

# ANNUAL REPORT

2011-2012



**BANGLADESH POWER DEVELOPMENT BOARD**

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### **VISION STATEMENT**

Bangladesh Power Development Board's vision is to provide quality and reliable electricity to the people of Bangladesh for desired economic, social and human development of the country undertaking institutional and structural reforms leading to the creation of an organisation of international standard.

### **MISSION STATEMENT**

- To deliver quality electricity at reasonable and affordable prices with professional service excellence.
- To make electricity available to all citizens on demand by the year 2021.
- To provide specialized skilled services in operation & maintenance with outstanding performance in Generation, Transmission and Distribution for promoting competition among various power-sector entities.
- To follow international standard and adopt modern technology and practices in power generation and distribution activities.
- To ensure improved & satisfactory services to the consumers.
- To develop new mindset for all of its employees congruent with the corporate culture.
- To reach self sufficiency by increasing of its income and reduction of expenditure through efficiency improvement and diversification of activities.

## From the desk of Chairman

Bangladesh Power Development Board (BPDB), the leading organization of power sector of Bangladesh, mainly engaged in power generation, urban distribution and act as a Single Buyer In Bangladesh's Power market is going to publish its Annual Report for the Fiscal Year 2011-2012. Bangladesh, the country of enormous prospect, is maintaining its sustained GDP growth rate more than 6% despite the worldwide economic recession. The country needs electricity growth at a high rate to cope with enhanced demand to supplement the national economic growth.



It would be our pleasure to mention that in the fiscal year 2012 BPDB was able to add 1458 MW capacity in the national grid which eased load shedding situation to provide comfort to some extent to the customers along with putting in support to industrial, commercial and agricultural growth. At present electricity demand growth is about 10% which is expected to be more in coming years. BPDB has already prepared and implementing plan to fulfill the growing demand.

BPDB as a Single Buyer purchases electricity from the public and private generation entities and sells electricity to all the distribution utilities including its six distribution zones. During the FY 2011-12 the maximum peak generation was 6,066 MW which was 24.05% higher than the previous year. Total net energy generation (excluding REB) in FY 2012 was 33,397 GWh, which was about 13.28% higher than previous year's net generation of 29,485 GWh.

Besides generation addition, BPDB has also showed success in its distribution sector in fiscal year 2011-12. In the reporting period BPDB's distribution system loss reduced to 12.15% from 13.06% of the previous year. Collection/Import (C/I) ratio increased to 83.50% from 83.33% of previous year. Per capita generation and consumption increased to 232 kWh & 198 kWh from 212 kWh & 180 kWh respectively from previous year. During the said fiscal year, BPDB has provided total 2,53,801 new connections and the total number of consumers have been increased to 24,32,055 from 21,59,897.

We should admit that the net operating loss in FY 2011-12 increased to 69.60 Billion taka from 46.20 Billion taka of previous year. The net operating loss increased mainly due to increased liquid fuel generation along with substantial fuel price hike in phases over the period.

BPDB has taken all-out effort to make the organisation viable and raise it to a new height. During the period under report, expansion of Computerized Billing, Renewable Energy Development, Bill-pay through Mobile Phone, Energy Efficiency Measures and need based Training etc. were continued. BPDB has also introduced 'On line Application' method for consumers and Supervisory Control & Data Acquisition (SCADA) has started functioning in five distribution zones.

BPDB reiterates its pledge to materialize the vision and mission of the organisation to provide quality electricity to all by 2021 and working relentlessly.

A handwritten signature in black ink, appearing to read 'Md. Abdul Wahab Khan', written in a cursive style.

**Md. Abdul Wahab Khan**  
Chairman  
Bangladesh Power Development Board



Hon'ble Prime Minister Sheikh Hasina offering prayer after the inauguration of Sylhet 150 MW Power Plant.

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230 kV, 132 kV & 33 kV System in Bangladesh (Map)

## Present Board

(31 December, 2012)



**Md. Humayun Kabir Khan**  
Member (Administration)



**Md. Abdul Wahab Khan**  
Chairman



**Md. Fazlul Hoque**  
Member (Finance)



**Tamal Chakraborty**  
Member (Generation)



**Md. Abul Quasem**  
Member (Company Affairs)



**Md. Abu Taher**  
Member (Distribution)



**Md. Abduhu Ruhullah**  
Member (P&D)

## About BPDB

Bangladesh Power Development Board (BPDB) is a statutory body created in May 1, 1972 by Presidential Order No. 59 after bifurcation of erstwhile Bangladesh Water and Power Development Authority. BPDB had started its operation with generation capacity of only 180 MW. In its 40 years service, the generation capacity of the country increased to 8100 MW at the end of the FY 2011-2012.

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

- Ashugongj Power Station Companies Ltd. (APSCL)
- Electricity Generation Company of Bangladesh Ltd. (EGCB)
- North West Power Generation Company Ltd. (NWPGL)
- Power Grid Company of Bangladesh (PGCB)
- West Zone Power Distribution Companies Ltd. (WZPDCL)

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

- Generation of electricity from its own Power Plants.
- Power purchase from Public & Private Generation companies as a single buyer.
- Bulk Sales of electricity to Utilities as a single buyer.
- Retail Sales of electricity within its 6 Distribution Zones.
- Preparation of Generation and Distribution Expansion Plan.
- Implementation of Generation & Distribution Projects as approved by the Government.

BPDB prepared generation expansion plan to add about 12000 MW by 2016 and about 24000 MW by 2021 with the aim to provide quality and reliable electricity to the all people across the country for desired economic growth and social development. BPDB also prepared distribution expansion plan to keep pace with the growing demand.

During the Financial Year under report (2011-12) Chairman and Members of the Board:

### Chairman

Mr. A S M Alamgir Kabir

### Member (Administration)

Mr. Md. Humayun Kabir Khan

### Member (Finance)

Mr. Md. Fazlul Hoque

### Member (Generation)

Mr. Tamal Chakraborti (Upto August 17, 2011)

Mr. Md. Abul Quasem (From August 17, '11 to Nov. 6, '11)

Mr. Md. Abdul Wahab Khan (From Nov. 6, '11 to Feb. 1, '12)

Mr. Tamal Chakraborti (From February 1, '12)

### Member (Distribution)

Mr. KGA Rabbani (Upto July 19, 2011)

Mr. Masum-Al- Beruni (From July 19, '11 to October 4, '11)

Mr. Md. Abduhu Ruhullah (From Oct. 5, '11 to January 31, '12)

Mr. Md. Abdul Wahab Khan (From January 31, 2012)

### Member (Planning & Development)

Mr. Masum-Al- Beruni (Upto August 16, 2011)

Mr. Tamal Chakraborti (From August 17, '11 to Jan. 31, '12)

Mr. Md. Abduhu Ruhullah (From February 1, '12)

### Member (Company Affairs)

Mr. Md. Abdul Wahab Khan (Up to January 31, 2012)

Mr. Md. Abul Quasem (From February 1, 2012)

## HIGHLIGHTS

Power sector witnessed significant progress in power generation in the fiscal year 2011-12. During this fiscal year, 1458 MW new capacity added from the newly installed power plants which raised the total generation capacity to 8100 MW from 6639 MW and annual increment of generation capacity was 22.01%. Out of this new capacity addition, BPDB installed 1353 MW (including contracted capacity of IPPs) and the remaining 105 MW was installed by EGCB. The highest peak generation was 6066 MW and the total energy generated 35,118 GWh which was 24% and 12% higher than the previous year respectively. Despite increasing electricity demand, average load shedding came down at a tolerable limit.

Due to gas shortage and inadequate new generation addition in the past few years, demand of electricity outpaced generation capacity caused persistent load shedding. In order to mitigate the demand-supply gap, an aggressive plan had prepared by the Government for new generation addition. As part of the plan, 28 power generation projects of capacity 5048 MW are now under construction. The plan envisages 12,000 MW new generation addition by 2016.

Gas supply for power generation remained almost same as the previous years, power generation from liquid fuel based power plants increased to 16% from 5% of previous year caused higher cost in power generation and lead power tariff hike in phases to minimize subsidy.

In this fiscal year, BPDB sold bulk energy of 32,443 GWh to the distribution utilities as single buyer and retail sales of BPDB's six distribution zones was 7148 M kWh, which was 13.33% and 12.05% higher than the previous year respectively. Distribution system loss of BPDB's six zones came down to 12.15% from 13.06% of previous year. Collection/Import (C/I) ratio increased to 83.50% from 83.33%. Per capita generation and consumption increased to 232 kWh & 198 kWh from 212 kWh & 180 kWh respectively of previous year.

The net operating loss in the FY 2011-12 increased to 69.60 Billion Taka from 46.20 Billion Taka of previous year. The rate of return on the revalued fixed assets stood 25.12% which was 18.77% in previous year. Provided that the net operating loss increased from the previous year mainly due to increased liquid fuel generation together with substantial fuel price hike in phases over the period.

## KEY STATISTICS

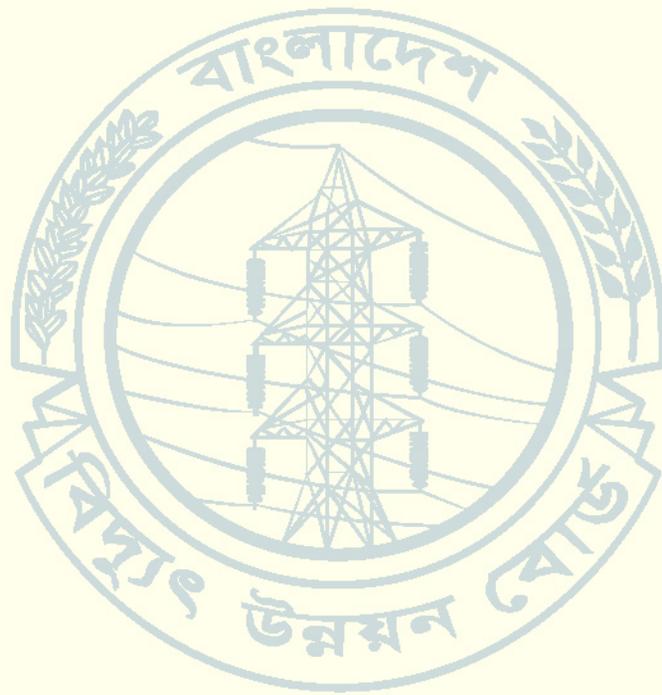
Sl. No.	Particulars	Year 2010-11	Year 2011-12	% Change Over The Previous Year
1	<b>Generation Capacity of Power Plants as of June (MW)</b>			
	<b>a) Public Sector</b>			
	i) BPDB	2,739	3,437	25.48
	ii) APSCCL	659	682	3.49
	iii) EGCB	105	210	100.00
	<b>b) Private Sector</b>			
	i) IPP/SIPP	1,225	1,396	13.96
	ii) Rental	1,685	2,149	27.54
	<b>c) REB (for PBS's only)</b>	226	226	0.00
	<b>d) System Total Generation Capacity (MW)</b>	6,639	8,100	22.01
2	Maximum Peak Generation (MW)	4,890	6,066	24.05
3	Maximum Peak Demand (MW)	6,765	7,518	11.13
4	<b>a) Net Energy generation (GWh)</b>			
	i) Public Sectors	14,673	15,201	3.60
	ii) Private Sectors (IPP, SIPP, & Rental)	14,812	18,196	22.85
	<b>Total Generation ( In account of Single Buyer )</b>	29,485	33,397	13.27
	<b>b) REB (for PBS's only)</b>	1,870	1,721	-7.97
	<b>c) System Total Generation (GWh) (a+b)</b>	31,355	35,118	12.00
5	Per Unit Generation Cost in Public & Private ( Tk/Kwh)	4.05	5.36	32.35
6	<b>a) Fuel Cost for Thermal Plants in Public Sector (MTk)</b>	23,382	28,571	22.19
	<b>b) Per Unit fuel Cost for tharmal Plants (Tk/KWh)</b>	2.03	2.65	30.54
7	Annual Plant Factor of Public Sector's Power Plants (%)	49.66	42.22	-14.98
8	System load factor (%)	68.83	62.85	-8.69
9	<b>BPDB's Commercial Activities as Single Buyer</b>			
	<b>a) Bulk Sales Unit to Utilities (GWh)</b>	28,627	32,443	13.33
	<b>b) Bulk Billing Amount (MTk)</b>	77,348	111,843	44.60
	<b>c) Bulk Collection Amount (MTk)</b>	74,303	103,236	38.94
	<b>d) Accounts Receivables to Utilities (MTk)</b>	44,399	56,906	28.17
10	Transmission Loss (%)	3.31	3.22	-2.72
11	Ave. Bulk Electricity Supply cost Taka/kWh	4.20	5.35	27.38
12	<b>BPDB's Commercial Activities with in Distribution Zones</b>			
	<b>a) Energy Imports for Retail Sale (MKWh)</b>	7,338	8,136	10.88
	<b>b) Retail Sales Unit (MKWh)</b>	6,380	7,148	12.05
	<b>c) Retail Billing Amount (MTk)</b>	24,283	31,411	29.35
	<b>d) Retail Collection Amount (MTk)</b>	23,493	29,852	27.07
	<b>e) Accounts Receivables to Retail Consumers (MTk)</b>	5,748	6,993	21.66
	<b>f) Collection/Bill Ratio (%)</b>	96.74	95.04	-1.76
	<b>g) Collection/Import Ratio (%)</b>	83.33	83.50	0.20
	<b>h) Distribution System loss (%)</b>	13.06	12.15	-6.97
13	Transmission & Distribution (T & D) system Loss ( % )	15.21	14.65	-3.68
14	Total Number of consumers of BPDB (Nos.)	21,59,891	24,32,055	12.60
15	Total Population In the Country (Million)	148	152	2.43
16	Per capita generation ( kWh)	212	232	9.34
17	Per capita Consumption ( kWh)	180	198	10.00
18	Net profit/(loss) (MTk)	(46,206)	(69,623)	50.68
19	Rate of return on net fixed asset (%)	(18.77)	(25.12)	33.83

**Note:** Maximum Demand is shown as per power system master plan 2010.



**Hon'ble Prime Minister Sheikh Hasina offering prayer after the inauguration of Dohogram-Angorpota Electrification Project.**

## Chapter-1



## Overview on BPDB Operations

# GENERATION

## ELECTRICITY DEMAND

Demand of electricity is increasing fast due to enhanced economic activities in the country with sustained GDP growth. At present, demand growth is about 10% which is expected to be more in coming years. The maximum demand in this fiscal year was 7,518 MW (as per PSMP-2010).

## Load Factor and Load Management

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

There are some loads in the system which can be avoided or minimized by consumers during peak hours. In order to shift these kinds of loads from peak hour to off-peak hour by introducing some mechanism is termed as load management. From the view point of load management, (i) two-part tariff is introduced

for 3-phase consumers (LT & HT) where peak hour price is much higher than the off-peak hour that motivates consumers to avoid or use less in the peak hour; (ii) Market & Shopping malls are kept close after 8.00 PM; (iii) holiday staggering is implemented to keep industries, markets & shopping malls close on area basis holiday marked day; (iv) consumers are encouraged to use energy efficient bulb, electric appliances, pumps, etc; (v) consumers are encouraged to keep their air-conditioner's temperature at 25 degree and so on. These measures also minimize load-shedding across the country.

It is to be mentioned that BPDB already been installed 37,135 numbers of two-part tariff programmable meters up to the FY 2012. Out of these, 33500 numbers for LT (Low Tension) consumers and 3135 numbers for HT (High Tension) consumers.

## Generation Capacity

Total generation capacity was 8,100 MW which includes 1297 MW IPP, 2248 MW SIPP/Rental Power Plant & 226 MW in REB (for PBS). The maximum peak generation was 6,066 MW which was 24.05% higher than that in the previous year. The reasons for lower peak generation with respect to generation capacity were: (i) some plants are out of operation for maintenance, rehabilitation & overhauling (ii) capacity of some plants derated due to aging and (iii) gas shortage. The Generation Capacity mix is shown below:

## Generation Capacity by Plant & Fuel Type

By type of plant		By type of fuel	
Hydro	220 MW (2.72%)	Gas	5417 MW (66.88%)
Steam Turbine	2193 MW (27.07%)	Furnace Oil	1752 MW (21.63%)
Gas Turbine	1145 MW (14.14 %)	Diesel	511 MW (6.31%)
Combined Cycle	1292 MW (15.95 %)	Hydro	220 MW (2.72 %)
Reciprocating Engine	3250 MW (40.12 %)	Coal	200 MW (2.47%)
<b>Total</b>	<b>8,100 MW (100 %)</b>	<b>Total</b>	<b>8,100 MW (100%)</b>

## Energy Generation

Total net energy generation (excluding REB) in FY 2012 was 33,397 GWh, which was about 13.28% higher than previous year's net generation of 29,485 GWh. Net energy generation in the public sector was 15,201 GWh and 18,196 GWh in the private sector.

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

Hydro	777 GWh (2.33%)
Natural Gas	26085 GWh (78.11%)
Furnace Oil	4154 GWh (12.44%)
Diesel	1498 GWh (4.49%)
Coal	883 GWh (2.65%)
<b>Total</b>	<b>33,397 GWh (100%)</b>



## Plant Efficiency and Maintenance

The overall thermal efficiency (Net) of the public sector power plants in FY 2012 was 32 %, higher than previous year's 31 % efficiency.

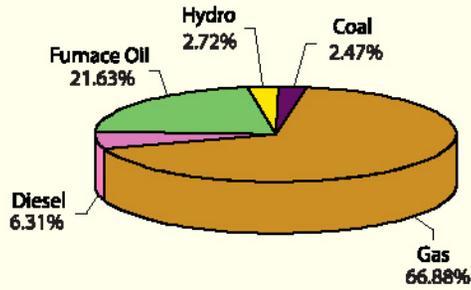
Three years maintenance plan has been prepared at the beginning of FY 2012 to improve overall thermal efficiency. Below the list of major power plants were under maintenance in the year under review:

### MAINTENANCE OF POWER PLANTS IN FY 2011-12

Sl. No	Name of Power Station	Present Capacity (MW)	Type of Maint. (HGPI/MI/OH)	Duration of Maintenance		Remarks
				Starting Date	Completion Date	
1	Baghabari 71 MW	71	HGPI	27/01/2012	27/02/2012	
			Generator Maint.	07/03/2012	04/06/2012	
2	Sylhet GT	10	Generator Maint.	26/07/2011	23/10/2011	
3	Shiddirganj ST	150	Boiler Major Maint.	01/08/2011	18/07/2012	
4	Chittagong ST-Unit 1	180	Overhauling	03/10/2010	12/07/2011	
5	Chittagong ST- Unit 2	180	Boiler Major Maint.	26/03/2011	26/11/2011	
6	Ghorashal Unit-2	55	Rehabilitation	26/04/2010	-	December, 2012 (Expected)
7	Ashuganj Unit-1	55	Turbine Overhauling	09/11/2010	-	December, 2012 (Expected)
8	Ashuganj Unit-3	140	Turbine Overhauling	10/11/2011	18/03/2012	
9	Ashuganj Unit-4	150	Overhauling	11/09/2010	29/08/2011	

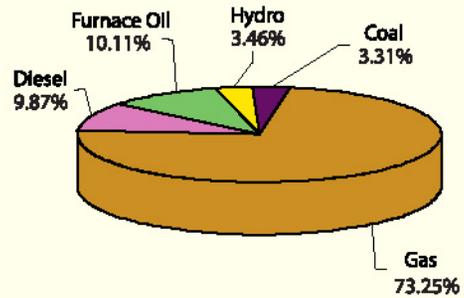
## GENERATION CAPACITY (NATIONAL) BY FUEL TYPE WITH COMPARISON

**FY 2012**



**Total : 8100 MW**

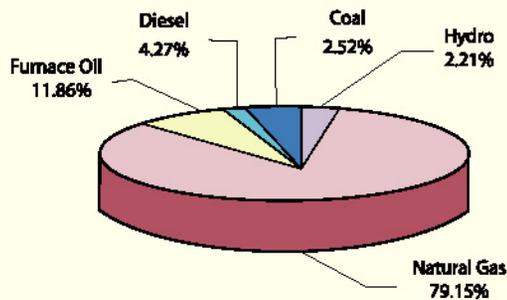
**FY 2011**



**Total : 6639 MW**

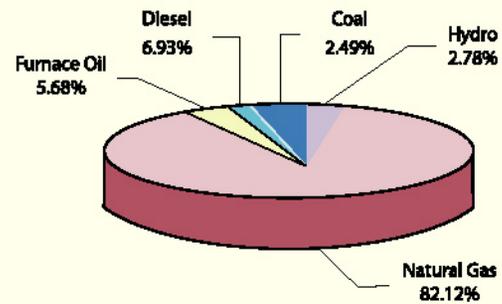
## GENERATION (NATIONAL) BY FUEL

**FY 2012**



**Total Net Generation : 35,118 M kWh**

**FY 2011**



**Total Net Generation : 31,355 M kWh**

## TRANSMISSION

### Transmission Line

During FY 2011-12, Madanganj-Munsiganj 10 km double circuit 132 kV transmission line was constructed & energized. Besides, for power evacuation from newly installed power stations to the national grid, the following 132 kv lines were constructed & energized:

1	Daudkandi PP to Daudkandi ss	1.2 km
2	Gopalganj PP to Gopalganj ss	1.2 km
3	Shiddhirganj desh energy PP to Siddhirganj ss	2.5 km
4	Faridpur pp to Faridpur-Bheramara line	1.0 km
5	Bera pp to Bagagari-Ishridi line and Amnura pp to Rajshahi-Chapai line	12.6 km
6	Keraniganj pp to Hasnabad-kallayanpur line	7.5 km
<b>Total</b>		<b>26.0 km</b>

Total length of 132 kV transmission line increased to 6148 circuit km from the previous year of 5969 circuit km. The total length of 230 kV transmission line remained same as the previous year of 2647 circuit km.

### Grid Substations

In this fiscal year, 2 nos. 132/33 kv Sub-stations, one in Megnaghat and the other in Munshiganj, 2X50/75 MVA capacity each installed and commissioned. Besides, MVA capacity in some 132/33 kv Sub-stations were enhanced in

FY 2012. Total capacity of 132/33 kv Sub-stations increased to 11157 MVA as of June 2012 from the previous year of 10492 MVA. Total capacity of 230/132 kv Sub-stations remained same as the previous year of 7225 MVA.

### Transmission Summary

01	230 kV Transmission Line (Circuit km)	2,647
02	132 kV Transmission Line (Circuit km)	6,148
<b>Total Transmission Line (Circuit km)</b>		<b>8,795</b>
03	No. of 230/132 kv Sub-Station	15
04	No. of 132/33 kv Sub-Station	103
Total no. of Sub-Station		118
05	230/132 kv Sub-Station Capacity (MVA)	7,225
06	132/33 kv Sub-Station Capacity (MVA)	11,141
<b>Total Sub-Station Capacity (MVA)</b>		<b>18,366</b>
07	Transmission Loss (%)	3.22 %

## Grid System operation

In FY 2012, total duration of Power interruption in the grid network was 40 hours 08 minutes.

### INTERRUPTION OF NATIONAL GRID FOR FY 2011 & FY 2012

Sl. No.	Type of Fault	Total Number of Faults		Total Duration	
		FY 2011	FY 2012	FY 2011 Hours/ Minutes	FY 2012 Hours/ Minutes
1.	Partial Power failure due to trouble in generation	98	71	07/06	05/19
2.	Partial Power failure due to trouble in grid S/S Equipment	05	04	123/13	27/52
3.	Partial Power failure due to fault in transmission line	01	00	02/28	00/00
4.	Partial Power failure due to the lightning on transmission line/Thunder Storm	00	01	00/00	00/39
5.	Partial Grid failure	05	04	03/28	06/18
6.	Total Grid failure	00	00	00/00	00/00
	<b>Total</b>	<b>109</b>	<b>80</b>	<b>136/15</b>	<b>40/08</b>

## BULK ELECTRICITY SALES BY BPDB

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

- Dhaka Power Distribution Company (DPDC)
- Dhaka Electric Supply Company (DESCO)
- West Zone Power Distribution Company Limited (WZPDCL)
- Rural Electrification Board (REB)
- BPDB's six distribution zones

In FY 2012 bulk electricity sales to the distribution utilities increased to 32443 M kWh from 28627 M kWh which is 13.33 % higher than the previous year.

The revenue collection from the utilities was also increased to 1,03,236 M Tk from 74,303 M Tk which is 38.94% higher than the previous year.

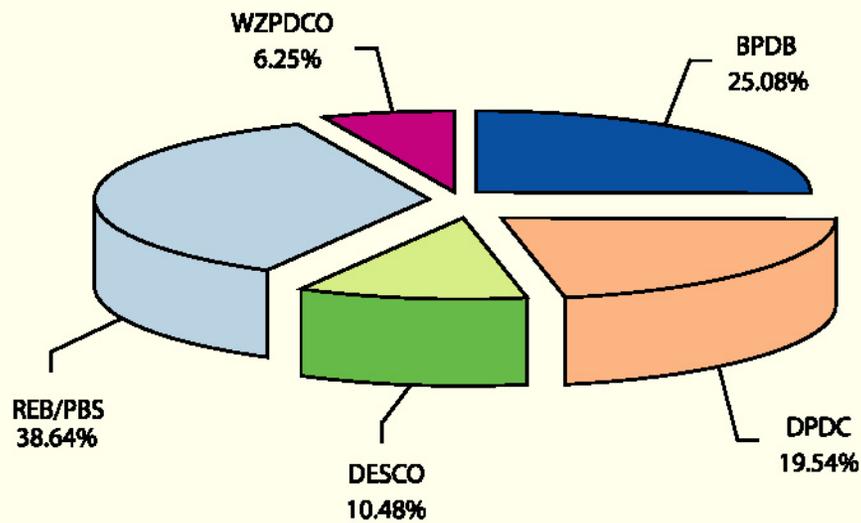


## Utility Wise Bulk Energy Sales by BPDB As Single Buyer

In GWh

Year	BPDB zones	DPDC	DESCO	WZPDCL	REB	Total
2004-05	5,993.05	5,134.77	1,843.13	388.57	7038.65	20398.18
2005-06	5,180.25	5,315.76	2,030.00	1372.78	8062.43	21961.22
2006-07	5,305.32	5,243.00	2,190.69	1281.95	8039.93	22060.89
2007-08	5,625.61	5,203.95	2,573.77	1375.23	8654.85	23433.41
2008-09	6,042.25	5,448.81	2,742.55	1490.63	9032.27	24756.51
2009-10	6,744.27	5,749.39	2,933.72	1673.44	9525.30	26626.12
2010-11	7,337.87	5,964.05	3,122.74	1842.52	10359.41	28626.59
2011-12	8,136.45	6,340.32	3,400.99	2028.93	12536.76	32443.45

### Utility Wise Bulk Sales (FY 2011-12)



**Total Sales: 32,443 MWh**

## Utility Wise Billing & Collection Statistics of BPDB

Name of Utility	Billed Amount (Million Tk)		Collected Amount (Million Tk)		Accounts Receivable (Million Tk)		% Increase over the previous year	Coll/Bill Ratio (%)	
	2010-11	2011-12	2010-11	2011-12	2010-11	2011-12		2010-11	2011-12
BPDB's Dist. Zones (in/c PS & GK)	24283.23	31410.67	23492.60	29852.43	5748.15	6992.97	21.66	96.74	95.04
WZPDCL	4660.55	6542.42	4446.54	5998.98	1091.41	1666.26	52.67	95.41	91.69
DPDC	15600.15	24242.98	15039.28	20994.97	30730.12	35088.35	14.18	96.40	86.60
DESCO	8099.29	12249.37	7766.29	12218.50	1741.74	4463.50	156.27	95.89	91.58
REB/PBS's	24704.92	37398.01	23557.94	34171.09	5087.73	8694.44	70.89	95.36	91.37
<b>Total</b>	<b>77348*14</b>	<b>111843.45</b>	<b>74302.64</b>	<b>103235.96</b>	<b>44399.15</b>	<b>56905.52</b>	<b>28.17</b>	<b>96.06</b>	<b>91.41</b>



A Revenue meeting of BPDB participated by the officers of six Distribution Zone.

## DISTRIBUTION

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

- Distribution zone, Chittagong
- Distribution zone, Comilla
- Distribution zone, Mymensingh
- Distribution zone, Sylhet
- Distribution zone, Rajshahi
- Distribution zone, Rangpur

### Distribution network

In the FY 2012, BPDB renovated & extended about 497 km distribution lines as a part of continuous improvement of the system. BPDB covered electrification in 236 thanas/upozillas and 4,810 villages within its six distribution zones up to the end of this fiscal year. The distribution networks possess:

33 kv line	3712 km
11 kv line	11213 km
0.4 kv line	18936 km
33/11 kv sub-station	148 nos.
Total capacity of 33/11 kv sub-station	2739/3410 MVA
11/0.4 kv dist. sub-station	17994 nos.
<b>Total capacity of 11/0.4 kv dist. sub-station</b>	<b>2968 MVA</b>



### Number of consumers

During this fiscal year, BPDB provided total 2,53,801 new connections and the total number of consumers increased to 24,32,055 and the annual increment was 12.61%.

### Distribution system loss

BPDB 's distribution zones imported 8136 M kWh energy from the single buyer for retail sale in its six zones and sold 7148 M kWh to the consumers in the FY 2012 that results 12.15% distribution system loss which was 13.06% in FY 2011.

### Customer's service & satisfaction

BPDB introduced following services for customer satisfaction:

- Computerized billing
- Easy bill pay
- One stop service
- On line application
- Pre payment metering
- SCADA
- Demand side management

### Computerized Billing

BPDB brought sent percent consumers in computerized billing system in its six distribution zones. Each computerized bill shows present month's billing amount along with previous month's payment and arrear status for consumers' acknowledgement. It improves billing system, revenue collection, decreases system loss and ensures better service to the consumers than the previous manual one.

## Easy Bill pay

BPDB introduced easy bill pay system through mobile phone in its six distribution zones. Consumers can pay their electricity bill through prescribed mobile phone operator round the clock even in holidays. Zone wise mobile phone operators are as follows:

Name of Zone	Mobile Phone Operator
Chittagong	Grameen phone
Mymensingh	Banglalink
Rajshahi	Grameen phone
Comilla	Robi
Sylhet	Grameen phone
Rangpur	Banglalink



MoU being signed between Power Division and BPDB for fixing the target of KPI indicator for FY 2012-13

## One stop service

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

## On line application

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

## Pre-payment Metering

About 46,000 nos. prepayment meters installed at the premises of different categories consumers in demarcated areas in Chittagong, Sylhet, Bogra & Sirajgonj through Pilot Project. They provided more advantages in sales performance than the traditional metering. The main advantages are:

- Assures 100% revenue collection and zero accounts receivable.
- Prevents using excess than sanctioned load by the consumer.
- Prevents electricity pilferage after meter.
- Provides hassle free service in billing/collection process, such as, inaccurate meter reading, fictitious billing etc.

## SCADA

Supervisory Control And Data Acquisition (SCADA) started functioning within the five zones of BPDB (Chittagong, Sylhet, Mymensingh, Rajshahi & Rangpur) for system control and data acquisition of the distribution system/networks under it from one point of each zone through microwave link. Provided that 34 sub-stations within Chittagong zone, 18 sub-stations within Sylhet zone, 17 sub-stations within Mymensingh zone, 32 sub-stations within Rajshahi zone and 14 sub-stations within Rangpur zone are connected under the SCADA of respective zone.

BPDB also has a plan to set up one SCADA in Dhaka to monitor/control all SCADA of BPDB centrally. Key functions of SCADA are:

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

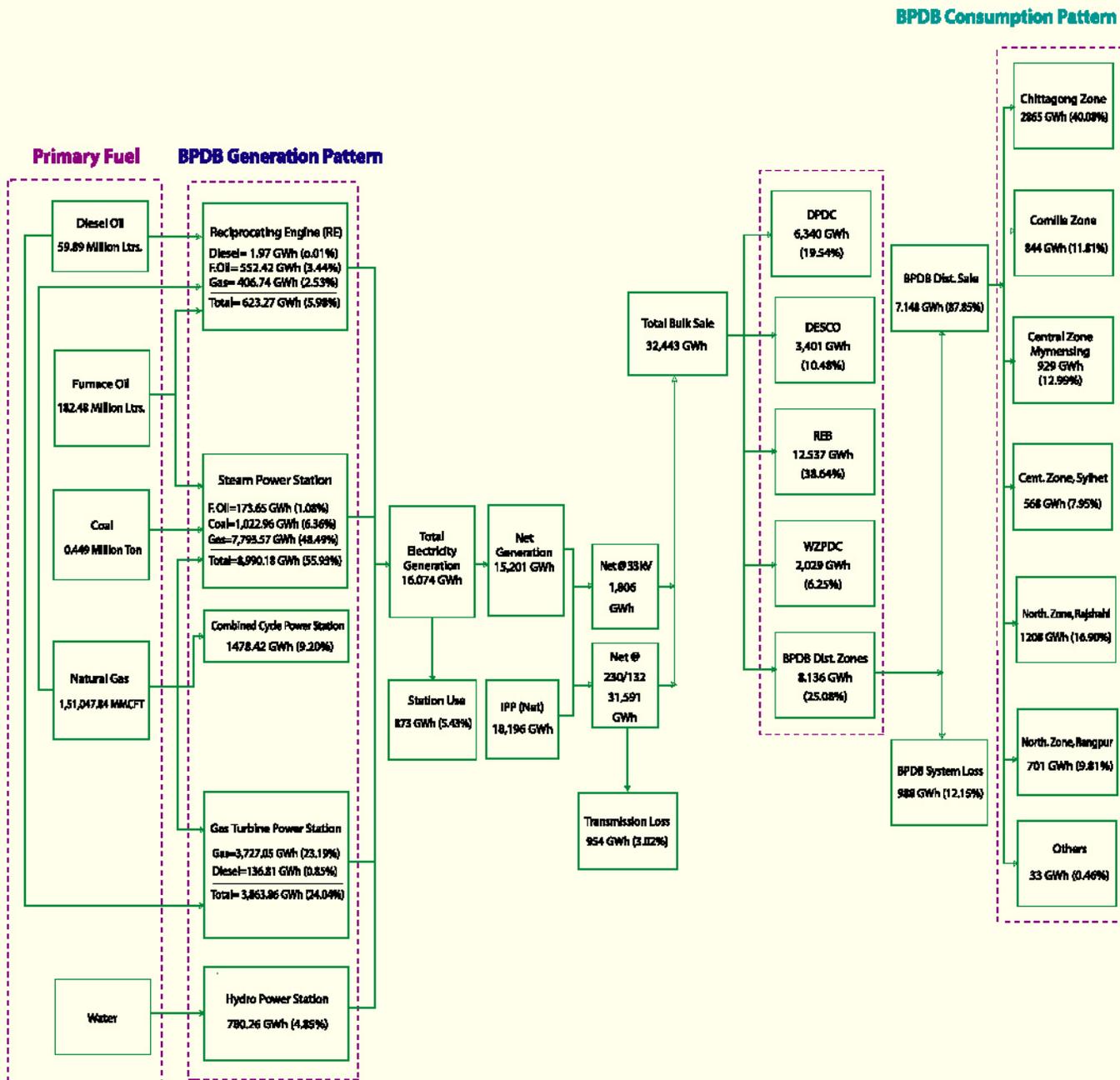
## **Demand Side Management**

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

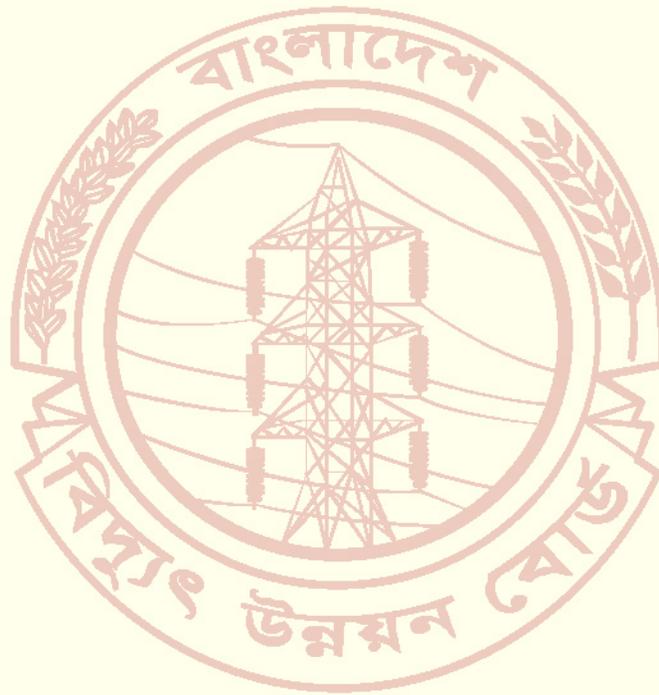
BPDB has taken a number of steps for demand side management, which are as follows:

- 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 400 MW irrigation load was shifted from peak hour to off peak hour.
- BPDB has taken motivational programs to enhance awareness of the consumers during peak hours. Consumers are being urged through electronic and print media to be rational and economical in electricity use during peak hour by switching off unnecessary loads like extra lighting, ironing, pumps, air conditioners, welding machines etc.
- As part of demand side management program, BPDB has taken steps to use CFL in BPDB's offices and also trying to motivate consumers to use Energy efficient lamps.
- Industries operating in two shifts are being requested not to operate during peak hours.
- Holiday staggering for industries has been implemented, which contributes about 150 MW load shifting.
- Load Management Committee has been formed in every distribution zone/circle/division to monitor the proper load distribution during irrigation.
- As part of DSM, BPDB is monitoring shop/market closure time at 8 p.m. It is estimated that this measure contributes about 350 MW load shifting from peak hour.

# ENERGY FLOW CHART FY 2012



## Chapter-2



## Power Sector Development Plan



## **POWER SECTOR AT PRESENT**

Electricity is a crucial ingredient for poverty alleviation, industrial growth, infrastructure development, quality of living standard of the people and for overall development of the economy. Bangladesh government is trying to establish a sustainable development structure for many years but yet to accomplish such target due to shortage of electricity generation. At present only 53% of the people have access to electricity. Per capita generation is 232 kWh (grid) which is one of the lowest in the region. Every year the demand is increasing at a rate of 10%. Generation capacity could not be increased accordingly during past years which has resulted increasing power shortage in the country.

Present generation capacity 8275 MW including 3595 MW generation addition since this Government came to power in January, 2009. At present 700-1000 MW capacity is unable to generate due to gas shortage. About 1000 MW load shedding was experienced during peak hours of the last summer. Under the above context, with a vision to achieve more than 7% projected GDP growth by 2013 and beyond, short, medium & long terms generation expansion plan has been prepared in order to maintain sustained electricity supply facilitating establishment of new industries and SMEs, accomplishment of national target of "electricity for all" by 2021 and to build "digital Bangladesh".

Power generation projects of immediate & short terms have been implemented in the year 2011 & 2012. Under the mid term planning, generation capacity addition during 2012 to 2016 will be about 12,000 MW. In the long term planning, generation capacity requirement in 2021 and in 2030 will be 24,000 MW and 39,000 MW respectively.

Due to prevailing gas crisis and future grim scenario of gas sector development, strategic decision of the government to diversify primary fuel supply for power is critical for sustained development of power sector. This diversification will help to ensure energy security but cost of energy will be higher. In this perspective, the plan has been prepared for considering balanced development of different sources of energy. For base load demand, coal is the near-term option whether indigenous or imported. Government is also considering imported Liquefied Natural Gas (LNG) to supplement present gas shortage, which can take advantage of the country's reasonably developed pipeline infrastructure.

## Mid Term Power Generation Expansion Plan Upto 2016

Based on the primary fuel supply availability and Government's limited ability to finance capital-intensive power generation projects, an aggressive mid term generation expansion plan was prepared to meet the growing demand of electricity to cope with accelerated economic growth under the present government. Revised generation expansion plan prepared in 2012 targeting about 12,000 MW generation additions from 2012 to 2016 which is provided in the table below:

### Year Wise Projects Completion (From 2012 to 2016)

Year	2012 (MW)	2013 (MW)	2014 (MW)	2015 (MW)	2016 (MW)	Total (MW)
Public	632	737	2426	934	700	5429
Private	344	1413	892	1707	2135	6491
Power Import	--	500	--	--	--	500
<b>Total</b>	<b>976</b>	<b>2650</b>	<b>3318</b>	<b>2641</b>	<b>2835</b>	<b>12420</b>

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

A total of 5 generation and 8 distribution projects were included in the Revised Annual Development Program (RADP) in the FY2012. Original Allocation, Revised Allocation & Expenditure incurred (provision) in the FY 2012 are shown in the following table.

(Taka in lakh)

Sub-Sector	Original ADP FY 2011-12			RADP FY 2011-12			Expenditure incurred FY 2011-12			% change
	Local	Foreign	Total	Local	Foreign	Total	Local	Foreign	Total	
<b>Generation</b>	292122	100	292222	15.00	297060	297075	295894	0.00	295894	-11.98
<b>Distribution</b>	13600	37000	50600	13770	22020	35790	13691	22277	35968	83.54
<b>Total</b>	<b>305722</b>	<b>37100</b>	<b>342822</b>	<b>310630</b>	<b>22035</b>	<b>332865</b>	<b>309585</b>	<b>22277</b>	<b>331863</b>	<b>6.76</b>

### Implementation Status of the Power Generation Expansion Plan

Since January 2009, total 51 small and medium sized power plants of capacity 3595 MW have been commissioned, 28 projects of capacity 5048 MW are now under construction. At present 28 projects of capacity 3744 MW are in the various stages of procurement process right from tender invitation to issuance of LOI.

## Year wise implementation status of generation projects in power sector are as follows

### Projects implemented in 2010

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1	Sikalbaha 150 MW	150	BPDB		18.08.2010
2	Siddirganj 2x120 MW GT	105	EGCB		14.10.2011
	<b>Sub Total</b>	<b>255</b>			
<b>Private Sector</b>					
3	Shikalbaha 55 MW Rental Power Plant	55	Rental (BPDB)	HFO	06.05.2010
4	Ashugonj Rental Power Plant	55	Rental (BPDB)	Gas	07.04.2010
5	Thakurgaon, 3 Years Rental	50	Rental (BPDB)	HFO	02.08.2010
6	Ghorashal Sponsor: Aggreko	145	Rental (BPDB)	Gas	10.08.2010 23.08.2010
7	Khulna Sponsor: Aggreko	55	Rental (BPDB)	Diesel	10.08.2010
8	Pagla, Narayaganj Sponsor: DPAPGL	50	Rental (BPDB)	Diesel	24.11.2010
9	Bheramara 3 Years Rental	110	Rental (BPDB)	Diesel	31.12.2010
	<b>Sub Total</b>	<b>520</b>			
	<b>Total</b>	<b>775</b>			

### Projects implemented in 2011

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1	Ashugonj 50 MW Power Plant	53	APSCL	Gas	30.04.2011
2	Baghabari 50 MW Peaking PP	52	BPDB	HFO	29.08.2011
3	Fenchuganj 90 MW CC	104	BPDB	Gas	26.10.2011
4	Bera 70 MW Peaking PP	71	BPDB	HFO	28.10. 2011
5	Titas, Doudkandi 50 MW Peaking PP	52	BPDB	HFO	29.10. 2011
6	Siddirganj 2x120 MW Peaking PP	105	EGCB	Gas	December ,2011
7	Faridpur 50 MW Peaking PP	54	BPDB	HFO	November, 2011
8	Gopniganj 100 MW Peaking PP	109	BPDB	HFO	29.09.2011
9	Sangu, Dohazari 100 MW Peaking PP	102	BPDB	HFO	30.12.2011
10	Hathazari 100 MW Peaking PP	98	BPDB	HFO	23.12.2011
	<b>Sub Total</b>	<b>800</b>			

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Private Sector (Rental &amp; Quick Rental)</b>					
1	Siddirganj, Sponsor: Desh Energy	100	Rental (BPDB)	HSD	17.02.2011
2	B.Barua, Sponsor: Aggreko	70	Rental (BPDB)	Gas	06.03.2011
3	Modanganj, Sponsor: Summit Power	102	Rental (BPDB)	FO	01.04.2011
4	Meghnagat, Sponsor: IEL	100	Rental (BPDB)	FO	08.05.2011
5	Ghorasal, Sponsor: Max Power	78	Rental (BPDB)	Gas	27.05.2011
6	Nowapara, Sponsor: Khan Jahan Ali	40	Rental (BPDB)	FO	28.05.2011
7	Ashugonj, Sponsor: Aggreko	80	Rental (BPDB)	Gas	31.05.2011
8	Khulna, Sponsor: KPCL	115	Rental (BPDB)	FO	01.06.2011
9	Ashugonj, Sponsor: United Ashugonj Power Ltd.	53	Rental (BPDB)	Gas	22.06.2011
10	Siddirganj Sponsor: Dutch Bangla Power	100	Rental (BPDB)	FO	21.07.2011
11	Noapara, Jessore, 5 Years Rental	105	Rental (BPDB)	FO	26.08.2011
12	Bogra 3 years Rental, Sponsor: Energy Prima	20	Rental (BPDB)	Gas	
	<b>Sub-Total (Private)</b>	<b>963</b>			
	<b>Total (2011)</b>	<b>1763</b>			

### Projects being implemented in 2012

Sl. No	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public sector</b>					
1	Sylhet 150 MW Power Plant	142	BPDB	Gas	28 March, 2012
2	Gazipur 50 MW PP	52	RPCL	Gas/HFO	July, 2012
3	Chandpur 150 MW CC Power Plant	163	BPDB	Gas	GT: March, 2012 CC: July, 2012
4	Raujan 25 MW PP	25	RPCL	Gas/HFO	November, 2012
5	Sirajganj 150 MW GT	150	NWPGC	Gas/HSD	November, 2012
6	Santahar 50 MW Peaking Power Plant	50	BPDB	HFO	December, 2012
7	Katakhali 50 MW Peaking Power Plant	50	BPDB	HFO	December, 2012
	<b>Sub-Total (Public)</b>	<b>632</b>			
<b>Private sector</b>					
1	Amnura, Chapainawabganj Sponsor: Sinha Power	50	Rental (BPDB)	HFO	13 January, 2012
2	Fenchuganj 3 Years Rental Sponsor: Energy Prime Ltd.	44	Rental (BPDB)	Gas	15 February, 2012
3	Julda, Chittagong Sponsor: Acom Infrastructure Services	100	Rental (BPDB)	HFO	26 March, 2012
4	Keraniganj, Sponsor: Power Pac	100	Rental (BPDB)	HFO	27 March, 2012
5	Katakhali, Rajshahi Sponsor: NPSL	50	Rental (BPDB)	HFO	23 May, 2012
	<b>Sub-Total (Private)</b>	<b>344</b>			
	<b>Total</b>	<b>976</b>			

### Projects to be implemented in 2013

Sl. No	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1.	Haripur 360 MW CCPP: GT Unit	273	EGCB	Gas	February, 2013
2.	Khulna 150 MW GT	150	NWPGC	Gas/HSD	May, 2013
3.	Haripur 360 MW CCPP: ST Unit	139	EGCB	Gas	July, 2013
4.	Ashuganj 200+ - 10% MW Modular Power Plant	175	APSCL	Gas	November, 2013
	<b>Sub-Total (Public)</b>	<b>737</b>			
1.	Chittagong (Mohra) 50 MW PP	50	IPP	HFO	May, 2013
2.	Jamalpur Peaking	95	IPP	HFO/Gas	June, 2013
3.	Munshiganj (Kathpotti) 50 MW PP	52.5	IPP	HFO	June, 2013
4.	Chittagong (Patenga) 100 MW PP	108	IPP	HFO	July, 2013
5.	Bosila, Keraniganj	108	IPP	HFO/Gas	August, 2013
6.	Regional Import	500	Import		August, 2013
7.	Dhaka (Gaptoli) 108 MW PP	108	IPP	HFO	October, 2013
8.	Narayanganj (Gogonnagar) 100 MW PP	102	IPP	HFO	October, 2013
9.	Meghnaghat 300-450 MW CCPP (2 <sup>nd</sup> Unit) Duel Fuel: SC GT Unit	220	IPP	HFO/Gas	October, 2013
10.	Ghorasal, Narsindi 100 MW PP	108	IPP	HFO/Gas	October, 2013
11.	Ashuganj 50 MW PP	51	IPP	HFO/Gas	October, 2013
12.	Khulna Peaking	100	IPP	HFO	December, 2013
13.	Keraniganj (Basila) 108 MW PP	108	IPP	HFO/Gas	December, 2013
14.	Comilla (Homna) 50 MW PP	52.5	IPP	HFO/Gas	December, 2013
15.	Nababganj 50 MW PP	50	IPP (REB)	HFO	December, 2013
16.	Munshiganj 50 MW PP	50	IPP (REB)	HFO	December, 2013
17.	Manikganj 50 MW PP	50	IPP (REB)	HFO	December, 2013
	<b>Sub-Total (Private)</b>	<b>1913</b>			
	<b>Total</b>	<b>2650</b>			

## Projects to be implemented in 2014

Sl. No	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1.	Siddirganj 450 MW CCPP : SC GT Unit	200	EGCB	Gas	February, 2014
2.	Ashuganj 200 + -10% MW Modular PP	20	IPP	APSCL	February, 2014
3.	Kodda, Gazipur 150 MW PP	150	BPDB-RPCL Powergen	HFO/Gas	March, 2014
4.	Chapai nababganj	100	BPDB	HFO	May, 2014
5.	Sylhet 150 MW PP Conversion	75	BPDB	Gas	May, 2014
6.	Ashuganj 225 CCPP: SC GT Unit	150	APSCL	HFO	June, 2014
7.	Baghabari 100 MW PP Conversion	50	BPDB	Gas	August, 2014
8.	Shahjibazar 70 MW PP Conversion	35	BPDB	Gas	August, 2014
9.	Sirajganj 150 MW PP Conversion	75	NWPGC	Gas	August, 2014
10.	Kaptai Solar	5	BPDB	Solar	September, 2014
11.	Bibiana #3 CCPP: SC GT Unit	300	BPDB	Gas	September, 2014
12.	Bhola 225 MW CCPP: SC GT Unit	131	BPDB	Gas	September, 2014
13.	Sikalbaha 150-225 MW CCPP: SC GT Unit	150	BPDB	Gas/HFO	September, 2014
14.	Shahjibazar CCPP: SC GT Unit	200	BPDB	Gas	December, 2014
15.	Ghorasal 300-450 MW CCPP: SC GT Unit	200	BPDB	Gas	December, 2014
16.	Ashuganj (South) 450 MW CCPP	450	APSCL	Gas	December, 2014
17.	Siddirganj 450 MW CCPP : ST Unit	135	EGCB	Gas	December, 2014
	<b>Sub-Total (Public)</b>	<b>2426</b>			
<b>Private Sector</b>					
1.	Kliakair Peaking Plant, Gazipur	149	IPP	Gas/HFO	March, 2014
2.	Bhairab, Kishoregonj 50 MW PP	50	IPP	HFO	March, 2014
3.	Sathkira 50 MW PP	50	IPP	HFO	March, 2014
4.	Keraniganj 150 MW PP	150	IPP	Gas/HFO	May, 2014
5.	Fenchuganj 100-150 MW CCPP	163	IPP	Gas/HFO	June, 2014
6.	Tangail 20 MW	20	IPP(REB)	Gas/HFO	June, 2014

Sl. No	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
7.	Narayanganj 50 MW	50	IPP(REB)	HFO	June, 2014
8.	Meghnaghat 300-450 MW CCPP (2 <sup>nd</sup> Unit): ST Unit	115	IPP	Gas/HFO	July, 2014
9.	Bhola 150-225 CCPP (2 <sup>nd</sup> unit): SC GT Unit	145	IPP	Gas	August, 2014
	<b>Sub-Total ( Private)</b>	<b>892</b>			
	<b>Total</b>	<b>3318</b>			

### Projects to be implemented in 2015

Sl. No	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1.	AQshuganj 225 CCPP: ST Unit	75	APSCL	Gas	March, 2015
2.	Bibiana #3 CCPP: ST Unit	150	BPDB	Gas	June, 2015
3.	Bheramara 360 MW CCPP	360	NWPGC	Gas	June, 2015
4.	Shahjibazar 225 MW CCPP: ST Unit	75	BPDB	Gas/HFO	June, 2015
5.	Bhola 225 MW CCPP : ST Unit	74	IPP	Gas	August, 2015
6.	Shahjibazar CCPP: ST Unit	100	BPDB	Gas	October, 2015
7.	Ghorasal 300-450 MW CCPP: ST Unit	100	BPDB	Gas	October, 2015
	<b>Sub-Total (Public)</b>	<b>934</b>			
<b>Private Sector</b>					
1.	Solar	7	IPP	Solar	January, 2015
2.	Sirajganj 300-450 MW CCPP (1 <sup>st</sup> Unit): SC GT Unit	249	IPP	Gas/HSD	January, 2015
3.	Bibiana 300-450 MW CCPP (1 <sup>st</sup> Unit): SC GT Unit	222	IPP	Gas	March, 2015
4.	Bibiana 300-450 MW CCPP (2 <sup>nd</sup> Unit): SC GT Unit	222	IPP	Gas	March, 2015
5.	LNG Based 200-850 MW CCPP: ST Unit	150	IPP	LNG	March, 2015
6.	Wind	100	IPP(BPDB)	Wind	March, 2015
7.	Bhola 150-225 CCPP (2 <sup>nd</sup> Unit): ST Unit	73	IPP	Gas	June, 2015
8.	Chittagong 150-300 MW Coal fired Power Project	283	IPP	Imp. Coal	June, 2015
9.	Khulna 150-300 MW Coal fired Power Projec	283	IPP	Imp. Coal	June, 2015
10.	Sirajganj 300-450 MW CCPP: ST Unit	118	IPP	Gas/HSD	October, 2015
	<b>Sub-Total (Private)</b>	<b>1707</b>			
	<b>Total</b>	<b>2641</b>			

## Projects to be implemented in 2016

Sl. No	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1.	Barapukuria 250-300 MW (3 <sup>rd</sup> Unit)	250	BPDB	Coal	January, 2016
2.	Ashuganj (North) CCPP	450	APSCL	Gas	January, 2016
	<b>Sub-Total (Public)</b>	<b>700</b>			
<b>Private Sector</b>					
1.	Bibiana 300-450 MW CCPP (1 <sup>st</sup> Unit)	119	IPP	Gas	January, 2016
2.	Bibiana 300-450 MW CCPP (2 <sup>nd</sup> Unit): ST Unit	119	IPP	Gas	January, 2016
3.	Maowa, Munshiganj 300-650 MW Coal Fired Power Project	522	IPP	Imp. Coal	February, 2016
4.	LNG Based 200-850 MW CCPP: ST Unit	75	IPP	LNG	March, 2016
5.	Khulna 1300 MW Large Coal	1300	PPP (Joint Vent.)/IPP	Imp.Coal	June, 2016
	<b>Sub-Total (Private)</b>	<b>2135</b>			
	<b>Total</b>	<b>2835</b>			



**Signing of contract between BPDB and Orion Group for construction of Three different Power Plants of total 1086 MW capacity.**

## **RENEWABLE ENERGY DEVELOPMENT PROGRAM**

Development of renewable energy is one of the important strategies adopted by the Government for going green. Under the existing generation scenario of Bangladesh, renewable energy has a very small share to the total generation. The present share of renewable energy is about 0.5%. BPDB has taken systematic steps for the last few years in the development of renewable energy and implementation of energy efficiency measures to achieve the target of renewable energy policy 2008 of the Government.

### **SOLAR POWER PROJECT**

#### **Ongoing Solar Projects**

- BPDB has taken steps to install 5 MW grid connected solar PV power plant at Kaptai Hydro Power station.
- 1 MW solar PV power plant (off grid solar-wind- diesel based hybrid system) at Hatiya Island, Noakhali.
- 650 kWp (400 kW load) solar mini grid power plant at remote haor area of Sulla upazila at Sunamgonj district under climate change trust fund (CCTF).
- 1000 KM of street lighting based on solar PV and LED based technology in seven (7) city corporations of the country.
- BPDB is installing solar power systems in all offices of BPDB across the country to run the light and fan load.

#### **Solar Projects under Planning**

- BPDB has planned to install 10 MW grid connected solar PV power plant on BOO basis at Jamalpur and Rajshahi.
- BPDB has planned to install 1 MW solar mini grid power plant under climate change trust fund (CCTF) at remote and inaccessible areas of Chittagong and Bandarban district.
- BPDB has planned to implement solar park projects on BOO basis under the roadmap of ADB's 500 MW solar power mission.
- BPDB has planned to install 1 MW solar pv plant (off grid solar- diesel based hybrid system) at Kutubdia island.

### **WIND POWER PROJECT**

The potential of wind energy is limited to coastal areas, off-shore islands, rivers sides and other inland open areas with strong wind regime. In order to generate electricity from wind energy, BPDB installed 4x225 kW = 900 kW capacity grid connected wind turbine at Muhuri dam area of Sonagazi in Feni. Another project of 1000 kW wind battery hybrid power plant at Kutubdia Island was completed in 2008 which consists of 50 wind turbines of 20kW capacity each.

#### **Ongoing wind Projects**

- BPDB has taken steps to install 1MW wind power plant (off grid solar-wind- diesel based hybrid system) at Hatiya Island, Noakhali.
- BPDB is also going to install 15 MW wind power plant across the coastal regions of Bangladesh pursuant to wind resources assessment at Muhuri dam area of Feni, Mognamaghat of Cox's Bazar, parky beach of Anwara in Chittagong, Kepupara and Kuakata of Patuakhali. Installation of wind masts has already been started at "7 no Char" of Muhuri Dam area at Feni and "Sattar Majhir Ghat" area of Mognamaghat in Cox's Bazar.

#### **Wind Projects under Planning**

- BPDB has planned to implement 50-200 MW wind power project at parky beach area, Anwara, Chittagong on BOO basis.
- To install wind monitoring stations at the potential sites of the country for comprehensive wind resource assessment (WRA).

## ON GOING DISTRIBUTION PROJECTS OF FY 2011-2012

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

Sl. no.	Name of the Projects	Projects costs			Completion Period	Cumulative progress (%)
		Local (Lakh Tk)	Foreign (Lakh Tk)	Total (Lakh Tk)		
1.	10-Town power system dev. project (Rajshahi, Pabna, Shirajgonj, Bogora, Joypurhat, Gaibandah, Nilfamari, Dinajpur, Thakurgaon & Rongpur)	25893.80	35231.46	61125.26	2003-04 to 2013-14	92.00
2.	Emergency rehabilitation & expansion of urban areas power dist. system under Ctg. zone.	18012.61	-	18012.61	2008-09 to 2012-13	62.00
3.	Emergency rehabilitation & expansion of urban areas power dist. system under Rajshahi (northern) zone.	11001.48	-	11001.48	2008-09 to 2012-13	79.46
4.	Prepayment metering project for dist. southern zone, Ctg. (Phase-I)	13736.00	-	13736.00	Jan' 2009 to June' 2014	0.42
5.	Greater Ctg. power dist. project, SCADA rehabilitation	1816.57	8588.91	10405.48	Jan' 2009 to June' 2013	90.00
6.	Central zone power dist. project, Mymensingh	23902.55	74019.89	97922.44	Dec' 2009 to June' 2013	62.00
7.	Renovation & augmentation of dist. lines & 11/4 kv s/ss under six zones of BPDB	17348.00	-	17348.00	2010-11 to 2011-12	100.00
8.	Ctg. hill-tracts power dist. dev. project, Rangamati	16447.00	-	16447.00	Jan' 2011 to June' 2013	13.87

## FUTURE DISTRIBUTION PROJECTS UPTO 2016

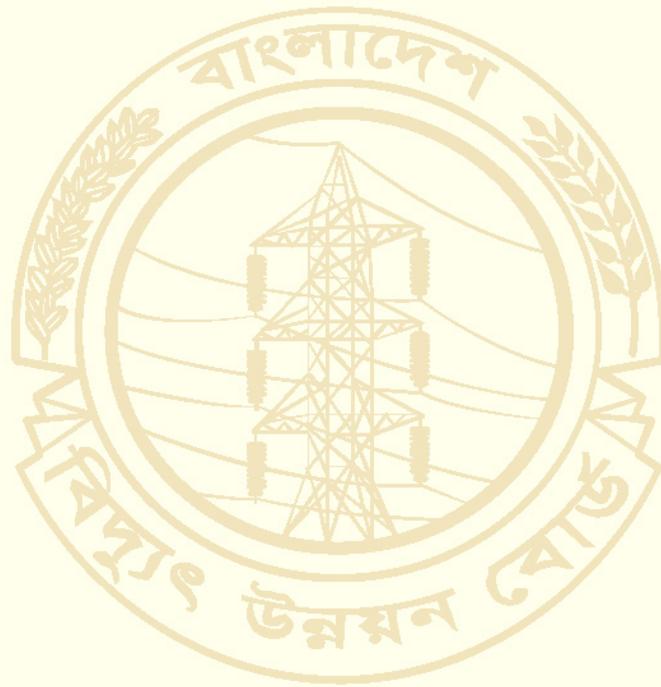
From the view point of continuous improvement in retail sales performance and consumers' service & satisfaction, BPDB has under taken the following distribution projects that are at the various stages of approval and procurement process:

Sl. no.	Name of the Projects	Projects costs		Total (Lakh Tk)
		Local (Lakh Tk)	Foreign (Lakh Tk)	
1.	Power system development project, Rajshahi zone	76545.06	-	76545.06
2.	Power system development project, Rangpur zone	74354.66	-	74354.66
3.	Power system development project, Chittagong zone	69123.06	-	69123.06
4.	Power system development project, Comilla zone	118557.90	-	118557.90
5.	Prepayment metering project for distribution, northern zone, Rajshahi (Phase-I)	24880.81	12240.59	37121.39
6.	Prepayment metering project for distribution zone, Mymensingh (Phase-I)	-	-	-
7.	Prepayment metering project for distribution zone, Comilla (Phase-I)	-	-	-



**Hon'ble Prime Minister Sheikh Hasina offering prayer after inauguration of Hathazari 100 MW, Dohazari 100 MW and Julda 100 MW Power Plant at Chittagong.**

## Chapter-3



## Other Activities

## REFORM & RESTRUCTURE

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

- The Electricity Directorate was established in 1948 in order to plan and improve power supply situation of the country. Considering the increasing demand of electricity and its importance in agriculture & industry "Water & Power Development Authority" (WAPDA) was created in 1959. Later the "WAPDA" was divided into two parts namely "Bangladesh Power Development Board" & "Bangladesh Water Development Board" by the Presidential Order 59 (PO-59) of 31st May 1972. As a result, Bangladesh Power Development Board was entrusted with the responsibilities of Operation, Maintenance, and Development of Generation, Transmission & Distribution facilities of electricity throughout the country.
- By the ordinance (Ordinance No-LI of 1977) Rural Electrification Board (REB) was established for the development of electricity in the rural areas for the effective benefit of rural people on October, 1977.
- Under the reform program Dhaka Electric Supply Authority (DESA) was created for the proper management & electrification in Dhaka city and its adjoining areas in 1990.
- DESCO has started functioning from 1996 after taking over part of the distribution network of DESA.
- DESA was reformed again as Dhaka Power Distribution Company (DPDC) in July, 2008.
- Under the Companies Act 1994, Power Grid Company (PGCB) was created in 1996 to look after the transmission system.
- 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. EGCB has implemented 2x120 MW Peaking Power Plant at Shiddirganj. EGCB has also started construction process of 360 MW CCPP Power Plant at Haripur and another 450 MW CCPP at Shiddirganj.
- North West Power Generation Company (NWPGL) was created in 2008. NWPGL has started construction process of 150 MW Peaking Power Plant at Khulna and another 150 MW Peaking Power Plant at Sirajganj. NWPGL has also started procurement process of 360 MW CCPP at Bheramara.
- 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.

## HRD ACTIVITIES

BPDB's vision is to provide quality and reliable electricity to the people of Bangladesh for desired economic, social and human development of the country undertaking institutional and structural reforms leading to the creation of an organization of international standard. In order to achieve this vision, it is needed to develop specialized skilled services in the field of operation & maintenance with outstanding performance in Generation, Transmission & Distribution. Human resource development is the key for successful implementation of development projects of hi-tech nature in power sector and efficient operation of these facilities to keep tariff at affordable range. Sector entities have program to train 50 hours/year/employee and have a plan to increase its 100 hours in future. It is very important to ensure quality training otherwise all efforts will go in vain.

**Achievement against training program conducted during FY 2012 is shown below**

Sl. No.	Name of Training Center/Academy	No. of Course	Total no. of Trainees
1.	Engineering Academy, Kaptai	36	1190
2.	Regional Training Centre, Tongi	41	1089
3.	Regional Training Centre, Chittagong	35	1132
4.	Regional Training Centre, Rajshahi	39	1246
5.	Ghorasal Training Centre, Narsingdi	41	1628
6.	Directorate of Training & Career Development, Dhaka.	65	1926
7.	Training in Abroad	67	271
8.	Seminar / Workshop	117	1406
	<b>Total</b>	<b>441</b>	<b>9617</b>

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

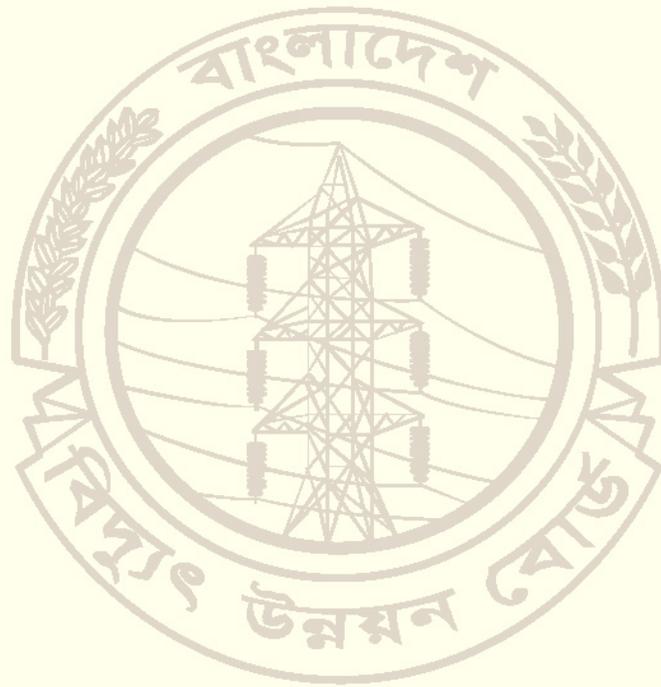


A briefing session of newly appointed Assistant Engineers.



Hon'ble Prime Minister Sheikh Hasina offering prayer after laying the foundation stone of Katakali 50 MW Power Plant

## Chapter-4



## Tables and Charts

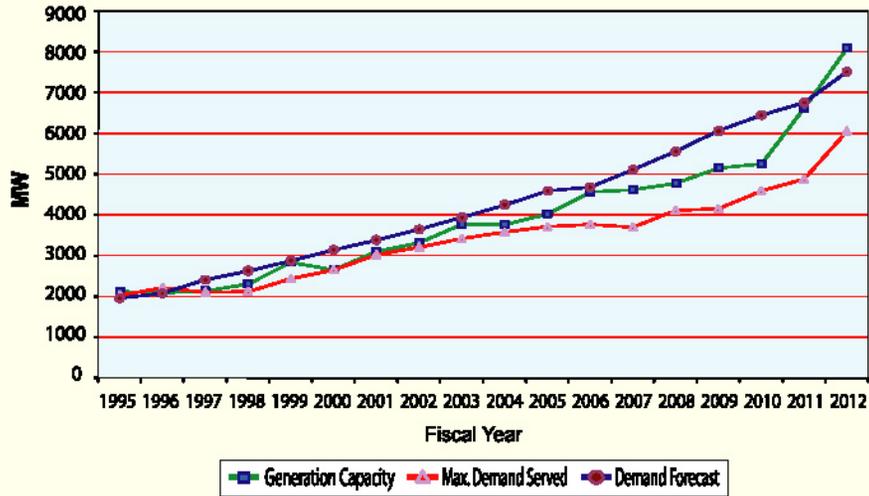
## GENERATION TABLES AND CHARTS

### Installed Capacity, Present Capacity (Derated), Maximum Demand Maximum Peak Generation and Load Shedding

Year	Installed capacity (MW) <sup>1</sup>	Present Capacity (Derated) (MW) <sup>2</sup>	Maximum Demand (MW) <sup>3</sup>	Maximum Peak Generation (MW)	Maximum Load Shedding (MW)
1974-75	667	490		266	
1975-76	766	606		301	
1976-77	767	571		342	
1977-78	752	557		396	
1978-79	718	571		437	
1979-80	822	625		462	
1980-81	813	707		545	
1981-82	857	712		604	
1982-83	919	810		709	
1983-84	1,121	998		761	
1984-85	1,141	1,018		887	
1985-86	1,171	1,016		883	
1986-87	1,607	1,442		1,084	
1987-88	2,146	1,859	-	1,317	200
1988-89	2,365	1,936	-	1,393	170
1989-90	2,352	1,834	-	1,509	180
1990-91	2,350	1,719	-	1,640	340
1991-92	2,398	1,724	-	1,672	550
1992-93	2,608	1,918	-	1,823	480
1993-94	2,608	1,881	-	1,875	540
1994-95	2,908	2,133	2,038	1,970	537
1995-96	2,908	2,105	2,220	2,087	545
1996-97	2,908	2,148	2,419	2,114	674
1997-98	3,091	2,320	2,638	2,136	711
1998-99	3,603	2,850	2,881	2,449	774
1999-00	3,711	2,665	3,149	2,665	536
2000-01	4,005	3,033	3,394	3,033	663
2001-02	4,230	3,218	3,659	3,218	367
2002-03	4,680	3,428	3,947	3,428	468
2003-04	4,680	3,592	4,259	3,592	694
2004-05	4,995	3,721	4,597	3,721	770
2005-06	5,245	3,782	4,693	3,782	1312
2006-07	5,202	3,718	5,112	3,718	1345
2007-08	5,201	4,130	5,569	4,130	1049
2008-09	5,719	5,166	6,066	4,162	1269
2009-10	5,823	5,271	6,454	4,606	1459
2010-11	7,264	6,639	6,765	4,890	1335
2011-12	8,716	8,100	7,518	6,066	1058

- Note :**
- 1 Installed capacity is as of 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 2010.

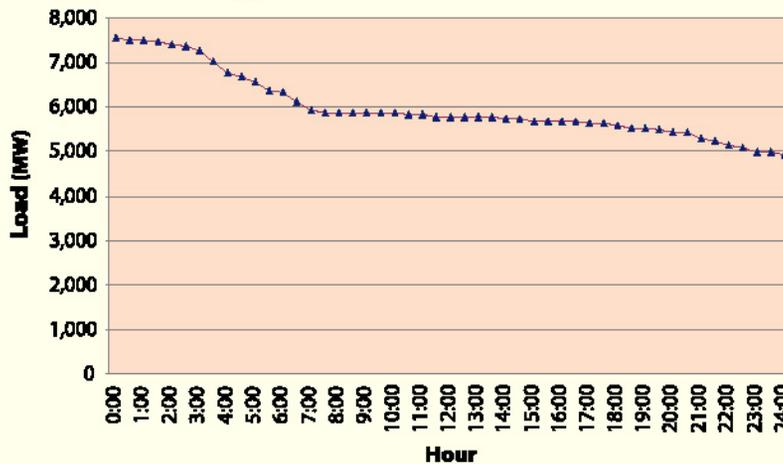
### Installed Capacity (Derated), Maximum Peak Generation & Demand Forecast



### Typical Daily Load Curve System Total



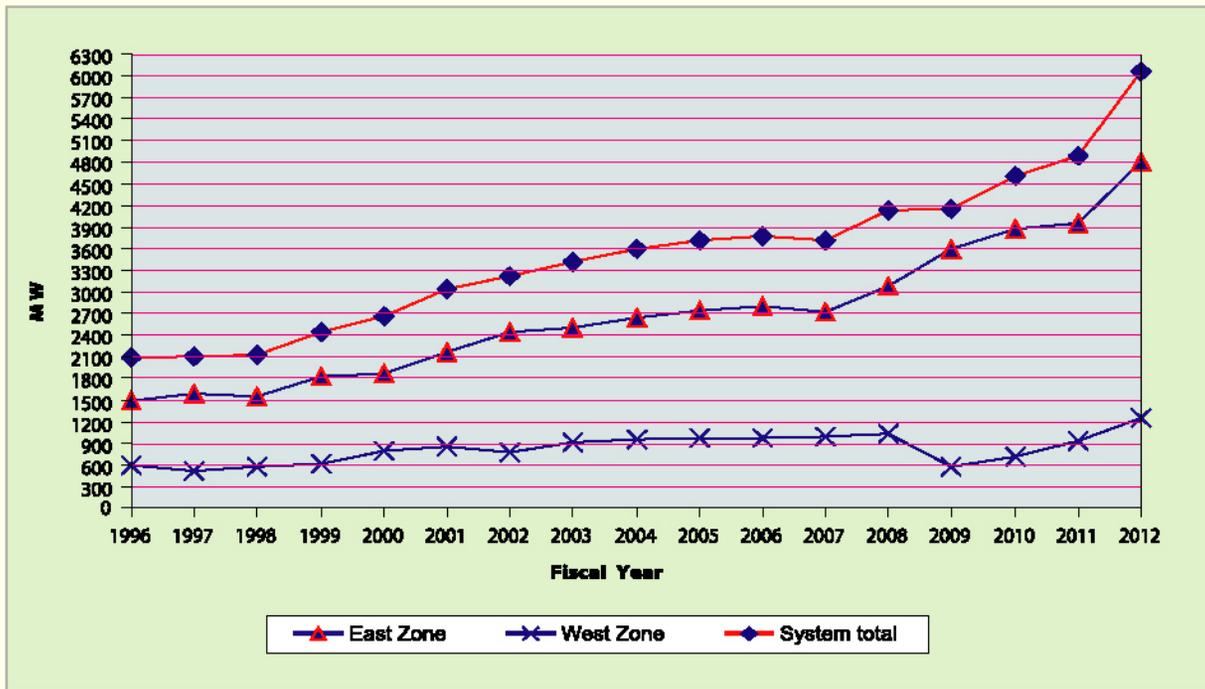
### Typical Load Duration Curve



## 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	(18.661)
1972-73	175	47	222	21.532
1973-74	185	65	250	12.603
1974-75	199	67	266	6.362
1975-76	220	81	301	13.275
1976-77	254	88	342	13.495
1977-78	287	109	396	15.779
1978-79	331	105	437	10.245
1979-80	338	124	462	5.816
1980-81	399	146	545	18.033
1981-82	451	153	604	10.719
1982-83	506	203	709	17.445
1983-84	549	212	761	7.395
1984-85	651	236	887	16.470
1985-86	613	270	883	(0.468)
1986-87	734	349	1,084	22.755
1987-88	925	392	1,317	21.551
1988-89	980	413	1,393	5.771
1989-90	1,070	439	1,509	8.327
1990-91	1,141	499	1,640	8.681
1991-92	1,160	512	1,672	1.951
1992-93	1,293	530	1,823	9.049
1993-94	1,355	520	1,875	2.836
1994-95	1,472	498	1,970	5.067
1995-96	1,497	590	2,087	5.959
1996-97	1,594	520	2,114	1.293
1997-98	1,560	577	2,136	1.026
1998-99	1,828	621	2,449	14.625
99-2000	1,878	787	2,665	8.842
2000-01	2,175	858	3,033	13.816
2001-02	2,447	771	3,218	6.076
2002-03	2,512	917	3,428	6.542
2003-04	2,646	946	3,592	4.787
2004-05	2,750	971	3,721	3.583
2005-06	2,809	973	3,782	1.647
2006-07	2,725	993	3,718	-1.700
2007-08	3,089	1,041	4,130	11.087
2008-09	3,589	573	4,162	0.777
2009-10	3,883	723	4,606	10.665
2010-11	3,962	928	4,890	6.166
2011-12	4,805	1,261	6,066	24.049

## Growth of Maximum Generation (Actual)



**MoU being signed between Power Division and BPDB for fixing the target of KPI indicator for FY 2012-13**

## Plant Wise Generation (FY 2011-12)

Sl. No.	Name of power plant	Type of fuel	Installed Capacity (As of June) (MW)	Gross Energy Generation (GWh)	Annual Plant factor (%)	Efficiency (%) (Net)	Overall Thermal Efficiency (%) (Net)
1	Karnafuli Hydro(2x40 MW+3x50 MW)	Hydro	220	780.26	40.49		<b>32.00</b>
2	Chittagong Thermal Power Plan Unit #-1	Gas	200	566.25	32.32	27.30	
	Chittagong Thermal Power Plan Unit #-2	Gas	180	118.00	7.48	29.81	
3	Sikalbaha 60 MW Steam Turbine	Gas	40	43.55	12.43	25.24	
4	Sikalbaha 150 MW Gas Turbine	Gas	150	324.09	24.66	27.94	
5	Hathazari 100 MW Peaking PP	F.Oil	98	73.79	8.60	41.01	
6	Sangu, Dohazari 100MW PP	F.Oil	102	80.09	8.96	40.80	
7	Ashuganj 2x64 MW Steam Turbine	Gas	128	340.28	30.35	29.49	
	Ashuganj 3x150 MW Steam Turbine	Gas	390	2786.07	81.55	33.44	
	Ashuganj GT 1	Gas	35	240.89	78.57	21.37	
	Ashuganj ST	Gas	16	77.60	55.37	29.23	
	Ashuganj GT 2	Gas	40	316.17	90.23	29.23	
8	Chandpur 150MW CCGP	Gas	53	406.74	87.61	40.10	
9	Ghorasal 2x55 MW Steam Turbine (1+2nd Unit)	Gas	78	98.95	22.40	28.43	
	Ghorasal 2x210 MW Steam Turbine( 3+4th Unit)	Gas	360	2213.03	70.17	31.02	
	Ghorasal 2X210 MW S/T (5+6th Unit)	Gas	380	1389.10	41.73	30.40	
10	Siddhirganj 210 MW Steam Turbine	Gas	150	1.98	0.15	33.24	
11	Siddhirganj 2x120 MW Gas Turbine	Gas	210	702.69	38.20	25.44	
12	Haripur 3x33 MW Gas Turbine	Gas	60	355.04	67.55	24.01	
13	Tongi 100 MW Gas Turbine	Gas	105	451.91	49.13	25.76	
14	Shahjibazar Gas Turbine(4 units)	Gas		19.43			
	Shahjibazar 60 MW Gas Turbine	Gas	66	415.92	71.94	28.21	
15	Sylhet 1x20 MW Gas Turbine	Gas	20	13.46	7.68	25.22	
16	Sylhet 1x150 MW Gas Turbine	Gas	142	103.95	8.36	30.94	
17	Fenchuganj C.C. (1st Unit)	Gas	90	538.55	68.31	38.92	
18	Fenchuganj C.C. (2nd Unit)	Gas	104	447.15	49.08	36.68	
19	Titas(Doudkandi) 50 MW RE	F.oil	52	74.41	16.34	41.07	
20	Khulna 1x110 MW Steam Turbine	F.oil	55	147.61	30.64	22.55	
	Khulna 1x60 MW Steam Turbine	F.oil	30	26.05	9.91	21.47	
21	Barisal 2x20 MW Gas Turbine	HSD	32	41.06	14.65	18.60	
	Barisal Diesel(9 units)	HSD		0.11		11.29	
22	Bhola Diesel Bhola New	HSD		0.20			
		FO		0.00			
		HSD		0.07			
23	Bheramara 3x20 MW Gas Turbine	HSD	46	56.15	13.93	22.52	
24	Baghabari 71 MW Gas Turbine	Gas	71	364.49	58.60	27.99	
	Baghabari 100 MW Gas Turbine	Gas	100	735.18	83.92	28.12	
25	Baghabari 50 MW RE	F.Oil	52	97.44	21.39	39.86	
26	Gopalganj 100 MW Peaking PP	F.Oil	109	100.77	10.55	38.83	
27	Bera 70 MW RE	F.Oil	71	70.34	11.31	33.37	
28	Faridpur 50 MW Peaking PP	F.Oil	54	55.58	11.75	42.25	
29	Rangpur 20 MW Gas Turbine	HSD	20	20.27	11.57	11.77	
30	Saidpur 20 MW Gas Turbine	HSD	20	19.33	11.03	22.30	
31	Barapukuria 2x125 MW ST (COAL)	COAL	200	1022.96	58.39	26.81	
	<b>Total (Grid)</b>		<b>4329</b>	<b>16072</b>	<b>42.38</b>		
32	Isolated East	HSD		1.59			
	Isolated West	HSD					
	<b>Total BPDB</b>		<b>4329</b>	<b>16073</b>			
	<b>BPDB Station Uses</b>			<b>873 GWh</b>			

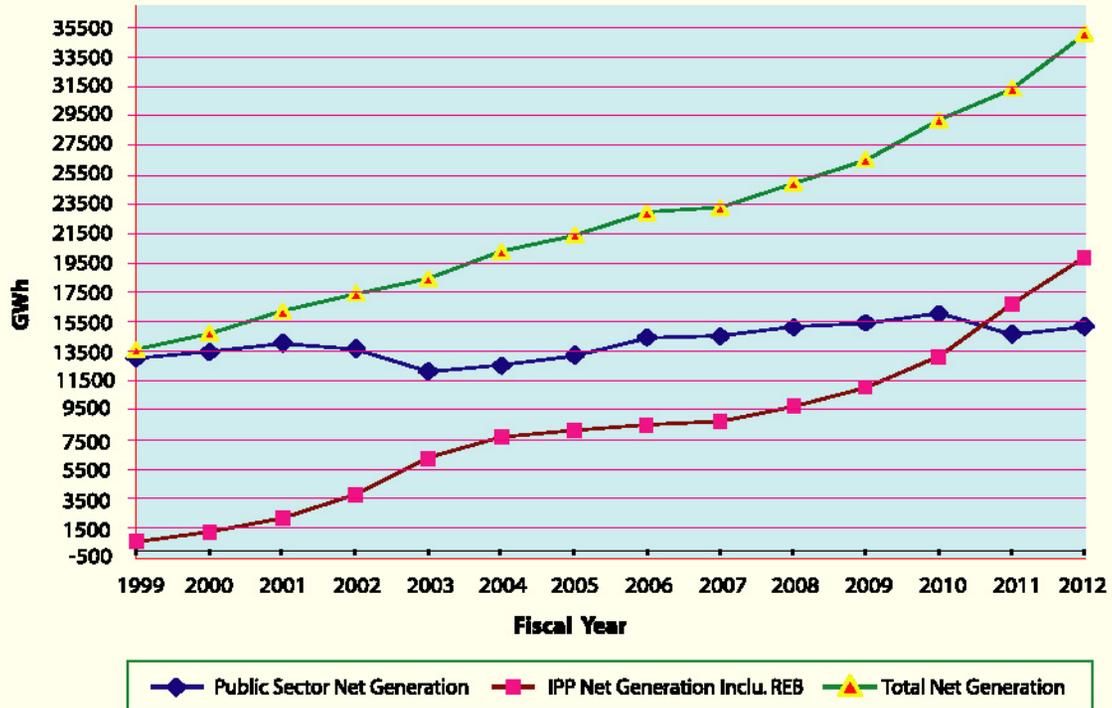
Sl. No.	Name of power plant	Type of fuel	Installed Capacity (As of June) (MW)	Gross Energy Generation (GWh)	Annual Plant factor (%)	Efficiency (%) (Net)	Overall Thermal Efficiency (%) (Net)
	<b>IPP</b>						
1	KPCL (Khulna,BMPP)	FO	110	516.35	53.59	39.10	
2	WEST MONT(Baghabari,BMPP)	Gas	70	241.77	39.43	29.10	
3	NEPC (Haripur, BMPP)	Gas	110	377.68	39.19	41.00	
4	RPCL (Mymensingh)	Gas	197	1306.53	75.71	45.10	
5	AES, Haripur	Gas	360	2601.60	82.50	49.00	
6	AES, Meghnaghat	Gas	450	3662.69	92.91	45.20	
	<b>Sub-Total IPP</b>		<b>1297</b>	<b>8706.62</b>			
	<b>Rental &amp; SIPP</b>						
1	Bogra Rental ( 15 Years)	Gas	22	167.58	86.96	29.00	
2	Khulna Rental ( 3 Years)	HSD	40	131.43	37.51	43.60	
3	Kumargoan ( 3 Years)	Gas	50	272.38	62.19	34.30	
4	Sahzibazar RPP ( 3 Years)	Gas	50	281.95	64.37	28.40	
5	Sahzibazar RPP ( 15 Years)	Gas	86	589.43	78.24	27.30	
6	Tangail SIPP (22 MW) (BPDB)	Gas	22	138.60	71.92	38.30	
7	Feni SIPP (22 MW) (BPDB)	Gas	22	159.62	82.82	37.09	
8	Kumargao 10 MW (15 Years)	Gas	10	47.91	54.69	35.50	
9	Barabkundu	Gas	22	153.21	79.50	38.30	
10	Bhola RPP (34.5 MW)	Gas	33	45.02	15.57	30.00	
11	Jangalla , Comilla (33 MW)	Gas	33	214.64	74.25	38.20	
12	Fenchugonj 51 MW Rental (15 Yrs)	Gas	51	304.43	68.14	31.30	
13	Shikalbaha 55 MW Rental (3 Years)	F.oil	53	84.85	18.28	43.00	
14	Malancha			133.69			
15	Ashugonj 55 MW 3 Years Rental	Gas	55	420.19	87.21	32.50	
16	Thakurgaon 50 MW 3 Years Rental	HSD	47	76.95	18.69	36.70	
17	Fenchugonj 50 MW (Energy Prima)	Gas	44	187.17	48.56	31.30	
18	Ghorashal 45 MW RPP (Aggreko)	HSD Gas	45	108.88 154.62	50.64 86.29	32.00 35.90	
19	Khulna 55 MW RPP 3 yrs (Aggreko)	HSD	55	133.42	27.69	32.50	
20	Ghorashal 100 MW RPP Aggreko)	HSD Gas	100	265.97 346.58	55.64 87.04	32.00 35.90	
21	Pagla 50 MW ( DPA)	HSD	50	132.68	30.29	38.30	
22	Bheramara 110 MW 3 Yrs Rental (Quantum)	HSD	105	257.39	27.98	41.00	
23	Shiddirgonj 100 MW Q. Rental 3 Yrs	HSD	96	254.58	30.27	39.20	
24	B.Barua 70 MW QRPP (3 Yrs Aggreco)	Gas	70	508.91	82.99	35.90	
25	Madangonj 100 MW QRPP (5 Yrs Summit)	F.oil	100	413.85	47.24	41.60	
26	Khulna 115 MW QRPP (5 Yrs Summit)	F.oil	115	609.01	60.45	39.10	
27	Ghorashal 78 MW QRPP (3 Yrs Max Power)	Gas	78	303.76	44.46	35.80	
28	Noapara 40 MW QRPP (5 Yrs Khan Jahan Ali)	F.oil	40	183.76	52.44	40.90	
29	Ashugonj 80 MW QRPP (3 Yrs Aggreco)	Gas	80	628.51	89.68	35.90	
30	Noapara 105 MW RPP (5 Yrs Quantum)	F.oil	101	152.41	17.23	41.00	
31	Ashugonj 53 MW Q. Rental PP (3 Years, United)	Gas	53	419.66	90.39	36.30	
32	Meghnagat 100 MW QRPP (5 Yrs) IEL	F.oil	100	436.03	49.78	41.10	
33	Bogra RPP 3 Yrs (Energy Prima)	Gas	20	84.24	48.08	41.80	
34	Shiddirgonj 100 MW QRPP (5 Years) Dutch Bangla	F.Oil	100	440.41	50.28	41.10	
35	Amnura 50 MW QRPP (5 Yrs, Sinha Power)	F.Oil	50	64.65	14.76	41.60	
36	Keranigonj 100 MW QRPP(5 Yrs) Power Pac	F.Oil	100	70.67	8.07	40.80	
37	Julda 100MW QRPP (5 Yrs, Acron infra)	F.Oil	100	73.98	8.45	41.20	
38	Katakhal 50 MW QRPP	F.Oil	50	36.70	8.38	41.00	
	<b>Sub-Total (Rental &amp; SIPP)</b>		<b>2248</b>	<b>9489</b>			
	<b>Total Private (Net Generation)</b>		<b>3545</b>	<b>18196</b>			
	<b>BPDB Net Generation</b>			<b>15200</b>			
	<b>Total Net Generation (BPDB+IPP Net)</b>			<b>33396</b>			
	<b>Total Generation (BPDB Gross+IPP &amp; Rental net)</b>		<b>7874</b>	<b>34270</b>			

## Energy Generation (National)

In GWh

Year	Gross Energy Generation of Public Sector			Net Generation of Public Sector	Total Private Generation Inclu. REB (Net)	Total Generation (Net)	% Change over the Preceding Year	Energy Transfer through East-West Interconnector	
	East Zone	West Zone	System Total					East to West	West to East
1970-71	725	204	929	883		883			
1971-72	582	135	717	681		681	(22.82)		
1972-73	857	229	1086	1031		1,031	51.41		
1973-74	982	283	1265	1202		1,202	16.56		
1974-75	1022	300	1322	1256		1,256	4.48		
1975-76	1116	344	1460	1387		1,387	10.41		
1976-77	1224	394	1619	1538		1,538	10.89		
1977-78	1444	468	1913	1817		1,817	18.18		
1978-79	1603	519	2122	2016		2,016	10.95		
1979-80	1745	609	2353	2236		2,236	10.89		
1980-81	1,978	684	2,662	2529		2,529	13.11	-	-
1981-82	2,292	744	3,036	2885		2,885	14.07	-	-
1982-83	2,846	587	3,433	3261		3,261	13.05	341.32	0.24
1983-84	3,398	568	3,966	3768		3,768	15.54	519.04	1.44
1984-85	3,656	873	4,528	4302		4,302	14.18	477.41	20.63
1985-86	3,488	1,312	4,800	4560		4,560	6.00	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	-

## Total Net Energy Generation



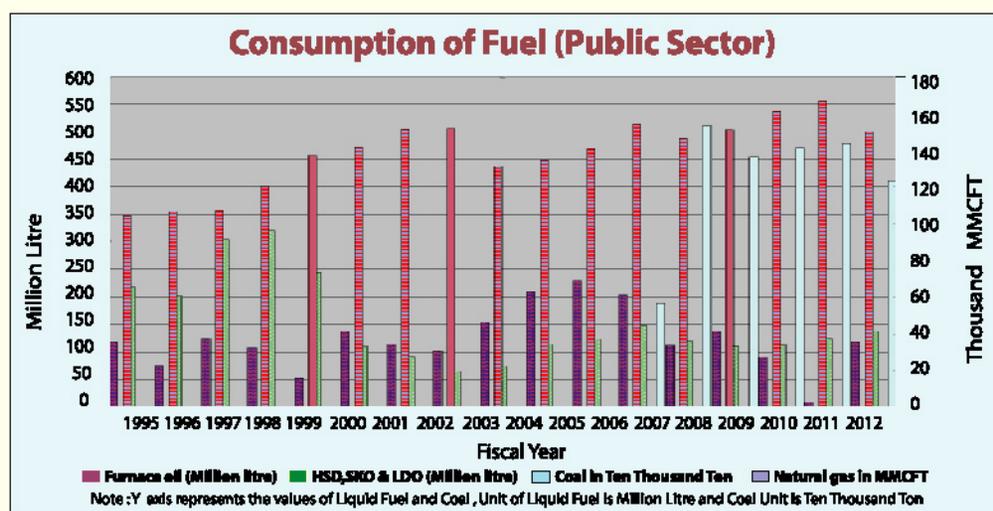
Hon'ble Prime Minister Sheikh Hasina offering prayer after inauguration of Gopalganj 100 MW Power Plant

## Per Capita Generation And Consumption (Grid)

Year	Total Generation (GWh)	Total Population (In million)	Total Sale (MkWh)	Per Capita Generation (kWh)	Per Capita Consumption (kWh)
1976-77	1,619	82	1,013	19.80	12.39
1977-78	1,913	84	1,205	22.85	14.39
1978-79	2,122	86	1,381	24.78	16.13
1979-80	2,353	88	1,406	26.85	16.04
1980-81	2,662	90	1,740	29.73	19.43
1981-82	3,036	92	2,028	33.04	22.07
1982-83	3,433	94	2,399	36.48	25.49
1983-84	3,966	96	2,703	41.25	28.12
1984-85	4,528	98	2,841	46.16	28.96
1985-86	4,800	100	3,307	48.00	33.07
1986-87	5,587	103	3,485	54.19	33.81
1987-88	6,541	105	3,773	62.02	35.77
1988-89	7,115	108	4,695	65.91	43.49
1989-90	7,732	110	4,705	70.02	42.60
1990-91	8,270	111	4,871	74.77	44.04
1991-92	8,894	112	6,021	79.32	53.70
1992-93	9,206	115	6,906	80.01	60.02
1993-94	9,784	116	7,448	84.19	64.08
1994-95	10,806	117	8,371	92.06	71.32
1995-96	11,474	119	8,996	96.79	75.88
1996-97	11,858	120	9,447	99.03	78.90
1997-98	12,882	127	10,176	101.84	80.44
1998-99	14,450	128	11,352	112.89	88.69
1999-00	15,563	130	12,461	119.71	95.85
2000-01	16,255	132	14,003	123.14	106.08
2001-02	17,445	134	15,243	136.02	113.80
2002-03	18,458	133	16,332	138.36	122.43
2003-04	20,302	135	18,024	149.94	133.11
2004-05	21,408	137	19,196	155.78	139.68
2005-06	22,978	139	20,954	164.73	150.22
2006-07	23,268	141	21,181	164.75	149.97
2007-08	24,946	143	22,622	174.45	158.20
2008-09	26,533	145	23,937	183.26	165.32
2009-10	29,247	146	24,860	200.32	170.27
2010-11	31,355	148	26,652	211.86	180.08
2011-12	35,118	152	29,974	231.65	197.72

## Fuel Consumption of Public Sector Power Plants

Year	Natural Gas in MMCFT	Liquid Fuel in Million liter		Coal in Million Ton
		Furnace oil	HSD, SKO & LDO	
1975-76	8,841.12	81.91	0.39	
1976-77	10,850.48	75.05	67.97	
1977-78	13,081.39	80.77	103.35	
1978-79	14,579.55	128.41	84.50	
1979-80	15,940.70	103.63	134.58	
1980-81	18,904.42	68.66	209.44	
1981-82	22,251.24	77.47	229.56	
1982-83	27,697.51	120.06	113.20	
1983-84	30,298.69	175.55	86.63	
1984-85	38,116.27	201.16	94.23	
1985-86	39,809.78	283.49	142.51	
1986-87	51,773.82	199.03	94.35	
1987-88	59,220.57	231.51	52.00	
1988-89	62,291.95	122.68	103.58	
1989-90	72,461.50	53.50	78.02	
1990-91	78,258.10	17.73	40.64	-
1991-92	83,803.43	68.87	75.78	-
1992-93	88,117.25	127.27	94.21	-
1993-94	92,064.05	122.70	113.79	-
1994-95	1,03,907.60	118.42	216.80	-
1995-96	1,06,592.75	75.58	200.49	-
1996-97	1,07,240.03	124.48	304.13	-
1997-98	1,20,376.26	108.47	320.11	-
1998-99	1,36,802.00	53.14	245.05	-
1999-00	1,41,330.13	137.35	110.49	-
2000-01	1,51,312.47	114.02	92.01	-
2001-02	1,51,577.35	102.10	66.00	-
2002-03	1,31,180.00	154.20	74.08	-
2003-04	1,34,482.37	209.17	114.32	-
2004-05	1,41,021.85	229.86	123.75	-
2005-06	1,53,920.65	204.85	149.61	0.19
2006-07	1,46,261.67	111.84	119.19	0.51
2007-08	1,50,991.54	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	1,50,031.41	118.73	137.66	0.41
2011-12	1,51,047.84	182.48	59.89	0.45



## Fuel Cost of Public Sector Power Plants

Million Taka

Year	East Zone	West Zone	System Total	% Change over preceeding Year
1991-92	3,336.97	1,484.19	4,821.16	
1992-93	3,802.65	2,157.13	5,959.78	23.62
1993-94	4,084.66	2,388.00	6,472.66	8.61
1994-95	4,951.18	3,242.11	8,193.29	26.58
1995-96	5,071.53	2,828.16	7,899.69	(-) 3.58
1996-97	4,881.96	4,376.39	9,258.35	17.20
1997-98	5,809.44	4,479.35	10,288.79	11.13
1998-99	7,116.38	3,324.56	10,440.93	1.48
1999-00	7,732.30	2,079.79	9,812.10	(-) 6.02
2000-01	8,845.51	2,532.66	11,378.17	15.96
2001-02	9,151.63	2,474.40	11,626.03	2.18
2002-03	8,324.49	3,488.12	11,812.61	1.60
2003-04	8,482.43	4,926.22	13,408.66	13.51
2004-05	9,312.80	6,757.12	16,069.91	19.85
2005-06	8,944.90	7,384.60	16,329.50	1.62
2006-07	7,265.36	9,494.06	16,759.43	2.63
2007-08	8,759.19	8,194.23	16,953.42	1.16
2008-09	6,623.57	11,608.60	18,232.17	7.54
2009-10	7,119.50	9,244.78	16,364.28	(10.25)
2010-11	6,431.29	12,632.05	19,063.34	16.49
2011-12	13,831.47	14,739.75	28,571.22	49.88

## Fuel Price

Fuel Type	Unit price with effect from														
	06.01.03	08.06.04	01.01.05	04.09.05	26.06.06	02.04.08	01.07.08	27.10.08	23.12.08	13.01.09	15.03.09	01.08.09	05.05.11	01.01.12	01.02.12
High speed Diesel Oil (TK/ Lit)	19.83	19.83	22.37	29.18	31.98	40.00	53.43	46.51	44.61	42.71	42.71	42.71	46.00	61.00	61.00
Furnace oil (TK/ Lit)	10.00	12.00	12.00	14.00	14.00	20.00	30.00	30.00	30.00	30.00	26.00	26.00	42.00	60.00	60.00
Natural Gas (TK/ 1000 Cft)	70.00	70.00	73.91	73.91	73.91	73.91	73.91	73.91	73.91	73.91	73.91	79.82	79.82	79.82	79.82
Coal (US \$/ M Ton)					60	60	71.5	71.5	71.5	71.5	71.5	71.5	86.00	86.00	105.00

# TRANSMISSION TABLES & CHARTS

## Circle Wise Sub-stations Capacity (MVA)

As of June 2012

### 230/132 kV Sub-stations

Name of Grid Circle	PGCB		PDB		DPDC & Others	
	No. of S/S	Total MVA	No. of S/S	Total MVA	No. of S/S	Total MVA
Dhaka	5	3375		250		
Chittagong	1	600	1			
Comilla	1	450			1	300
Khulna	1	450				
Bogra	4+1(Switch)	1800				
<b>Total</b>	<b>13</b>	<b>6675</b>	<b>1</b>	<b>250</b>	<b>1</b>	<b>300</b>
<b>Grand Total</b>	<b>7225</b>					

### 132/33 kV Sub-stations

Name of Grid Circle	PGCB		PDB		DPDC, APSC & Others	
	No. of S/S	Total MVA	No. of S/S	Total MVA	No. of S/S	Total MVA
Dhaka	23	3473	1	100	12	1545
Chittagong	11	1214	2	103	1	70
Comilla	11	1111	2	157	1	
Khulna	19	1667			Bheramara GK Project	
Bogra	19	1681				
<b>Total</b>	<b>83</b>	<b>9146</b>	<b>5</b>	<b>360</b>	<b>15</b>	<b>1635</b>
<b>Grand Total</b>	<b>11141</b>					



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## Synopsis of Transmission Lines

(As on June 2012)

### 230 kV Transmission Lines

Sl. No.	Name of Lines	Lenth in Route kilometers	Lenth in Ckt kilometers	No. of Ckt.	Conductor	
					Name	Size
1	Ghorasal-Ishurdi (1st EWI)	178.00	356.00	Double	Mallard	795 MCM
2	Tongi - Ghorasal	27.00	54.00	Double	Mallard	795 MCM
3	Ghorasal - Ashuganj	44.00	88.00	Double	Mallard	795 MCM
4	Raojan - Hathazari	22.50	45.00	Double	Twin 300 sq.mm	
5	Ashuganj - Comilla North	79.00	158.00	Double	Finch	1113 MCM
6	Ghorasal - Rampura	50.00	100.00	Double	Twin Mallard	2x795 MCM
7	Rampura - Haripur	28.00	56.00	Double	Twin Mallard	2x795 MCM
8	Haripur - Meghnaghat	12.50	25.00	Double	Twin Mallard	2x795 MCM
9	Meghnaghat - Hasnabad	26.00	52.00	Double	Twin Mallard	2x795 MCM
10	Comilla North - Hathazari	150.00	300.00	Double	Finch	1113 MCM
11	AES, Haripur - Haripur	2.40	4.80	Double	Finch	1113 MCM
12	Comilla North - Meghnaghat	58.00	116.00	Double	Twin Mallard	2x795 MCM
13	Hasnabad - Aminbazar - Tongi	46.50	93.00	Double	Twin AAAC	37/4.176 mm
14	Siddhirganj 210 MW P/S - Haripur	1.50	1.50	Single	ACSR	600 sq. mm
15	Ashuganj - Sirajganj (2nd EWI)	143.00	286.00	Double	Twin AAAC	37/4.176 mm
16	Khulna - Ishurdi	185.00	370.00	Double	Twin AAAC	37/4.176 mm
17	Bogra-Barapukuria	106.00	212.00	Double	Twin AAAC	37/4.176 mm
18	Sirajganj-Bogra	72.00	144.00	Double	Twin AAAC	37/4.176 mm
19	Ishurdi-Baghabari	55.00	110.00	Double	Twin AAAC	37/4.176 mm
20	Baghabari-Sirajganj	38.00	76.00	Double	Twin AAAC	37/4.176 mm
	<b>Total</b>	<b>1324.40</b>	<b>2647.30</b>			

### 132 kV Transmission Lines

Sl. No.	Name of Lines	Length in Route kilometers	Length in Ckt. kilometers	No. of Ckt.	Conductor	
					Name	Size
1	Siddhirganj - Shahjibazar	138	276	Double	Grosbeak	636 MCM
2	Shahjibazar - Chatak	150	300	Double	Grosbeak	636 MCM
3	Siddhirganj - Kaptal	273	546	Double	Grosbeak	636 MCM
4	Kulshi - Halishahar	13	26	Double	Grosbeak	636 MCM
5	Comilla South - Chandpur	61	122	Double	Linnet + Grosbeak	(336.4 + 636) MCM
6	Comilla North - Comilla South	16	32	Double	Grosbeak	636 MCM
7	Ashuganj - Jamalpur	166	332	Double	Grosbeak	636 MCM
8	Madanhat - Sikalbaha	13	26	Double	Grosbeak	636 MCM
9	Sikalbaha - Dohazari	35	70	Double	Grosbeak	636 MCM
10	Sikalbaha - Julda	5	5	Single	AAAC	804 sq.mm
11	Julda-Halisahar	8	8	Single	AAAC	804 sq.mm
12	Kulshi - Baraulia	13	13	single	Grosbeak	636 MCM
	Khulshi-Abul Khair	9	9	single	Grosbeak	636 MCM
	Abul Khair-Baraulia	4	4	single	Grosbeak	636 MCM
13	Madanhat - Kulshi	13	13	Single	Grosbeak	636 MCM
14	Madanhat - Kulshi	13	13	Single	Grosbeak	636 MCM
15	Kaptai - Baraulia	58	116	Double	Grosbeak	636 MCM
16	Dohazari - Cox's Bazar	87	174	Double	Grosbeak	636 MCM
17	Feni - Chowmuhani	32	64	Double	Grosbeak	636 MCM
18	Baraulia - Kabir Steel	4	4	Single	Grosbeak	636 MCM
19	Mymensingh - Netrokona	34	68	Double	Grosbeak	636 MCM
20	Goalpara - Ishurdi	169	338	Double	AAAC	804 MCM
21	Ishurdi - Bogra	103	206	Double	AAAC	804 MCM
22	Bogra - Saidpur	140	280	Double	AAAC	804 MCM
23	Saidpur - Thakurgaon	64	128	Double	AAAC	804 MCM
24	Goalpara - Bagerhat	45	45	Single	AAAC	804 MCM
25	Barisal - Bhandaria - Bagerhat	80	80	Single	HAWK	477 MCM
26	Bagerhat - Mangla	31	31	Single	HAWK	477 MCM
27	Barisal - Patuakhall	37	37	Single	Grosbeak	636 MCM
28	Bheramara - Faridpur - Barisal	225	450	Double	HAWK	477 MCM
29	Rajshahi - Natore	40	40	Single	HAWK	477 MCM
30	Ishurdi - Baghabari - Shahjadpur	57	57	Single	HAWK	477 MCM

Sl. No.	Name of Lines	Length in Route kilometers	Length in Ckt. kilometers	No. of Ckt.	Conductor	
					Name	Size
31	Ishurdi - Pabna - Shahjadpur	56	56	Single	Grosbeak	636 MCM
32	Bogra - Sirajganj	66	132	Double	Grosbeak	636 MCM
33	Sirajganj-Shahjadpur	34	34	Single	Grosbeak	636 MCM
34	Rajshahi - Nawabganj	47	94	Double	Grosbeak	636 MCM
35	Rangpur - Lalmonirhat	38	38	Single	Grosbeak	636 MCM
36	Bogra - Noagaon	52	104	Double	Grosbeak	636 MCM
37	Kabirpur - Tangail	51	102	Double	Grosbeak	636 MCM
38	Tongi - Mirpur - Kallipur - Hasbad	49	98	Double	Grosbeak	636 MCM
39	Tongi-New tongi	0.5	1	Double		
40	Hasnabad - Shyampur - Haripur	40	80	Double	Grosbeak	636 MCM
41	Siddhirganj - Ullon	16	32	Double	Grosbeak	636 MCM
42	Siddhirganj - Matuail - Maniknagar	10	10	Single	Grosbeak	636 MCM
43	Siddhirganj - Maniknagar	10	10	Single	Grosbeak	636 MCM
44	Maniknagar - Bangabhaban	3	6	Double	Cu.Cable	240 sq.mm
45	Maniknagar - Narinda	5	10	Double	Cu.Cable	240 sq.mm
46	Ullon - Dhanmondi	5.5	11	Double	Cu.Cable	240 sq.mm
47	Ullon - Dhanmondi	5.5	11	Double	XLPE	800 sq.mm
48	Tongi - Kabirpur - Manikganj	56	112	Double	Grosbeak	636 MCM
49	Ullon - Rampura - Tongi	23	46	Double	Grosbeak	636 MCM
50	Rampura-Mogbazar	4.5	9	Double	Grosbeak	636 MCM
51	Ghorasal - Joydebpur	26	52	Double	Grosbeak	636 MCM
52	Baghabari - Shahjadpur	7	14	Double	Grosbeak	636 MCM
53	Chandpur - Chowmuhanl	75	150	Double	Grosbeak	636 MCM
54	Barapukuria-Rangpur	45	90	Double	Grosbeak	636 MCM
55	Barapukuria-Saidpur	36	72	Double	Grosbeak	636 MCM
56	Madaripur-Gopalganj	45	45	Single	AAAC	804 MCM
57	Khulna(C)-Khulna(S)	9	18	Double	Twin AAAC	37/4.176 mm.
58	Khulna(S)-Satkhira	56	56	Single	AAAC	804 MCM
59	Rajshahi - Natore	40	40	Single	Grosbeak	636 MCM
60	Matuail In-Out from Hari-Manik	5.5	11	Double	Grosbeak	636 MCM
61	Rampura-Gulshan U/G Cable	3.3	6.6	Double	XLPE	800 sq.mm
62	Sikalbaha-Bakulia	4	8	Double	Grosbeak	636 MCM
63	Julda-Shahmirpur	7	14	Double	Grosbeak	636 MCM
64	Kamrangirchar In-Out from Has-Kal	3	6	Double	Grosbeak	636 MCM
65	Kulshi-Bakulia	15	30	Double	Grosbeak	636 MCM
66	Haripur-Maniknagar	12	12	Single	Grosbeak	636 MCM
67	Joydebpur-Kabirpur	15	30	Double	Grosbeak	636 MCM
68	Sikalbaha-Shahmirpur	9	18	Double	Grosbeak	636 MCM
69	Kulshi-Halishahar (Open at Kulshi)	13	13	Single	Grosbeak	636 MCM
70	Bogra Old-Bogra New	3	6	Double	Twin AAAC	37/4.176 mm.
71	Ashuganj-Shahjibazar Single Ckt.	53	53	Single	Grosbeak	636 MCM
72	Khulna (S) - Gallamari	4.2	8.4	Double	Grosbeak	636 MCM
73	Noagaon-Niamotpur	46	46	Single	AAAC	804 MCM
74	Aminbazar-Savar	15.8	31.6	Double	Grosbeak	636 MCM
75	Jhenaidah-Magura	26	26	Single	Grosbeak	636 MCM
76	Jhenaidah-Chuadanga	39	39	Single	Grosbeak	636 MCM
77	Naogaon-Joypurhat	46	46	Single	Grosbeak	636 MCM
78	Thakurgoan-Panchagor	45	45	Single	AAAC	636 MCM
79	Megnaghat S/S to Megnaghat Rental PP	5	10	Double	Grosbeak	636 MCM

Sl. No.	Name of Lines	Length in Route kilometers	Length in Ckt. kilometers	No. of Ckt.	Conductor	
					Name	Size
80	Shiddhirganj to Shiddhirganj Dutch Bangla PP	2.4	2.4	single	Grosbeak	636 MCM
81	In-out at Ashuganj-Shahjibazar 132 kV line to B.Barua	11.1	44.4	Four	Grosbeak	636 MCM
82	In-out at Haripur-Daudkandi 132 kV line to Meghnaghat	10.26	41.04	Four	AAAC	636 MCM
83	In-out at Meghnaghat-Comilla(N) 132 kV line to Daudkandi	19.5	78	Four	AAAC	636 MCM
84	Goalpara-Khulna (c) 132 kV U/G Cable	2.4	2.4	single		
85	Noapara PP to Noapara Ss	1.6	1.6	single		
86	Daudkandi PP to Daudkandi ss	1.2	1.2	single		
87	Gopalganj PP to Gopalganj ss	1.2	1.2	single		
88	Shiddhirganj desh energy PP to Shiddhirganj ss	2.5	2.5	single		
89	Faridpur pp to faridpur -bheramara 132 kV line.	1	1	single		
90	Bera pp to bagagari -ishridi line	4.5	4.5	single		
91	Amnura pp to Rajshahi-chapai	12.6	12.6	single		
92	In-out of Hasnabad-kallayanpur line to keraniganj pp	7.5	30	is connected another two will connect.		
93	Madanganj-Munsiganj 132 kV line	10	20			
	<b>Total</b>	<b>3504</b>	<b>6148</b>			

Source: System Planning, PGCB



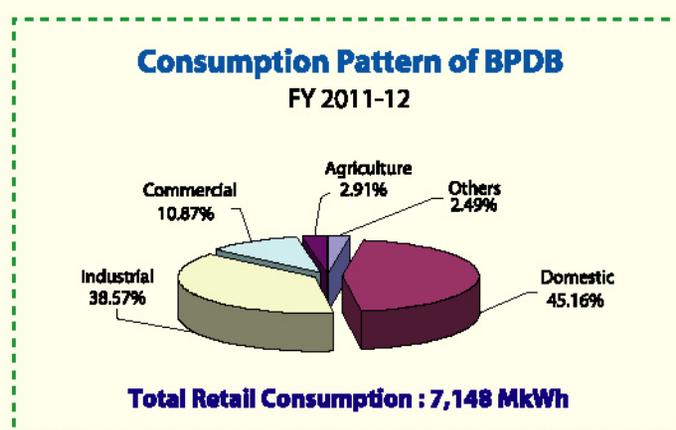
Signing of contract between BPDB and Aggreko for converting Ghorashal 145 MW Rental Power Plant from diesel run to gas run.



## DISTRIBUTION TABLES & CHARTS

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

Distribution Zone's Name	Energy Imported (MkWh)		Energy Sold (MkWh)		Distribution System loss (%)		% Change over the previous year
	2010-11	2011-12	2010-11	2011-12	2010-11	2011-12	
Mymensingh	942.57	1098.23	790.13	928.76	16.17	15.43	-4.58
Chittagong	2933.59	3160.45	2637.76	2864.98	10.08	9.35	-7.24
Comilla	841.38	941.20	738.01	844.47	12.29	10.28	-16.35
Sylhet	661.16	701.18	533.30	567.98	19.34	19.00	-1.76
Rangpur	713.87	815.80	600.72	701.15	15.85	14.05	-11.36
Rajshahi	1220.57	1386.46	1055.55	1208.26	13.52	12.85	-4.96
Others	24.73	33.14	24.20	32.63	2.15	1.53	-28.84
<b>Total</b>	<b>7337</b>	<b>8136</b>	<b>6379</b>	<b>7148</b>	<b>13.06</b>	<b>12.15</b>	<b>-6.97</b>



### Distribution Zone Wise Billing & Collection Statistics of BPDB

Distribution Zone's Name	Billed Amount (Million Tk)		Collected Amount (Million Tk)		Accounts Receivable (Million Tk)		% increase over the previous year	Coll/Bill Ratio (%)		C/I Ratio (%)	
	2010-11	2011-12	2010-11	2011-12	2010-11	2011-12		2010-11	2011-12	2010-11	2011-12
Mymensingh	2854.52	3772.98	2690.26	3470.32	979.10	1259.76	28.67	94.25	91.98	78.51	77.78
Chittagong	10161.55	13084.80	9998.11	12651.39	1720.41	2020.59	17.45	98.39	96.69	87.19	87.65
Comilla	2831.16	3726.73	2747.54	3598.78	562.56	709.16	26.06	97.05	96.57	84.36	86.64
Sylhet	2062.96	2482.85	1975.38	2330.56	576.90	705.29	22.26	95.75	93.87	76.52	76.04
Rangpur	2301.37	3047.23	2177.67	2826.30	692.55	946.45	36.66	94.62	92.75	81.26	79.72
Rajshahi	3981.56	5146.72	3816.03	4839.99	1148.10	1259.09	9.67	95.84	94.04	82.20	81.95
Others	90.08	149.37	87.61	135.07	68.52	92.62	35.17	97.26	90.43	-	-
<b>Total</b>	<b>24283</b>	<b>31410</b>	<b>23492</b>	<b>29852</b>	<b>5748</b>	<b>6992</b>	<b>21.66</b>	<b>96.74</b>	<b>95.04</b>	<b>83.33</b>	<b>83.50</b>

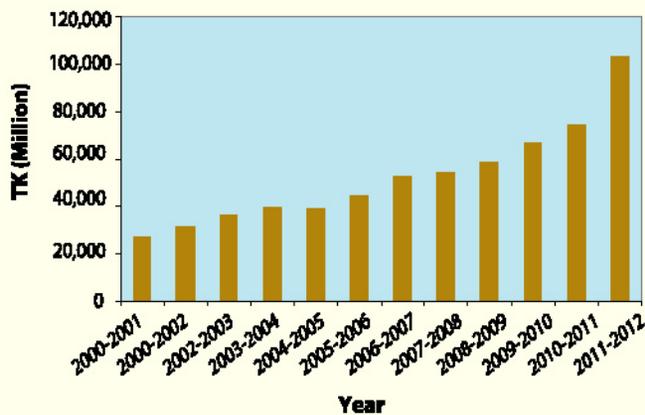
## Revenue Collection of BPDB

Year	Million Taka	% Change over previous year
1995-96	16,791	7.05
1996-97	16,015	-4.62
1997-98	17,199	7.39
1998-99	16,235	-5.61
1999-00	22,450	38.28
2000-01	27,017	20.34
2001-02	31,373	16.12
2002-03	36,066	14.96
2003-04	39,608	9.82
2004-05	39,177	-1.09
2005-06	44,284	13.03
2006-07	52,799	19.23
2007-08	54,060	2.39
2008-09	58,922	8.99
2009-10	66,776	13.33
2010-11	74,303	11.27
2011-12	102,236	37.59

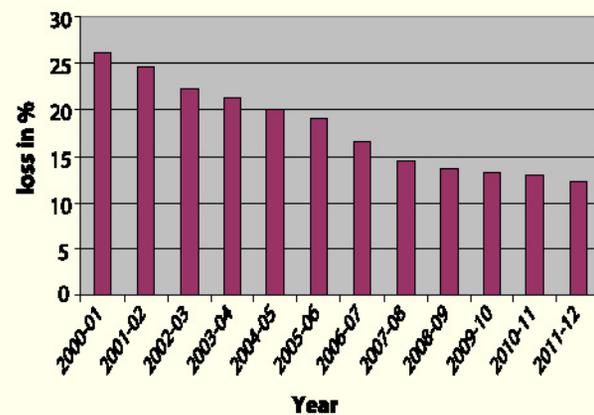
## Distribution System Loss

Year	Distribution System loss In %
1991-92	35.79
1992-93	31.24
1993-94	30.72
1994-95	29.94
1995-96	29.09
1996-97	28.28
1997-98	29.82
1998-99	30.56
1999-00	27.73
2000-01	26.11
2001-02	24.5
2002-03	22.35
2003-04	21.33
2004-05	20.00
2005-06	19.06
2006-07	16.58
2007-08	14.43
2008-09	13.57
2009-10	13.10
2010-11	13.06
2011-12	12.15

## Net Revenue Collection



## BPDB Distribution System Loss



## Category Wise Consumer Growth

In Nos.

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

**A** = Residential Light & Fan,  
**E** = Commercial,  
**I** = REB/PBS,

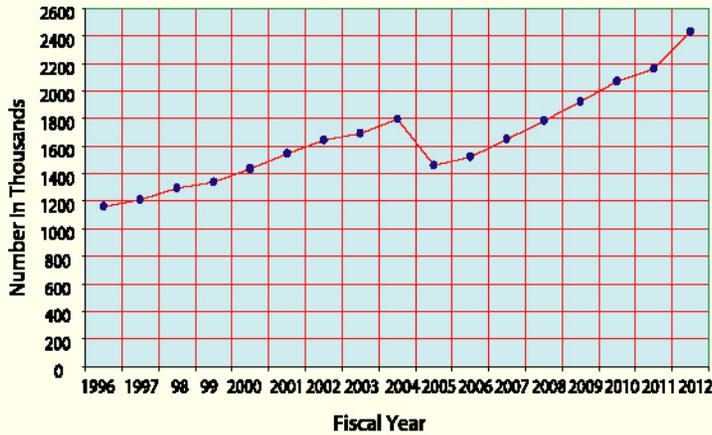
**B** = Agricultural pump,  
**F** = Medium voltage general  
**J** = Street light and water pump

**C** = Small Industry,  
**G** = DPDC/Others

**D** = Non residential light & Fan,  
**H** = High voltage general purpose,

## Electrification of Thanas Villages and Pumps

### Consumer Growth



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

\* Excluding DPDC, DESCO, WZPDCO & REB

**Total Electrified Areas & Consumer Numbers of BPDB**  
(As of June 2012)

Sl. No.	Name of Divi./ESU	Total Electrified Area					Total Consumers
		Thana/Upazila	Ward	Village	Hat/ Bazar	Deep Shallow & Low Fit Pump	
<b>Southern Zone, Chittagong</b>							
<b>O &amp; M Circle, Chatta-Metro (East)</b>							
1	S & Patharghata	2	3	0	4	0	38905
2	S & D Stadium	2	5	0	34	0	25250
3	S & D Sholoshar	3	4	0	6	0	37700
4	S & D Kalurghat	2	5	0	10	0	35800
5	S & D Bakalia	4	5	0	5	0	45623
6	S & D Matarbari	2	3	0	0	0	24510
<b>O &amp; M Circle, Chatta-Metro (West)</b>							
7	S & D Agrabad	2	4	0	5	0	34968
9	S & D Halisahar	2	5	0	4	0	49937
8	S & D Khulshi	3	5	0	6	0	26759
10	S & D Pahartali	2	5	0	2	0	41900
11	S & D Rampur	2	2	0	6	0	28470
<b>O &amp; M Circle, Chatta-Metro (North)</b>							
12	DD-Fouzderhat	1	36	36	43	0	15617
13	S & D Hathazari	3	2	21	6	18	27850
14	S & D Barabkunda	1	9	60	7	0	17318
15	S & D Mohara	2	11	18	4	32	19737
<b>O &amp; M Circle, Chatta-Metro (South)</b>							
15	Dist. Divn. Patiya	6	57	47	32	155	40024
16	Dist. Divn. Cox's Bazar	9	78	42	63	302	43240
<b>O &amp; M Circle, Rangamati</b>							
17	Dist. Divn. Rangamati	8	99	106	24	23	27070
18	Dist. Divn. Khagrachari	12	116	293	50	99	22476
19	Bandarban	3	36	128	12	10	7741
<b>Sub Total</b>		<b>71</b>	<b>490</b>	<b>751</b>	<b>323</b>	<b>639</b>	<b>610895</b>
<b>Comilla Zone</b>							
<b>O &amp; M, Comilla</b>							
1	S & D-1, Comilla	3	20	97	22	133	46399
2	S & D-2, Comilla	2	4	120	30	158	42306
3	S & D-3, Comilla	2	15	92	11	598	36666
4	S & D Chandpur	1	15	25	11	14	29548
5	Dist. Div. B. Baria	5	12	105	26	1050	71289
6	Dist. Divn. Noakhali	4	26	46	32	16	55546
7	S & D Laxmipur	2	18	10	3	222	44712
8	Dist. Div. Feni	1	12	12	1	85	16500
<b>Sub Total</b>		<b>20</b>	<b>122</b>	<b>507</b>	<b>136</b>	<b>2276</b>	<b>342966</b>
<b>Central Zone, Mymensingh</b>							
<b>O &amp; M Circle, Mymensingh</b>							
1	S & D -1(N)	7	93	185	130	2500	75862
2	S & D -2 (S)	3	125	250	107	1510	59117
3	S & D Goffargoan	1	15	70	40	550	18830
4	Dist. Div. Kishorgonj	2	30	120	30	100	31120
5	Bhalrab E/S	2	30	60	25	650	30170
6	Dist. Div. Sherpur	5	50	105	80	1820	37019
7	Netrokona E/S	1	9	20	7	370	18072
<b>O &amp; M Circle, Tangail</b>							
7	S & D, Tangail	3	27	80	110	2105	51998
8	Dist. Divn. Tangail	8	70	120	180	2876	44905
9	S & D, Shalchipur	5	9	70	54	655	35479
10	Dist. Div. Jamalpur	3	24	69	9	1439	32911
<b>Sub Total</b>		<b>40</b>	<b>482</b>	<b>1149</b>	<b>772</b>	<b>14375</b>	<b>435483</b>

Sl. No.	Name of Divl./ESU	Total Electrified Area					Total Consumers
		Thana/ Upazila	Ward	Village	Hat/ Bazar	Deep Shallow & Low Fit Pump	
<b>Sylhet Zone</b>							
<b>O &amp; M Circle, Sylhet</b>							
1	S & D-1	1	20	12	25	6	63427
2	S & D-2	1	6	40	40	0	48613
3	S & D-3	3	40	120	42	11	21671
<b>O &amp; M Circle, Moulavibazar</b>							
4	Dist. Div. Moulavibazar	5	16	172	22	36	31592
5	Dist. Div. Sylhet	11	83	320	44	58	49084
6	S & D Kulaura	4	9	80	15	0	22470
<b>Sub Total</b>		<b>25</b>	<b>174</b>	<b>744</b>	<b>188</b>	<b>111</b>	<b>236857</b>
<b>Rajshahi Zone</b>							
<b>O &amp; M Circle, Bogra</b>							
1	S & D -1	2	6	30	10	51	34506
2	S & D -2	1	16	115	35	330	52451
3	Sherpur E/S	1	9	71	12	248	14514
4	Dupchachia E/S	2	18	80	14	432	16221
5	Shibgonj E/S	2	6	14	4	186	8455
6	Santahar E/s	4	33	82	9	545	22492
7	Naogaon E/S	3	17	42	15	382	34678
8	Joypurhat E/S	2	9	0	3	190	15825
<b>O &amp; M Circle, Pabna</b>							
6	S & D-1	1	7	7	3	10	17230
7	S & D-2	1	6	10	5	32	19988
8	Ishurdi	2	15	56	12	260	21159
9	Sirajgonj	1	15	6	12	313	33964
<b>O &amp; M Circle, Rajshahi</b>							
10	S & D-1	4	11	16	17	9	32403
11	S & D-2	3	8	35	6	71	33675
12	S & D-3	7	7	22	11	121	28829
13	S & D-4	3	22	120	32	238	34642
14	Chapai nowabgonj E/S	5	84	365	34	860	66102
15	Natore E/S	2	9	79	3	26	16578
<b>Sub Total</b>		<b>46</b>	<b>298</b>	<b>1150</b>	<b>237</b>	<b>4304</b>	<b>503712</b>
<b>Rangpur Zone</b>							
<b>O &amp; M Circle, Rangpur</b>							
1	S & D -1	1	22	33	14	62	28502
2	S & D -2	1	8	0	10	75	22338
3	Dist. Div. Rangpur	9	80	152	70	3815	54690
4	Sayedpur E/S	2	28	30	13	420	20148
5	Dist. Div. Gaibandha	9	54	126	25	2010	40304
6	S & D , Lalmonirhat	3	30	50	49	1955	24026
<b>O &amp; M Circle, Dinajpur</b>							
7	S & D-1, Dinajpur	3	16	27	13	303	32244
8	S & D-2, Dinajpur	3	13	21	5	148	27913
9	Dist. Div. Thakurgaon	3	29	70	25	240	33620
<b>Sub Total</b>		<b>34</b>	<b>280</b>	<b>509</b>	<b>224</b>	<b>9028</b>	<b>283785</b>
<b>Total</b>		<b>236</b>	<b>1846</b>	<b>4810</b>	<b>1880</b>	<b>30933</b>	<b>2413698</b>

## Synopsis of Distribution lines of BPDB

(As of June 2012)

Name of the Divi. /ESU	Sub-Station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
<b>Southern Zone, Chittagong</b>				
<b>O &amp; M Circle, Chatta-Metro (East)</b>				
S & D Pathargahta	Patharghata	19	36	53
S & D Stadium	Stadium	28.5	70.0	94.6
S & D Sholoshar	Sholoshahar	60	95	230
S & D Kalurghat	Kalurghat	20	40	155
	Muradpur	10	30	122
S & D Bakulia	Bakulia	0	129.5	203
S & D Madarbari	Madarbari	20	38	50
<b>O &amp; M Circle, Chatta-Metro (West)</b>				
S & D Agrabad	Agrabad	33	95	150
S & D Hallsahar	Halishahar	40	40	60
	Newmoring	19	45	80
	Patenga	7.5	48	45
S & D Khulshi	Khulshi	8	19	24
	Jalalabad	9	46	40
S & D Pahartali	Pahartali	21	80	128
S & D Rampur	Rampur	27.5	57	55
<b>O &amp; M Circle, Chatta-Metro (North)</b>				
Dist. Divn. Fouzderhat	Fouzderhat	30	47	70
	Barouliia	47	44	67
S & D Hathazari	Hathazari	140	110	225
	Nazirhat		0	0
S & D Barabkunda	Barabkunda	14	143	210
S & D Mohara	Madughat	40	130	225
	Mohara		0	0
<b>O &amp; M Circle, Chatta-Metro (South)</b>				
Dist. Divn. Potiya	Patiya	0	30	43.5
	Fishharbor	0	58	55
	Sikalbhaha	76	28	41
	Julda	3.5	7	1
	Dohazari	41	28	98
	Satkania	0	38	79
	Zilonza	55	146.5	148
Dist. Divn. Cox's Bazar	Aziznagar	44	23.5	7
	Chakaria	21	50	43
<b>O &amp; M Circle, Rangamati</b>				
Dist. Divn. Rangamati	Vedvedi (Rangamati)	146	80	161
	Majerbosti			
	Kaptai	54	115	111
	Kaptai (132/11)			
	Chandraghona			
	Ghagra	0	30	22
	Dighinala	0	52	74
Dist. Divn. Khagrahari	Jalipara	50	90.01	138
	Ramgarh	70	22	52
	Khagrachari	35	102	264
	Dighinala	30	100.5	157
	Mohalchari	30	50	79
Dist. Divn. Bandarban	Adjac. to Office	40	100	85
<b>Sub-Total</b>		<b>1289</b>	<b>2493</b>	<b>3945</b>

Name of the Divi. /ESU	Sub-Station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
<b>Comilla Zone</b>				
<b>O &amp; M Circle, Comilla</b>				
S & D- 1, Comilla	Kotbari	51	40	58
	Kaliajuri	8	85	180
S & D- 2, Comilla	Chouddagram	33	32	10.5
	Balutupa	13	107	228
S & D- 3, Comilla	Jangalia	0	37	149
	Daulatgonj	18	38	156
S & D, Chandpur	Balur Math	2	31	84
	Puran Bazar	0	29.5	61
Dist. Divn.B. Baria	Kalabaghan	37.4	39	32
	Datiara	40	92	113
	Ghatura	5	100	68
	Shabazpur	0	46	79
<b>O &amp; M Circle, Noakhali</b>				
Dist. Divn.Noakhali	Majdee	10	78	35
	Datterhat	20	11	100
	Chamuhani	0	80.5	100
	Hatya	0	60	30
S & D, Laxmipur	Laxmipur	75	58	250
Dist. Divn.Feni	Feni	81	86	325
	Dagonbuyan	13	25	60
<b>Sub-Total</b>		<b>406</b>	<b>1075</b>	<b>2119</b>
<b>Central Zone, Mymensingh</b>				
<b>O &amp; M Circle, Mymensingh</b>				
S & D- (N)	Akua	27	75	120
	Shambugonj	12	40	70
	Fulpur	30	120	200
	Gauripur	22	80	150
S & D- (S)	Kewatkhali	0	220	140
	Batircal	6	65	80
	Trisal	35	70	80
	Bhaluka	5	140	192
S & D Goffargoan	Goffargoan	90	120	105
Netrokona E/S	Satpai Netrokona	7	70	120
Bhairab E/S	Bhairab	14	100	150
Sherpur E/S	Sherpur	40	270	395
Dist. Divn. Kishorgonj	Josodal	1	115	70
	Mollapara	7	50	10
	Sararchar	45	110	80
<b>O &amp; M Circle, Tangail</b>				
S & D Tangail	Betka	8	180	95
	Kachuadanga	12	82	82
Dist. Divn. Tangail	Bhuapur	26	83	290
	Ghatail	34	72	550
	Kalihati	20	255	470
	Shakipur	25	425	910
	Shekhervita	21	110	200
Dist. Divn. Jamalpur	New WAPDA	42	40	60
	Sharishabari	28	41	190
<b>Sub-Total</b>		<b>557</b>	<b>2933</b>	<b>4809</b>

Name of the Divi. /ESU	Sub-Station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
<b>Sylhet Zone</b>				
<b>O &amp; M Circle, Sylhet</b>				
S & D -1	Ambarkhana	7	68	208
	Kumargaon	0	151	206
S & D -2	Upshahar	22	77	222
	Botessor	47	115	318
S & D -3	Borolkandi	34	117	468
<b>O &amp; M Circle, PDB, Moulvibazar</b>				
Dist. Divn. Sylhet	Sunamgonj	25	43	59
	Derai	0	68	140
	Jaintapur	0	62	182
	Jogonathpur	0	110	170
Dist. Div. Moulvibazar	Chattak	65	70	203
	Bagbari	82	91	350
	Hobigonj	28	75	320
S & Kulaura	Kulaura	141	110	688
<b>Sub-Total</b>		<b>451</b>	<b>1157</b>	<b>3534</b>
<b>Rajshahi Zone</b>				
<b>O &amp; M Circle, Rajshahi</b>				
S & D -1	Talaimari	10	125	350
	Katakhali			
S & D -2	Horogram	24	135	28
S & D -3	Shalbagan	38	250.75	192.75
	Bimanbondor			
	Tanore			
S & D -4	City Central	23	30	105
	Godagari	22	92	72
Chapai nowabgonj E/S	Ch.No.gonj	7	70	150
	Gomostapur	40	90	95
	Shibgonj	24	30	45
Natore ESU	Horispur	10	70	151
	Alaipur			
<b>O &amp; M Circle, Pabna</b>				
S & D -1	Laskapur	15	123	177
S & D -2	Nurpur	0.2	39.2	67.5
	Shatiani	9	59.5	102.5
Ishurdi E/S	Jaynagar	48	44	67
	Patilkhali	8	54	81
Sirajgonj E/S	Bahrgola	45.5	135	210
	Raypur			
<b>O &amp; M Circle, Bogra</b>				
S & D -1	Rahmannagar	8.5	53	67
S & D -2	Shibbati	9.25	111	187
	Puran Bogra	0.25		
Sherpur E/S	Sherpur	22	102	157
Shibgonj E/S	-	0	28	26
Santahar E/S	-	0	112	120
Dupchachia E/S	Dupchachin	30	122	90
Naogaon E/S	Kathaltoli	10	138	66
	Baludanga			
Joypurhat E/S	Joypurhat	0.3	33	67.3
<b>Sub-Total</b>		<b>404</b>	<b>2084</b>	<b>2729</b>

Name of the Divi. /ESU	Sub-Station Name	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
<b>Rangpur Zone</b>				
<b>O &amp; M Circle, Rangpur</b>				
S & D -1, Rangpur	Kaunia	18	130	232
S & D -2, Rangpur	Katkipara	12	77	77
Dist. Divn. Sayedpur	Golahat	5	41	50
	Niamotpur	20	37	40
Dist. Div. Rangpur	Dornar	22	73	59
	Nilphamari	19	85	68
	Jaldhaka	16	42	20
	Kurigram	30	51	20
Dist. Div. Lalmonirhat	Hatibandha	20	14	11
	Kaligonj	60	67	49
Dist. Div. Lalmonirhat	Lalmonirhat	20	57	51
	Dist. Divn. Gaibandha	Gaibandha	22	114
<b>O &amp; M Circle, Dinajpur</b>				
S & D -1	Fakirpara-1	66	132	250
	Fakirpara-2	42	45	70
	Setabgonj	24	54	90
S & D -2	Balubari	18	133	209
	Phulbari	90	66.5	54
Dist. Divn. Thakurgaon	Goalpara	10	72	150
	PS	1	17	29
	Panchagar	46	118	88
	Mathafata	44	46	34
<b>Sub-Total</b>		<b>604</b>	<b>1472</b>	<b>1800</b>
<b>Total</b>		<b>3712</b>	<b>11213</b>	<b>18936</b>



Hon'ble Finance Minister Mr. AMA Muhith, MP apprising the media about the power situation of the country.

## 33/11 KV Sub-stations of BPDB

(As of June 2012)

Sl. No.	Name of the Division	Name of the 33/11 KV Sub-Station	Capacity (MVA)	Maximum Demand (MW)
<b>Southern Zone, Chittagong</b>				
<b>O &amp; M Circle, Chatta-Metro (East)</b>				
1	S & D Patharghata	Patharghata	2x16/20	31.5
2	S & D Stadium	Stadium	2x16/20	29
3	S & D Sholoshar	Sholoshar	1x16/20	44
			2x16	
4	S & D Kalurghat	Kalurghat	2x16/20	28
		Muradpur	1x16	
5	S & D Bakalia	Bakalia	2x16/20	26
6	S & D Madarbari	Madarbari	2x16/20	25
<b>O &amp; M Circle, Chatta-Metro (West)</b>				
7	S & D Agrabad	Agrabad	2x16/20	32
8	S & D Rampur	Rampur	2x16/20	23
9	S & D Khulshi	Khulshi	2x16/20	18
		Jalalabad	2x16/20	28
10	S & D Pahartali	Pahartali	2x16/20	27
11	S & D Halisahar	Halisahar	2x16/20	22
		Newmooring	2x16/20	24
		Patenga	2x16/20	9
<b>O &amp; M Circle, Chatta-Metro (North)</b>				
12	Dis. Div. Fouzderhat	Fouzderhat	2x16/20	18
		Baroullia	2x16/20	24
13	S & D, Hathazari	Hathazari	1x16/20	11.5
			1x10/12.33	5.5
14	S & D Mohara	Mohara	2x16/20	16
15	S & D Barabkunda	Barabkunda	2x16/20	22
<b>O &amp; M Circle, Chatta-Metro (South)</b>				
16	Dist. Divn. Patiya	Patiya	2x10	8
		Fishharbor	2x10	18
		Shikalbaha	1x16/20	8
		Dohazari	1x16/20	4.5
		Satkania	1x5/6.67	4.5
		Julda	2x16/20	1
17	Dist. Divn. Cox's Bazar	Zilonza	2x16/20	30
		Aziznagar	1x5	2.5
		Chakaria	1x10	6.5
<b>O &amp; M Circle, Rangamati</b>				
18	Dist. Divn. Rangamati	Vedvedi (Rangamati)	2x5	3.25
		Majerbosti	1x10	4.2
		Kaptai	2x3	0.75
		Ghagra	1x5	2
		Kaptai (132/11)	1x20	5
19	Dist. Divn. Khagrachari	Jalipara	3x1.667	2.5
		Ramghar	3x1.667	2.5
		Khagrachari	3x1.667	5.75
		Dighinala	3x1.667	3.15
		Mohalchari	3x1.667	1.1
20	Dist. Divn. Bandarban	Adjacent to Office	1x5	3.5
		Kasing Ghata	3x1.667	2.5
<b>Sub-Total</b>			<b>908/1088</b>	<b>612.7</b>

Sl. No.	Name of the Division	Name of the 33/11KV Sub-Station	Capacity (MVA)	Maximum Demand (MW)
<b>Comilla Zone</b>				
<b>O &amp; M Circle, Comilla</b>				
21	S & D-1, Comilla	Kotbari	2x10/13.33	16
		Kaliajori	2x10/13.33	18
22	S & D-2, Comilla	Balutupa	2x10/13.33	16
		Chouddagram	1x3 1x5	5
23	S & D-3, Comilla	Jangalia	2x10/13.33 1x16/20	20
		Daulatgonj	1x10 1x5	7.5
24	S & D, Chandpur	Balur Math	2x10/13.33	11
		Puran Bazar	1x10/13.33	8
25	Dist. Divn. B. Baria	Ashugonj Network	2x25/41	70
		132/33 KV (Network)	1x25/41.7	
		Kalabagan	1x10/13.33 1x10	12
		Datiara	1x10/13.33 1x15/20	25
		Ghatura	1x10/13.33 1x5 1x10	16
		ZFCL	1x10/13.33 1x5	7.5
		Shabazpur	2x5	6
		<b>O &amp; M Circle, Noakhali</b>		
26	Dist. Divn. Noakhali	Majdee	2x10/13.33	15
		Datterhat	2x10/13.33	11
		Chamuhani	2x10/13.33	12
27	S & D, Laxmipur	Laxmipur	2x10/13.33	6.5
28	Dist. Divn. Feni	Feni	3x10/13.33	26
29	Bosurhat E/S	Dagonbuyan	1x10/13.33	8.25
<b>Sub-Total</b>			<b>439/587</b>	<b>317</b>
<b>Central Zone, Mymensingh</b>				
<b>O &amp; M Circle, Mymensingh</b>				
30	S & D (N)	Akua	2x10/13.33	18.3
		Shambuganj	2x5	6
		Fulpur	2x5 + 1x2.5	11
		Gauripur	2x5	7
31	S & D (S)	Kewatkhali	3x10/13.33	23
		Batirca	2x10/13.33	12
		Trisal	1x5	4
32	S & D Goffargoan	Bhaluka	1x5	5.3
33	S & D Goffargoan	Goffargoan	2x5	9
34	Netrokona E/S	Satpai Netrokona	2x10/13.3	11
35	Bhairab E/S	Bhairab	2x10/13.33	25.5
36	Sherpur E/S	Sherpur	2x10/13.33	22
36	Dist. Divn. Kishoregonj	Josodal	1x10/13.33	9
		Mollapara	2x10/13.33	5.5
		Sararchar	1x5	5.3
<b>O &amp; M Circle, Tangail</b>				
37	S & D Tangail	Batka	2x10/11.33	18
		Kachuadanga	2x10/11.34	12
38	Dist. Divn. Tangail	Bhuapur	2x5	9
		Ghatail	2x10	16
		Kailhati	2x5	14
		Shakipur	3x5	14
39	Dist. Divn. Jamalpur	Shekhervita	2x10/13.33	11
		New WAPDA	1x10/11.33	4
		Sharishbari	2x5	4.5
<b>Sub-Total</b>			<b>353/414</b>	<b>276</b>

Sl. No.	Name of the Division	Name of the 33/11KV Sub-Station	Capacity (MVA)	Maximum Demand (MW)
<b>Sylhet Zone</b>				
<b>O &amp; M Circle, PDB, Sylhet</b>				
40	S & D 1	Ambarkhana	3x10/13.33	23
		Kumargaon	2x10/13.33	20
41	S & D 2	Upashahar	2x10/13.33 1x5	22
		Botessor	1x10/13.33 1x5	10.5
42	S & D 3	Boroikandi	2x10/13.33	17
<b>O &amp; M Circle, PDB, Moulvibazar</b>				
43	Dist. Divn. Sylhet	Sunamgonj	2x5	10
		Chattak	1x10/13.33	9.5
		Boroikandi	2x10/13.33	4
		Boteschor	1x10 1x5	3
44	Dist. Divn. Moulvibazar	Bajbari	2x10/13.33	9
		Hobigonj	2x5 1x2.5	12
45	S & D, Kulaura	Kulaura	2x5	10
<b>Sub-Total</b>			<b>207 / 257</b>	<b>150</b>
<b>Rajshahi Zone</b>				
<b>O &amp; M Circle, PDB, Rajshahi</b>				
46	S & D-1	Talaimari	3x10/13.33	24
		Katakhali	2x10/13.33	
47	S & D-2	Horogram	2x20/26.67	15.5
48	S & D-3	Shalbagan	2x10/13.33	20
		Bimanbondor	2x10/13.33	
49	S & D-4	City Central	2x20/26.67	15
		Godagari	1.667x3+1x5	7
50	Chapai Nowabgonj	Hujrapur	2x10/13.33	20.5
		Bot Talar Hat	2x10/13.33	
		Rohanpur	2x5	10
		Shibgonj	1x5	4.5
51	Natore E/S	Horispur	2x10/13.33	4.7
		Alaipur	2x10/13.33	5
<b>O &amp; M Circle, PDB, Pabna</b>				
52	S & D-1	Lashkarpur	2x10/13.33	14
53	S & D-2	Noorpur	1x10/13.33	8
		Satlani	2x10/13.33	11
54	Ishurdi E/S	Joynagor	2x10/13.33	12
		Patillakhali	2x10/13.33	8
55	Sirajgonj E/S	Bahirgola	2x10/13.33	19.5
		Raypur	2x10/13.33	
<b>O &amp; M Circle, PDB, Bogra</b>				
56	S & D-1	Rahman Nagar	2x10/13.33	18
57	S & D-2	Shibbati	2x10/13.33	16
		Puran Bogra	3x10/13.33	22
58	Dist. Div. Bogra	Sherpur	3x5/10	9.5
		Dupchachia	5x3	8
59	Naogaon E/S	Kathaltoli	3x10/13.33	27
		Baludanga	2x10/13.33	0
60	Joypurhat E/S	Joypurhat	1x10	7.5
<b>Sub-Total</b>			<b>565/747</b>	<b>307</b>

Sl. No.	Name of the Division	Name of the 33/11KV Sub-Station	Capacity (MVA)	Maximum Demand (MW)
<b>Rangpur Zone</b>				
<b>O &amp; M Circle, Rangpur</b>				
61	S & D-1	Lalbag	2x10/13.33	22
62	S & D-2	Katkipara	1x10/13.33 1x16/20	21
63	Dist. Divn. Sayedpur	Golahat	1x10/13.33	11
		Niamotpur	2x10/13.33	15
		Gaibandha	2x10/13.33	17
64	Dist. Divn. Gaibandha	Gobindogonj	1x5 1x2.5	6
		Palashbari	1x2.5	4.5
65	Dist. Div. Rangpur	Domar	1x5 3x1.667	10
		Nilphamari	2x5	11
		Jaldhaka	1x5	5
		Kurigram	2x5	6
		Hatibandha	1x5	2
		Patgram	1x5	4.2
66	Dist. Div. Lalmonirhat	Kaligonj	2x5 1x1.5	9
		Lalmonirhat	2x5	10
<b>O &amp; M Circle, Dinajpur</b>				
67	S & D-1	Fakirpara	2x10/13.33	17
		Parbatipur	1x6.67	5
68	S & D-2	Phulbari	2x5	10
69	Dist. Div. Thakurgaon	Goalpara	2x10/13.33	12
		PS	2x6.25	4
		Panchagar	2x10/13.33	13
		Mathafata	1x5	5
<b>Sub-Total</b>			<b>267/317</b>	<b>220</b>
<b>Total</b>			<b>2739/3410</b>	<b>1882</b>



Certificate giving ceremony of newly recruited Sub-Assistant Engineers after the completion of Foundation Training.

## DISTRIBUTION SUMMARY

Sl. No.		South zone (Chittagong)	South zone (Comilla)	North Zone (Rajshahi)	North Zone (Rongpur)	Central Zone (Mymensingh)	Central Zone (Sylhet)	Total
1	33/11 kV Sub-Station Capacity (MVA)	908/1088	439/587	565/746	267/317	352/414	208/257	2739/3410
2	Dist. Substation Capacity (MVA)	848	354	556	343	552	315	2968
3	Distribution Lines (k.m)	7787	3772	5219	3770	8299	5014	33861
4	Total no. of Consumers	6,10,895	3,42,966	5,03,712	2,83,785	4,35,483	2,36,857	24,13,698
5	Distribution System Loss (%)	9.35	10.28	12.85	14.05	15.43	19.00	12.15



Hon'ble Agriculture Minister Begum Matia Chowdhury, MP addressing the inaugural session (left) and Hon'ble Finance Minister Mr. Abul Maal Abdul Muhith, MP addressing the closing session (right) of 4<sup>th</sup> Sector Leaders' Workshop.

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

Details	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
<b>1. Nos. of poles manufactured</b>														
i) 33 kV poles a) 15 x 220	981	1,596	842	1,146	1,040	438	1,160	1,071	738	860	1,152	515	959	1,000
b) 15 x 190	163	298	716	676	723	564	1,256	1,901	600	582	499	1,322	1,929	1,115
ii) 11 kV poles 12 x 190	3,334	4,397	5,471	5,913	9,697	10,185	7,055	6,680	7,884	7,678	3,075	9,698	7,379	10,000
iii) 0.4 kV poles 9 x 140	3,548	3,723	6,793	6,639	12,654	9,430	7,825	9,474	7,808	7,285	2,153	4,603	4,743	1,889
<b>2. Cost per no. of pole (Tk)</b>														
i) 33 kV poles a) 15 x 220	20,000	20,000	16,821	16,821	16,821	20,185	23,180	23,180	23,180	31,650	35,740	35,740	35,740	35,740
b) 15 x 190	17,000	17,000	15,150	15,150	15,150	18,180	20,908	20,908	20,908	27,833	32,353	32,353	32,353	32,353
ii) 11 kV poles 12 x 190	14,400	14,400	11,005	11,005	11,005	13,206	15,119	15,119	15,119	18,891	20,383	20,383	20,383	20,383
iii) 0.4 kV poles 9 x 140	7,000	7,000	5,885	5,885	5,885	7,062	7,902	7,902	7,902	8,310	8,629	8,629	8,629	8,629
<b>3. Production Capacity (Nos.)</b>														
i) 33 kV poles a) 15 x 220	1,000	600	800	1,500	1,000	460	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000
b) 15 x 190	500	500	700	800	600	600	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,500
ii) 11 kV poles 12 x 190	4,000	5,000	4,000	8,400	8,400	10,725	7,500	7,500	7,500	7,500	7,500	7,500	7,500	10,000
iii) 0.4 kV poles 9 x 140	4,000	4,000	4,500	9,300	10,000	9,900	8,500	8,500	8,500	8,500	8,500	8,500	8,500	7,500
<b>4. Use of production capacity (%)</b>	84.48	99.15	71.87	138.22	120.57	95.07	86.84	95.63	85.45	82.03	34.39	80.69	75.05	70.02

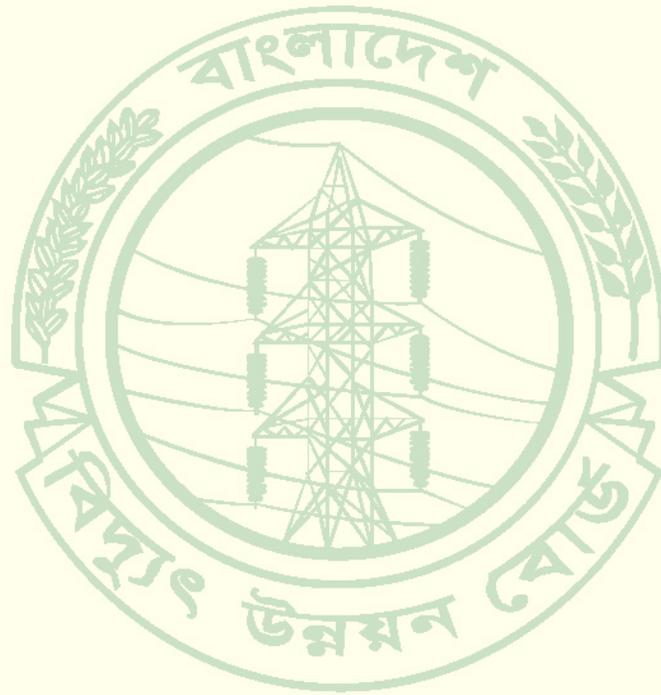
3. Specification of poles	Top Dia (mm)	Bottom Dia (mm)	Length (mm)	Wall Thickness (mm)	Ax. Weight (Kg)	Design Load (Kg)	Pole Designation
i) 33 kV poles a) 15 x 220	220	420	15,000	55	2180	650	15 x 220 x 650
b) 15 x 190	190	390	15,000	50	1840	550	15 x 190 x 550
ii) 11 kV poles 12 x 190	190	350	1,200	50	1220	450	12 x 190 x 450
iii) 0.4 kV poles 9 x 140	140	260	9,000	40	500	250	9 x 140 x 250

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

Details	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
<b>1. Nos. of poles manufactured</b>														
i) 33 kV poles 22.5x230	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15x230	—	17	39	—	—	—	—	—	—	—	—	—	—	—
ii) 11 kV poles 12x230	240	720	1,450	3,449	4,007	3,508	2,722	1,338	2,238	1,583	929	1,429	1,630	1,381
11x230	3,416	3,674	5,090	6,884	5,162	5,170	6,673	3,790	3,852	729	836	1,198	1,037	1,361
iii) 0.4 kV poles 9 M	3,371	4,640	6,501	12,046	14,859	12,342	10,610	8,009	9,912	4,691	3,286	3,219	4,261	6,268
<b>2. Cost per no. of pole (Tk)</b>														
i) 33 kV poles 22.5 M	—	—	39,014	39,014	39,014	39,014	45,589	—	—	—	—	—	—	—
15 M	16,516	20,550	21,246	21,246	21,246	21,246	24,816	24,816	28,119	41,669	36,713	—	—	—
ii) 11 kV poles 12 M	10,868	13,802	14,197	14,197	14,197	14,197	15,783	15,783	17,328	24,486	21,574	21,574	21,574	21,574
11 M	9,634	12,385	12,652	12,652	12,652	12,652	13,910	13,910	15,313	21,066	18,560	18,560	18,560	18,560
iii) 0.4 kV poles 9 M	4,669	6,072	6,262	6,262	6,262	6,262	6,694	6,694	7,074	9,558	8,421	8,421	8,421	8,421
<b>3. Production Capacity (Nos)</b>														
i) 33 kV poles 22.5 M	—	—	25	25	25	25	25	—	—	—	—	—	—	—
15 M	100	300	300	340	200	200	200	—	—	—	—	—	—	—
ii) 11 kV poles 12 M	1,500	900	900	2,000	3,000	3,000	3,000	4,000	4,000	4,000	4,000	3,000	3,000	3,000
11 M	4,000	4,000	4,000	8,000	5,000	5,000	5,775	5,000	5,000	5,000	5,000	2,000	2,000	2,000
iii) 0.4 kV poles 9 M	4,400	4,800	4,800	9,660	11,000	11,000	11,000	11,000	11,000	11,000	11,000	5,000	5,000	5,000
<b>4. Use of production capacity (%)</b>	70.27	90.51	130.80	111.90	120.14	105.10	100.03	65.68	80.01	35.01	25.26	58.46	69.28	90.10

5. Specification of poles	Top Dia (mm)	Bottom dia (mm)	Wall Thickness (mm)	Pole Weight (Kg)	Design Load (Kg)	Pole Designation
i) 33 kv poles 22.5 M	230	530	55	3092.86	587	—
15 M	230	430	55	1,719.78	500	15 x 230 x 500
ii) 11 kv poles 12 M	230	390	55	1,249.44	400	12 x 230 x 400
11 M	230	375	55	1,110.46	350	11 x 230 x 350
iii) 0.4 kv poles 9 M	150	270	50	522.50	200	9 x 150 x 200

## Chapter-5



## Accounts, Finance and Audit

## ACCOUNTS, FINANCE AND AUDIT

Electricity (Power) plays a vital role in the economy of a developing country in many aspects. Day to day the demand of the electricity is growing up. To meet the growing demand of the electricity, BPDB has given high priority in the electricity generation. Beside own generation, BPDB also purchase electricity from the Private Companies generally termed as IPP (Independent Power Producer), Rental power plant and Public power plant to meet the growing demand. In the FY 2011-2012, Generation cost of

BPDB's own plant is Tk. 3,754.29 crore, Power purchase cost from IPP is Tk. 3,470.50 crore, from rental plant is Tk. 8,833.83 crore and from public plant is Tk. 983.56 crore totaling Tk. 17,042.18 crore compared to Tk.11,652.49 (BPDB's own generation Tk. 3,282.39 + purchase from IPP Tk.3,213.50+Rental plant Tk.4,364.29 and Public plant Tk. 792.31) crore of FY 2010-2011. Energy sale during FY 2011-2012 is Tk.11,185.20 crore compare to Tk.7,730.39 crore of the preceding year.

**Table-A**

Figures in Million kWh

Particulars	2011-12		2010-11		(Increase/Decrease)
	Amount in crore Tk.	Cost (Tk/kWh)	Amount in crore Tk.	Cost (Tk/kWh)	
<b>Total</b>	<b>17,837.92</b>	<b>5.36</b>	<b>11,652.49</b>	<b>3.95</b>	<b>36%</b>
i. BPDB's Generation	3,754.29	3.67	3,282.39	3.19	15%
ii. Purchase from IPP	3,470.50	3.66	3,213.50	3.42	7%
iii. Purchase from Rental	8,833.83	10.18	4,364.29	8.05	26%
iv. Purchase from Public Plant	983.56	2.02	792.31	1.80	12%
v. Interest on budgetary support	283.39	0.09	116.14	0.04	125%
vi. Provision for Maintenance and Development fund	512.35	0.15	146.68	0.05	200%
Energy Sales	11,185.20		7,730.39		45%

It shows that BPDB's own generation and Energy purchase from IPP, Rental plant, public plant has increased by 15%, 7% 26%, and 12% respectively, with compare to the FY 2010-2011. Chart -1 shows the comparative generation picture.

### Cost of Electricity Generation and Purchase

Amount in crore Taka

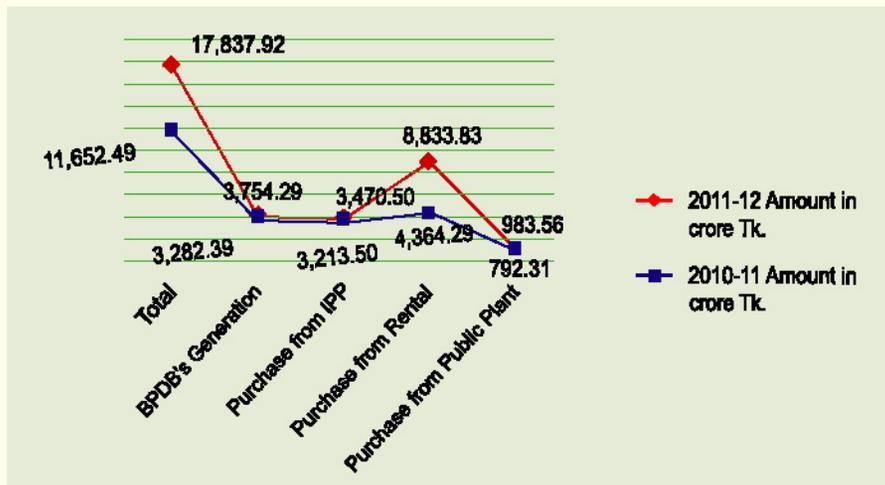


Chart-1

During the financial year 2011-2012 sales to DPDC, DESCO, WZPDCL & REB amounted to taka 2422.34 Crores, 1224.94 Crores, 654.24 Crores, and 3739.80 Crores respectively against which amount collected was 2200.59 Crores, 1121.85 Crores, 600.52 Crores and 3454.68 Crores which is only 90.85%, 91.58 %, 91.79 % & 92.38 % of billed amount respectively. A comparison of the energy sale and operating expenses for FY 2011-2012 and 2010-2011 is shown below:

**Table-B**

Figures in Crore Taka

Sl. No.	Head of Accounts	Actual 2011-2012	Actual 2010-2011	Amount Increase/ (Decrease )	Percentage of Increase/ (Decrease) (%)
<b>1</b>	<b>Operating Revenue</b>	<b>12000.67</b>	<b>8160.75</b>	<b>3839.92</b>	<b>47.05%</b>
	Sale of Electricity	11185.20	7730.39	3454.81	44.69%
	Other Operating Revenue	815.47	430.36	385.11	89.49%
<b>2</b>	<b>Operating Expenses</b>	<b>18133.62</b>	<b>12276.05</b>	<b>5345.21</b>	<b>43.54%</b>
i	Fuel Cost	2502.79	1906.33	596.46	31.29%
ii	Cost of electricity purchase from IPP	3470.48	3213.50	256.98	8.00%
iii	Electricity purchase from RENTAL	8833.83	4364.29	4469.54	102.41%
iv	Electricity purchase from Public Plant	959.77	792.31	167.46	21.14%
v	Generation Expenses (Excluding fuel cost & IPP)	972.56	1044.27	(71.71)	-6.87%
vi	Provision for Maintenance and Development fund	512.35	146.68	365.67	249.30%
vii	Wheeling Charge to PGCB	156.59	139.44	17.15	12.30%
viii	Distribution & Coml. Expenses	554.66	517.21	37.45	7.24%
ix	General & Administrative Expenses	170.59	152.02	18.57	12.22%
<b>3</b>	<b>Operating (Loss) /Profit = (1-2)</b>	<b>(6132.95)</b>	<b>(4115.30)</b>	<b>(2017.65)</b>	<b>49.03%</b>

Table-B shows that sale of electricity and the cost of fuel for generation has increased by 47.05% and 31.29% respectively over FY 2010-11. The total operating expenses has increased by 43.55%.

Thus during the financial year 2011-2012, the share of fuel cost & Energy purchase from IPP over total operating cost stood at 13.80% & 19.14% compared to at 15.52% & 26.18% respectively of the preceding year. Transmission cost percentage to total Operating expenses is 0.86% for the year 2011-12, which was 1.52% in the year 2010-11. Distribution Expenses to operating expenses is 3.05% for the year 2011-12, which was 3.87% in the year 2010-11.

Table-B also shows the share of each component to total operating expenses. Operating Loss for the year 2011-12 is 51.11% to total operating revenue, which was 50.42% in the preceding year.



Workshop on Performance Audit of different Projects of Power Sector Entities

**Statement of Actual Income and Expenses compared to the Revised Budget of FY 2011-2012 is given below**

Figure In Crore

Particulars	Budget FY 2011-2012	Actual FY 2011-2012	Performance Over Budget
<b>OPERATING REVENUE</b>			
Electricity Sales	11,292.41	11,185.20	99.05%
Other Operating Income	451.88	815.47	180.46%
<b>Total Operating Revenue</b>	<b>11,744.29</b>	<b>12,000.67</b>	<b>102.18%</b>
<b>OPERATING EXPENSES</b>			
Fuel Cost	774.90	743.16	95.90%
Diesel/Furnace oil Used for Electricity Generation	2,489.82	1,405.01	56.43%
Coal Used for Electricity Generation	339.68	354.62	104.40%
Depreciation	887.24	790.36	89.08%
Repair & Maintenance	446.75	239.57	53.63%
Electricity Purchase From IPP	2,972.60	3,470.48	116.75%
Electricity Purchase From Rental	9,190.40	8,833.83	96.12%
Electricity Purchase From public Plant	966.20	959.77	99.33%
Maintenance & Development Expenses	550.00	512.35	93.15%
Wheeling Charges to PGCB	192.59	156.59	81.31%
Other Operating Expenses	313.61	292.02	93.12%
Sales & Distribution Expenses- Including Pension	307.89	245.28	79.66%
Administration Expenses	167.65	130.58	77.89%
<b>Total Operating Expenses</b>	<b>19,599.33</b>	<b>18,133.62</b>	<b>92.52%</b>
<b>Operating Income / (Loss)</b>	<b>(7,855.04)</b>	<b>(6,132.95)</b>	<b>78.08%</b>
<b>NON- OPERATING EXPENSES</b>			
Assets Insurance Fund	1.50	1.50	100.00%
Interest on Loans (Including interest on budgetary support)	395.38	446.38	112.90%
Loss from Exchange Rate Fluctuation	203.00	112.51	55.42%
<b>Total Non Operating Expenses</b>	<b>599.88</b>	<b>560.39</b>	<b>93.42%</b>
<b>Net Income / ( Loss)</b>	<b>(8,454.92)</b>	<b>(6,693.34)</b>	<b>79.17%</b>

Net loss Tk. 6,693.34 is covered by budgetary support from Govt. and other non-cash expenses like Depreciation.

From the above statement it is clear that, the actual net loss for the FY 2011-2012 is taka 6693.34 Crore against the revised budgeted net Loss of taka 8454.92 Crore. This indicates that net loss than budget provision by taka 1761.58 Crore. In analysis of the revised budget and actual expenditure it is observed that all operating expenses are less than that of revised budget with an exceptions of Coal used for Electricity Generation, Electricity purchase from IPP and Interest on loan. It indicates that the govt. orders/decisions for controlling the cost have been reflected in BPDB's operation.

Utility Plant in Service acquired through project completion amounting to taka 729.90 Crore has transferred to assets in operation during the FY 2010-2012. Depreciation has been charged @ 3.20% on the opening balance of utility plant in service except transportation equipment on which depreciation has been charged @ 9.00% on straight-line method & half of the normal rate on addition during the year. Repayment due during the FY 2011-2012 against foreign and Govt. Loans are taka 314.05 Crore and 309.89 Crore respectively. Payment of DSL to Govt. during the year under review amounting to Taka 242.74 Crore.

Chart-2 shows the trend analysis of revenue from sale of electricity with operating expense. It indicates that controlling of expenditure makes BPDB's financial position a few better over last two years.

### Revenue to Operating Expenses

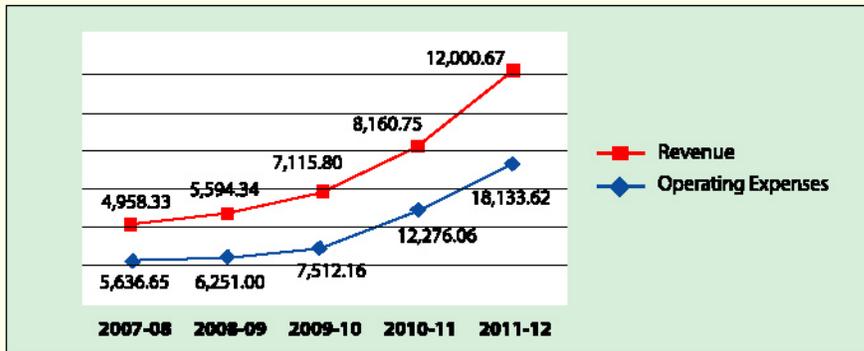


Chart-2

### Category Wise Expenses

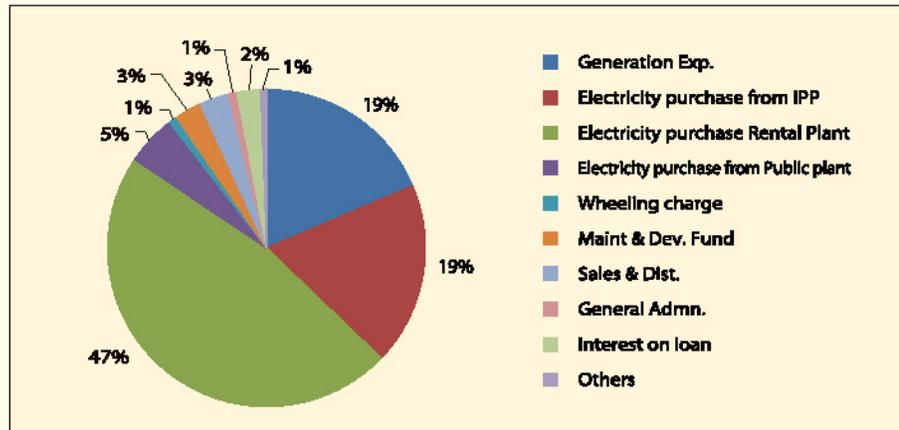


Chart-3

### Sales and Collection Trend

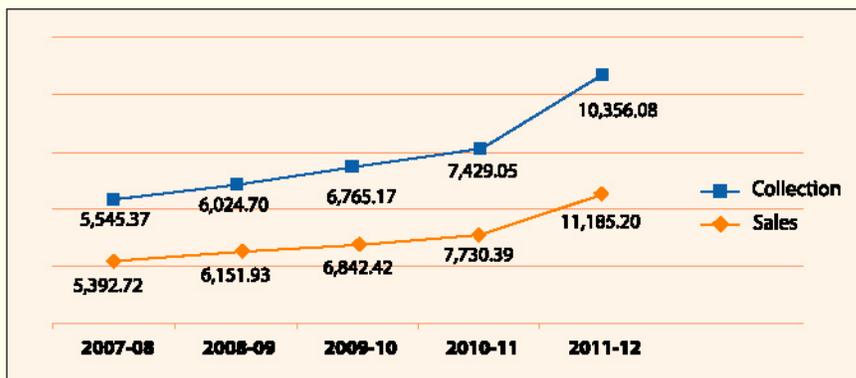


Chart-4

**BALANCE SHEET**  
As at June 30, 2012

Figures In Taka

PROPERTY & ASSETS	NOTE	FY 2011-12	FY 2010-11
<b>FIXED ASSETS</b>			
UTILITY PLANT IN SERVICE	3	321,578,221,047	317,566,439,786
LESS : ACCUMULATED DEPRECIATION	4	162,324,617,365	154,420,981,653
<b>WRITTEN DOWN VALUE</b>	5	<b>159,253,603,682</b>	<b>163,145,458,133</b>
PROJECT - IN - PROGRESS	6	83,782,818,034	56,412,336,132
INVESTMENT IN SHARES	7	14,933,940,736	12,587,547,528
<b>TOTAL FIXED ASSETS</b>		<b>257,790,362,452</b>	<b>232,145,341,793</b>
<b>CURRENT ASSETS</b>			
INVESTMENT	7	15,880,311,674	13,965,141,034
CASH IN HAND & AT BANK	8	18,428,747,731	18,532,524,084
ACCOUNTS RECEIVABLE - TRADE	9	59,319,303,569	51,028,096,543
ACCOUNTS RECEIVABLE - OTHERS	10	18,550,901,896	2,638,605,791
RECEIVABLE - REB	11	-	1,632,443,764
PROVISION FOR BAD & DOUBTFUL DEBTS	12	(697,456,761)	(608,880,974)
ADVANCE TO CONTRACTORS & SUPPLIERS	13	13,538,665,314	23,960,545,858
ADVANCE TO EMPLOYEES	14	1,306,240,595	1,285,283,508
STOCK & STORES	15	10,505,146,105	8,091,014,367
DEPOSITS & PREPAID EXPENSES	16	2,665,305,550	2,414,815,235
INCOME TAX DEDUCTION AT SOURCE	16.01	565,385,818	84,093,115
<b>TOTAL CURRENT ASSETS</b>		<b>140,062,551,491</b>	<b>123,023,682,325</b>
<b>TOTAL PROPERTY &amp; ASSETS</b>		<b>398,032,913,944</b>	<b>355,169,024,118</b>

**A B SAHA & CO**  
Chartered Accountants

**MARHK & CO**  
Chartered Accountants

## BALANCE SHEET

As at 30 June, 2012

Figures In Taka

CAPITAL & LIABILITIES	NOTE	FY 2011-12	FY 2010-11
<b>AUTHORIZED CAPITAL</b>		<b>150,000,000,000</b>	<b>120,000,000,000</b>
<b>CAPITAL &amp; RESERVE</b>			
PAID UP CAPITAL	17	135,906,087,224	118,131,235,498
NET SURPLUS / (DEFICIT)	18	(222,008,216,147)	(157,117,812,807)
APPRAISAL SURPLUS	19	117,057,871,482	117,057,871,482
GRANTS	20	4,909,754,860	4,895,418,860
DEPOSIT WORK FUND	21	1,992,737,925	1,753,497,875
LIQUIDITY DAMAGE RESERVE	22	72,053,500	72,053,500
MAINTANANCE & DEVELOPMENT FUND	23	6,590,330,000	1,466,800,000
		<b>44,520,618,844</b>	<b>86,259,064,407</b>
<b>LONG TERM LIABILITIES</b>			
GOVERNMENT LOAN	24	56,282,697,230	47,299,503,524
BUDGETARY SUPPORT AS SUBSIDY FROM GOVT. (DIFFERENCE OF BUYING & SELLING RATE)	25	132,571,900,000	69,004,900,000
FOREIGN LOAN	26	17,462,007,161	17,500,193,124
		<b>206,316,604,391</b>	<b>133,804,596,648</b>
<b>DEPOSIT AND PROVISION FUND</b>			
SECURITY DEPOSIT (CONSUMERS)	27	3,381,629,242	3,097,584,547
GPF & CPF	28	3,390,909,437	3,007,318,548
GRATUITY & PENSION FUND	29	8,619,919,358	8,500,864,812
		<b>15,392,458,036</b>	<b>14,605,767,907</b>
<b>CURRENT LIABILITIES</b>			
ACCOUNTS PAYABLE	30	16,726,390,473	13,778,210,178
SECURITY DEPOSIT (CONTRACTORS & SUPPLIERS)	31	664,459,055	652,930,066
ASSETS INSURANCE FUND	32	285,000,000	270,000,000
CURRENT PORTION OF LONG TERM LIABILITIES	33	4,398,349,885	4,400,692,067
DEBT SERVICING LIABILITIES ( PRINCIPAL)	34	43,208,533,256	40,865,800,358
DEBT SERVICING LIABILITIES ( PRINCIPAL)-PGCB	34.01	7,435,088,585	6,137,273,287
DEBT SERVICING LIABILITIES ( PRINCIPAL)-APSCL	34.02	4,908,495,703	4,194,014,893
DEBT SERVICING LIABILITIES ( PRINCIPAL)-WZPDCL	34.03	1,693,468,346	1,493,163,556
REIMBURSABLE PROJECT AID	35	861,757,527	761,757,527
DEBT SERVICING LIABILITIES (INTEREST)	36	46,306,791,965	45,345,867,411
INTEREST ON BUDGETARY SUPPORT FROM GOVT.	37	5,070,209,557	2,236,284,147
OTHER LIABILITIES	38	234,247,173	263,948,348
		<b>131,792,791,525</b>	<b>120,399,941,838</b>
CLEARING ACCOUNTS	39	10,441,147	99,653,317
<b>TOTAL CAPITAL &amp; LIABILITIES</b>		<b>398,032,913,944</b>	<b>355,169,024,118</b>

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**CONSOLIDATED INCOME STATEMENT  
FOR THE YEAR ENDED JUNE 30, 2012**

Figures In Taka

PARTICULARS	NOTE	FY 2011-12	FY 2010-11
<b>OPERATING REVENUE</b>			
ENERGY SALES	40	111,851,997,502	77,303,914,375
OTHER OPERATING INCOME	41	8,154,694,683	4,303,604,446
		<b>120,006,692,185</b>	<b>81,607,518,821</b>
<b>OPERATING EXPENSES</b>			
GENERATION EXPENSES	42	34,753,469,336	29,505,956,634
ELECTRICITY PURCHASE FROM IPP	43	34,704,809,005	32,135,020,160
ELECTRICITY PURCHASE FROM RENTAL	44	88,338,293,915	43,642,891,338
ELECTRICITY PURCHASE FROM PUBLIC PLANT	45	9,597,697,740	7,923,141,009
TRANSMISSION EXPENSES FOR WHEELING CHARGE	46	1,565,862,271	1,394,429,016
DISTRIBUTION EXPENSES	47	5,546,605,141	4,752,310,855
CUSTOMER ACCOUNTS EXPENSES	48		419,807,807
GENERAL & ADMINISTRATIVE EXPENSES	49	1,705,902,915	1,520,236,273
		<b>176,212,640,322</b>	<b>121,293,793,092</b>
<b>OPERATING INCOME / (LOSS)</b>			
		<b>(56,205,948,137)</b>	<b>(39,686,274,271)</b>
ASSETS INSURANCE FUND		15,000,000	15,000,000
MAINTANCE FUND	50	5,123,530,000	1,466,800,000
INTEREST ON BUDGETARY SUPPORT FROM GOVT.	51	2,833,925,410	1,161,818,455
FINANCING & OTHER CHARGES	52	1,629,866,840	1,734,283,731
NET INCOME/(LOSS) BEFORE EXCH. RATE FLUCTUATION		(65,808,270,388)	(44,063,776,457)
LOSS DUE TO EXCHANGE RATE FLUCTUATION	53	(1,125,097,543)	(2,142,635,831)
<b>NET INCOME / (LOSS) FOR THE YEAR</b>			
		<b>(66,933,367,931)</b>	<b>(46,206,412,288)</b>
<b>RETAINED EARNINGS</b>			
BALANCE AS AT JULY 01, 2011		(157,117,812,807)	(111,241,126,281)
PREVIOUS YEAR'S ADJUSTMENT	54	2,042,964,591	329,725,762
NET INCOME / (LOSS) FOR THE YEAR		(66,933,367,931)	(46,206,412,288)
<b>BALANCE AS AT JUNE 30, 2012</b>		<b>(222,008,216,147)</b>	<b>(157,117,812,807)</b>

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## INCOME STATEMENT OF GENERATION AND BULK SUPPLY FOR THE YEAR ENDED JUNE 30, 2012

Figures In Taka

PARTICULARS	FY-2011-12	FY-2010-11
<b>OPERATING REVENUE</b>		
ENERGY SALES ( BULK)	108,791,411,874	71,528,453,462
OTHER OPERATING INCOME	7,556,502,354	3,818,209,079
	<b>116,347,914,228</b>	<b>75,346,662,541</b>
<b>OPERATING EXPENSES</b>		
FUEL EXPENSES	25,027,922,393	19,063,332,197
PERSONNEL EXPENSES	2,523,077,192	2,473,502,550
OFFICE EXPENSES	397,093,330	391,710,948
REPAIRS & MAINTENANCE EXPENSES	1,363,708,071	2,321,106,476
DEPRECIATION	5,441,668,350	5,256,304,463
<b>Sub Total of Own Generation Expenses</b>	<b>34,753,469,336</b>	<b>29,505,956,634</b>
ELECTRICITY PURCHASE FROM IPP	34,704,809,005	32,135,020,160
ELECTRICITY PURCHASE FROM RENTAL	88,338,293,915	43,642,891,338
ELECTRICITY PURCHASE FROM PUBLIC PLANT	9,597,697,740	7,923,141,009
GENERAL & ADMINISTRATIVE EXPENSES	1,118,314,368	1,216,189,018
	<b>168,512,584,364</b>	<b>114,423,198,159</b>
<b>OPERATING INCOME / (LOSS)</b>	<b>(52,164,670,136)</b>	<b>(39,076,535,618)</b>
PROVISION FOR ASSETS INSURANCE FUND	12,000,000	12,000,000
MAINTANANCE & DEVELOPMENT EXPENSES	5,123,530,000	1,466,800,000
INTEREST ON BUDGETARY SUPPORT FROM GOVT.	2,833,925,410	1,161,418,455
FINANCING & OTHER CHARGES	1,001,394,518	1,007,375,351
NET INCOME/(LOSS)BEFORE EXCH. RATE FLUCTUATION	(61,135,520,065)	(42,724,129,424)
LOSS DUE TO EXCHANGE RATE FLUCTUATION	(895,956,405)	(1,367,562,192)
<b>NET INCOME / (LOSS) FOR THE YEAR</b>	<b>(62,031,476,470)</b>	<b>(44,091,691,616)</b>



A revenue meeting at Distribution Zone Rangpur



## INCOME STATEMENT OF DISTRIBUTION FOR THE YEAR ENDED JUNE 30, 2012

Figures In Taka

PARTICULARS		FY-2011-12	FY-2010-11
<b>OPERATING REVENUE</b>			
ENERGY SALES ( RETAIL)		31,430,191,681	24,239,004,375
OTHER OPERATING INCOME		598,192,329	485,395,367
	<b>A</b>	<b>32,028,384,010</b>	<b>24,724,399,741</b>
<b>OPERATING EXPENSES</b>			
POWER PURCHASE COST AS PER BST		28,378,247,262	18,463,543,462
TRANSMISSION EXPENSES FOR WHEELING CHARGE		1,565,862,271	1,394,429,016
<b>Sub Total of Energy Import Cost</b>	<b>B</b>	<b>29,944,109,533</b>	<b>19,857,972,478</b>
PERSONNEL EXPENSES		1,958,054,593	1,795,131,849
OFFICE EXPENSES		494,715,711	267,497,102
REPAIRS & MAINTENANCE EXPENSES		774,390,886	391,418,399
DEPRECIATION		2,319,443,951	2,298,263,505
<b>Sub Total of Distribution Expenses</b>	<b>C</b>	<b>5,546,605,141</b>	<b>4,752,310,855</b>
CUSTOMER ACCOUNTS EXPENSES	<b>D</b>		419,807,807
GENERAL & ADMINISTRATIVE EXPENSES	<b>E</b>	578,947,338	304,047,255
<b>Total Operation Expenses (B+C+D+E)</b>	<b>F</b>	<b>36,069,662,012</b>	<b>25,334,138,394</b>
<b>OPERATING INCOME / (LOSS) (A-F)</b>	<b>G</b>	<b>(4,041,278,001)</b>	<b>(609,738,653)</b>
PROVISION FOR ASSETS INSURANCE FUND	<b>H</b>	3,000,000	3,000,000
FINANCING & OTHER CHARGES	<b>I</b>	628,472,322	726,908,380
NET INCOME/(LOSS)BEFORE EXCH. RATE FLUCTUATION (G-H-I)	<b>J</b>	<b>(4,672,750,323)</b>	<b>(1,339,647,033)</b>
LOSS DUE TO EXCHANGE RATE FLUCTUATION	<b>K</b>	<b>(229,141,138)</b>	<b>(775,073,639)</b>
<b>NET INCOME / (LOSS) FOR THE YEAR (J-K)</b>		<b>(4,901,891,461)</b>	<b>(2,114,720,672)</b>



Exchange of views with bankers regarding expansion of e-banking in BPDB



Signing of contract between BPDB and Siemens India for construction of 6 new Sub-station and renovation of 14 old Sub-station

## CASH FLOW STATEMENT FOR THE YEAR 2011-2012

Figures in Taka

SL. No	DESCRIPTION	AMOUNT	AMOUNT	AMOUNT
	<b>CASH FLOW FROM OPERATING ACTIVITIES</b>			
<b>A</b>	<b>Total Receipts from BPDB Customer, REB &amp; Others</b>			
	Operating Revenue Note-40 & 41	120,006,692,185		
	Accounts Receivable-Trade-Opening-Note-9	51,028,096,543		
	Accounts Receivable-Trade-Closing-Note-9	(59,319,303,569)		
	Accounts Receivable-Others -Opening-Note-10	2,638,605,791		
	Accounts Receivable-Others -Closing-Note-10	(18,550,901,896)		
	Provision for Bad Debt-Opening-Note-12	(608,880,974)		
	Provision for Bad Debt-Closing-Note-12	697,456,761		
			95,891,764,841	
<b>B</b>	<b>Less Total Payment for Operating Expenses &amp; Others</b>			
	Operating Expenses net of Depreciation*01	167,195,030,289		
	Previous Year's Adjustments-Note-54	(2,042,964,591)		
	Interest Charges- Sh-52 (Code-675)	277,721,978		
	Liquidity Reserve-Opening- Note-22	72,053,500		
	Liquidity Reserve-Closing - Note-22	(72,053,500)		
	Accounts Payable-Opening -Note-30	13,778,210,178		
	Accounts Payable-Closing- Note-30	(16,726,390,473)		
	Security Deposit Contractor's-Opening -Note-31	652,930,066		
	Security Deposit Contractor's-Closing- Note-31	(664,459,055)		
	Other Liabilities-Opening-Note-38	263,948,348		
	Other Liabilities-Closing-Note-38	(234,247,173)		
	Advance to Contractors-Opening - Note-13	(23,960,545,858)		
	Advance to Contractors-Closing - Note-13	13,538,665,314		
	Advance to Employees-Opening-Note-14	(1,285,283,508)		
	Advance to Employees-Closing-Note-14	1,306,240,595		
	Stock & Stores-Opening- Note-15	(8,091,014,367)		
	Stock & Stores-Closing- Note-15	10,505,146,105		
	Clearing Account-Opening- Note-39	99,653,317		
	Clearing Account-Closing- Note-39	(10,441,147)		
	Deposits & Prepaid-Opening- Note-16	(2,498,908,350)		
	Deposits & Prepaid-Closing -Note-16	3,230,691,368		
			155,333,983,036	
<b>C</b>	<b>Reimbursable Project Aid- received-Sh-35</b>		(100,000,000)	
<b>D</b>	<b>Debt Service Liabilities-Interest Payment -Sh-36</b>		261,387,562	
<b>E</b>	<b>NET CASH OUTFLOW FROM OPERATING ACTIVITIES (A-B-C-D)</b>			<b>(59,603,605,757)</b>
	<b>CASH FLOW FROM INVESTING ACTIVITIES</b>			
	Consumers Security Deposit -Note-27 (Closing-Opening)	284,044,695		
	Capital Expenditure-UPIS- Sh-3	(1,119,546,753)		
	Capital Expenditure-PIP*06(Net Cash)	(34,083,093,720)		
	Employees Contribution to GPF, CPF & Pension Fund-Note-28&29(Closing-Opening)	502,645,435		
	Encashment of FDR-Sh-07	3,559,267,055		
	Investment in FDR-Sh-07	(5,474,437,696)		
<b>F</b>	<b>NET CASH OUT FLOW FROM INVESTING ACTIVITIES</b>			<b>(36,331,120,984)</b>
	<b>CASH FLOW FROM FINANCING ACTIVITIES</b>			
	Capital Contribution -Note-17 (Closing-Opening)	17,774,851,726		
	Grant-Note-20 (Closing- Opening)	14,336,000		
	Govt. Loan- Sh-24 (Loan Drawn during the Year)	13,925,384,455		
	Reimbursable Project Aid- received-Sh-35	100,000,000		
	Foreign Loan- Sh-26.Loan wise(Loan Drawn during the Year)	2,436,389,051		
	Deposit Work Fund -Note-21 (Closing- Opening)	239,240,050		
	DSL ( Principal due) PGCB, APSCL & WZPDC (Except Cash) A/R Other	-		
	DSL ( Interest) PGCB, APSCL & WZPDC (Except Cash) A/R Other	-		
	Repayment of Foreign Loan-Sh-34	(1,511,192,046)		
	Repayment of Govt. Loan-Sh-34	(100,000,000)		
	Refund of Govt. Loan- Sh-24	(515,058,849)		
	Refund of Equity to GOB	-		
<b>G</b>	<b>NET CASH INFLOW FROM FINANCING ACTIVITIES</b>			<b>32,263,950,387</b>
<b>H</b>	<b>NET CASH OUTFLOW (E+F+G)</b>			<b>(63,670,776,353)</b>
<b>I</b>	<b>CASH RECEIVED FROM GOVT. AS BUDGETARY SUPPORT</b>			<b>63,567,000,000</b>
<b>J</b>	<b>OPENING CASH IN HAND</b>			<b>18,532,524,084</b>
<b>K</b>	<b>CLOSING CASH IN HAND(H+I+J)</b>			<b>18,428,747,731</b>

## ELECTRICITY PURCHASE FROM PUBLIC POWER PLANT

Particulars	Nature of Fuel	2011-2012			2010-2011		
		Unit kWh	Amount In Tk.	Cost per unit (Tk/kWh)	Unit kWh	Amount In Tk.	Cost per unit (Tk/kWh)
APSCL (Except New 50 MW)	Gas	3,501,738,918	6,710,011,021	1.92	3,364,446,481	6,503,099,230	1.93
APSCL (New 50 MW)	Gas	394,250,928	737,243,990	1.87	-	-	
SBU HARIPUR	Gas	361,784,690	751,439,151	2.08	460,452,700	938,655,589	2.04
EGCB Ltd.	Gas	927,782,912	1,399,003,578	1.51	502,594,200	481,386,190	0.96
<b>Balance as at June 30, 2012</b>		<b>5,185,557,448</b>	<b>9,597,697,740</b>	<b>1.85</b>	<b>4,327,493,381</b>	<b>7,923,141,009</b>	<b>1.83</b>

## ELECTRICITY PURCHASE FROM RENTAL POWER PLANT

Particulars	Nature of Fuel	2011-2012			2010-2011		
		Unit kWh	Amount In Tk.	Cost per unit (Tk/kWh)	Unit kWh	Amount In Tk.	Cost per unit (Tk/kWh)
ENERGYPRIMA, FENCHUGONJ	Gas	182,038,110	394,533,007	2.17	-	-	
BARKATULLAH ELECTRO DYNAMICS LTD.	Gas	304,429,342	688,641,749	2.26	381,875,356	760,691,451	1.99
SHAHJIBAZAR POWER CO. LTD.	Gas	589,434,221	1,424,254,855	2.42	651,615,360	1,481,305,595	2.27
ENERGYPRIMA, BOGRA	Gas	86,932,655	231,158,427	2.66	9,316,512	7,834,439	0.84
GBB POWER LTD.	Gas	168,362,186	459,755,876	2.73	171,547,760	458,021,238	2.67
DESH CAMBRIDGE, KUMERGOAN	Gas	47,681,827	145,613,892	3.05	68,848,600	165,103,371	2.40
ENERGYPRIMA, KUMERGOAN	Gas	267,446,540	947,309,548	3.54	321,574,240	1,008,800,610	3.14
ENERGYPRIMA, SHAHJIBAZAR	Gas	281,947,869	998,775,082	3.54	533,685,600	1,014,903,988	1.90
PRECISION ENERGY LTD.	Gas	420,311,731	1,499,121,116	3.57	435,593,567	1,338,239,128	3.07
UNITED ASHUGONJ POWER LTD.	Gas	422,661,709	1,984,317,906	4.69	20,024,362	105,794,852	5.28
AGGREKO, INTER. LTD.-GHORASAL 145MW	Gas	408,396,670	2,111,037,831	5.17			
AGGREKO, INTERNATIONAL LTD.-80 MW ASHUGONJ	Gas	628,505,072	3,357,617,523	5.34	185,269,320	861,268,159	4.65
AGGREKO, INTERNATIONAL LTD.-70 MW B. Baria	Gas	509,408,110	2,788,542,607	5.47	61,947,643	260,917,665	4.21
VENTURE ENERGY, BHOLA	Gas	45,008,905	264,666,037	5.88	143,020,255	740,474,461	5.18
MAX POWER LTD.-GHORASAL	Gas	303,755,213	2,790,322,271	9.19	29,877,975	255,186,366	8.54
KPCL -UNIT-2	Fumace Oil	608,436,636	8,826,720,060	14.51	97,322,568	709,189,362	7.29
DUTCH BANGLA POWER & ASSOCIATES LTD.	Fumace Oil	444,262,392	6,866,734,661	15.46	-	-	
KHANJAHAN ALI POWER LTD.	Fumace Oil	183,795,154	2,841,251,325	15.46	42,053,805	302,135,855	7.18
SUMMIT NARAYANGONJ POWER LTD.	Fumace Oil	413,851,725	6,438,974,593	15.56	200,498,135	2,111,002,969	10.53
NORTHERN POWER, Katakhal	Fumace Oil	36,854,994	578,779,580	15.70	-	-	
IELCONSOURTUM & ASSOCIATES	Fumace Oil	431,662,475	7,169,723,072	16.61	126,391,661	954,934,021	7.56
QUANTUM POWER NOWAPARA	Fumace Oil	153,722,409	2,633,997,383	17.13	2,779,799	25,871,696	9.31
POWER PAC MUTIARA KERANIGONJ	Fumace Oil	73,382,880	1,387,800,826	18.91	-	-	
ACRON INFRASTRUCTURE SERVICE LTD.	Fumace Oil	74,135,370	1,407,936,582	18.99	-	-	
AMNURA(SIMHA POWER GENERATION)	Fumace Oil	67,295,307	1,281,719,374	19.05	-	-	
ENERGIS POWER CORPORATION LTD.	Fumace Oil	83,040,480	1,874,405,340	22.57	272,217,684	2,581,674,841	9.48
AGGREKO, INTER. LTD.-GHORASAL 145MW	HSD	467,653,200	6,794,021,296	14.53	749,379,222	11,164,114,908	14.90
QUANTUM POWER 100 MW BHERAMARA	HSD	257,386,486	5,077,672,451	19.73	195,583,581	2,978,685,984	15.23
AGGREKO, KHULNA 40MW	HSD	128,691,060	2,604,930,491	20.24	224,619,060	3,501,686,809	15.59
DESH ENERGY 100 MW SIDDIRGONJ	HSD	250,002,912	5,061,595,790	20.25	205,976,976	2,720,696,818	13.21
DPA POWER GEN. INT. LTD.	HSD	132,678,070	2,744,599,920	20.69	130,112,540	2,147,219,631	16.50
AGGREKO INTERNATIONAL LTD.-55 MW, Khulna	HSD	133,406,571	2,869,958,204	21.51	272,539,280	4,079,712,681	14.97
R Z POWER LTD.	HSD	76,948,309	1,791,805,240	23.29	113,340,229	1,907,424,439	16.83
<b>Balance as at June 30, 2012</b>		<b>8,683,526,590</b>	<b>88,338,293,914</b>	<b>10.17</b>	<b>5,647,011,089</b>	<b>43,642,891,338</b>	<b>7.73</b>

## ELECTRICITY PURCHASE FROM IPP & SIPP

Particulars	Nature of Fuel	2011-2012			2010-2011		
		Unit kWh	Amount In Tk.	Cost per unit (Tk/kWh)	Unit kWh	Amount In Tk.	Cost per unit (Tk/kWh)
Haripur Power LTD.	Gas	2,601,598,000	3,915,792,629	1.51	2,610,395,500	3,610,861,123	1.38
Meghnaghat Power LTD.	Gas	3,662,992,810	8,117,626,852	2.22	3,310,235,000	6,760,205,879	2.04
Doren Power Generation & System Ltd.-Feni	Gas	159,618,420	369,166,888	2.31	167,949,240	367,337,297	2.19
Rejent Power Ltd.	Gas	153,135,600	365,060,855	2.38	171,362,289	377,266,636	2.20
Doren Power Generation & System Ltd.- Tangail	Gas	138,592,667	349,841,776	2.52	151,638,550	352,551,662	2.32
Summit Purbachal Power Ltd.-Jangalia	Gas	233,635,164	615,443,300	2.63	209,020,315	554,156,052	2.65
United Power Generation & Distribution at CEPZ	Gas	131,466,342	369,215,710	2.81	140,830,609	341,410,867	2.42
Rural Power company Ltd. (RPCL). Mymensingh	Gas	1,306,528,608	4,331,301,693	3.32	880,614,250	3,179,974,239	3.61
WESTMONT BD. (LTD), Baghabari	Gas	212,347,200	830,849,080	3.91	467,462,400	1,012,562,973	2.17
Khulna Power Company Ltd (KPCL), Khulna	Furnace Oil	516,346,900	8,330,932,586	16.13	748,581,400	8,877,747,869	11.86
NEPC BD. (LTD), Haripur	Furnace Oil	377,675,500	7,109,577,636	18.82	546,733,100	6,700,945,563	12.26
<b>Balance as at June 30, 2012</b>		<b>9,493,937,210</b>	<b>34,704,809,005</b>	<b>3.66</b>	<b>9,404,822,653</b>	<b>32,135,020,160</b>	<b>3.42</b>

## COMPARISON STATEMENT OF BUDGET & ACTUAL FOR FY 2011-2012

Particulars	Budget FY 2011-2012	Actual FY 2011-2012	Performance Over Budget	Favorable/ Adverse
	1	2	(2/1*100)	
<b>Operating Revenue</b>				
Electricity Sales	112,924,100,000	111,851,997,502	99%	A
Other Operating Income	4,518,800,000	8,154,694,683	180%	F
<b>Total Operating Income</b>	<b>117,442,900,000</b>	<b>120,006,692,185</b>	<b>102%</b>	<b>F</b>
<b>Operating Expenses</b>				
Fuel Cost	36,044,000,000	25,027,922,393	69%	F
Depreciation	8,872,400,000	7,903,635,711	89%	F
Repair & maintenance	4,467,500,000	2,395,714,792	54%	F
Electricity Purchases For IPP	29,726,000,000	34,704,809,005	117%	A
Electricity Purchases For Rental	91,904,000,000	88,338,293,915	96%	F
Electricity Purchases For Public Plant	9,662,000,000	9,597,697,740	99%	F
Maintenance Development Expenses	5,500,000,000	5,123,530,000	93%	F
Wheeling Charge to PGCB	1,925,900,000	1,565,862,271	81%	F
Other Operating Expenses	3,136,100,000	2,920,170,522	93%	F
Sales & Distribution Expenses- Including pension	3,078,900,000	2,452,770,304	80%	F
Administration Expenses	1,676,500,000	1,305,763,671	78%	F
<b>Total Operating Expenses</b>	<b>195,993,300,000</b>	<b>181,336,170,324</b>	<b>93%</b>	<b>F</b>
<b>Operating Income /(Loss)</b>	<b>(78,550,400,000)</b>	<b>(61,329,478,139)</b>	<b>78%</b>	<b>F</b>
<b>Non-Operating Expenses</b>				
Assets Insurance Fund	15,000,000	15,000,000	100%	F
Interest On Loan	3,953,800,000	4,463,792,250	113%	A
Loss From Exchange Rate Fluctuation	2,030,000,000	1,125,097,543	55%	F
<b>Total Non Operating Expenses</b>	<b>5,998,800,000</b>	<b>5,603,889,793</b>	<b>93%</b>	<b>F</b>
<b>Net Income /(Loss)</b>	<b>(84,549,200,000)</b>	<b>(66,933,367,932)</b>	<b>79%</b>	<b>F</b>

## Generation Cost of BPDB's own generating Plant

Sl. No.	Generating Plant under Power Station	Installed Capacity (MW)	Net Generation (KWH)	Variable Cost				Actual Fixed Cost	
				Fuel Cost Tk.	Fuel cost Per Unit (Tk/kWh)	Maintenance Expenses	Total Variable Cost	Personnel Expenses	Office Expenses
1	2	3	4	5	6 = (5/4)	7	8=5+7	9	10
1	KARNAFULI HYDRO POWER STATION	230	776,966,359	-	-	68,902,640	68,902,640	239,170,171	29,563,771
	<b>TOTAL WATER</b>	<b>230</b>	<b>776,966,359</b>	<b>-</b>	<b>-</b>	<b>68,902,640</b>	<b>68,902,640</b>	<b>239,170,171</b>	<b>29,563,771</b>
2	WIND BASE POWER STATION, KUTUBDIA			-		8,700	8,700	720,075	22,001
	<b>TOTAL WIND</b>	<b>0</b>	<b>-</b>	<b>-</b>		<b>8,700</b>	<b>8,700</b>	<b>720,075</b>	<b>22,001</b>
3	BAGHABARI POWER STATION	171	1,095,905,407	1,111,580,163	1.01	146,846,939	1,258,427,103	65,401,329	21,777,857
4	GHORASHAL POWER STATION	950	3,635,659,759	3,454,974,538	0.95	361,434,359	3,816,408,897	569,551,631	61,855,332
5	CHITTAGONG POWER STATION, RAWZAN	420	612,844,684	606,123,345	0.99	184,925,857	791,049,202	172,352,318	51,974,979
6	SHIKALBAHA POWER STATION	210	351,876,885	476,137,847	1.35	85,403,258	561,541,105	146,498,237	20,281,426
7	KUMERGOAN GT POWER SYLHET	20	13,250,190	23,808,707	1.80	7,558,514	31,367,221	22,056,447	4,633,870
8	SYLHET 150 MW POWER PLANT	150	101,985,761	-		22,500	22,500	9,727,331	414,702
9	FENCHUGANU 2x 90 MW CCPP (1st & 2nd unit)	180	967,653,415	783,431,022	0.81	36,235,055	819,666,077	65,195,937	3,895,073
10	SHAHJIBAZAR POWER STATION	117	433,367,884	487,810,593	1.13	10,565,488	498,376,081	84,641,503	3,220,346
11	TONGI POWER STATION	109	434,191,565	450,334,134	1.04	111,504,972	561,839,106	69,931,211	2,723,961
12	SIDDIRGONJ POWER STATION	210	(2,070,036)	2,045,720	(0.99)	32,197,965	34,243,685	237,741,328	87,395,740
13	CHADPUR 150MW CC POWER PLANT	150	91,558,285	41,825,481	0.46	73,194	41,898,675	8,797,164	1,184,160
	<b>TOTAL GAS</b>	<b>2,687</b>	<b>7,736,223,799</b>	<b>7,438,071,550</b>	<b>0.96</b>	<b>976,768,108</b>	<b>8,414,839,653</b>	<b>1,451,894,437</b>	<b>259,387,447</b>
14	BARAPUKURIA POWER STATION	250	883,302,714	3,710,851,413	4.20	184,252,777	3,895,104,190	162,617,908	53,525,643
	<b>TOTAL COAL</b>	<b>250</b>	<b>883,302,714</b>	<b>3,710,851,413</b>	<b>4.20</b>	<b>184,252,777</b>	<b>3,895,104,190</b>	<b>162,617,908</b>	<b>53,525,643</b>
15	KHULNA POWER STATION	170	152,535,041	2,795,112,337	18.32	69,931,598	2,865,043,935	290,866,352	13,778,161
16	BAGHABARI 50 PEAKING POWER PLANT	50	95,846,605	1,182,528,429	12.34	42,835	1,182,571,264	10,555,290	402,479
17	BERA PEAKING POWER PLANT	70	68,496,206	974,268,985	14.22	334,821	974,603,806	14,181,944	806,215
18	HATHAZARI PEAKING POWER PLANT	100	72,616,800	998,920,883	13.76	44,804	998,965,687	9,296,767	447,267
19	DOHAZARI PEAKING POWER PLANT	100	78,897,595	1,029,132,309	13.04	188,143	1,029,320,452	10,405,586	622,847
20	FARIDPUR PEAKING POWER PLANT	50	53,381,290	726,796,420	13.62	378,674	727,175,094	10,560,186	570,281
21	GOPALGONJ PEAKING POWER PLANT	100	98,284,251	1,567,460,139	15.95	2,006,224	1,569,466,363	11,887,332	940,566
22	DAUDKANDI PEAKING POWER PLANT	50	73,100,211	1,021,962,859	13.98	1,121,616	1,023,084,475	10,933,857	523,931
	<b>SUB TOTAL OF HFD</b>	<b>690</b>	<b>693,157,999</b>	<b>10,296,182,361</b>	<b>14.85</b>	<b>74,048,714</b>	<b>10,370,231,076</b>	<b>368,687,315</b>	<b>18,091,747</b>
23	BHERAMARA POWER STATION	60	55,718,983	1,748,180,701	31.37	13,281,662	1,761,462,364	113,802,155	22,610,628
24	BARISHAL GAS TURBINE POWER STATION	40	40,168,158	947,281,600	23.58	11,149,650	958,431,250	53,503,809	2,754,982
25	BARISHAL DIESEL POWER STATION	6	93,856	2,637,219	28.10	446,444	3,083,663	19,257,118	606,768
26	BHOLA DIESEL POWER STATION	8.36	249,450	4,658,950	18.68	2,717,539	7,376,489	16,805,790	1,544,885
27	SAYEDPUR GAS TURBINE POWER STATION	20	19,109,890	420,594,575	22.01	3,230,912	423,825,487	37,955,870	6,473,220
28	RANGPUR GAS TURBINE POWER STATION	20	20,045,183	423,928,952	21.15	24,423,289	448,352,241	30,803,227	1,397,485
29	SAYEDPUR DIESEL GENERATOR			-		-	-	892,820	466
30	THAKURGOAN DIESEL GENERATOR			-		-	-	-	-
31	KUTUBDIA DIESEL GENERATOR	1.5	226,850	3,384,970	14.92	1,045,959	4,430,929	4,159,396	250,030
32	SANDIP DIESEL GENERATOR	2.64	307,650	6,088,216	19.79	1,459,360	7,547,576	2,052,956	337,781
33	HATIYA DIESEL GENERATOR	2.2	1,194,299	25,455,453	21.31	1,205,863	26,661,316	551,810	-
34	DGD, Dhaka			606,432		766,459	1,372,891	20,202,333	556,476
	<b>SUB TOTAL DIESEL</b>	<b>161</b>	<b>137,114,319</b>	<b>3,582,817,068</b>	<b>26.13</b>	<b>59,727,137</b>	<b>3,642,544,205</b>	<b>299,987,286</b>	<b>36,532,721</b>
	<b>GRAND TOTAL</b>	<b>4,018</b>	<b>10,226,765,190</b>	<b>25,027,922,393</b>	<b>2.45</b>	<b>1,363,708,071</b>	<b>26,391,630,463</b>	<b>2,523,077,192</b>	<b>397,093,330</b>
	SBU Haripur (Items of BPDB's Book)					-	-	-	-
	<b>GRAND TOTAL (AFTER SBU HARIPUR)</b>	<b>4,018</b>	<b>10,226,765,190</b>	<b>25,027,922,393</b>	<b>2.45</b>	<b>1,363,708,071</b>	<b>26,391,630,463</b>	<b>2,523,077,192</b>	<b>397,093,330</b>

## Generation Cost of BPDB's own generating Plant

Sl. No.	Generating Plant under Power Station	Actual Fixed Cost			Allocated Fixed Cost			Total Generation Cost	Generation Cost Per Unit	Remarks
		Financing Charges	Exchange Rate Fluctuation	Depreciation	Assets Insurance Fund	General & Administrative Expenses	Total Fixed Cost			
1	2	11	12	13	14	15	16=(9+...+16)	17=(8+16)	18=(17/4)	20
1	KARNAFULI HYDRO POWER STATION	96,394,556	(21,920,737)	187,006,170	918,757	100,976,492	632,109,181	701,011,821	0.90	
	<b>TOTAL WATER</b>	<b>96,394,556</b>	<b>(21,920,737)</b>	<b>187,006,170</b>	<b>918,757</b>	<b>100,976,492</b>	<b>632,109,181</b>	<b>701,011,821</b>	<b>0.90</b>	
2	WIND BASE POWER STATION, KUTUBDIA	190,896	-	1,195,770	-	-	2,128,742	2,137,442	-	
	<b>TOTAL WIND</b>	<b>190,896</b>	<b>-</b>	<b>1,195,770</b>	<b>-</b>	<b>-</b>	<b>2,128,742</b>	<b>2,137,442</b>	<b>-</b>	
3	BAGHABARI POWER STATION	79,081,557	30,365,651	200,008,670	1,295,900	99,232,335	497,163,300	1,755,590,403	1.60	
4	GHORASHAL POWER STATION	49,267,227	-	1,569,559,620	4,203,618	405,343,380	2,659,780,807	6,476,189,704	1.78	
5	CHITTAGONG POWER STATION, RAWZAN	31,498,570	-	650,339,690	724,684	57,897,622	964,787,864	1,755,837,066	2.87	
6	SHIKALBAHA POWER STATION	88,523,241	22,603,280	384,869,520	416,092	35,338,222	698,530,017	1,260,071,123	3.58	
7	KUMERGOAN GT POWER SYLHET	11,338,983	-	-	15,668	1,199,782	39,244,750	70,611,971	5.33	Partial Exp.
8	SYLHET 150 MW POWER PLANT	-	-	382,930	120,597	9,234,634	19,880,195	19,902,695	0.20	Test Run
9	FENCHUGANJ 2x90 MW CCPP (1st & 2nd unit)	34,380,300	86,254,174	311,740,790	1,144,243	89,456,638	592,067,155	1,411,733,233	1.46	
10	SHAHJIBAZAR POWER STATION	53,951,073	62,434,918	128,833,410	512,454	42,623,937	376,217,642	874,593,723	2.02	
11	TONGI POWER STATION	38,969,542	-	98,691,960	513,428	78,059,739	288,889,842	850,728,948	1.96	
12	SIDDIRGONJ POWER STATION	89,311,333	2,659,680	423,834,140	-	5,785,707	846,727,929	880,971,614		Partial Exp.
13	CHADPUR 150MW CC POWER PLANT	-	-	-	108,267	8,290,444	18,380,035	60,278,710	0.66	Test Run
	<b>TOTAL GAS</b>	<b>476,321,826</b>	<b>204,317,703</b>	<b>3,768,260,730</b>	<b>8,054,853</b>	<b>832,462,441</b>	<b>7,001,668,536</b>	<b>15,416,508,188</b>	<b>1.99</b>	
14	BARAPUKURIA POWER STATION	313,202,576	668,129,250	586,353,100	1,044,499	81,680,096	1,866,553,072	5,761,657,262	6.52	
	<b>TOTAL COAL</b>	<b>313,202,576</b>	<b>668,129,250</b>	<b>586,353,100</b>	<b>1,044,499</b>	<b>81,680,096</b>	<b>1,866,553,072</b>	<b>5,761,657,262</b>	<b>6.52</b>	
15	KHULNA POWER STATION	60,856,579	9,867,391	318,955,320	180,372	33,204,693	727,708,867	3,592,752,803	23.55	
16	BAGHABARI 50 PEAKING POWER PLANT	-	-	30,368,547	113,338	8,678,744	50,118,398	1,232,689,663	12.84	
17	BERA PEAKING POWER PLANT	-	-	39,363,273	80,996	6,202,213	60,634,641	1,035,238,447	15.11	
18	HATHAZARI PEAKING POWER PLANT	-	-	56,233,248	85,869	6,575,325	72,638,476	1,071,604,163	14.76	
19	DOHAZARI PEAKING POWER PLANT	-	-	56,233,248	93,296	7,144,040	74,499,016	1,103,819,468	13.99	
20	FARIDPUR PEAKING POWER PLANT	-	-	28,116,624	63,123	4,833,583	44,143,797	771,318,891	14.45	
21	GOPALGONJ PEAKING POWER PLANT	-	-	56,233,248	116,220	8,899,469	78,076,835	1,647,543,197	16.76	
22	DAUDKANDI PEAKING POWER PLANT	-	-	28,116,624	86,440	6,619,097	46,279,950	1,069,364,425	14.63	
	<b>SUB TOTAL OF HFD</b>	<b>60,856,579</b>	<b>9,867,391</b>	<b>613,620,130</b>	<b>819,654</b>	<b>82,157,164</b>	<b>1,154,089,881</b>	<b>11,524,331,057</b>	<b>16.63</b>	
23	BHERAMARA POWER STATION	4,574,218	-	84,299,090	65,887	9,755,386	235,107,364	1,996,569,728	35.83	
24	BARISHAL GAS TURBINE POWER STATION	6,777,298	-	1,475,480	47,499	7,549,739	72,108,807	1,030,540,056	25.66	
25	BARISHAL DIESEL POWER STATION	-	-	14,458,760	111	8,498	34,331,256	37,414,919	398.64	
26	BHOLA DIESEL POWER STATION	-	-	6,088,120	295	22,587	24,461,677	31,838,166	127.63	
27	SAYEDPUR GAS TURBINE POWER STATION	-	-	2,845,330	22,597	1,730,367	49,027,385	472,852,873	24.74	
28	RANGPUR GAS TURBINE POWER STATION	8,861,863	-	3,301,290	23,703	1,815,057	46,202,625	494,554,866	24.67	
29	SAYEDPUR DIESEL GENERATOR	-	-	-	-	-	893,286	893,286		
30	THAKURGOAN DIESEL GENERATOR	-	-	-	-	-	-	-		
31	KUTUBDIA DIESEL GENERATOR	-	-	1,621,860	268	20,541	6,052,095	10,483,024	46.21	
32	SANDIP DIESEL GENERATOR	-	-	153,000	364	27,857	2,571,958	10,119,534	32.89	
33	HATTYA DIESEL GENERATOR	-	-	2,431,290	1,412	108,142	3,092,654	29,753,969	24.91	
34	DGD, DHAKA	-	-	417,450	-	-	21,176,259	22,549,150		
	<b>SUB TOTAL DIESEL</b>	<b>20,213,379</b>	<b>-</b>	<b>117,091,670</b>	<b>162,137</b>	<b>21,034,175</b>	<b>496,023,367</b>	<b>4,137,369,372</b>	<b>30.18</b>	
	<b>GRAND TOTAL</b>	<b>967,179,812</b>	<b>880,393,607</b>	<b>5,273,527,570</b>	<b>12,000,000</b>	<b>1,118,314,368</b>	<b>11,151,585,879</b>	<b>37,543,216,342</b>	<b>3.67</b>	
	SBU Haripur ( Items of BPDB's Book )	34,214,706	35,562,798	168,140,780	-	-	237,918,284	237,918,284		
	<b>GRAND TOTAL ( AFTER SBU HARIPUR )</b>	<b>1,001,394,518</b>	<b>895,956,405</b>	<b>5,441,668,350</b>	<b>12,000,000</b>	<b>1,118,314,368</b>	<b>11,389,504,163</b>	<b>37,781,134,626</b>	<b>3.69</b>	

## COMPARISON OF REVENUE AND EXPENSES

PARTICULARS	Actual FY 2011-2012	Actual FY 2010-2011	Increase/ Decrease	Favorable/ Adverse
<b>OPERATING REVENUE</b>				
Electricity Sales	111,851,997,502	77,303,914,375	44.69%	F
Other Operating Income	8,154,694,683	4,303,604,446	89.49%	F
<b>Total Operating Revenue</b>	<b>120,006,692,185</b>	<b>81,607,518,821</b>	<b>47.05%</b>	<b>F</b>
<b>OPERATING EXPENSES</b>				
Fuel Cost	25,027,922,393	19,064,948,087	31.28%	F
Electricity Purchase From IPP	34,704,809,005	32,135,020,160	8.00%	A
Electricity Purchase From Rental	88,338,293,915	43,642,891,338	102.41%	A
Electricity Purchase From Public Plant	9,597,697,740	7,923,141,009	21.14%	A
Maintenance & Development Expenses	5,123,530,000	1,466,800,000	249.30%	A
Depreciation	7,903,635,711	7,658,640,752	3.20%	A
Repair & Maintenance	2,484,290,578	3,000,107,502	-17.19%	A
Personnel Expenses	5,468,796,165	5,506,133,535	-0.68%	F
Office and Administrative Expenses	1,121,332,546	968,481,693	15.78%	A
Transmission charge paid to PGCB	1,565,862,271	1,394,429,016	12.29%	A
<b>Total Operating Expenses</b>	<b>181,336,170,322</b>	<b>122,760,593,092</b>	<b>47.72%</b>	<b>A</b>
<b>Operating Income / (Loss)</b>	<b>(61,329,478,137)</b>	<b>(41,153,074,271)</b>	<b>49.03%</b>	<b>A</b>
<b>NON OPERATING EXPENSES</b>				
Assets Insurance Fund	15,000,000	15,000,000	0.00%	
Interest on Loans	1,629,866,840	1,734,283,731	-6.02%	A
Interest on Budgetary Support From Govt.	2,833,925,410	1,161,418,455	0%	
Loss due to Exchange Rate Fluctuation	1,125,097,543	2,142,635,831	-47.49%	A
<b>Net Non-Operating Expenses</b>	<b>5,603,889,793</b>	<b>5,053,338,017</b>	<b>10.89%</b>	<b>A</b>
<b>Net Income / ( Loss)</b>	<b>(66,933,367,931)</b>	<b>(46,206,412,288)</b>	<b>44.86%</b>	<b>A</b>

## INCOME STATEMENT AND BALANCE SHEET RATIOS

Sl.No.	PARTICULARS	2011-2012	2010-2011
<b>INCOME STATEMENT RATIOS</b>			
1	Rate of Return ( Operating Income / Operating Avg. Fixed Assets )	-34.87%	-25.45%
2	Operating Income Ratio ( Operating Income / Total Operating Revenue )	-46.84%	-50.84%
3	Ratio of Operating Expenses to Total Operating Revenue	146.84%	150.84%
4	Ratio of Fuel Expenses over total Operating Expenses	4.22%	9.17%
5	Ratio of Depreciation over Total Operating Expenses	4.49%	6.46%
6	Ratio of Depreciation and Fuel expenses to operating expenses	8.70%	15.64%
7	Ratio of operating cash expenses over cash collection	140.02%	148.84%
<b>BALANCE SHEET RATIOS</b>			
8	Current Ratios (Current Assets / Current Liabilities)	.1.04:1	.92:1
9	Quick Ratio (Quick Assets / Current Liabilities)	.96:1	.87:1
10	Debt/Equity Ratio	1 : .5.77	1 : 1.72

## CONSOLIDATED SCHEDULE OF EXPENSES

Head of Accounts	Generation Expenses	Transmission Expenses	Distribution Expenses	General & Administrative Expenses	Total Expenses 2011-2012	Total Expenses 2010-2011
Fuel Consumption-Gas	7,431,577,785	.	-	.	7,431,577,785	11,292,174,861
Fuel Consumption-Liquid fuel	14,050,112,309			-	14,050,112,309	5,503,451,887
Fuel Consumption-Coal	3,546,232,299				3,546,232,299	2,269,321,339
<b>Sub Total of Fuel Cost</b>	<b>25,027,922,393</b>	-	-	-	<b>25,027,922,393</b>	<b>19,064,948,087</b>
Personnel Expenses	2,523,077,192	-	1,958,054,593	987,664,380	5,468,796,165	5,506,133,535
Office & Other Expenses	397,093,330	-	494,715,711	229,523,505	1,121,332,546	968,481,693
Repairs & Maintenance	1,363,708,072	-	774,390,885	257,615,835	2,395,714,792	2,960,136,903
Depreciation	5,441,668,350	-	2,319,443,952	142,523,409	7,903,635,711	7,658,640,752
Bad debts	-	-	-	88,575,786	88,575,786	39,970,600
Transmission Charge to PGCB	-	1,565,862,271	-	-	1,565,862,271	1,394,429,016
Electricity Purchase From IPP	34,704,809,005	-	-	-	34,704,809,005	32,135,020,160
Electricity Purchase From Rental	88,338,293,915				88,338,293,915	43,642,891,338
Electricity Purchase From Public Plant	9,597,697,740				9,597,697,740	7,923,141,009
Maintenance & Development Expenses	5,123,530,000				5,123,530,000	1,466,800,000
Provision for Assets Insurance Fund	-	-	-	-	15,000,000	15,000,000
<b>Total</b>	<b>172,517,799,995</b>	<b>1,565,862,271</b>	<b>5,546,605,141</b>	<b>1,705,902,915</b>	<b>181,351,170,322</b>	<b>122,775,593,092</b>



A meeting on performance of PDB Schools

## PERSONNEL EXPENSES

Code No.	Head of Accounts	Generation Expenses	Distribution Expenses	Total General & Administrative Expenses	Total Expenses 2011-2012	Total Expenses 2010-2011
0.20	Pay of Officers	191,309,735	168,984,355	156,341,338	516,635,128	474,394,227
0.21	Pay of Staff	320,315,331	471,263,225	168,390,105	959,968,561	970,586,250
0.22	Allowances of Officers	95,378,513	71,744,454	72,269,516	255,614,063	239,810,881
0.23	Allowances of Staff	111,600,094	290,150,812	97,289,074	609,077,850	608,173,670
0.24	Leave Encashment	221,637,964	22,783,991	13,509,206	58,386,696	92,453,307
0.25	Overtime Allowances (Single Rate)	50,112,610	75,347,405	26,495,774	151,955,789	146,157,984
25a	Overtime Allowances (Double Rate)	300,042,789	324,676,685	62,715,185	687,434,658	635,775,383
0.28	House Rent Expenses	-	-	-	-	230,102
0.29	Medical Expenses	3,467,321	1,008,772	1,618,312	6,094,405	4,744,031
0.31	Bonus for Officers	28,728,042	26,582,862	26,966,021	82,276,925	96,321,072
.31a	Bonus for Staff	53,369,886	76,075,888	27,031,728	156,477,501	198,724,101
.35b	Employees Electricity Rebate	73,459,545	95,677,806	36,479,298	205,616,648	164,666,703
0.50	Workmen Compensation	-	-	-	-	56,476
0.51	Gratuity	164,000	-	482,400	646,400	3,041,255
0.53	Income Tax of Officers & Staff	23,970,416	5,712,084	14,473,848	44,156,347	21,828,856
0.55	Employees Other Benefit & Welfare Expenses	1,699,361	920,115	3,342,103	5,961,579	13,277,392
0.55a	Reimbursement for Treatment of Accident (on duty) affected Employee	5,000	118,000	13,000	136,000	-
0.56	Board's Contribution to CPF	4,153,175	-	-	4,153,175	5,987,314
0.57	Board's Contribution to Pension Fund	907,201,631	119,617,680	134,534,659	1,161,353,970	1,260,616,751
0.58	Leave Encashment on Retirement	14,664,640	14,086,394	17,401,498	46,152,532	83,929,513
0.59	L. Salary & Pension Cont. for Trans. Govt. Employees	-	-	-	-	3,420,035
0.63	Honorarium	101,927,661	52,438,529	49,490,337	203,856,528	164,587,761
0.63A	Honorarium	2,647,038	3,920,570	11,889,345	18,456,953	40,442,093
0.66	Wages for Hired Labour	90,507,256	136,627,791	51,055,788	278,190,835	263,580,814
0.66a	Computerization of Commercial Operation	-	303,952	14,510,311	14,814,263	-
0.66c	Contract out-Commercial Operation activities	-	13,523	-	13,523	-
0.67	Interest on GPF/CPF	-	-	1,365,835	1,365,835	13,327,564
<b>Total Personnel Expenses</b>		<b>2,523,077,192</b>	<b>1,958,054,593</b>	<b>987,664,380</b>	<b>5,468,796,165</b>	<b>5,506,133,535</b>

## OFFICE AND OTHER EXPENSES

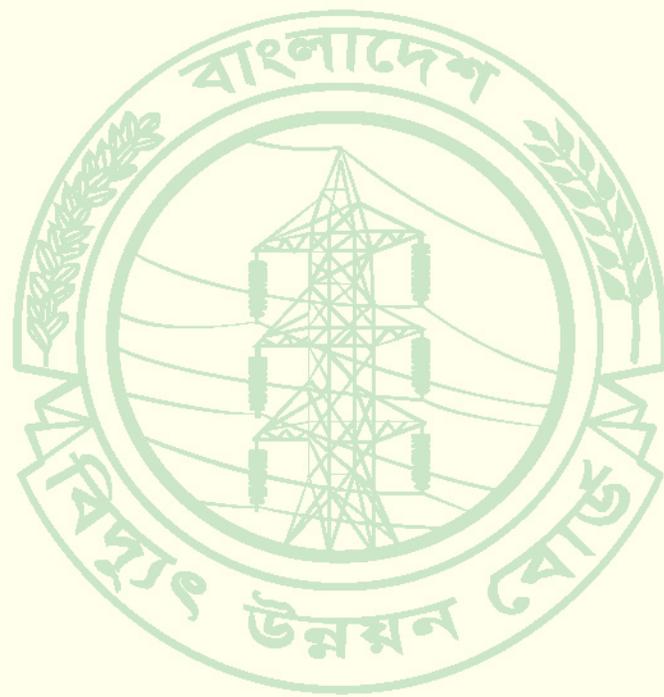
Code No.	Head of Accounts	Generation Expenses	Distribution Expenses	Total General & Administrative Expenses	Total Expenses 2011-2012	Total Expenses 2010-2011
0.26	Traveling Expenses/ Allowances(For Official)	30,709,200	61,024,932	33,148,087	124,882,219	82,721,887
.26a	Travelling Expenses (For Training)	3,797,303	737,342	712,985	5,247,630	2,676,051
0.27	Conveyance Charge	722,929	5,484,142	3,015,398	9,222,468	8,666,420
. 29a	Washing Expenses	135,519	220,379	295,613	651,511	560,898
0.30	Representation & Entertainment	131,895	4,034	2,761,840	2,897,769	2,986,637
0.32	Stationary & Printing	8,125,670	39,266,638	30,603,963	77,996,271	70,575,097
0.33	Taxes,Licence & Fees	21,977,548	19,914,484	17,149,325	59,041,356	55,288,801
0.34	Office Rent	103,547	4,521,406	2,986,745	7,611,698	7,279,327
0.35	Water Charges	1,953,896	284,738	2,495,154	4,733,787	7,550,250
. 35a	Electric Charges (Own use)	159,239,633	86,266,633	23,067,954	268,574,221	174,609,250
.35c	Electricity Rebate - Freedom fighters	-	1,930,844	72,268	2,003,112	3,696,729
0.36	Uniforms & Liveries	6,234,449	8,433,262	1,212,820	15,880,531	12,842,974
0.37	Post & Telegram	317,236	689,858	1,808,027	2,815,121	2,799,807
.37a	Telephone,Telex & Fax	2,595,387	7,872,078	6,204,021	16,671,487	16,390,445
0.38	Advertising & Promotion	25,023,140	26,389,488	65,467,493	116,880,122	83,958,062
0.39	Audit Fee	-	59,900,344	1,210,528	61,110,872	61,343,866
. 39a	Legal Expenses (Lawyer's Fees & Court Fees)	46,410	1,911,319	6,816,013	8,773,742	5,330,033
0.40	Books & Periodicals	519,226	455,405	695,754	1,670,385	1,776,601
0.45	Custom Duties & Sale Tax	35,530,532	62,437,530	-	97,968,063	121,804,670
. 45a	Vat	72,557,945	38,278,691	-	110,836,636	97,448,711
0.52	Donation & Contributions	1,465,250	459,201	893,150	2,817,601	2,785,383
0.52a	Donation to sick Employees from Benevolent Fund	-	-	23,701	23,701	-
0.54	Training & Education	1,208,750	237,865	26,033,445	27,480,060	21,470,631
0.54a	Training & Education- Foreign	114,699	-	9,000	123,699	-
0.61	Bank Charge & Commission	24,575,165	67,995,099	2,640,222	95,210,486	122,371,138
0.68	Allocation of Gen. Admn. Exp.	-	-	-	-	930,642
0.69	Miscellaneous Expenses	8,000	-	200,000	208,000	617,385
<b>Total Office &amp; Other Expenses</b>		<b>397,093,330</b>	<b>494,715,711</b>	<b>229,523,505</b>	<b>1,121,332,546</b>	<b>968,481,693</b>

## REPAIR AND MAINTENANCE EXPENSES

Code No.	Head of Accounts	Generation Exp	Distribution Expenses	Total General & Administrative Expenses	Total Expenses 2011-2012	Total Expenses 2010-2011
0.42	Petrol/ Diesel & Lubricants Used for Transport	24,380,433	100,091,753	35,264,688	159,736,873	137,499,932
42(a)	CNG Used for Vehicle	3,087,899	523,459	686,682	4,298,040	5,704,993
0.43	Petrol/ Diesel & Lubricants Used for Other Equipment	18,857,485	-	-	18,857,485	25,074,701
0.44	Store & Spares Used	980,850,992	404,669,642	11,350,101	1,396,870,735	2,019,984,053
0.46	Demurrage & Warfront	5,185,054	1,529,267	-	6,714,322	4,617,969
0.48	Hire of Equipment	-	4,200	-	4,200	-
0.49	Freight & Handling	16,065,949	38,083,001	144,554	54,293,504	52,074,332
0.60	Insurance (For Goods & Property)	10,310,829	3,089,568	2,827	13,403,224	14,742,454
.60a	Insurance (For Transportation Equipment)	1,494,461	1,035,556	2,064,176	4,594,193	5,445,145
.60b	Insurance for Vehicle & Others	370	-	3,058	3,428	-
0.64	Contractor's Fees	-	-	8,112,382	8,112,382	13,418,330
.64a	Contractor's Fees	-	-	14,286,149	14,286,149	21,020,553
0.65	Consultants Expenses	138,207,160	-	2,173,448	140,380,608	72,370,851
0.70	Land & Land Rights	21,020,553	3,377,898	-	6,222,634	7,111
0.71	Structure & Improvement	2,844,736	38,937,573	92,466,107	168,057,222	143,733,872
0.72	Boiler Plant equipment	36,862,405	-	-	18,862,405	14,358,324
0.73	Engine & Engine Driven Generators	16,466,869	-	-	16,466,869	6,725,553
0.74	Generator	19,685,925	-	34,225	19,720,150	24,415,284
0.75	Prime Movers	2,864,815	-	-	2,864,815	7,514,169
0.76	Accessory elect. equipment	3,014,209	-	-	3,014,209	3,891,708
0.77	Reservoir, Dams & Waterways	10,767,208	-	-	10,767,208	2,849,527
0.78	Water Wheels and Turbines	-	-	-	-	132,088
0.79	Roads, Rail Roads & Bridges	6,780	-	-	6,780	-
0.81	Station Equipment	719,596	1,100,058	-	1,819,654	825,855
0.82	Towers and Fixtures	-	-	-	-	-
0.83	Poles & Fixtures	-	5,569,785	-	5,569,785	1,810,564
0.84	Overhead Conduct & Devices	1,604,011	116,221,539	46,247,832	164,473,382	109,032,344
0.85	Underground Conductors	-	-	-	-	6,000
0.86	Line Transformers	-	12,330,782	-	12,330,782	18,504,048
0.86a	Transformers Manufacturing	-	1,111,640	-	1,111,640	-
0.87	Street Lighting and Single Systems	-	15,920	-	15,920	-
0.88	Meters	-	2,748,001	-	2,748,001	-
0.89	Transportation Equipment's	-	38,556,799	37,469,462	92,051,519	81,009,122
0.90	Heavy & Other Power Operated Equipment's	16,025,258	129,687	41,120	170,807	1,470,805
0.91	Office furniture & Equipment	-	3,567,073	4,752,278	9,158,284	15,925,183
0.91a	Office furniture & Equipment (Computer, Monitor & Others)	838,933	-	-	36,680	-
0.92		-	-	-	-	248,293
0.93	Tools, Shop and Garage Equipments	-	507,885	1,141,859	1,652,734	2,482,915
0.94	Laboratory Equipment	-	-	-	-	8,740
0.95	Stores Equipment	34,876,473	778,628	1,143,123	36,798,224	152,921,460
0.96	Fire Fighting Equipment	-	-	-	-	273,376
0.99	Miscellaneous Equipment	-	11,170	-	11,170	37,249
<b>Total Repair &amp; Maintenance</b>		<b>1,363,708,072</b>	<b>774,390,885</b>	<b>257,387,060</b>	<b>2,395,486,017</b>	<b>2,960,136,903</b>

## FIXED ASSETS SCHEDULE

PARTICULARS	ASSETS (COST & REVALUED)						DEPRECIATION					Written Down Value
	Opening Balance	Adjustment	Adjusted Opening Balance	Addition	Transfer to FGCB	Closing Balance	Opening Balance	On Opening Assets	On Addition	Total	Grand Total	
1	2	3	4	5	6	7=(4+5-6)	8	9	10	11=(9+10)	12=(8+11)	13
<b>GENERATION</b>												
LAND	3,056,961,291	2,062,294,560	5,119,255,851	-	-	5,119,255,851	-	-	-	-	-	5,119,255,851
BUILDING	11,607,945,517	4,507,835,510	16,115,781,027	10,441,655	-	16,126,222,682	8,305,629,589	515,704,993	167,066	515,872,059	8,821,501,648	7,304,721,034
PLANT & MACHINERY	156,608,309,281	(6,634,089,680)	149,974,219,601	7,466,837,792	-	157,441,057,393	84,332,564,161	4,799,175,027	119,469,405	4,918,644,432	89,251,208,592	68,189,848,800
VEHICLES	407,601,713	44,042,190	451,643,903	-	-	451,643,903	407,601,290	-	-	-	407,601,290	44,042,612.31
FURNITURE	200,769,955	19,917,420	220,687,375	5,616,381	-	226,303,756	114,393,218	7,061,996	89,862	7,151,858	121,545,076	104,758,680
<b>SUB TOTAL</b>	<b>171,881,587,757</b>	<b>(8)</b>	<b>171,881,587,757</b>	<b>7,482,895,828</b>	<b>-</b>	<b>179,364,483,585</b>	<b>93,168,188,258</b>	<b>5,321,942,816</b>	<b>119,726,333</b>	<b>5,441,668,349</b>	<b>98,609,856,607</b>	<b>80,762,626,878</b>
<b>TRANSMISSION</b>												
LAND	2,707,854,761	-	2,707,854,761	-	207,426,448	2,500,428,313	-	-	-	-	-	2,500,428,313
BUILDING	1,987,901,655	-	1,987,901,655	-	152,276,771	1,835,624,884	967,737,499	-	-	-	967,737,499	867,887,385
PLANT & MACHINERY	52,650,024,201	-	52,650,024,201	-	4,033,084,663	48,616,939,538	19,723,518,560	-	-	-	19,723,518,560	28,893,420,978
VEHICLES	69,548,764	-	69,548,764	-	5,327,538	64,221,206	44,171,730	-	-	-	44,171,730	20,049,476
FURNITURE	113,372,852	-	113,372,852	-	8,684,560	104,688,292	54,055,399	-	-	-	54,055,399	50,632,892
<b>SUB TOTAL</b>	<b>57,528,702,233</b>	<b>-</b>	<b>57,528,702,233</b>	<b>-</b>	<b>4,406,800,000</b>	<b>53,121,902,233</b>	<b>28,789,483,188</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>28,789,483,188</b>	<b>32,332,419,044</b>
<b>DISTRIBUTION</b>												
LAND	8,678,203,040	-	8,678,203,040	-	-	8,678,203,040	-	-	-	-	-	8,678,203,040
BUILDING	5,144,170,029	-	5,144,170,029	16,593,616	-	5,160,763,645	3,521,915,973	164,613,441	265,498	164,878,939	3,686,794,912	1,473,968,734
PLANT & MACHINERY	66,648,983,291	-	66,648,983,291	394,645,060	-	67,243,628,351	34,886,494,597	2,132,767,465	9,514,321	2,142,281,786	37,028,776,384	30,214,851,967
VEHICLES	387,178,695	-	387,178,695	-	-	387,178,695	384,676,468	-	-	-	384,676,468	2,502,227
FURNITURE	368,308,801	-	368,308,801	31,084,086	-	399,392,887	132,106,576	11,785,882	497,345	12,283,227	144,389,804	255,003,083
<b>SUB TOTAL</b>	<b>81,226,843,856</b>	<b>-</b>	<b>81,226,843,856</b>	<b>642,322,762</b>	<b>-</b>	<b>81,869,166,618</b>	<b>38,923,193,615</b>	<b>2,309,166,788</b>	<b>10,277,164</b>	<b>2,319,443,952</b>	<b>41,244,637,567</b>	<b>40,634,529,051</b>
<b>GENERAL</b>												
COMPUTER	100,341,700	-	100,341,700	-	-	100,341,700	82,952,109	3,210,934	-	3,210,934	86,163,043	14,178,657
VEHICLES	344,078,120	-	344,078,120	-	-	344,078,120	309,787,508	30,967,031	-	30,967,031	340,754,539	3,323,581.18
PLANT & MACHINERY	1,477,531,361	-	1,477,531,361	69,495,546	-	1,547,026,907	217,116,227	47,281,004	1,111,929	48,392,932	265,509,159	1,281,517,748
BUILDING	1,513,398,275	-	1,513,398,275	136,339,911	-	1,649,738,186	847,019,664	48,428,745	2,181,439	50,610,183	897,629,847	752,108,339
FURNITURE	248,184,133	-	248,184,133	87,527,215	-	335,711,348	89,241,084	7,941,892	1,400,435	9,342,328	98,583,411	237,127,937
LAND	3,245,772,350	-	3,245,772,350	-	-	3,245,772,350	-	-	-	-	-	3,245,772,350
<b>SUB TOTAL</b>	<b>6,929,305,940</b>	<b>-</b>	<b>6,929,305,940</b>	<b>293,362,672</b>	<b>-</b>	<b>7,222,668,612</b>	<b>1,546,116,591</b>	<b>137,829,606</b>	<b>4,693,803</b>	<b>142,523,409</b>	<b>1,688,640,000</b>	<b>5,534,028,610</b>
<b>GRAND TOTAL</b>	<b>317,566,439,786</b>	<b>(8)</b>	<b>317,466,098,086</b>	<b>8,418,381,262</b>	<b>4,406,800,000</b>	<b>321,578,221,048</b>	<b>154,420,981,653</b>	<b>7,768,938,410</b>	<b>134,697,300</b>	<b>7,903,635,712</b>	<b>162,324,617,365</b>	<b>139,253,683,682</b>





# PRIMARY GRID SYSTEM OF BANGLADESH

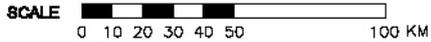
AS ON JUNE 2012

Directorate of System Planning, BFPDB

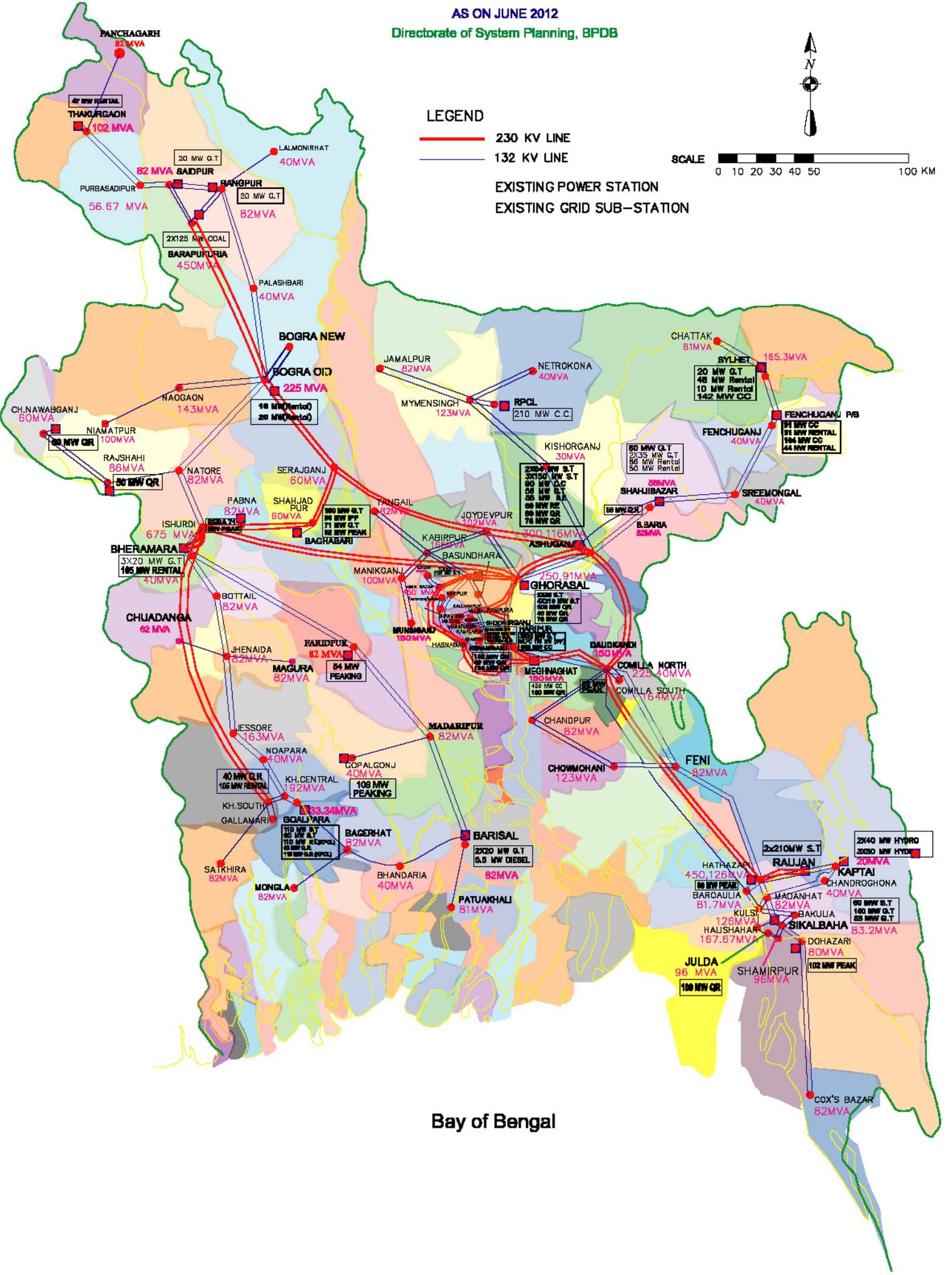


## LEGEND

- 230 KV LINE
- 132 KV LINE



EXISTING POWER STATION  
EXISTING GRID SUB-STATION



Bay of Bengal

