Chakaria 33/11 kv S/S	65	84	132
		Aziznagor33/11 kv S/S	65	71	91
	Kutubdia Electric Spply	Kutubdia 33/11 kv S/S	17	77	70
	Lama Electric Spply	Lama 33/11 kv S/S	28	102	147
		Alikadam 33/11 kv S/S	23	65	102
	O & M Circle, Rangamati				
21	Distribution Division Khagrachari	Khagrachari Sadar 33/11KV Regular Type	15	167	249
		Thakurchari 33/11KV Regular Type			
	Panchari Electric Supply	Panchari 33/11KV Rural Type	25	105	220
	Dighinala Electric Supply	Dighinala 33/11KV Rural Type	93	163	233
		Longudu 33/11KV Rural Type			
	Matiranga Electric Supply	Matiranga 33/11KV Rural Type	40	122	246
		Jaliapara 33/11KV Rural Type			
	Mohalchari Electric Supply	Mohalchari 33/11KV Rural Type	105	197	272
		Naniarchar 33/11KV Rural Type			
	Manikchari Electric Supply	Manikchari 33/11KV Rural Type	83	87	121
		Laxmichari 33/11KV Rural Type			
	Ramgarh Electric Supply	Ramgarh 33/11KV Rural Type	90	96	127
22	Dist. Divn. Rangamati	Vedvedi 33/11 KV	6	87	181
		Majerbosti 33/11 KV	14	94	161
		Shukarchari 33/11 kV	0	50	35
		Jurachari 33/11 kV	25	41	61
	Betbunia ESU	Kawkhali 33/11 KV	14	48	61
		Ghagra 33/11 KV	6	105	139
	Kaptai ESU	Kaptai Academy 33/11 KV	0	62	51
		Kaptai 132/11 KV	20	80	85
		Bangalhalia 33/11 KV	20	59	81
		Bilaichori 33/11 KV	35	48	51
	Marishya ESU	Marishya 33/11 KV	28	84	114
23	Distribution Division-Bandarban	Bandarban 33/11 KV	58	110	105
		Kachinghata 33/11 KV	6	200	233
		Nilachol 33/11 KV	0.033	80	115
		Y-Junction 33/11 KV	18	20	10
	Thanci Electric Supply	Boli Para/Thanci 33/11 KV	50	55	15
	Rowanchori Electric Supply	Rowanchori 33/11 KV	18	70	65
	Ruma Electric Supply	Ruma 33/11 KV	24	85	43
Sub Total			**1846**	**5798**	**8031**
	Name of the Zone: Cumilla Zone				
	O & M Circle, Cumilla				
1	S & D- 1, Cumilla	Horindora	18.0	0.0	0.0
		Kotbari	19	58	126
		Kaliajuri	48	168	271
	Burichang E/S	Palpara	9	68	214
2	S & D- 2, Cumilla	Balutupa	37	152	306
	Chouddagram E/S	Chouddagram	38	78	172
3	S & D- 3, Cumilla	Jangalia	25	162	370
4	S & D , Daulatganj	Daulatgonj	35	74	216
5	S & D, Chandpur	Balur Math	0.5	61	262
		Puran Bazar	4	51	176
6	S & D, B. Baria-1	Datiara	0	91	204
7	S & D, B. Baria-2	Ghatura	16	67	128
8	S & D, Ashuganj	Kalabagan	11	74	228
9	S & D, Sarail	Shahbazpur	16	86	414
		Kuttapara	12	73	

Sl. No.	Name of the Divn./ESU	Sub-station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
	O & M Circle, Noakhali				
10	DD Noakhali	Maijdee	10	72	156
		Datterhat	20	118	262
11	S&D Hatiya	Hatya	0	200	72
12	S & D Chowmuhani	Chamuhani	0	132	294
13	S & D, Laxmipur	Laxmipur	35	82	211
14	S & D. Feni	Mohipal	65	97	396
		Sultanpur	15	84	
	Bosurhat E/S	Dagonbuyan	13	25	112
		Bashurhat	12	42	178
Sub Total			**458.5**	**2115**	**4768**
	Name of the Zone: Central Zone, Mymensingh				
	O & M Circle-1, Mymensingh				
1	S & D -1, Mymensingh	Akua	24	114	96
		Batirkal	18	39	80
	Dapunia ESU, Mymensingh	--	0	102	125
	Fulbaria ESU, Mymensingh	--	0	91	156
2	S & D -2, Mymensingh	Kewatkhali	0	255	420
		Digarkanda (bypass)	5	105	210
3	S & D, Trishal	Trishal	44	162	174
4	S & D, Bhaluka	Bhaluka	25	182	396
5	S & D, Goffargaon	Gaffargaon	68	158	406
		Maijbari	24	123	322
		Balipara	17	62	115
	O & M Circle-2, Mymensingh				
6	S & D -3, Mymensingh	Shambhuganj	11	192	415
	Gouripur ESU	Gouripur	22	176	211
	Ishwarganj ESU	Ishwarganj	24	102	109
7	S & D, Fulpur	Fulpur	39	290	510
	Haluaghat ESU	Haluaghat	45	160	275
8	S & D, Netrakona	Netrakona	12	135	296
9	S & D, Kishoreganj	Jashodol	0	145	207
		Mollapara	11	112	127
10	S & D, Bajitpur	Sararchar	65	233	267
11	S & D, Bhairab	Bhairab	15	110	169
	Shimulkandi ESU	--	0	72	134
	Kuliarchar ESU	Kuliarchar	18	37	51
	O & M Circle, Jamaplur				
12	S & D, Jamalpur	Bojrapur	0	65	75
		Shekhervita	23	196	208
		Jamuna	40	0	0
		Shahapur	5	98	136
13	S & D, Sharishabari	Sharishabari	51	130	280
14	S & D, Sherpur	Sherpur	56	146	295
	Nakla ESU, Sherpur	Nakla	12	86	161
	Nalitabari ESU, Sherpur	Nalitabari	10	80	148
	Jinaigati ESU, Sherpur	Jinaigati	27	94	258
	Sribordi ESU, Sherpur	Sribordi	27	70	131
	O & M Circle, Tangail				
15	S & D-1, Tangail	Betka	41	158	342
		Boilla	0	17	25
16	S & D-2,Tangail	Kachuadanga	11	250	850
17	S & D-3,Tangail	Elenga	11	240	330
18	S & D, Bhuapur	Bhuapur	32	370	576
19	S & D, Kalihati	Kalihati	22	117	496

Sl. No.	Name of the Divn./ESU	Sub-station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
20	S & D, Ghatail	Ghatail	30	210	120
		Cantonment	5	60	25
21	S & D, Shakhipur	Shakhipur-Bhaluka grid	107	225	450
		Sakhipur-Kalihati	40	-	-
		Shakhipur-Tangail grid	40	-	-
		Nalua-Shakhipur	35	190	250
		Kutubpur	18	225	300
Sub Total			**1130**	**6184**	**10727**
	Sylhet Zone				
	O & M Circle, Sylhet				
1	S & D -1	Ambarkhana	14	230	443
		Shekhghat	5	100	202
2	S & D- 2	Upshahar	23	113	259
		MC Collage	8	31	65
		Ring Feeder	6	0	0
3	S & D- 3	Boroikandi	7	119	480
		Gotatikor		91	
	Jogonnathpur E/S	Jogonnathpur	48	153	290
4	S & D- 4	Kumargaon	0	280	625
		Shajalal	0.5	128	272
5	S & D - 5	Botesshor-1	35	119	275
		Botesshor-2 (GIS)			
	Jaintapur E/S	Jaintapur	30	140	360
6	S & D Sunamgonj	Sunamgonj	70	110	215
	Derai E/S	Derai	33	100	190
7	S&D Chatak	Chatak	7	190	278
		Jawa bazar/ Rauli (Double Ckt)	78	92	155
	O & M Circle, Moulovibazar				
8	Dist. Div. Moulovibazar	Bejbari	34	52	68
		"Shahmostafa Road (Moulvibazar-2)"	68	78	112
9	S & D Hobigonj	Habiganj (Old)	30	105	531
		Habiganj (New)	25	0	0
10	S & D Kulaura	Kulaura	0	161	370
	Juri E/S	Juri	80	97	180
Sub Total			**602**	**2489**	**5370**
Total			**4036**	**16586**	**28896**

33/11 KV Substations of BPDB

(As of June 2023)

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	3×16/20	32
2	S&D Stadium	Stadium	2X16/20	48
			1X20/26	
		Rahmatganj	2X20/26	22
3	S&D Sholoshahar	Sholoshahar	2x16	20
			1x20/26	
		Oxygen	2x20/26	20
4	S&D Kalurghat	Kalurghat	1 x 16	42.2
			2 x 16/20	
		Muradpur	3x 16/20	37.7
		FIDC	2 x 20/26	20
5	S&D Bakalia	Bakalia	3x16/20	23
			1x20/26	
		Kolpolok	2 x 20/26	17
6	S&D Madarbari	Madarbari	2x16/20	20
		Banglabazar	2x20/26	14
	O & M Circle, Chatta-Metro (West)			
7	S&D Agrabad	Agrabad	3x16/20	35
		Monsurabad	2x20/26	25
8	S&D Khulshi	Jalalabad	3x20/26	49
			1x16/20	
		Khulshi	2x20/26	42
			1X16/20	
		Arefin Nagar	2x20/26	5
9	S&D Halishor	Haliasahar	2X16/20	31.5
		Potenga	2X16/20	16
10	S&D Pahartali	Pahartali	1X20/26	40
			2X16/20	
		Kattali	2x20/26	12
11	S&D Rampur	Rampur	2X20/26	32
			2X16/20	
12	S&D Newmooring	Anandobazar	2X20/26	8
		Newmooring	3X16/20	36
	O & M Circle, Chatta-Metro (North)			
13	S&D Fouzdarhat	Fouzderhat	2x16/20	25
		Baro-aulia	1x16/20	45
			1x20/26	
		Madambibirhat	2x20/26	5
14	S&D Barabkunda	Barabkunda	2×16/20	25.6
15	S&D Sandwip	Enamnahar	2x5/6.67	5.7
		Taltoli	2x5/6.67	3.3
16	S&D Hathazari	Kolabagan	2×16/20	18
		Foteyabad	2×10/13.3	15
17	S&D Mohora	Mohora	2x16/20	28.6
		Rangunia Sub-station	1x5	1.2
		Ananya	2x20/26	12

Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
	O & M Circle, Chatta-Metro (South)			
18	Distribution Division Patiya	Patiya	2x10	14
			1x10/13.33	
		Fishharbor	2x10	14
		Julda	2x16/20	6
		Shikalbaha	1x16/20	11
			1x10/13.33	
		Moizzertek	2x20/26	7
	Dohazari ESU	Dohazari	1x16/20	10
	Satkania ESU	Satkania	2x5/6.67	9
19	Distribution Division Cox's Bazar	Zilongza	2x16/20	16
		Motel Road	2×16/20	15
		Kolatoli	2x10/13.33	18
	Ramu ESU	Ramu	1× 10/13.33	7
		Naikhonchari	1× 5/6.67	4
20	S&D Chakaria	Chakaria	1x16/20	18
			1x10/13.33	
		Aziznagar	1x5/6.67	2
	Lama ESU	Lama	1x5/6.67	3.5
		Alikodom	2×5/6.67	2.7
	Kutubdia ESU	Kutubdia	2×5/6.67	1.5
	O & M Circle, Rangamati			
21	Distribution Division Khagrachari	Khagrachori	2×10/13.33	8.7
		Thakurchara	1×10/13.33	3.7
	Panchori ESU	Panchori (Rural Yype)	1×5/6.667	3.7
	Ramgarh ESU	Ramgarh (Rural Type)	1×5/6.667	3.2
	Matiranga ESU	Jaliapara (Rural Type)	3×1.667	2
		Matiranga (Rural Type)	1×5.00	2.25
	Diginala ESU	Dhighinala (Rural Type)	1×5/6.667	6.5
		Longudu (Rural Type)	1×5/6.667	2
	Manikchori ESU	Manikchori (Rural Type)	1×5/6.667	3
		Laxmichori (Rural Type)	1×5/6.667	1
	Mohalchari ESU	Mohalchori (Rural Type)	1×5/6.667	3
		Naniarchori (Rural Type)	1×5/6.667	0.7
22	Distribution Division Rangamati	Vedvedi 33/11 KV	2 x 10/13.33	8
		Majerbosti 33/11 KV	2 x 10/13.33	8
		Shukarchori 33/11 KV	1 x 10/13.33	4
		Jurachori 33/11 KV	3x 1.667	2
	Betbunia ESU	Kawkhali 33/11 KV	1 x 5	2
		Ghagra 33/11 KV	1 x 5	3
	Kaptai ESU	Kaptai Academy 33/11 KV	2 x 3	2
		Kaptai 132/33/11 KV	1 x 20	10
		Bangalhalia 33/11 KV	1 x 5	3
		Bilaichori	3x 1.667	3
	Marishya ESU	Marishya 33/11 KV	1 x 5	3
23	Distribution Division Bandarban	Bandarbon	2×10/13.33	5
		Kachinghata	3×1.667	3
		Nilachol	1×10/13.33	2.5
		Y-Junction	1×5.00	0.6
	Thanchi ESU	Boli Para/Thanchi	3×1.667	1
	Rowanchori ESU	Rowanchori	1×5/6.67	1
	Ruma ESU	Ruma	1×5/6.67	1
Sub Total		**82**	**1983/2497**	**1092**

Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
	Cumilla Zone			
	O & M Circle, Cumilla			
1	S & D-1, Cumilla	Kotbari	2x10/13.33 1x16/20 1x20/26	29
		Kaliajori	2x10/13.33 1x16/20	28.5
	Burichang E/S	Palpara	2x5	8
2	S & D-2, Cumilla	Balutupa	3x10/13.33 1x16/20	25
	Chouddagram E/S	Chouddagram	3x5	8.5
3	S & D-3, Cumilla	Jangalia	2x10/13.33 2x16/20	28
4	S & D Daulatgonj	Daulatgonj	1x10/13.33 1x16/20 1x5	12
5	S & D, Chandpur	Balur Math	2x10/13.33 1x16/20	22
		Puran Bazar	1x5 1x10/13.33	12.5
6	S & D, B Baria-1	Datiara	1x10/13.33 2x16/20	25
7	S & D, B Baria-2	Ghatura	3x10/13.33	21
8	S & D Ashugonj	Kalabagan	2x10/13.33 1x16/20	29
9	S & D Sarail	Shabazpur	2x5	5.5
		Kuttapara	2x10/13.33	10.5
	O & M Circle, Noakhali			
10	S&D Feni	Mohipal	4x10/13.33	28
		Sultanpur	2x10/13.33	15
	Boshurhat E/S	Dagonbuyan	2x10/13.33	3
		Boshurhat	1x10/13.33	8
11	S&D-Noakhali	Maijdee	2x10/13.33 1x16/20	25
		Datterhat	2x10/13.33	12
12	S&D Hatiya	Hatiya	1x5/6.67	4
13	S&D Chaumohani	Choumuhani	3x10/13.33 1x16/20	24.5
14	S & D, Laxmipur	Laxmipur	2x10/13.33	14.5
	Sub Total	**23**	**652/838**	**399**
	Central Zone, Mymensingh			
	O & M Circle-1, Mymenshingh			
1	S & D -1 (North), Mymensing	Akua	2x10/13.33 1x20/26	25
		Batircal	3x20/26	25
	Muktagacha (Dapunia) E/S	-	-	5
	Fulbaria E/S	-	-	5
2	S & D -2 (South), Mymensing	Kewatkhali	3x10/13.33 1x20/26	30
		Digarkanda (Bypass)	1x16/20 2x10/13.33	20

Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
3	S & D Trisal	Trisal	1x10/13.33 2x20/26	20
4	S & D Bhaluka	Bhaluka	2x10/13.33 1x20/26	31
5	S & D Goffargoan	Maijbari	2x5/6.66	7.5
		Goffargoan	3x10/13.33	15
		Balipara	1x5/6.67	2.5
	O & M Circle-2, Mymenshingh			
6	S & D -3, Mymensing	Shambuganj	3X10/13.33	18
	Gouripur ESU	Gouripur	2X10/13.33	12
	Ishwarganj ESU	Isshwarganj	2X5/6.67	8
7	S & D -Phulpur	Phulpur	3X10/13.33	19
	Haluaghat ESU	Haluaghat	2X5/6.67	9
8	S&D Netrokona	Netrokona	3x10/13.33	24
9	S & D, Kishoreganj	Josodal	2x10/13.33 1x16/20	15
		Mollapara	2x10/13.33	15
10	S&D Bajitpur	Sararchar	3x10/13.33	18
11	S&D Bhairab	Bhairab	5x10/13.33	38
	Kuliarchar E/S	Kuliarchar	1x5/6.66 1x10/13.33	4.5
	Shimulkandi E/S	-	-	5.5
	O & M Circle, Jamalpur			
12	S&D Sherpur	Sherpur	1x16/20 2x10/13.33	27
	Nalitabari E/S	Nalitabari	3X5/6.67	7.5
	Nokla E/S	Nokla	2X5/6.67	5.5
	Jinaigati E/S	Jinaigati	2 X 5/6.67	8
	Sribordi E/S	Sribordi	2 X 5/6.67	6
13	S & D, Jamalpur	Bojrapur	2x10/13.33	7
		Shekhervita	2x10/13.33	17
		Shahpur	2x10/13.33	9
14	S & D, Sharishabari	Sharishabari	2x10/13.33	13
	O & M Circle,Tangail			
15	S & D-1 Tangail	Betka	3x10/13.33	24
		Boilla	2x10/13.33	13
16	S & D-2 Tangail	Kachuadanga	4x10/13.33	32
17	S & D-3 Tangail	Elenga	2x10/13.33	9
18	S & D Bhuapur	Bhuapur	2x10/13.33 1x10/14	20
19	S & D Ghatail	Ghatail	1x20/26.66 2x10/13.33	24
		Cantorment	2x10/13.33	6
20	S & D Khalihati	Kalihati	1x10/13.33 2x10/14	20
21	S & D Shakipur	Shakipur	3x10/13.33	23
		Kutubpur	3x5/6.67	9
		Nalua	3x5/6.67	8
Sub Total		**40**	**1053/1396**	**660**

Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
	Sylhet Zone			
	O & M Circle, Sylhet			
1	S & D-1	Ambarkhana	2x10/13.33	30
			2x 20/26.66	
		Shekhghat	1x 20/26.66	17
			2x10/13.33	
2	S & D-2	Upashahar	4x10/13.33	28
		MC Collage	2x10/13.33	13.5
3	S & D-3	Boroikandi	3x10/13.33	18
		Gotatikor	2x10/13.33	10
	Jagannathpur E/S, Sunamganj	Jagannanthpur	3x5/6.67	10
4	S & D-4	Kumargao	2x10/13.33	12
		Shahjalal	2x10/13.33	12
5	S & D-5	Botessore-1 (AIS)	2x10/13.33	30
			1x20/26	
		Botessore-2 (GIS)	2x20/26	
	Jaintapur Electric Supply Unit, PDB, Sylhet	Jaintapur	2x5/6.67	8
6	S & D Sunamgonj	Sunamgonj	2x10/13.33	11
	Derai E/S, Sunamganj	Derai	2x5/6.67	7
7	S & D Chatak	Jawa Bazar	2x5/6.67	4
		Chhatak	2x10/13.33	15
	O & M Circle, Moulovibazar			
8	Dist. Divn. Moulovibazar	Bejbari	2x10/13.33	6
		Shamostafa Road (Moulvibazar - 2)	2x10/13.33	11
9	S & D Hobigonj	Hobigonj	3x10/13.33	17.45
10	S & D, Kulaura	Kulaura	2x10/13.33	17
	Juri ESU	Juri	2x5/6.67	6.5
Sub Total		**21**	**515/685**	**283**
Total		**166**	**4203/5416**	**2434**

11/.04 KV Distribution Substations of BPDB

(As of June 2023)

Sl. No.	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-1, Mymensingh										
1	S&D-1(N), PDB, Mymensingh	0	0	0	0	162	89	54	8	5	64.225
	Dapunia ESU	0	0	0	0	18	25	18	0	1	11.325
	Fulbaria ESU	0	0	0	0	16	17	37	0	1	11.125
2	S&D-2(S), PDB, Mymensingh	6	14	17	8	333	133	102	19	2	141.805
3	S&D, Trisal	0	0	0	0	84	178	140	1	52	71.95
4	S&D, Valuka	0	0	0	2	112	117	120	12	12	64.9
5	S&D, Goffargoan	0	0	0	0	197	224	197	13	23	117.475
	O & M Circle-2, Mymensingh										
6	S &D-3, Mymensingh	0	0	0	0	57	101	136	13	8	48.9
	Gouripur ESU	0	0	0	0	77	49	52	5	7	34.675
	Ishwarganj ESU	0	0	1	0	42	32	45	3	13	22.19
7	S & D,Fulpur	0	0	0	0	130	70	120	3	0	58.65
	Haluaghat ESU	0	0	0	0	45	55	75	0	0	29.75
8	S & D, Netrakona	0	2	2	0	105	82	63	1	0	50.63
9	S & D, Kishoreganj	0	0	0	2	132	157	112	3	0	76.35
10	S & D, Bajitpur	0	0	0	0	72	101	95	2	8	48
11	S & D, Bhairab	0	0	0	0	78	122	143	0	0	58.2
	Shimulkandi ESU	0	0	0	0	43	33	18	1	0	19.2
	Kuliarchar ESU	0	0	0	0	32	4	22	0	0	11
	O & M Circle, Jamalpur										
12	S & D, Jamalpur	0	0	0	0	107	221	105	1	0	81.5
13	S & D, Sharishabari	0	0	0	0	110	40	35	0	0	39
14	S & D, Sherpur	5	14	14	-	128	92	80	4	12	75.31
	Nakla ESU	0	0	0	0	38	50	17	0	0	21.2
	Nalitabari ESU	0	0	0	0	65	31	35	0	1	25.975
	Jinaigati ESU	2	0	0	0	78	26	66	0	1	33.325
	Sribordi ESU	0	0	0	0	31	33	42	0	0	18.55
	O & M Circle, Tangail										
15	S & D-1, Tangail	0	1	0	0	113	110	54	6	11	56.725
16	S & D-2,Tangail	0	0	0	0	105	140	85	0	0	62.75
17	S & D-3,Tangail	0	0	0	0	65	90	110	4	7	45.625
18	S & D, Bhuapur	1	1	0	0	122	127	108	0	13	68.525
19	S & D, Kalihati	0	0	0	0	107	155	256	0	4	83.45
20	S & D, Ghatail	0	0	0	0	103	167	85	2	22	68.3
21	S & D, Shakhipur	0	0	0	0	136	246	263	30	50	112.25
	Sub Total	**14**	**37**	**34**	**12**	**3043**	**3117**	**2890**	**131**	**253**	**1732.835**
	Cumilla Zone										
	O & M Circle, Cumilla										
1	S&D-1, Cumilla	0	0	0	0	142	246	31	0	0	87.8
	Burichong E/S	0	0	0	0	68	46	28	0	0	29
2	S & D-2, Cumilla	0	0	0	0	361	82	8	0	0	107.45
	Chauddagram E/S	0	0	0	0	73	81	28	0	0	37.25

Sl. No.	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)
3	S & D-3, Cumilla	0	0	0	0	164	165	42	0	0	78.2
4	S & D Daulatgonj	0	0	0	0	59	166	14	0	0	49.35
5	S & D, Chandpur	0	0	0	0	74	148	32	0	3	51.33
6	S & D-1, B-Baria	0	0	0	1	173	187	24	0	1	83.36
7	S & D-2, B-Baria	0	0	0	0	198	241	50	0	0	102.7
8	S & D Ashugonj	0	5	0	0	130	174	48	0	0	74.6
9	S & D Sarial	0	3	0	0	224	161	48	0	0	94.5
	O & M Circle, Noakhali										
10	S&D-Mizdee	0	0	0	0	224	235	28	0	0	105.8
11	S&D Hatiya	1	7	0	0	29	12	3	6	212	20.05
12	S & D Chowmohani	0	0	0	0	148	141	20	0	0	67.2
13	S&D-Feni	0	0	0	0	178	244	49	0	0	98.2
	Bashourhat E/S	0	0	0	0	66	42	35	1	0	28.45
14	S&D-Laxmipur	0	0	0	0	81	70	41	0	0	38.35
Sub Total		**1**	**15**	**0**	**1**	**2392**	**2441**	**529**	**7**	**216**	**1153.59**
	Southern Zone, Chattogram										
	O & M Circle, Chatta-Metro (East)										
1	S&D Kalurghat	0	0	0	0	371	24	6	0	0	98.15
2	S&D Patharghata	0	0	1	0	337	60	13	0	0	97.865
3	S&D Stadium	0	0	1	0	307	43	23	0	2	87.985
4	S&D Bakalia	0	0	0	0	324	63	15	0	0	95.1
5	S& D Madarbari	0	0	0	0	207	28	0	0	0	57.35
6	S&D Sholoshahar	0	0	0	0	450	15	5	0	0	116
	O & M Circle, Chatta-Metro (West)										
7	S&D Agrabad	0	0	0	0	308	72	5	0	0	91.9
8	S&D Halishahar	0	0	0	0	337	11	3	6	4	87.09
9	S&D Newmooring	0	0	0	0	202	36	4	11	1	58.66
10	S&D Pahartoli	0	0	0	0	423	28	5	0	48	112.33
11	S&D Rampur	0	0	0	0	301	17	5	0	0	79.15
12	S&D Khulshi	0	0	2	0	503	140	14	46	44	158.52
	O & M Circle, Chatta-Metro (North)										
13	S&D Fouzdarhat	0	0	0	0	180	27	19	3	378	56.23
14	S&D Sandwip	0	2	0	0	112	8	29	62	197	42.35
15	S&D Barabkund	0	0	0	0	184	89	22	1	302	69.07
16	S&D Hathazari	0	0	0	1	257	52	16	1	0	76.6
17	S&D Mohora	0	0	0	0	189	11	10	0	71	51.16
	O & M Circle, Chatta-Metro (South)										
18	Distribution Division Patya	0	0	0	0	259	43	10	10	301	77.86
	Satkania Electric Supply	0	0	0	0	78	24	0	0	0	24.3
	Dohazari Electric Supply	0	0	0	0	41	51	24	0	0	22.85
19	Distribution Division Cox's Bazar	0	0	0	0	238	133	33	0	0	89.4
	Ramu Electric Supply	0	0	0	0	89	43	28	14	15	34.5
20	S&D Chakaria	0	0	0	0	97	20	40	11	2	32.82
	Kutubdia Electric Supply	0	0	0	0	10	0	2	10	45	3.65
	Lama Electric Supply	0	0	0	0	45	25	43	11	10	21.2

Sl. No.	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, Chattogram (Rangamati)										
21	S&D Rangamati	0	0	1	0	36	107	175	69	118	52.845
	Kaptai ESU	0	0	1	0	42	74	84	8	57	34.985
	Betbunia ESU	0	0	0	1	31	53	63	4	40	25.55
	Marisha ESU	0	0	0	0	8	26	32	8	69	11.49
22	Distribution Division-Bandarban	0	0	0	0	19	33	76	28	24	20.59
	Rowanchori Electric Supply	0	0	0	0	3	4	19	13	9	4.19
	Ruma Electric Supply	0	0	0	0	2	3	12	9	7	2.82
	Thanci Electric Supply	0	0	0	0	4	4	10	8	15	3.35
23	S&D Khagrachori	0	0	0	0	8	47	72	29	24	20.29
	Panchori ESU	0	0	0	0	4	9	27	33	14	7.29
	Dhighinala ESU	0	0	0	0	4	37	63	38	22	16.82
	Mohalchori ESU	0	0	0	0	13	12	42	23	37	11.37
	Matiranga ESU	0	0	0	0	10	14	49	3	23	10.58
	Manikchori ESU	0	0	0	0	18	2	24	12	15	8.05
	Ramgarh ESU	0	0	0	0	6	15	21	0	8	6.68
Sub Total		**0**	**2**	**6**	**2**	**6057**	**1503**	**1143**	**471**	**1902**	**1978.99**
	Sylhet Zone										
	O & M Circle, Sylhet										
1	S&D-1	0	0	0	0	401	320	85	1	0	172.8
2	S&D-2	0	0	0	0	458	48	23	0	3	126.475
3	S&D-3	0	0	0	0	215	112	60	4	5	82.475
	Jagannathpur Electric Supply	0	0	0	0	100	87	107	4	76	55.2
4	S&D-4	0	0	0	0	228	75	35	2	0	75.6
5	S&D-5	0	0	0	0	129	54	325	0	0	75.55
	Jaintapur Electric Supply	0	0	0	0	105	152	119	7	29	69.625
6	S&D-Chatak	0	0	0	0	297	118	75	0	0	105.35
7	S&D,PDB, Sunamganj	0	1	0	2	127	48	66	5	20	49.8
	Derai Electric Supply, PDB, Sunamganj	0	0	0	0	61	59	44	8	37	32.775
	O & M Circle, Moulovibazar										
8	S&D, PDB, Moulovibazar	0	0	0	0	195	37	13	0	0	57.45
9	S&D, PDB, Habiganj	0	0	0	0	213	85	17	0	0	71.95
10	S&D, PDB-Kulaura	0	0	0	0	148	92	67	2	29	62.925
	Juri Electrric Supply	0	10	0	0	74	10	22	0	1	27.725
Sub Total		**0**	**11**	**0**	**2**	**2751**	**1297**	**1058**	**33**	**200**	**1065.7**
Total		**15**	**65**	**40**	**17**	**14243**	**8358**	**5620**	**642**	**2571**	**5931.115**

33/.04 KV Distribution Substations of BPDB

(As of June 2023)

Sl. No.	Name of ESU / Division	Distribution Transformer 33/0.4 KV					
		500 KVA (Nos.)	250 KVA (Nos.)	200 KVA (Nos.)	100 KVA (Nos.)	50 KVA (Nos.)	Total Capacity (MVA)
	Southern Zone, Chattogram						
	O&M Circle, Chatta-Metro (East)						
1	S&D Kalurghat	0	0	4	0	0	0.80
2	S&D Bakalia	0	0	1	0	0	0.20
	O&M Circle, Chatta-Metro (West)						
1	S&D Agrabad	0	0	2	1	0	0.50
2	S&D Halishahar	0	0	0	1	0	0.10
3	S&D Newmooring	0	0	2	0	0	0.40
4	S&D Rampur	0	0	2	0	0	0.40
	O&M Circle, Chatta-Metro (North)						
1	S&D Sandwip	0	0	0	0	2	0.10
	O&M Circle, Chittagong (South)						
1	Ramu Electric Spply	0	1	0	1	0	0.35
2	Kutubdia Electric Spply	0	0	0	0	0	0.25
	O&M Circle, Chittagong (Rangamati)						
1	S&D Rangamati	1	2	2	3	0	1.70
2	Dhighinala ESU	0	0	1	0	0	0.20
3	Mohalchori ESU	1	0	4	0	0	1.30
	Sub Total	**2**	**4**	**18**	**6**	**2**	**6.30**

Synopsis of Chattogram P.C. Pole Manufacturing Plant

Details	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
1. Nos. of poles manufactured																					
i) 33 kV poles a) 15 x 220	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	3372	1983	**3051**
b) 15 x 190	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	1435	421	**184**
ii) 11 kV poles 12 x 190	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	12310	4605	**1037**
iii) 0.4 kV poles 9 x 140	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	9093	4172	**6092**
2. Cost per no. of pole (Tk.)																					
i) 33 kV poles a) 15 x 220	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	53381	53381	**53381**
b) 15 x 190	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	47478	47478	**47478**
ii) 11 kV poles 12 x 190	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	30406	30406	**30406**
iii) 0.4 kV poles 9 x 140	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	12903	12903	**12903**
3. Production Capacity (Nos.)																					
i) 33 kV poles a) 15 x 220	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	3000	3000	**4000**
b) 15 x 190	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	1000	1000	**1000**
ii) 11 kV poles 12 x 190	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	10000	10000	**8000**
iii) 0.4 kV poles 9 x 140	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	6000	6000	**7000**
4. Use of production capacity (%)	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	131.05	55.90	**51.82**

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	FY'2003	FY'2004	FY'2005	FY'2006	FY'2007	FY'2008	FY'2009	FY'2010	FY'2011	FY'2012	FY'2013	FY'2014	FY'2015	FY'2016	FY'2017	FY'2018	FY'2019	FY'2020	FY'2021	FY'2022	FY'2023
1. Nos. of poles manufactured																					
i) 33 kVpoles 22.5x230	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----
15x230	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----
ii) 11 kV poles 12x230	4,007	3,508	2,722	1,338	2,238	1,583	929	1429	1630	1381	791	1425	2728	3261	4686	14868	15814	5975	9367	5252	**4319**
11x230	5,162	5,170	6,673	3,790	3,852	729	836	1198	1037	1361	625	1545	2551	831	702	1225	403	0	0	0	**0**
iii) 0.4 kV poles 9 M	14,859	12,342	10,610	8,009	9,912	4,691	3286	3219	4261	6268	3141	5170	7729	8072	10888	10587	12010	15977	15651	13834	**3085**
2. Cost per no. of pole (Tk.)																					
i) 33 kV poles 22.5 M	39,014	39,014	45,589	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----
15 M	21,246	21,246	24,816	24,816	28,119	41,669	36713	---	---	---	---	---	---	---	---	---	---	---	---	---	-----
ii) 11 kV poles 12 M	14,197	14,197	15,783	15,783	17,328	24,486	21574	21574	21574	21574	21574	22512	22512	29384	29384	29384	29384	29384	29384	29384	**29384**
11 M	12,652	12,652	13,910	13,910	15,313	21,066	18560	18560	18560	18560	18560	19579	19579	25555	25555	25555	25555	25555	25555	25555	**25555**
iii) 0.4 kV poles 9 M	6,262	6,262	6,694	6,694	7,074	9,558	8421	8421	8421	8421	8421	9065	9065	11832	11832	11832	11832	11832	11832	11832	**11832**
3. Production Capacity (Nos)																					
i) 33 kV poles 22.5 M	25	25	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----
15 M	200	200	200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----
ii) 11 kV poles 12 M	3,000	3,000	3,000	4,000	4,000	4,000	4000	3000	3000	3000	3000	3000	3000	2500	4500	10000	12000	12000	12000	6000	**5000**
11 M	5,000	5,000	5,775	5,000	5,000	5,000	5000	2000	2000	2000	2000	2000	2000	2500	500	2500	500	0	0	0	**0**
iii) 0.4 kV poles 9 M	11,000	11,000	11,000	11,000	11,000	11,000	11000	5000	5000	5000	5000	5000	5000	5000	10000	7500	7500	8000	8000	8000	**3000**
4. Use of production capacity (%)	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	121.64	108.5	133.4	141.135	109.76	125.09	136.32	**92.55**

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

Synopsis of Saidpur P.C. Pole Manufacturing Plant

Details		FY2003
1. Nos. of poles manufactured		
i) 33 kV poles	15 x 220	1,480
	15 x 190	42
ii) 11 kV poles	12 x 190	119
iii) 0.4 kV poles	9 x 140	123
2. Cost per no. of pole (Tk.)		
i) 33 kV poles	15 x 220	53,381
	15 x 190	47,478
ii) 11 kV poles	12 x 190	30,406
iii) 0.4 kV poles	9 x 140	12,903
3. Production Capacity (Nos.)		
i) 33 kV poles	15 x 220	4,732
	15 x 190	2,184
ii) 11 kV poles	12 x 190	9,100
iii) 0.4 kV poles	9 x 140	5,824
4. Use of production capacity (%)		9.15

Specification of poles	Top Dia (mm)	Bottom Dia (mm)	Wall Thickness (mm)	Pole Weight (Kg)	Design Load (Kg)	Pole Designation
i) 33 kV poles 15 M	220	420	80	2364	663	15 x 220x650
15 M	190	390	80	1965.00	561	15 x 190x550
ii) 11 kV poles 12 M	190	350	70	1315.00	459	12 x 190x450
iii) 0.4 kV poles 9 M	140	360	60	595	306	9 x 140x300

Chapter 5

Accounts, Finance and Audit