

## Grant No. 53

## 156 - Power Division

## Medium Term Expenditure

(Taka in Thousands)

Description	Budget 2019-20	Projection	
		2020-21	2021-22
Operating Expenditure	50,25,00	52,76,00	55,40,00
Development Expenditure	26014,44,00	27315,16,00	28680,92,00
<b>Total</b>	<b>26064,69,00</b>	<b>27367,92,00</b>	<b>28736,32,00</b>
Recurrent	484,60,68	6066,28,97	14146,02,22
Capital	272,16,57	261,08,13	551,07,18
Financial Asset	25307,91,75	21040,54,90	14039,22,60
Liability	0	0	0
<b>Total</b>	<b>26064,69,00</b>	<b>27367,92,00</b>	<b>28736,32,00</b>

## 1.0 Mission Statement and Major Functions

## 1.1 Mission Statement

To ensure uninterrupted and quality power supply for all citizens through improvement in power generation, transmission and distribution systems.

## 1.2 Major Functions

- 1.2.1 To undertake all activities related to power generation, transmission and distribution;
- 1.2.2 Formulate, update and implement laws and policies related to power;
- 1.2.3 Formulate plans in line with increasing demand of power and expand, rehabilitate and modernize power generation, transmission and distribution service accordingly;
- 1.2.4 To encourage private sectors and joint venture investment initiatives along with government investment;
- 1.2.5 To improve the standard of living of the rural poor through rural electrification and renewable energy;
- 1.2.6 Monitoring commercial activities and revenue collection of power sector's institutes/companies;
- 1.2.7 Expansion of renewable energy and ensuring efficient use of energy and energy conservation initiatives.

## 2.0 Medium Term Strategic Objectives and Activities

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
1. Ensuring uninterrupted and quality power supply	<b>Generation</b> <ul style="list-style-type: none"> <li>Construction of new power plants</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Power Development Board (BPDB)</li> <li>Bangladesh Rural Electrification Board (BREB)</li> <li>Electricity Generation Company of Bangladesh LTD (EGCB)</li> <li>Ashuganj Power Station Company Ltd. (APSC)</li> </ul>

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
		<ul style="list-style-type: none"> <li>North West Power Generation Company. Ltd. (NWPGL)</li> <li>Rural Power Company. Ltd. (RPCL)</li> <li>Coal Power Generation Company. Bangladesh Ltd. (CPGCL)</li> </ul>
	<ul style="list-style-type: none"> <li>Repair, maintenance and modernization of old power plants</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Power Development Board (BPDB)</li> <li>Electricity Generation Company of Bangladesh Ltd (EGCB)</li> </ul>
	<b>Power Transmission:</b> <ul style="list-style-type: none"> <li>Construction of new transmission lines and managing and maintenance of existing transmission lines</li> <li>Construction of new grid sub-stations and expansion of existing grid sub-stations</li> </ul>	<ul style="list-style-type: none"> <li>Power Grid Company of Bangladesh Ltd. (PGCB)</li> </ul>
	<b>Power Distribution</b> <ul style="list-style-type: none"> <li>Construction of new power distribution lines and reconstruction, expansion and maintenance of existing distribution lines</li> <li>Construction of new sub-stations, operation and maintenance of existing sub-stations</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Power Development Board (BPDB)</li> <li>Bangladesh Rural Electrification Board (BREB)</li> <li>Dhaka Electric Supply Company Ltd. (DESCO)</li> <li>Dhaka Power Distribution Company Ltd. (DPDC)</li> <li>West Zone Power Distribution Company Ltd. (WZPDCOL)</li> </ul>
2. Increasing the use of renewable energy and energy conservation technology	<ul style="list-style-type: none"> <li>Formulation and supervision of policies related to production of electricity through renewable energy</li> </ul>	<ul style="list-style-type: none"> <li>Sustainable and Renewable Energy Development Authority (SREDA)</li> </ul>
	<ul style="list-style-type: none"> <li>implementation of technologies to generate power from renewable sources</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Power Development Board (BPDB)</li> <li>Bangladesh Rural Electrification Board (BREB)</li> <li>Dhaka Power Distribution Company Ltd. (DPDC)</li> <li>Dhaka Electric Supply Company Ltd. (DESCO)</li> <li>West Zone Power Distribution Company Ltd. (WZPDCOL)</li> <li>Rural Power Company Ltd. (RPCL)</li> </ul>
3. Enhance efficiency in the Power Sector to ensure transparency and accountability	<ul style="list-style-type: none"> <li>Implementation of pre-payment and smart metering systems</li> <li>Strengthening the recovery of arrears of electricity bills</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Power Development Board (BPDB)</li> <li>Bangladesh Rural Electrification Board (BREB)</li> <li>Dhaka Power Distribution Company Ltd. (DPDC)</li> <li>Dhaka Electric Supply Company</li> </ul>

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
		Ltd. (DESCO) • West Zone Power Distribution Company Ltd. (WZPDCOL) • Power Grid Company of Bangladesh LTD (PGCB)
	• Approval of electrical sub-stations for the medium and high voltage power consumers • Issuance of licenses, supervisor's certificates and renewal of technical permits	• Office of the Electrical Advisor & Chief Electric Inspector (EACEI) • Bangladesh Power and Energy Research Council (BPERC)

### 3.0 Poverty, Gender and Climate Change Reporting

#### 3.1 Impact of Medium Term Strategic Objectives on Poverty Reduction, Women's Advancement and Climate Change

##### 3.1.1 Ensuring uninterrupted quality power supply

**Impact on Poverty Reduction:** Through increased power generation, transmission and distribution, electricity coverage is expanding to new consumers, which eventually would result in quality, affordable and uninterrupted power supply to all. It also supports the expansion of industries and commercial activities. As a result, employment opportunity for poor would be created through income generating activities. In addition, trade and commerce and other economic activities will be augmented. Due to additional power generation, small and cottage industries will be expanded in the country with the help of large and medium industries, business activities and financial activities will be increased which will intensify the overall development of the country by creating job opportunities for a large number of population and would play vital role in poverty alleviation and improving the living standard.

**Impact on Women's Advancement:** The expansion of the generation of power has resulted in the establishment of new industries, businesses, houses, cottage industries, commercial organizations which would create new job opportunities for women and would increase the participation of women in the income generating activities. Due to the availability of electricity, information technology and communication has also been flourished and directly contributing to women empowerment. In addition, particularly in the rural and remote areas, women would have access to and could watch different media including television and entertainment programs on different development activities, service oriented and social awareness-based programs, and consequently would pave the way for empowerment of women.

**Impact on Climate Change Adaptation and Mitigation:** The government has adopted long-term development plan to ensure uninterrupted quality power supply. Considering the impact on climate change due to increased power generation, various plans and initiatives has been taken on to increase power generation through use of sophisticated 'Ultra Super Critical' technology for coal-based power plants, and to import electricity from the neighboring countries. If the quality of electricity can be ensured, the use of liquid fuel in residential and agricultural sectors will greatly be reduced, which would play an important role in tackling the effects of climate change. International Ozone Committee gave international recognition to the climate resilient and environment friendly activities of Bangladesh for completely stopping the import and use of Ozone consuming corrosive substances.

##### 3.1.2 Increased use of renewable energy and energy saving technology

**Impact on Poverty Reduction:** With the expansion of the technology of renewable energy it would be possible to provide electricity in remote and inaccessible areas. Through implementation of solar generated power in the remote and inaccessible areas would facilitate commercial activities, establishment of small and cottage industries and also would ensure access of the deprived people of remote and inaccessible

areas to come in contact television and other media's programs on different socio-economic awareness to be self-supported. As a result, it would directly help in alleviating poverty from the country.

**Impact on Women's Advancement:** With the use of renewable energy technology and energy saving equipment, the opportunities for employment of the women will be created, as a result energy efficient and environment friendly use of power and energy could be ensured in household chores which will be helpful for improving women's standard of living. Direct participation of a large number of women in Solar Home Systems and the energy-saving advanced stove distribution program will enhance their employment opportunity and expand income sources. As a result, women's development will be increased.

**Impact on Climate Change Adaptation and Mitigation:** The power division has set targets for generating 10% electricity from renewable energy to reduce the impact of climate change. In order to ensure quality, affordable, uninterrupted power, the government has taken initiatives for electrification in the off-grid areas and replacing diesel-powered irrigation pumps with solar power by generating power from other sources as well as using renewable energy. Besides, using the power saving technology, various initiatives have been taken to convert the Simple Cycle Power Plants into Combined Cycle Power Plants. The government has started the generation of electricity from garbage in the urban areas to tackle the impact of climate change. At the same time, throughout the whole country the role of renewable energy is playing a significant role in reducing carbon emissions by improving the environment.

### 3.1.3 Transparent, accountable and efficient power sector

**Impact on Poverty Reduction:** Introducing E-service and ICT activities, implementation of pre-payment and smart metering activities, electricity bill payments on mobile phones etc. will increase the efficiency of the Power sector regarding transparency and accountability. Employment of the people will be created through implementing the mentioned activities, which will play a vital role in poverty alleviation.

**Impact on Women's Advancement:** Due to the digitalization in Power Sector, electricity bill payment through mobile phones, accepting online application for new connections, store management, ICT activities, implementation of pre-payment and smart metering activities, implementation of remote metering activities and the creation of databases increasing the efficiency of the electricity sector through transparency and accountability, energy conservation and efficient use will be ensured. As a result, establishment of newer small and cottage industries will be guaranteed with affordable electricity. These programs will facilitate women's employment and earning which will affect women's development.

**Impact on Climate Change Adaptation and Mitigation:** Power Division is implementing the Annual Performance Agreement (APA) program, introduced pre-paid metering system, digitalization of system for loss reduction, and the use of digital technology for the efficiency and transparency in the power sector. Various programs are also being implemented to encourage and motivate the people to ensure the efficient and cost-effective use of electricity. If these activities are implemented in accordance with the guideline, the overall demand for electricity will be reduced and energy will be saved in power production and for that result liquid energy-based power generation can be avoided during the peak hours or in the evening.

### 3.2 Poverty Reduction, Women's Advancement and Climate Change Related Allocation

(Taka in Thousand)

Description	Budget 2019-20	Projection	
		2020-21	2021-22
Poverty Reduction	20251,49,08	24008,33,90	26511,33,20
Gender	13863,99,64	18174,17,82	24235,26,72
Climate Change	783,69,37	817,77,72	845,08,33

#### 4.1 Priority Spending Areas/Programmes

Priority Spending Areas/Programmes	Related Strategic Objectives
1. <b>Installation of new power generation plants and rehabilitation and maintenance of existing plants:</b> Power is the pre-condition for social and economic development. At present, 90% of the total population has	<ul style="list-style-type: none"> <li>Ensuring uninterrupted and quality power supply</li> </ul>

Priority Spending Areas/Programmes	Related Strategic Objectives
<p>been brought under the coverage of electricity supply services. The government has set targets to ensure uninterrupted power generation and quality power supply to all citizens. Power Division has planned to generate 24,000 MW of power by 2021. To materialize this target, at the same time, top-most priority has been given on establishing new power plants based on gas, coal, liquid fuel, renewable and nuclear energy, to import electricity from the neighboring countries and to increase generation capacity through maintenance of the old power plants.</p>	
<p>2. <b>Construction of new transmission lines and the necessary refurbishment of existing transmission lines:</b> The construction of new transmission lines and the maintenance and capacity enhancement of the existing power grids are very important to ensure smooth transmission of power from the plants to the whole country. That is why, a plan was formulated to construct about 10,000 circuit kilometers of transmission lines by 2021. Along with the increase in generation capacity, the capacity of the transmission lines and grid stations need to be enhanced through implementation of ongoing and planned projects, to ensure that the generated uninterrupted electricity can be distributed to the consumers in time and without interruption.</p>	<ul style="list-style-type: none"> <li>• Ensuring uninterrupted and quality power supply</li> </ul>
<p>3. <b>Installation of new distribution lines and repair of existing distribution lines:</b> Government has fixed a target of electricity for all by 2021 and to meet this target has earmarked the power sector as a priority sector. Construction of new distribution lines, capacity strengthening and modernization of the existing lines are given priority. This will include resolving the present power crisis and distributing electricity in time and without interruption. About 430000 Km of distribution lines have been constructed. By constructing an additional 1,50,000 Km of distribution lines by the year 2021 also has been planned to ensure electricity supply available to all the rural population This will contribute to the increased production in agriculture, commerce and industry which will directly and indirectly play an important role to the socio-economic development of the rural people.</p>	<ul style="list-style-type: none"> <li>• Ensuring uninterrupted and quality power supply</li> </ul>
<p>4. <b>Expansion of renewable energy technology and to initiate energy conservation measures:</b> Along with generating electricity from commercial sources to create an energy-efficient power sector for improving the living standard of all the people of the country, modernization of the power sector, economic development through creating job opportunity, plans have been taken to generate electricity from renewable sources as well. In the renewable energy policy, target has been set to generate 10% of the total electricity from renewable energy and to generate 3,100 MW of electricity from renewable energy by 2021. With the development of renewable energy resources in Bangladesh, electricity will be distributed in the remote rural areas (where the expansion of grid connection will be very expensive) will accelerate the electrification process of the government to enhance the socio-economic status of the rural people and to ensure future energy security.</p>	<ul style="list-style-type: none"> <li>• Increased use of renewable energy and energy saving technology</li> </ul>
<p>5. <b>Reduce system loss and realize arrears through efficiency enhancement and ensuring accountability:</b> As power is the main driving force for socio-economic development, proper utilization, maintenance and prevention of wastage is important to meet the increasing demand for electricity. Installation of efficient and modern equipment in the transmission and distribution system and implementation of KPI system will improve electricity distribution management and enhance quality of consumer services by ensuring transparency and</p>	<ul style="list-style-type: none"> <li>• Ensuring transparency, accountability and efficiency in the power sector</li> </ul>

Priority Spending Areas/Programmes	Related Strategic Objectives
accountability. In order to reduce system loss and increase revenue, 8 lac pre-paid meters have been introduced to the distribution system till December 2017 and target has been set to install 27 lac new pre-paid meters in FY 2017-18.	
6. <b>Implementation of load management activities:</b> Through proper load management, uninterrupted supply of electricity at appropriate voltage can be ensured for irrigation pumps during the irrigation season. It is possible to save about 600 MW of electricity at peak hours by enforcing closure of shops and shopping malls by 8.00 pm and by introducing a staggering weekend system across the industries. Steps have been taken to use LED lights and power saving equipment under the energy conservation program. It will be possible to save about 400-500 MW of electricity. National Electricity and Energy Weeks are being celebrated nationwide to increase public awareness about the benefits of using efficient equipment at the consumer end. Activities are being taken to reduce the demand of electricity by implementing the energy conservation program with the use of efficient equipment. Priority is being given to ensure maximum utilization of limited resources.	<ul style="list-style-type: none"> <li>Ensuring transparency, accountability and efficiency in the power sector</li> </ul>

#### 4.2 Medium Term Expenditure Estimates and Projection (2019-20 to 2021-22)

##### 4.2.1 Expenditure by Department/Agencies/Institutional Units

(Taka in Thousands)

Description	Budget	Revised	Budget 2019-20	Projection	
	2018-19			2020-21	2021-22
Secretariat, Power Division	22933,03,00	24210,02,05	26061,55,62	27365,41,60	28733,76,43
Power Advisor and Chief Electric Inspector	2,88,00	2,68,39	3,13,38	2,50,40	2,55,57
Grand Total :	22935,91,00	24212,70,44	26064,69,00	27367,92,00	28736,32,00

##### 4.2.2 Expenditure by Economic Group

(Taka in Thousands)

Economic Group	Description	Budget	Revised	Budget 2019-20	Projection	
		2018-19			2020-21	2021-22
	Recurrent Expenditure					
3111	Wages and salaries in cash	11,08,00	9,03,83	9,65,73	10,35,50	10,84,71
3211	Administrative expenses	3,89,17	9,83,29	4,53,50	70,25	77,60
3221	Fees, charges and commissions	97,90	96,40	52,40	52,80	53,20
3231	Training	2,50,00	2,03,15	2,37,50	19,00	20,00
3243	Petrol, oil and lubricants	48,70	43,20	43,60	23,60	26,10
3244	Travel and Transfer	1,07,50	91,90	82,50	82,50	88,50
3255	Printing and stationery	53,30	3,39,25	36,50	26,35	28,85
3256	General supplies and materials	7,15	8,20	10,80	8,80	9,80
3257	Professional services, honorariums and special expenses	95,23,00	42,47,53	50,14,00	12,03,00	14,04,00
3258	Repairs and maintenance	2,60,25	2,50,60	3,02,20	2,22,30	2,24,80
3631	Current grants	22,77,00	15,85,04	19,60,01	19,11,36	21,52,43
3632	Capital grants	0	15,58,00	2,15,70	1,92,57	1,87,61
3821	Current transfers not elsewhere classified	2,50,00	0	1,20	1,50	1,50
3823	Current transfers for projects	0	0	88,87,00	207,00,00	0
3911	Reserve	561,65,58	19,58,00	301,98,04	5810,79,44	14092,43,12
	Total : - Recurrent Expenditure	705,37,55	122,68,39	484,60,68	6066,28,97	14146,02,22
	Capital Expenditure					
4111	Buildings and structures	200,99,40	0	0	0	0

Economic Group	Description	Budget	Revised	Budget	Projection	
		2018-19		2019-20	2020-21	2021-22
4112	Machinery and equipment	4371,37,80	532,17,20	1,28,57	96,58	95,00
4113	Other fixed assets	1,99,50	1,10	19,00	11,55	12,18
4141	Land	340,37,00	0	0	0	0
4211	Capital expenditure for project	0	1,00	260,94,00	260,00,00	550,00,00
4911	Reserve	38,50,00	14,75,00	9,75,00	0	0
	<b>Total : - Capital Expenditure</b>	<b>4953,23,70</b>	<b>546,94,30</b>	<b>272,16,57</b>	<b>261,08,13</b>	<b>551,07,18</b>
	<b>Assets</b>					
7215	Loans	8683,74,15	12001,82,95	14727,20,55	13075,02,90	11379,64,80
7216	Equity and investment fund shares	8593,55,60	11541,24,80	10580,71,20	7965,52,00	2659,57,80
	<b>Total : - Assets</b>	<b>17277,29,75</b>	<b>23543,07,75</b>	<b>25307,91,75</b>	<b>21040,54,90</b>	<b>14039,22,60</b>
	<b>Grand Total :</b>	<b>22935,91,00</b>	<b>24212,70,44</b>	<b>26064,69,00</b>	<b>27367,92,00</b>	<b>28736,32,00</b>

## 5.0 Key Performance Indicator (KPIs)

Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
			2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10
1. Use of electricity Per Head	1,2	KWH	450	464	500	500	550	600	650
2. People under electricity coverage	1,2	%	90	90	92	94	96	98	100
3. Reduction of system loss (transmission and distribution)	3	%	12.00	11.87	11.50	12.00	11.00	10.50	10.00
4. Power production using renewable energy as percentage of total electricity generation	2	MW	1500	2757	2000	570	450	350	300

## 6.0 Recent Achievements, Activities, Output Indicators and Targets and Expenditure Estimates of the Departments/Agencies

### 6.1 Secretariat

**6.1.1 Recent Achievement:** As a result of short, medium and long-term measures taken by the government in power sector, power generation has been increased from 4,942 MW in January 2009 to 20,854 MW in December 2018 including captive and renewable energy. In the last 10 years, 100 new power plants have been set up in the public and private sectors. Per capita electricity generation increased from 220 kW to 464 kWh including captive power. From the neighboring countries, 1,160 MW of electricity was added to the national grid through import from January 2009 to December 2018 under sub-regional cooperation. With the construction of new 2,29,000 kilometers, the distribution line has been increased to 4,89,000 kilometers. The transmission line has been increased from about 8,000 circuit kilometers to 11,396 circuit kilometers. Through public and private endeavor, the country has been able to generate about 562 megawatt of electricity from renewable energy. The number of people under electricity coverage has been increased by 47 percent to 92 percent. The number of electricity subscribers has increased to 3 crore 22 lakh with nearly 2 crore 14 lakh new connections. The overall system loss of electricity has decreased from 16.85 percent to 11.87 percent. Electricity Act 2018, Smart Pre-Prepaid Metering Guidelines and Net Metering Guidelines for Solar Power have been prepared.

**6.1.2 Activities, Output Indicators and Targets:** Not Applicable

### 6.1.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Operating Activities</b>							
<b>General Activity</b>							
1560101 - Secretariat, Power Division		7,64,50	17,07,00	17,14,01	24,98,76	28,85,22	29,04,71
<b>Total : General Activity</b>		<b>7,64,50</b>	<b>17,07,00</b>	<b>17,14,01</b>	<b>24,98,76</b>	<b>28,85,22</b>	<b>29,04,71</b>
<b>Special Activity</b>							
120000801 - Loans to Government Employees		0	0	0	12,75	16,90	19,60
127021301 - International Renewable Energy Agency	1	0	0	0	2,20	3,00	3,50
<b>Total : Special Activity</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>14,95</b>	<b>19,90</b>	<b>23,10</b>
<b>Support Activity</b>							
131017800 - Bangladesh Research council for Energy and power (BEPRC)	-	2,89,80	12,75,00	6,61,80	10,00,00	9,78,00	11,09,00
136021300 - International Renewable Energy Agency	-	1,55	2,00	0	0	0	0
<b>Total : Support Activity</b>		<b>2,91,35</b>	<b>12,77,00</b>	<b>6,61,80</b>	<b>10,00,00</b>	<b>9,78,00</b>	<b>11,09,00</b>
<b>Total : Operating Activities</b>		<b>10,55,85</b>	<b>29,84,00</b>	<b>23,75,81</b>	<b>35,13,71</b>	<b>38,83,12</b>	<b>40,36,81</b>
<b>Development Activities</b>							
<b>Annual Development Program</b>							
221000156 - Reserve for unapproved project Power Division	-	0	259,99,00	0	294,87,00	5807,42,00	14091,89,00
223010600 - * Capacity Building and Project Implementation Support for Power Sector Agencies(CBISP) (01/07/2013 - 30/06/2017)	-	18,45,23	18,24,00	8,90,00	0	0	0
223010700 - Technical Assistance Project for Development of Sustainable Energy Power Generation (SREPGen) (01/07/2014-31/12/2019)	-	3,55,45	11,05,00	11,00,00	10,38,00	0	0
223010800 - T A for Implementation of Bangladesh power sector reform (01/01/2011 - 30/06/2019)	-	18,84,58	17,70,00	17,36,00	13,50,00	0	0
223015400 - Technical Assistance for Bangladesh Power Sector Development and Capacity Building(01/07/2017-30/06/2021)		0	38,96,00	12,46,00	48,12,00	0	0
<b>Total : Annual Development Program</b>		<b>40,85,26</b>	<b>345,94,00</b>	<b>49,72,00</b>	<b>366,87,00</b>	<b>5807,42,00</b>	<b>14091,89,00</b>
<b>Total : Development Activities</b>		<b>40,85,26</b>	<b>345,94,00</b>	<b>49,72,00</b>	<b>366,87,00</b>	<b>5807,42,00</b>	<b>14091,89,00</b>
<b>Total :</b>		<b>51,41,11</b>	<b>375,78,00</b>	<b>73,47,81</b>	<b>402,00,71</b>	<b>5846,25,12</b>	<b>14132,25,81</b>

## 6.2 Office of the Electrical Adviser and Chief Electrical Inspector

**6.2.1 Recent Achievements:** Over the last 3 years, Office of the Electrical Adviser and Chief Electrical Inspector has visited 9,549 power sub-station with 50 KW or more KW user group consumers and issued permits to start operation. Electricity License Board issued 12,625 electricians technical permit with 11,071 permit renewal, issued 3,151 electrical supervisors certificates for diploma/degree engineer's with 13,687 renewals and issued 2,603 licenses for electrical contractors with 10,984 renewals.

### 6.2.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Approval of medium and high voltage electrical Sub-station	Approved Sub-station	3	No. (thousand)	3.35	3.50	3.40	3.60	3.80	3.90	4.0
2. Issuance of licenses, supervisory certificates and technical permits to electrical contractors	Issued licenses	3	No. (thousand)	15.00	20.2	15.10	15.10	21.0	21.5	22.0



### 6.2.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Operating Activities</b>							
<b>General Activity</b>							
1560201 - Power Advisor and Chief Electric Inspector	1,2	1,88,18	2,88,00	2,63,39	3,13,38	2,50,40	2,55,57
<b>Total : General Activity</b>		<b>1,88,18</b>	<b>2,88,00</b>	<b>2,63,39</b>	<b>3,13,38</b>	<b>2,50,40</b>	<b>2,55,57</b>
<b>Special Activity</b>							
120007600 - Examination Expense Management		0	0	5,00	0	0	0
<b>Total : Special Activity</b>		<b>0</b>	<b>0</b>	<b>5,00</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total : Operating Activities</b>		<b>1,88,18</b>	<b>2,88,00</b>	<b>2,68,39</b>	<b>3,13,38</b>	<b>2,50,40</b>	<b>2,55,57</b>
<b>Total :</b>		<b>1,88,18</b>	<b>2,88,00</b>	<b>2,68,39</b>	<b>3,13,38</b>	<b>2,50,40</b>	<b>2,55,57</b>

## 6.3 Bangladesh Power Development Board

**6.3.1 Recent Achievements:** Other than its own power plants, Bangladesh Power Development Board has been facilitating to increase electricity generation through IPP, small IPP, rental and quick rental power plants in order to meet the country's growing demand of electricity. The installed power generation capacity of the country in the FY 2015-16, 2016-17, FY 2017-18 total 12365 MW, 13555 MW and 15953 MW respectively with corresponding power generation of 52,193 MKWH in 2015-16, 57,276 MKWH in 2016-17 and in 62,678 MKWH in 2017-18. That is, the production of power increased by 5,083 MKWH and 5,402 KMWH.

### 6.3.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18	2018-19	2019-20	2020-21	2021-22		
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power plants	Generated additional power	1	MW (thousand)	1.935	2.245	2.251	2.879	2.688	1.074	3.463
2. Repair, maintenance, and modernization of old power plants	Repaired and maintained power plants	1	Number	4	4	4	3	4	4	4
3. Construction of power distribution lines and reconstruction, expansion and maintenance of existing distribution lines	Constructed and extended new distribution lines	1	KM (thousand)	1.985	1.709	8.241	8.562	8.656	3.100	3.210
4. Construction of new sub-stations, operation and maintenance of existing sub-stations	Constructed 33/11 KV Sub-station	1	Number	0	0	70	25	105	34	43
	Constructed 11/0.4 KV Sub-station			1388	1091	2543	4213	3207	2300	3330
5. implementation of technologies for power generation from renewable sources	Produced electricity based on renewable energy	2	MW peak	24	3.50	200	30.00	100	200	200
6. Implementation of prepayment and smart metering Scheme	Number of meters	3	Number (thousand)	853	637.67	227	150	200	200	250
7. Strengthen recovery of arrears	Reduced arrears	3	Months equivalent	2,30	2.73	2.00	2.30	2.30	2.30	2.30

### 6.3.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Development Activities</b>							
<b>Annual Development Program</b>							
224097000 - Power Distribution System Development Project, Sylhet Division (01/04/2016 - 31/03/2019)	1-7	25,00,00	250,00,00	450,00,00	400,00,00	500,00,00	0
224097002 - Power Distribution System Development Project, Cumilla Zone (01/01/2018-31/12/2021)	3	0	100,00,00	160,00,00	320,00,00	460,00,00	750,00,00
224098400 - Construction of Khulna 330 MW Dual-Fuel Combined Cycle Power Plant. (01/01/2017 - 30/06/2019)	1	50,00	210,89,00	417,15,00	146,00,00	180,00,00	145,00,00
224098600 - Power Distribution System Development Project in Three Hilly District (01/04/2017 - 31/12/2019)	1-7	0	100,00,00	170,00,00	180,00,00	70,00,00	0
224099500 - Power system Development Project Rangpur zone (01/07/2015 - 30/06/2019)	3	170,00,00	200,00,00	170,00,00	320,00,00	225,00,00	0
224099600 - Construction of Bibiyna-3 400 MW Combind Cycle Power Plant (01/07/2013 - 30/06/2019)	1-7	44,00,00	150,00,00	150,00,00	1,00	0	0
224099700 - Re-powering Project of Ghorasal 4th Unit (01/07/2016-30/06/2019)	1-7	531,74,14	360,00,00	285,00,00	265,00,00	20,00,00	0
224100400 - Installation of 5 MW Solar Photovoltike (P/V) Grid Connected Power Generation at Kaptai. (01/03/2012 - 31/12/2017)	1	4,91,13	10,39,00	39,61,00	0	0	0
224100500 - Solar Street Lighting Programme in City Corporation. (01/01/2012-31/12/2017) Revised Non Approved	3	14,32,00	51,00,00	78,41,00	0	0	0
224100800 - Conversion of 2X35 MW Shajibazar gas turbine power plant into combined cycle through addition of 35 MW steam turbine (01/01/2013 - 31/12/2016)	1-4	0	93,00,00	1,00	0	0	0
224100900 - Conversion of Bagabari 100 MW gas turbine power plant into 150 MW combined cycle power plant (01/01/2013-31/12/2016)	1-4	0	102,00,00	1,00	0	0	0
224101100 - Construction of Shikolbaha 225 Mega Watt Dual Fuel Combined Power Plant (01/01/2012-30/06/2017)	1-4	287,55,00	1,00	125,66,00	0	0	0
224101500 - Pre-payment Mattering for Distribution Cumilla and Mymonsing (01/07/2013 - 31/12/2017)	6	2,00,14	45,00,00	16,39,00	18,10,00	80,00,00	0
224101600 - Construction of Khulna coal based power plant connecting road (01/01/2014 - 31/12/2017)	1,2	30,00,00	95,00,00	95,00,00	0	0	0
224102400 - Power Distribution system Development Project Chattogram Zone (01/07/2013-30/06/2018)	3	150,00,00	180,00,00	270,00,00	200,00,00	175,00,00	0
224102800 - Ghorashal-3 Repairing Project (01/01/2015-31/12/2017)	2	50,00,00	5,00,00	0	0	0	0
224102900 - Rajshahi Power System Development Project (01/07/2015-30/06/2018)	3	206,80,00	130,00,00	190,00,00	200,00,00	0	0
224103800 - Extension of Bara Pukuria 250 MW Coal Fired Thermal Power Station (3rd Unit) (01/12/2013 - 30/11/2017)	1	74,00,00	120,00,00	99,50,00	0	0	0
224114800 - Construction of Land Development and Boundary Wall of Babubo own land in Keraniganj (July, 2017 - December, 2018)	1	0	30,00,00	38,84,00	0	0	0
224114900 - Power Distribution System Development Project, Mymensingh Zone (January, 2018 - December, 2021)	3	0	130,00,00	150,00,00	350,00,00	350,00,00	700,00,00
224135000 - Land Acquisition for Moheshkhali Power Hub	1	0	80,11,00	80,11,00	40,00,00	0	0
224265700 - Power Distribution System Development chattogram Zone 2nd Phase	3	0	0	1,94,00	200,00,00	300,00,00	1905,00,00

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
224277700 - Construction of Saidpur 150 MW $\pm$ 10% Simple Cycle (HSD based) Power Plant Project.	1	0	0	16,00	100,00,00	140,00,00	0
<b>Total : Annual Development Program</b>		<b>1590,82,41</b>	<b>2442,40,00</b>	<b>2987,79,00</b>	<b>2739,11,00</b>	<b>2500,00,00</b>	<b>3500,00,00</b>
<b>Total : Development Activities</b>		<b>1590,82,41</b>	<b>2442,40,00</b>	<b>2987,79,00</b>	<b>2739,11,00</b>	<b>2500,00,00</b>	<b>3500,00,00</b>
<b>Total :</b>		<b>1590,82,41</b>	<b>2442,40,00</b>	<b>2987,79,00</b>	<b>2739,11,00</b>	<b>2500,00,00</b>	<b>3500,00,00</b>

## 6.4 Bangladesh Rural Electrification Board

**6.4.1 Recent Achievements:** During the last three years (2015-16, 2016-17, 2017-18), the Rural Electrification Board constructed 1,23,000 KM distribution line and 159 new sub-stations through 80 Rural Electrification Associations and provided electricity connections to 105 lakh consumers. This brought 20,371 villages under rural electrification activities with 100% electricity coverage in 253 Upazila. In addition, through renewable energy technology in the off-grid areas, 12,970 solar home systems and 05 solar charging stations were set up where electricity supply is not possible through grid system. System loss has been reduced from 13.70% to 11.44%.

## 6.4.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of power distribution lines and reconstruction, expansion and maintenance of existing distribution lines	Extended distribution lines	1	KM	47992	54886	50000	50000	50000	40000	40000
2. Construction of new sub-stations, operation and maintenance of existing sub-stations	Constructed sub-station	1	Number	148	127	130	130	80	50	50
3. Implementation of technologies for power generation from renewable sources.	Produced electricity based on renewable energy	4	KW peak	2000	1362	2700	3300	5700	4000	5000
4. Implementation of prepayment and smart metering programme	Number of smart meters	1	Number (thousand)	40	42.5	1700	50	1000	1000	1000
5. strengthen the recovery of arrears	Reduced arrears	1	Months equivalent	1.25	1.12	1.25	1.25	1.25	1.25	1.25

## 6.4.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
223011100 - Technical Assistance Project for Institutional Strengthening of Rural Electrification Program (01/07/2015 - 30/06/2019)	1-2	5,51,16	13,00,00	10,73,00	20,00,00	0	0
223032800 - Translating Electricity Supply into Improvements of Rural Households. (01/07/2018-31/12/2020)	1	0	0	68,00	7,25,00	10,00,00	0
224096800 - Rural Electrification Expansion Program in Sylhet Division and Infrastructure Development of BREB Headquarter (01/01/2016 - 31/12/2018)	1-3	118,23,00	425,00,00	400,00,00	200,00,00	200,00,00	0
224097900 - Up gradation, Rehabilitation and Intesification of Distribution System (Dhaka, Mymensingh, Chattogram & Sylhet Division) (01/07/2016 - 30/06/2019)	1-3	1,00	900,00,00	970,34,00	525,00,00	320,00,00	0
224098000 - Up-gradation, Rehabilitation and Intensification of Distribution System (Rajshahi, Roangpur, Khulna and Borisal Division) Approved (01/07/2016-30/06/2019)	1-3	1,00	750,00,00	696,06,00	510,00,00	480,00,00	0

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
224099200 - Pr-Payment e-Metering in Dhaka Division under Rural Electrification Program (Phase-I) (01/07/2015 - 30/06/2018)	1-5	1,00	196,03,00	186,03,00	44,00,00	0	0
224099400 - 1.5 Million Consumer Connection Through Rural Electrification Expansion. (01/01/2016 - 31/12/2018)	1-5	1817,34,00	1398,81,00	1548,81,00	1450,00,00	0	0
224100000 - Replacement of 70,000 NOS Overloaded Distribution Transformer Under Rural Electrification Program (01/01/2016-31/12/2017)	1-5	29,05,50	295,00,00	284,90,00	0	0	0
224101900 - Up-gradation of Rural Electricity Distribution System (Dhaka Chattogram & Sylhet Division) Project (01/07/2014 - 30/06/2018)	1-3	707,39,94	750,00,00	750,00,00	750,00,00	0	0
224102000 - Rural Electrification Expansion Dhaka Division Program-2 (01/07/2014-30/06/2018) Approved	1-3	473,00,00	225,00,00	140,00,00	1,00	0	0
224102100 - Rural Electrification Expansion Chattogram Division Program-2 (01/07/2014-30/06/2018) Approved	1-5	480,00,00	210,00,00	130,00,00	1,00	0	0
224102200 - Rural Electrification Expansion Rajshahi-Rangpur Division Program-2 (01/07/2014 - 30/06/2018)	1-5	367,71,00	178,78,00	169,85,00	0	0	0
224102500 - Rural Electrification Expansion Barishal Division Program-2 (01/07/2014 - 30/06/2018)	1-5	209,00,00	57,20,00	42,58,00	0	0	0
224102600 - Rural Electrification Expansion Khulna Division Program-2 (01/07/2014-30/06/2018)	1-2	242,00,00	77,50,00	62,45,00	0	0	0
224120700 - Distribution Network Expansion for 100% Rural Electrification (Dhaka, Mymensingh, Chattogram and Sylhet Division)	1	0	1000,00,00	1966,00,00	1573,00,00	2600,00,00	0
224120800 - Distribution Network Expansion for 100% Rural Electrification (Rajshahi, Rangpur, Khulna and Barishal Division)	1	0	1000,00,00	1764,85,00	1573,00,00	2600,00,00	0
224244900 - Solar Photo voltaic Pumping for Agricultural Irrigation	3	0	0	2,36,00	55,00,00	345,00,00	0
224264800 - Emergency Assistance Project-BREB Component (Electrification for Displaced Myanmar Nationals in Cox's Bazar)	1	0	0	19,00,00	65,00,00	0	0
<b>Total : Annual Development Program</b>		<b>4449,27,60</b>	<b>7476,32,00</b>	<b>9144,64,00</b>	<b>6772,27,00</b>	<b>6555,00,00</b>	<b>0</b>
<b>Total : Development Activities</b>		<b>4449,27,60</b>	<b>7476,32,00</b>	<b>9144,64,00</b>	<b>6772,27,00</b>	<b>6555,00,00</b>	<b>0</b>
<b>Total :</b>		<b>4449,27,60</b>	<b>7476,32,00</b>	<b>9144,64,00</b>	<b>6772,27,00</b>	<b>6555,00,00</b>	<b>0</b>

## 6.5 Power Grid Company of Bangladesh (PGCB)

**6.5.1 Recent Achievements:** In recent years, Tripura (India) - Comilla (Bangladesh) grid interconnection, Bheramara (Bangladesh) - Baharampur (India) existing grid interconnection capacity enhancement (500 MW) work, Goalparha-Bagerhat 132 KV transmission line under 3 projects have been completed. Over the last 3 years 533 km 400 KV, 171 cktkm 230 KV and 721 cktkm 132 KV transmission lines have been added to the national grid. Besides, one 500 MW HVDC station, two 400/230 KV, one 400/132 KV, one 230/132 KV and seven 132/33 KV sub-stations were constructed. As a result, in the last 3 years, about 500Mw HVDC and 8,564 MVA capacity increased and 1,425 cktkm transmission line being added to the ckt km line have been added to the national grid. Load management activities are implemented and monitored by the Load Management Centre upload power generation and load-shedding information on its website every day.

## 6.5.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new transmission lines and managing and maintenance of existing transmission lines	Constructed transmission line	1	Circuit KM (thousand)	0.5	0.432	1.20	0.450	0.400	0.450	0.700

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
2. Construction of new grid sub-stations and expansion of existing grid sub-stations	Constructed new grid substation	1	Number	8	6	20	12	15	20	20
3. Reducing system Loss	Reducing Transmission Loss	1	%	2.65	2.60	2.80	2.75	2.80	2.80	2.80
4. Strengthening the recovery of arrears of electricity bills	Reduced arrears	3	Months equivalent	<1.50	2.49	<1.50	2.00	<1.50	<1.50	<1.50

### 6.5.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
223010900 - Institutional Strengthening of PGCB (01/01/2016-30/06/2019)	1-4	0	20,72,00	20,72,00	6,13,00	0	0
224097500 - Energy Efficiency in Grid Based Power Supply Project (01/01/2017 - 30/06/2021)	1-4	11,00,00	106,11,00	45,00,00	199,00,00	500,00,00	0
224097600 - Dhaka-Chattogram Main Power Grid Strengthening Project (01/07/2016 - 31/12/2020)	1-4	34,01,46	175,00,00	250,00,00	760,00,00	503,86,00	686,37,00
224097700 - Matarbari Ultra Super Critical Coal-Fired Power Project (II) (PGCB) Part: Matarbari-Madhunaghat 400 KV Transmission Line (01/07/2017 - 31/12/2020)	1-2	0	180,00,00	95,00,00	293,00,00	333,06,00	39,08,00
224098300 - Power Grid Network Strengthening Project under PGCB (01/10/2016 - 30/06/2021)	1	0	795,86,00	745,86,00	1407,00,00	500,00,00	886,74,00
224098700 - Construction of Patuakhali-Payra 230 KV Transmission Line. (01/01/2017 - 30/06/2019)	1	0	240,45,00	236,00,00	34,49,00	0	0
224098900 - Western Grid Network Development Project (01/01/2016 - 30/06/2019)	1-4	32,87	290,00,00	250,00,00	140,00,00	0	0
224099800 - Aminbazar, Mawa & Mongla 400 KV Conduction Line (01/07/2016-30/06/2020)	1-4	21,45,75	255,00,00	220,00,00	500,00,00	531,41,00	261,25,00
224100200 - National Power Transmission Development Project (01/01/2013 - 31/12/2019)	1	347,90,26	745,00,00	625,00,00	455,00,00	500,00,00	0
224100700 - 400/230/132 kV Network Development Project (01/07/2013 - 30/06/2017)	1-4	151,56,70	395,00,00	325,05,00	600,00,00	610,00,00	0
224102700 - Ashugonj-Bhulta 400 KV Transmission Line Project (01/07/2014 - 30/06/2018)	1-4	340,00,00	3,00,00	4,40,00	0	0	0
224103000 - Capacity Upgradation of the Exiting Bangladesh (Bheramara)- India Bharampur Greed Interconnection Project (01/01/2015 - 30/06/2019)	1-4	167,31,11	236,07,00	238,86,00	0	0	0
224103500 - 132 KV Grid Newtwork Development Porject in Eastern Region (01/01/2013 - 30/06/2017)	1	313,91,96	70,00,00	50,00,00	0	0	0
224103900 - Enhancement of Capacity of Grid Substations and Associated Transmission Lines (Phase-I) (01/07/2014 - 31/12/2017)	1-4	113,24,09	150,00,00	160,00,00	80,00,00	0	0
224120900 - Construaction of Bakerganj-Barguna 132KV Transmission Line and Barguna 132/33KV Substation.	1	0	70,00,00	57,00,00	44,00,00	0	0
224126900 - Construction of Patuakhali (Payra) Gopalganj 400 KV Transmission Line & Gopalganj 400 KV Grid Substation	1,2	53,06,00	1036,47,00	1079,00,00	620,00,00	11,00,00	0
224134300 - Development of Transmission Infrastructure at Mirsharai Economic Zone for Reliable Power Supply.	1	0	108,00,00	76,50,00	100,00,00	185,67,00	0
224134400 - Bangladesh Power System Reliability and Efficiency Improvement Project.	3,4	0	39,00,00	8,50,00	37,14,00	442,40,00	0

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
224134600 - Construction Bheramara (Bangladesh) Bhahampur (India) 2nd 400 KV Transmission (Bangladesh Portion)	1	0	120,00,00	99,75,00	28,85,00	0	0
224231100 - Enhancement and Strengthening of Power Network in Eastern Region	1,2	0	46,00,00	12,00	240,00,00	212,25,00	235,59,00
224247900 - Replacement of Ashuganj Old 132 kV AIS Substation by New 132 kV GIS Substation Project	2	0	0	1,00	30,00,00	369,55,00	0
224248000 - Infrastructure Development for Power Evacuation Facilities of Rooppur Nuclear Power Plant	1	0	0	1,00	28,00,00	600,00,00	700,00,00
224248100 - Construction of 500 MW HVDC Back to Back Station at Comilla North (Bangladesh) for Transfer of Power through Surjamaninagar (Tripura, India) - Comilla North (Bangladesh)	2	0	0	1,00	135,10,00	0	0
224248200 - Southwest Transmission Grid Expansion Project	2	0	0	259,09,00	140,00,00	200,00,00	500,00,00
<b>Total : Annual Development Program</b>		<b>1553,80,20</b>	<b>5081,68,00</b>	<b>4845,88,00</b>	<b>5877,71,00</b>	<b>5499,20,00</b>	<b>3309,03,00</b>
<b>Total : Development Activities</b>		<b>1553,80,20</b>	<b>5081,68,00</b>	<b>4845,88,00</b>	<b>5877,71,00</b>	<b>5499,20,00</b>	<b>3309,03,00</b>
<b>Total :</b>		<b>1553,80,20</b>	<b>5081,68,00</b>	<b>4845,88,00</b>	<b>5877,71,00</b>	<b>5499,20,00</b>	<b>3309,03,00</b>

## 6.6 Dhaka Power Distribution Company (DPDC) Ltd.

**6.6.1 Recent Achievements:** DPDC has installed 2.82 lakh pre-payment meters at consumers household. It has also started commercial function of 06 (Luxmi Narayan Cotton Mill, Prime Textile Nandalapur, Dapa, Banasree, Mondalpara and Mugdapara 2x28/35 MVA) 33/11 KV sub-station. A 50/75 MVA power transformer is replaced with 80/120 power transformer at Dhanmondi grid sub-station and a 10/14 MVA transformer is installed at Shyampur 33/11 KV sub-station. The newly introduced DPDC e-auction earned the prestigious BASIS ICT award in 2018. DPDC got the 1<sup>st</sup> prize in Innovation Showcasing Program 2018. In its area, DPDC has provided connections to 79,285 new consumers in FY 2017-18 and 322.06 cktkm distribution line was constructed. System loss has been reduced to 7.41%%. In FY 2017-18, 13,370 officials and employees of DPDC have received 'in-house' and 'on the job' training and also were trained under other training program of DPDC.

## 6.6.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18	2018-19	2018-19	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power distribution lines and reconstruction, expansion and maintenance of existing distribution lines	Constructed, repaired and maintained distribution lines	1	KM	120	322.06	40	150	171	175	180
2. Construction of new sub-stations, operation and maintenance of existing sub-stations	Constructed of sub-station	1	MVA	100	131	720	390	480	720	480
3. Implementation of technologies for power generation from renewable sources	Installed of Solar Panel	2	KW (peak)	500	220	500	500	200	200	200
4. Implementation of prepayment and smart metering programme	Installed of pre-payment and smart meters	3	Number (thousand)	40	205645	131.00	100.00	144500	325000	325000
5. Strengthen the recovery of arrears	Reduced amount of arrears	3	months	1.90	1.68	1.80	1.80	1.75	1.70	1.65

### 6.6.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
224097800 - Expansion and Strengthening of Power System Network under DPDC Area (01/07/2016-31/12/2021) Approved	1-5	0	702,00,00	700,01,00	2108,74,00	1888,01,00	1728,98,00
224099900 - Construction & Expansion of Distribution Network of North & South Zone under DPDC (01/07/2013-30/06/2018) Approved	1-5	104,10,77	10,00	1,91,00	0	0	0
224103600 - Prepayment Metering Project for 6 Division under DPDC (01/07/2013 - 31/12/2017)	4	1,04,99	44,00,00	13,82,00	16,09,00	0	0
224103700 - Construction of new 132/33 KV & 33/11 kV Sub-station under DPDC (01/07/2013 - 30/06/2019)	1-5	258,66,16	485,00,00	460,00,00	228,62,00	0	0
224249800 - Dhaka Underground Substation Construction Project at Kawranbazar under DPDC	2	0	0	1,00	20,00,00	77,82,00	254,46,00
224265400 - Power Distribution System Development Project under DPDC area.	2	0	0	1,00	124,80,00	651,02,00	932,63,00
224265600 - Installation of Eight Lakh and Fifty Thousand Smart Pre-payment Meters under DPDC Area.	2	0	0	1,00	100,00,00	383,15,00	83,93,00
<b>Total : Annual Development Program</b>		<b>363,81,92</b>	<b>1231,10,00</b>	<b>1175,77,00</b>	<b>2598,25,00</b>	<b>3000,00,00</b>	<b>3000,00,00</b>
<b>Total : Development Activities</b>		<b>363,81,92</b>	<b>1231,10,00</b>	<b>1175,77,00</b>	<b>2598,25,00</b>	<b>3000,00,00</b>	<b>3000,00,00</b>
<b>Total :</b>		<b>363,81,92</b>	<b>1231,10,00</b>	<b>1175,77,00</b>	<b>2598,25,00</b>	<b>3000,00,00</b>	<b>3000,00,00</b>

### 6.7 Dhaka Electric Supply Company (DESCO) Ltd.

**6.7.1 Recent Achievement:** Dhaka Electricity Supply Company Ltd. (DESCO) has started operation of an ultra-modern 132/33/11 GIS grid sub-station at Uttara on 24/10/2018. DESCO has built a 1.20 double cktkm 132 KV underground transmission line in Uttara Sector 18. It has installed 76,561 pre-payment meters in FY 2017-18 and the total number of installed meter is 2.10 lakh. In the same year, DESCO has received the third recognition memorandum as the best institution for implementing 100 percent of the Annual Development Program. In the 'Innovation Showcasing 2018' competition DESCO got the third prize for the software that informs the consumers about future power through SMS. Since June 2018, number of total customer of DESCO has reached to 8,80,505 system loss has been reduced to 7.18%, and bill recovery reached to 101.74%. As a result, DESCO was able to make an after-tax profit of Tk. 67.86 Crore in FY 2017-18.

### 6.7.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power distribution lines and reconstruction, expansion and maintenance of existing distribution lines	Constructed, reconstructed and maintained distribution lines	1	KM	150	257.25	162	220	180	150	150
2. Construction of new sub-stations, operation and maintenance of existing sub-stations	Constructed new sub-stations	1	MVA	100	126	150	740	150	100	100
3. Implementation of technologies for power generation from renewable sources	Installed Solar Panel	2	MW (peak)	6.00	4.49	7.00	5.00	7.25	7.50	7.50
4. Implementation of prepayment and smart metering programme	Installed pre-payment, remote meters	3	Number (thousand)	40.00	76.56	50.00	100.00	100.00	100.00	100.00
5. Strengthen the recovery of arrears	Reduced arrears	3	Months equivalent	1.70	1.62	1.65	1.70	1.60	1.55	1.50

### 6.7.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
224097300 - Augmentation & Rehabilitation of 132/33/11 KV Grid Substation at Uttara and Bashundhara under DESCO (01/07/2016 - 30/06/2019)	1-2	0	170,00,00	153,50,00	40,00,00	0	0
224097400 - Installation, Upgradation and Conversion of Existing 33 KV Overhead line into Underground Cables in DESCO Area (01/07/2016 - 30/06/2019)	1	0	250,60,00	271,03,00	60,00,00	0	0
224100001 - Augmentation & Reahabilitation distribution System in DESCO Area (01/07/2013 - 30/06/2017)	1-5	112,47,86	290,00,00	255,00,00	110,00,00	50,00,00	0
224100300 - Instalation of Suversivory Control and Data Acquisition (SCADA) System in DESCO Areas (01/01/2016-30/06/2019)	1-5	0	11,00,00	7,61,00	58,70,00	170,00,00	0
224100600 - Construction of 132/33/11 KV Grid substations in DESCO Area. (01/07/2013 - 30/06/2017)	1-5	189,44,10	190,00,00	150,00,00	20,00,00	10,00,00	0
224249900 - Construction of 132/33/11 KV Underground Grid Substation at Gulshan in Dhaka	2	0	0	1,00	15,00,00	210,00,00	550,00,00
224265500 - Supply and Installation of Smart Pre-Payment Meter in DESCO Area	4	0	0	1,00	20,00,00	60,00,00	0
<b>Total : Annual Development Program</b>		<b>301,91,96</b>	<b>911,60,00</b>	<b>837,16,00</b>	<b>323,70,00</b>	<b>500,00,00</b>	<b>550,00,00</b>
<b>Total : Development Activities</b>		<b>301,91,96</b>	<b>911,60,00</b>	<b>837,16,00</b>	<b>323,70,00</b>	<b>500,00,00</b>	<b>550,00,00</b>
<b>Total :</b>		<b>301,91,96</b>	<b>911,60,00</b>	<b>837,16,00</b>	<b>323,70,00</b>	<b>500,00,00</b>	<b>550,00,00</b>

### 6.8 Electricity Generation Company of Bangladesh (EGCB) Ltd.

**6.8.1 Recent Achievements:** Since 01-05-2018, Siddhirganj 335 MW combined cycle power plant is supplying 217.85 MW power to the national grid from simple cycle. On 27/12/2015 a 36 kW peak solar power station has been established on the roof of a school building. In Sonagazi of Feni district, 999.65 acres of land was acquired for setting up a 100 MW wind power plant and a 100 MW solar power plant and the Gazette notification was published on 19-10-2017. In order to acquire 300 acres of land in Munshiganj, the proposal for acquisition of land has been sent to the Ministry of Land on 07-06-2018 from the Deputy Commissioner's Office. DPP has been approved by ECNEC on 07/11/2018 for the construction of a 50 MW solar power plant in Sonagazi of Feni district.

### 6.8.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power plants	Generated additional electricity from new power plants	1	MW	0	217.85	218	0	118	50	50
2. Repair, maintenance and modernization of old power plants	Repaired old power plants	1	Number	1	1	1	1	1	1	1
3. Implementation of e-service and ICT activities	Implementation of ICT activities	5	Number	1	1	1	1	1	1	1

### 6.8.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
222001100 - Land Acquisition, Resettlement, EIA and Feasibility Study for Improvement of 2x600 MW Ultra Super Critical Coal Based Power Plant	1	216,95,00	137,00,00	1,00	0	0	0



Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
Project at Pekua, Cox's Bazar under EGCB Ltd. (01/01/2016-30/06/2018)							
224098500 - Land acquisition and resettlement for implementation of Munshigonj 300-400 MW Super Critical Coal based power plant project (01/07/2016 - 30/06/2018)	1	0	100,00,00	180,00,00	0	0	0
224099000 - New Haripur Power Plant Development Project (Long Term Service Agreement & Other Support Services for Haripur 412MW Combined Cycle Power Plant (01/07/2015 - 30/06/2018)	1	19,95,45	113,00,00	22,75,00	0	0	0
224103300 - Sidhirgonj 2x150 MW gas turbine peaking power plant construction project. (01/01/09 - 30/06/17)	1	47,51,41	60,00,00	165,00,00	170,00,00	0	0
<b>Total : Annual Development Program</b>		<b>284,41,86</b>	<b>410,00,00</b>	<b>367,76,00</b>	<b>170,00,00</b>	<b>0</b>	<b>0</b>
<b>Total : Development Activities</b>		<b>284,41,86</b>	<b>410,00,00</b>	<b>367,76,00</b>	<b>170,00,00</b>	<b>0</b>	<b>0</b>
<b>Total :</b>		<b>284,41,86</b>	<b>410,00,00</b>	<b>367,76,00</b>	<b>170,00,00</b>	<b>0</b>	<b>0</b>

## 6.9 Ashuganj Power Station Company Limited (APSCCL)

**6.9.1 Recent Achievements:** On 22/07/2018 APPSL's Ashuganj 450 MW CCPP (South) project started production of electricity. Ashuganj 450 MW CCPP (North) project started commercial production in June 2017. DPP has been approved by ECNEC in October, 2018 for land acquisition; land development and conservation of the 1,320 MW Super Thermal Power Plant in Kalapara, Patuakhali. Through private placement, APSCCL has got approval on April 12, 2018, from BSEC for withdrawing bonds worth BDT 500 crore. The installed capacity of APSCCL is 1,876 MW and production capacity has been upgraded to 1,627 MW. Through ADB and IDB finance, contract of the 400 MW CCPP (Eastern) has been signed with EPC contractor Consortium of CNTIC-COOEC on March 20, 2018.

## 6.9.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power plants	Generated additional electricity	1	MW	0	0	0	0	284	136	0

## 6.9.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/ Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
224099300 - Construction of Ashuganj 400 (+4%)MW Combined Cycle Power Plant (East) (01/07/2015 - 30/06/2020)	1	0	315,00,00	36,00,00	525,00,00	535,00,00	278,00,00
<b>Total : Annual Development Program</b>		<b>0</b>	<b>315,00,00</b>	<b>36,00,00</b>	<b>525,00,00</b>	<b>535,00,00</b>	<b>278,00,00</b>
<b>Total : Development Activities</b>		<b>0</b>	<b>315,00,00</b>	<b>36,00,00</b>	<b>525,00,00</b>	<b>535,00,00</b>	<b>278,00,00</b>
<b>Total :</b>		<b>0</b>	<b>315,00,00</b>	<b>36,00,00</b>	<b>525,00,00</b>	<b>535,00,00</b>	<b>278,00,00</b>

## 6.10 West Zone Power Distribution Company Limited

**6.10.1 Recent Achievements:** In last Three years construction of 11 KV distribution line of 114 KM, rehabilitation of 11 KV distribution line of 145 KM, and construction of 175 KM of 11/0.4 KV rehabilitation line, 85 KM of 11/0.4 KV, construction work of 105 KM of 0.4 KV distribution line and, 90 KM of 0.4 KV distribution line rehabilitation work were completed and a total of 875 distribution transformers has been installed.

### 6.10.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power distribution lines and reconstruction, expansion and maintenance of existing distribution lines	Constructed lines	1	KM	1250	244.50	800	285	300	300	300
2. Construction of new sub-stations, operation and maintenance of existing sub-stations	Constructed and rehabilitated new & old sub-station	1	Number	32	96.48	32	80	129.14	205	300
3. Implementation pre-payment and smart meters	Number of meters installed	3	Number (thousand)	35.00	35.55	449.00	50.00	100.00	200.00	100.00
4. Strengthen the recovery of arrears	Reduced arrears	3	Months equivalent	1.90	2.31	1.90	1.90	1.90	1.90	1.90
5. Reducing System Loss	Reduced system loss	3	%	9.40	9.24	9.35	9.35	9.30	9.25	9.24

### 6.10.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
223014400 - Smart Pre-Payment Metering Project for West Zone Power Distribution Company Ltd. (WZPDCL)(01/07/2017-30/06/2020)	3	0	225,00,00	78,09,00	178,61,00	150,00,00	0
224097200 - Expansion and Up-gradation of Power Distribution system Project in west Zone Area (01/07/2016 - 30/06/2019)	1-6	20,00,00	400,00,00	200,00,00	150,00,00	393,00,00	340,00,00
224102300 - Strengthening Power Distribution System Project (01/07/2014-30/06/2018) Approved	1-6	200,00,00	250,00,00	133,25,00	200,00,00	57,00,00	0
224148300 - Extension & Augmentation of Power Distribution System Project in West Zone Area	1	0	125,00,00	187,66,00	200,00,00	400,00,00	640,00,00
<b>Total : Annual Development Program</b>		<b>220,00,00</b>	<b>1000,00,00</b>	<b>599,00,00</b>	<b>728,61,00</b>	<b>1000,00,00</b>	<b>980,00,00</b>
<b>Total : Development Activities</b>		<b>220,00,00</b>	<b>1000,00,00</b>	<b>599,00,00</b>	<b>728,61,00</b>	<b>1000,00,00</b>	<b>980,00,00</b>
<b>Total :</b>		<b>220,00,00</b>	<b>1000,00,00</b>	<b>599,00,00</b>	<b>728,61,00</b>	<b>1000,00,00</b>	<b>980,00,00</b>

### 6.11 North West Zone Power Generation Company Limited

**6.11.1 Recent Achievements:** “Up-gradation of Khulna 150 MW PPP to 225 MW CCPP” project has supplied 75 MW of power to the national grid without additional energy since June 2016. Sirajganj 225 MW power plant (2nd Unit) project has got COD in February 2018. Sirajganj 225 MW power plant (3rd Unit) project has got COD. Constructed under Development Program, the Bheramara combined cycle (360 MW) is adding 410 MW power to the national grid from its dual-fuel power station since December 2017. EPC contractor for the Modhumati 105 MW HFO has been appointed.

### 6.11.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power plants	Increased power generation	1	MW (thousand)	351.50	351.50	320.00	580.00	1370.00	530.00	270.00

### 6.11.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
224237100 - Rupsha 800 MW Combined Cycle Power Plant Project	1	0	0	286,00,00	298,00,00	480,00,00	550,00,00
224243000 - Long Term Service Agreement for Bheramara Combined Cycle Power Plant	1	0	0	80,00,00	85,00,00	20,00,00	50,00,00
224251500 - Payra 1320 MW Thermal Power Plant Connecting Road and its Associated Infrastructure Construction Project.	1	0	0	1,00	60,00,00	0	0
<b>Total : Annual Development Program</b>		<b>0</b>	<b>0</b>	<b>366,01,00</b>	<b>443,00,00</b>	<b>500,00,00</b>	<b>600,00,00</b>
<b>Total : Development Activities</b>		<b>0</b>	<b>0</b>	<b>366,01,00</b>	<b>443,00,00</b>	<b>500,00,00</b>	<b>600,00,00</b>
<b>Total :</b>		<b>0</b>	<b>0</b>	<b>366,01,00</b>	<b>443,00,00</b>	<b>500,00,00</b>	<b>600,00,00</b>

### 6.12 Coal Power Generation Company Bangladesh Limited

**6.12.1 Recent Achievement:** Till now, the physical advancement is 17.76% and financial advancement is 19.71% of the construction work of Matarbari 2x600 MW ultra-super critical coal fired power plant project. In order to facilitate the project, a 7 meters deep, 100 meter wide and 2,750 meter long channel has been excavated. Regular compensation delivery is being handed over to the affected people under a joint venture with the local NGOs to implement RAP for the rehabilitation of the people of the project area. Land acquisition and preservation of Bangladesh-Singapore 700 MW ultra super critical coal-based power plant project is going on. A total of 1,197 acres of land has been acquired and feasibility study of the project has been completed. Wind mapping feasibility study project has been completed to set up a wind powered power plant at Matarbari Island.

### 6.12.2 Activities, Output Indicators and Targets:

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new Power Plants	Constructed new power plant	1	MW Thousand	485130.00	487722.00	227300.00	338156.50	443845.12	632458.88	757767.63

### 6.12.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects: Not Applicable

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
222001000 - Feasibility study, Land Acquisition and Protection for Bangladesh-Singapore 700 MW. Ultra Super Critical Coal base Power Plant (01/01/2016 - 30/06/2020)	1	40,00,00	100,00,00	25,00,00	100,00,00	103,18,00	0
222001200 - Feasibility Study for Installation of Wind Firm in Matarbari Island(01/01/2017-30/06/2019)	1	0	1,51,00	1,51,00	0	0	0
224101400 - Matarbari Coal Fired Power Plan Project (01/07/2014-30/06/2023)	1	466,09,34	2171,49,00	2827,00,00	3056,00,00	0	0
224279500 - Land Acquisition and related activities for Construction of CPGCBL-Sumitomo 1200 MW Ultra Supercritical Coal Fired Power Plant	1	0	0	1,00	1000,00,00	0	0
224279600 - To Conduct Feasibility Study for Installation of 500-600 MW LNG Based Combined Cycle Power Plant along with Gas Transmission Line Construction	1	0	0	4,00,00	113,00,00	0	0
<b>Total : Annual Development Program</b>		<b>506,09,34</b>	<b>2273,00,00</b>	<b>2857,52,00</b>	<b>4269,00,00</b>	<b>103,18,00</b>	<b>0</b>
<b>Total : Development Activities</b>		<b>506,09,34</b>	<b>2273,00,00</b>	<b>2857,52,00</b>	<b>4269,00,00</b>	<b>103,18,00</b>	<b>0</b>
<b>Total :</b>		<b>506,09,34</b>	<b>2273,00,00</b>	<b>2857,52,00</b>	<b>4269,00,00</b>	<b>103,18,00</b>	<b>0</b>

### 6.13 Sustainable and Renewable Energy Development Authority (SREDA)

**6.13.1 Recent Achievements:** Among the recent achievements of SREDA includes establishing a power plant with 275 MW generation capacity from renewable energy, installed 5.2 million solar home systems, implementation of 11 solar mini grid projects, distribution of 5,000 solar home among the poor people of CHT region and replacement of diesel powered water pump used for agricultural purpose by 999 solar irrigation pumps. SREDA has launched the central database for updating energy related information. "Energy Conservation Awareness Schooling Program" in 50 schools has been carried out. At present, the school, college, and madrasa textbooks include "Education of energy efficiency and conservation". This institution is inventing innovative and economic fuel efficient cooking stove models and engaged in marketing throughout the country. City Corporation and municipal road lamps are being replaced with LED lights and has prepared Country Action Plan for Clean Cooking Stove.

#### 6.13.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Formulation and supervision of policy relating to production of electricity through renewable energy	Formulation of planning Prepared Documents/Rules/Regulations/Guidelines are being prepared	2	number	2	2	2	1	1	1	1
	Distribution of Solar Home System		No.	400000	4500000	660000	5000000	6000000	6000000	6000000
	Installation of Solar Mini-grid		number	7	3	7	5	7	5	5
	Installation of solar Irrigation System			130	800	400	1000	1200	1200	1200
	Establishment of Solar Park		MW	10	0	40	3	5	6	4
	Installation of Solar Rooftop			20	39	20	14	30	30	30
	Construction of Bio-gas Plant		number	500	45000	500	50000	60000	60000	60000
	Construction of Bio-gas to Electricity Pant			6	2	3	3	5	8	10

#### 6.13.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Operating Activities</b>							
<b>Support Activity</b>							
131017900 - Sustainable and Renewable Energy Development Authority (SREDA)	1	9,73,75	10,00,00	9,23,24	11,77,91	11,32,48	12,37,62
<b>Total : Support Activity</b>		<b>9,73,75</b>	<b>10,00,00</b>	<b>9,23,24</b>	<b>11,77,91</b>	<b>11,32,48</b>	<b>12,37,62</b>
<b>Total : Operating Activities</b>		<b>9,73,75</b>	<b>10,00,00</b>	<b>9,23,24</b>	<b>11,77,91</b>	<b>11,32,48</b>	<b>12,37,62</b>
<b>Development Activities</b>							
<b>Annual Development Program</b>							
223011000 - Household Energy Platform Program in Bangladesh (01/07/2016-30/06/2021)	1	35,43	61,00	44,00	35,00	36,00	0
224281900 - Energy efficiency and conservation promotion financing project	1	0	0	21,71,00	17,33,00	0	0
<b>Total : Annual Development Program</b>		<b>35,43</b>	<b>61,00</b>	<b>22,15,00</b>	<b>17,68,00</b>	<b>36,00</b>	<b>0</b>
<b>Total : Development Activities</b>		<b>35,43</b>	<b>61,00</b>	<b>22,15,00</b>	<b>17,68,00</b>	<b>36,00</b>	<b>0</b>
<b>Total :</b>		<b>10,09,18</b>	<b>10,61,00</b>	<b>31,38,24</b>	<b>29,45,91</b>	<b>11,68,48</b>	<b>12,37,62</b>

## 6.14 Rural Power Company Limited (RPCL)

**6.14.1 Recent Achievements:** Over the last 3 years, in joint venture with BPDB, BPDB-RPCL Powergen Company has been formed and constructed a 150 MW power plant project. At Patuakhali, out of 915.74 acres of land, 209.54 acres has been acquired under land acquisition, land development and rehabilitation project to construct Patuakhali 1,320 MW coal-based power plant and in Gazaria, Munshiganj, 252.56 acres of land has been acquired to construct another 600 MW Gas/LNG based power plant. Around 70% of the EPC work has been completed and signed to construct 100 MW power plants at Kadda, Gazipur. Furthermore, the development work of 16 acres of acquired land has been completed for establishing Mymensingh 360 MW combined cycle power plant.

### 6.14.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power plants	Generated additional electricity	1	MW	400.00	300	580.00	390.00	860.00	1300.00	1400.00

### 6.14.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects:

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
224098100 - Land Acquisition, Land Development and Resettlement for Implementation of Patuakhali 1320 (2x660) MW Coal Fired Thermal Power Plant (01/01/2016 - 30/06/2019)	1	76,80,00	300,00,00	160,00,00	182,00,00	450,00,00	450,00,00
224098200 - Land Acquisition and Land Development for Implementation of Gazaria 350 (+10%) MW Coal Fired Thermal Power Plant (01/07/2016 - 30/06/2019)	1	1,00	280,00,00	140,00,00	157,24,00	0	0
224231200 - Land Acquisition, Land Development and Protection for Patuakhali 1320 MW Super Thermal Power Plant Project		0	285,00,00	5,00,00	200,00,00	465,00,00	922,00,00
224264900 - Land Acquisition and Land Development for Implementation of Mollahat 100 MW Solar Power Plant.	1	0	0	1,00	79,00,00	0	0
<b>Total : Annual Development Program</b>		<b>76,81,00</b>	<b>865,00,00</b>	<b>305,01,00</b>	<b>618,24,00</b>	<b>915,00,00</b>	<b>1372,00,00</b>
<b>Total : Development Activities</b>		<b>76,81,00</b>	<b>865,00,00</b>	<b>305,01,00</b>	<b>618,24,00</b>	<b>915,00,00</b>	<b>1372,00,00</b>
<b>Total :</b>		<b>76,81,00</b>	<b>865,00,00</b>	<b>305,01,00</b>	<b>618,24,00</b>	<b>915,00,00</b>	<b>1372,00,00</b>

## 6.15 Power Cell

**6.15.1 Recent Achievements:** Necessary reforms in the power sector, preparation of tender documents for setting up new power plants by the private sector, preparation of security packages, conducting various surveys in the development of power sector, supervising system loss and arrears, and performance monitoring activities are conducted by Power Cell. Noteworthy achievement of Power Cell includes preparing Power Act 2018, specification of pre-paid metre and smart pre-paid metre, introducing Net-metering Guideline, developing software for the monthly coordination meeting of the power division, developing audit software, software for the consumers to submit complaints and opinions, updating Gas Sector Master Plan (GSMP), assisting Petrobangla with FSRU project, visualizing development activities of the power sector through social media, providing consultant's services to institution/company like BERC, SREDA, Petrobangla, PDB and arranging annual power and energy week, development fair, Sector Leaders Workshop etc.

### 6.15.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Carryout feasibility study, survey for reform and continuous development of the Power Division.	Carried out different surveys and studies for the development and renovation in the Power Sector	3	Number	12	10	12	8	12	12	10

### 6.15.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
Operating Activities							
Special Activity							
120007100 - Energy Audit Cell	1	26,87	54,00	40,00	20,00	10,00	10,00
Total : Special Activity		26,87	54,00	40,00	20,00	10,00	10,00
Total : Operating Activities		26,87	54,00	40,00	20,00	10,00	10,00
Total :		26,87	54,00	40,00	20,00	10,00	10,00

### 6.16 B-R Powergen Ltd.

**6.16.1 Recent Achievements:** During the past 3 years, B-R Powergen Ltd. has completed the construction of Kodala 150 MW power plant in Gazipur and supplying 150 MW of electricity to the national grid since August, 2015. Land development is completed for the implementation of a GoB financed 150 MW power plants in the Bangladesh Economic Zone area at Mirsarai, in Chattogram. Land acquisition work has been completed for the construction of a new 150 MW power plant at Sreepur in Gazipur. The EPC contract has already been signed and ICA funding is in the process for implementing the project. Besides, a 100 MW grid tide solar power plant at Madarganj in Jamalpur district has been approved at the meeting of cabinet committee on government purchase.

### 6.16.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new power plant	Increase in electricity production	1	MW	80.00	80.00	540.00	540.00	287.46	0	0

### 6.16.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects:

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
Development Activities							
Annual Development Program							
224115100 - Mirsarai 150 MW Dual Fuel Power Plant Project (01/07/2017 - 31/06/2019) Approved	1	0	540,00,00	582,00,00	365,00,00	0	0
Total : Annual Development Program		0	540,00,00	582,00,00	365,00,00	0	0
Total : Development Activities		0	540,00,00	582,00,00	365,00,00	0	0
Total :		0	540,00,00	582,00,00	365,00,00	0	0

## 6.17 Northern Electricity Supply Company Ltd. (NESCO)

**6.17.1 Recent Achievements:** NESCO's commercial activities have been started on 01-10-2016 at Rajshahi and Rangpur Division in the areas under Bangladesh Power Development Board (BPDB). Northern Electricity Supply Company Limited has taken a massive program to take power supply facility at the doorstep of the people. In the last 3 years, under Northern Electricity Supply Company Limited 139 kilometers 33 KV line and 2,861 kilometer distribution line have been constructed. A 33/11 KV distribution sub-station capacity has been increased by 147/193.33 MVA and as a result 4,13,367 new consumer connections were provided. In order to fulfill the deficit of manpower, 311 officers have been appointed with the approval of the Board of Directors.

### 6.17.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2017-18		2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1. Construction of new distribution lines and rehabilitation of old lines	Construction and rehabilitation of distribution lines	1	KM	100	490	800	2310	2500	3000	3200
2. Construction of new sub-stations and rehabilitation of old sub-station	Construction and rehabilitation of sub-station	1	MVA	80	72	400	185	550	470	560
3. Setting up a smart pre-payment meter	Smart pre-payment meter	3	Number (thousand)	5.0	0	50.0	0	75.0	100.0	325.0
4. Strengthening of electricity bill arrears	Account Receivables	4	Months equivalent	2.25	3.27	2.30	2.30	2.25	2	1.8
5. Customers new connection	New subscriber number	3	Number (lac)	0.5	0.68	0.75	0.90	1.25	1.40	2.00

### 6.17.3 Medium Term Expenditure Estimates by Institutional Unit, Schemes and Projects:

(Taka in Thousands)

Name of the Institutional Unit/Scheme/Project	Related Activity	Actual 2017-18	Budget	Revised	Medium Term Expenditure Estimates		
			2018-19		2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
<b>Annual Development Program</b>							
224267300 - FIVE LAC SMART PRE-PAYMENT METER INSTALLATION PROJECT IN NORTHERN ELECTRICITY SUPPLY COMPANY LIMITED AREAS	3	0	0	1,00	120,00,00	400,00,00	1000,00,00
224284000 - EXTENSION & RENOVATION PROJECT OF DISTRIBUTION LINE & SUB STATION FOR RANGPUR DIVISION	2	0	0	0	40,00,00	0	0
224284100 - EXTENSION AND RENOVATION PROJECT OF DISTRIBUTION LINE & SUB-STATION OF RAJSHAHI DIVISION	2	0	0	0	40,00,00	0	0
<b>Total : Annual Development Program</b>		<b>0</b>	<b>0</b>	<b>1,00</b>	<b>200,00,00</b>	<b>400,00,00</b>	<b>1000,00,00</b>
<b>Total : Development Activities</b>		<b>0</b>	<b>0</b>	<b>1,00</b>	<b>200,00,00</b>	<b>400,00,00</b>	<b>1000,00,00</b>
<b>Total :</b>		<b>0</b>	<b>0</b>	<b>1,00</b>	<b>200,00,00</b>	<b>400,00,00</b>	<b>1000,00,00</b>