Power Grid Bangladesh PLC
National Load Dispatch Center (NLDC)
System Summary Report

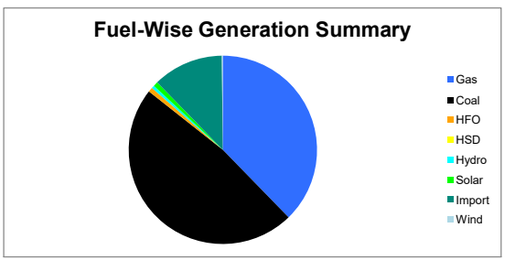
Date : 26-03-2020

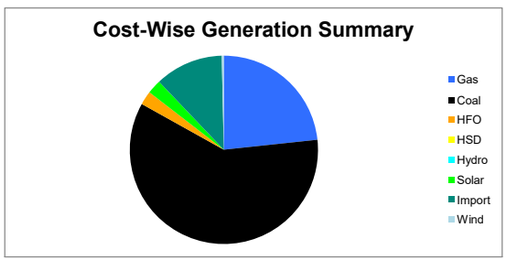
Power Supply Scenario

Day Peak Generation	9169.2	MW	09:00 Hr.	Energy Generated	322.57493	MKWHr.
Day Peak Demand	9169.2	MW	09:00 Hr.	Energy Unserverd	0.07800	MKWHr.
Evening Peak Generation	11164.63	MW	21:00 Hr.	Energy Demand	322.65293	MKWHr.
Evening Peak Demand	11169.63	MW	21:00 Hr.	Maximum Temperature	28.90	°C
Minimum Generation of the Day	7747.74	MW	06:00 Hr.	Total Gas Supplied	918.21	MMCFD
Maximum Generation of the Day	13338	MW	00:00 Hr.	Production Cost per KWHr	5.67893	Tk.

Zone-wise Generation Summary (MKWHr.)

	Gas	Coal	HFO	HSD	Hydro	Solar	Import	Wind	**Total**
Dhaka Zone	35.25	0.00	0.80	0.00	0.00	0.06	0.00	0.00	36.11
Chattogram Zone	5.67	17.71	0.51	0.00	1.52	0.09	0.00	0.49	25.99
Cumilla Zone	25.22	0.00	0.08	0.00	0.00	0.08	2.17	0.00	27.55
Mymensingh Zone	1.02	0.00	0.55	0.00	0.00	0.13	0.00	0.00	1.70
Sylhet Zone	26.18	0.00	0.00	0.00	0.00	0.02	0.00	0.00	26.20
Khulna Zone	6.01	96.87	0.10	0.00	0.00	0.43	18.43	0.00	121.83
Barishal Zone	8.00	38.73	0.00	0.00	0.00	0.00	0.00	0.00	46.74
Rajshahi Zone	14.32	0.00	0.01	0.00	0.00	0.67	18.52	0.00	33.52
Rangpur Zone	0.00	1.21	0.58	0.00	0.00	1.15	0.00	0.00	2.94
Total	121.67	154.52	2.63	0.00	1.52	2.63	39.11	0.49	322.57





Production Cost (Tk.)

Fuel	**Tk.**	**Fuel**	**Tk.**
Gas	426588545.7	Hydro	151502
Coal	1095442799	Solar	44376737.5
HFO	43601400.18	Import	214503905.7
HSD	0	Wind	7216137.6
	Total:	183,18,81,027	Tk.

E-W Interconnector & Import Scenario

Energy Flow from East to West:	KWHr:	0	Import through HVDC C/B Interconnector:	MKWHr:	18.429091	Peak Hr Flow	923.00 MW at 21:00 hrs.
Energy Flow from West to East:	KWHr:	27932000	Import through Adani C/B Interconnector:	MKWHr:	18.518181	Peak Hr Flow	425.63 MW at 21:00 hrs.
r Flow during Peak Demand (W-E):	MW:	1119	Import through Cumilla C/B Interconnector:	MKWHr:	2.16672	Peak Hr Flow	104.00 MW at 21:00 hrs.
Maximum Power Flow (W-E):	MW:	2448	Total Import through C/B Interconnector:	MKWHr:	39.113992	Peak Hr Flow	1452.63 MW at 21:00 hrs.

Zone-wise Load-shed and Demand Summary (MW) at evening peak Hour (21:00 Hr.)

Zone	**Load-Shed**	**Demand**
Dhaka	0	3336
Chattogram	5	1189
Cumilla	0	1073
Mymensingh	0	908
Sylhet	0	449
Khulna	0	1491
Barishal	0	330
Rajshahi	0	1258
Rangpur	0	874
Total	**5**	**10908**

Status of unavailable Power Plant

Planned S/D			**Forced S/D**		
Sl	Plant Name	Capacity	Sl	Plant Name	Capacity
1	Baghabari 100 MW GTPP	100			
2	Barapukuria TPP Unit-2	85			
3	Siddhirgonj 210 MW TPP	115			
	Total	300		Total	0
	Total Unavailable Capacity	**300**			

Event Summary

Outage Time	Restoration Time	Description of Event	Description of Event
	08:30	Saidpur 132/33kV S/S TR-3 (424T) HT is restored.	
	08:31	Saidpur 132/33kV S/S TR-3 (424T) LT is restored.	
08:32	10:32	Noapara 132/33kV S/S T-2 LT Scheduled S/D	5.0MW load interrup.
08:32	10:31	Noapara 132/33kV S/S T-2 HT Scheduled S/D	5.0MW load interrup.
08:36	10:36	Noapara 132/33kV S/S Bus Section-2 Scheduled S/D	5.0MW load interrup.
	08:45	Narail 132/33kV S/S TR2 (413-T) HT is restored.	
	08:46	Narail 132/33kV S/S TR2 (413-T) LT is restored.	
09:00		Day Peak Generation: 9165 MW.	
09:01	10:54	Hathazari-Madunaghat 132kV Ckt-2 Tripped from Hathazari 230/132/33kV end showing Alstrom Quardrahmo relays.	
	09:07	Bogura 230/132kV S/S Confidance UN-2 is restored.	
09:13	09:26	Niamatpur 132/33kV S/S Transformer-2 (417T) HT Tripped showing MiCOM P40 Agile (P642) relays Due to Due to Niamatpur 33 kV faulty feeder trip	1.0MW load interrup.
09:13	09:27	Niamatpur 132/33kV S/S Transformer-2 (417T) LT Tripped showing MiCOM P40 Agile (P642) relays Due to Due to Niamatpur-2 33kV faulty feeder trip	1.0MW load interrup.
09:15	10:52	Daganbhuiyan 132/33kV S/S Transformer-1 HT Scheduled S/D Due to Red hot maintenance at 33kv daganbhuiyan feeder	
09:15	10:52	Daganbhuiyan 132/33kV S/S Transformer-1 LT Scheduled S/D Due to Shutdown Due to 33 kv Daganbhuiyan Feeder red hot maintenance	

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09:16	11:08	Narail 132/33kV S/S TR1 (403-T) HT Scheduled S/D Due to Red hot maintenance by JPBS-02	30.0MW load interrup.
09:16	11:08	Narail 132/33kV S/S TR1 (403-T) LT Scheduled S/D Due to Red Hot maintenance N3 and N4 feeder by JPBS-02	30.0MW load interrup.
09:40	11:08	Juldah-Sikalbaha 132kV Ckt-1 Tripped from Juldah 132/33kV end showing Distance relay relays Due to Lightning strike	21.0MW load interrup. Juldah 132/33kV end
09:50	10:08	Niamatpur 132/33kV S/S Transformer-3(426T) LT Tripped showing Siemens 7UT85 relays Due to Due to Manda-1 33kV faulty feeder trip.	2.0MW load interrup.
	10:05	Maniknagar 230/132kV S/S Auto Transformer-02 (715T) HT is restored.	
	10:05	Maniknagar 230/132kV S/S Auto Transformer-02 (715T) LT is restored.	
10:10	10:34	Khagrachari-Rangamati 132kV Ckt-2 Tripped from Khagrachori 132/33kV end showing REL 670 relays Due to Tripped due to Thundering	
	10:37	Bogura 400/230kV S/S Bogura - Naogaon 230 kV Ckt-2 is restored.	
10:49	11:32	Tangail 132/33kV S/S Tr-1 LT Tripped showing REF 615 relays Due to 33kv kachuadanga feeder source DS Loop Out from 33kv Bus.	47.0MW load interrup.
10:49	13:44	Tangail 132/33kV S/S Tr-2 LT Tripped showing Ref615 relays Due to 33Kv kachuadanga Feeder source DS loop out from 33Kv bus.	47.0MW load interrup.
11:12	12:22	BIPTC S/S 20DF13 Scheduled S/D Due to Emergency maintenance	
11:55	12:11	Chowmuhani 230/132/33kV S/S TR3-435T LT Tripped showing O/C relays Due to 33 KV Datter Hat Feeder Fault	20.0MW load interrup.
11:55	12:11	Chowmuhani 230/132/33kV S/S TR2-425T LT Tripped showing O/C relays Due to 33 KV Datter Hat Feeder Fault	20.0MW load interrup.
12:03	13:08	Jhenaidah 132/33kV S/S Transformer T-2 LT Forced S/D Due to 33kV WZPDCL kotchadpur feeder DS bus side Red hot Maintenance.	50.0MW load interrup.
12:05	21:22	Aminbazar-Meghnaghat 400kV Ckt-2 Forced S/D from Aminbazar 400/230/132kV end Due to DS maintenance Work	
12:05	13:06	Jhenaidah 132/33kV S/S Transformer T-2 HT Forced S/D Due to 33kV WZPDCL kotchadpur feeder DS bus side Red hot Maintenance.	
12:14		Hasnabad-Keraniganj 230kV Ckt-2 Tripped from Keranigonj 230/132/33kV end showing 86.1/86.2 relays Due to SOTF trip,B-phase pick up, and from Hasnabad 230/132kV end showing Dist: Prot: 1&2 relays Due to Flashing during heavy raining	
12:14		Hasnabad-Keraniganj 230kV Ckt-2 Tripped from Keranigonj 230/132/33kV end showing 86.1/86.2 relays Due to SOTF trip,B-phase pick up, and from Hasnabad 230/132kV end showing Dist: Prot: 1&2 relays Due to Flashing during heavy raining	
12:17	13:14	Keraniganj-Nawabganj 132kV Ckt-2 Tripped from Keranigonj 230/132/33kV end showing 86.1 relays Due to 50-67N Earth fault trip,R-phase pick up,Zone-1 trip(16.3km) and from Nawabganj 132/33kV end showing Distance protection P443, Overcurrent protection P132 relays Due to Due to heavy storm	
12:17	12:39	Rajendrapur 132/33kV S/S MTR-1 LT Tripped showing REF630 relays.	
12:17	12:40	Rajendrapur 132/33kV S/S MTR-2 LT Tripped showing REF630 relays.	2.0MW load interrup.
12:17	12:40	Rajendrapur 132/33kV S/S MTR-3 LT Tripped showing REF630 relays.	2.0MW load interrup.
12:20	13:44	Tangail 132/33kV S/S Tr-2 LT Forced S/D Due to Kachuadanga feder Fault	100.0MW load interrup.
12:20	13:43	Tangail 132/33kV S/S Tr-2 HT Forced S/D Due to 33Kv Kachuadanga feeder Fault	100.0MW load interrup.
12:26		Ashuganj 450 MW CCPP(South) Shutdown with remarks:- GT	
	12:50	Cumilla(N) 230/132/33kV S/S 230KV ATR-02 HT is restored.	
	12:58	Ghorasal- Ishwardi 230 kV Ckt-2 is restored.	
13:34	13:39	Barishal 132/33kV S/S T-1 (405T) LT Tripped showing Instt. O/C, Definite O/C relays Due to Polashpur 33kV WZPDCL feeder fault	40.0MW load interrup.
13:37	14:17	Bakerganj-Patuakhali 132 kV Ckt-1 Tripped from Patuakhali 132/33kV end showing Distance Relay relays Due to E/F, Phase -C, 27.4 km, 3.3kA	30.0MW load interrup. Patuakhali 132/33kV end
13:46	21:20	Aminbazar-Meghnaghat 400kV Ckt-2 Forced S/D from Meghnaghat 400/230kV end Due to Requested by Aminbazar SS	
	14:18	Brahmanbaria-Shahjibazar 132 kV Ckt-1 is restored.	
14:21	20:40	Brahmanbaria-Shahjibazar 132 kV Ckt-2 Forced S/D from Brahmanbaria 132/33kV end. and from Shahjibazar 132/33kV end Due to N/A	
	14:35	Joypurhat 132/33kV S/S Patnitola Ckt.-1 is restored.	
	14:37	Joypurhat 132/33kV S/S Patnitola Ckt.-2 is restored.	
	14:39	Daganbhuiyan 132/33kV S/S Transformer-2 LT is restored.	
14:39	20:09	Daganbhuiyan 132/33kV S/S Transformer-2 HT Scheduled S/D Due to Bus PT change at Companiganj 33 kv feeder	
15:15	18:55	Madanganj 132/33kV S/S BUS Coupler Forced S/D Due to Haripur-1 Main bus DS emergency maintenance	
15:32		Ghorasal Repowered CCPP Unit-4 Synchronized	
15:52	16:49	TK chemical S/S 48/64MVA T-2(415T) HT Forced S/D Due to “Due to sparking fault at the connector of Transformer-2 secondary blue bushing.”	14.0MW load interrup.

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15:52	16:49	TK chemical S/S 48/64MVA T-2(415T) HT Forced S/D Due to "Due to sparking fault at the connector of Transformer-2 secondary blue bushing."	14.0MW load interrup.
16:30		Adani Power Jharkhand Ltd. Unit-1 was shutdown due to low demand.	
	17:16	Bogura 400/230kV S/S Bogura - Kaliakoir 400 kV Ckt-1 is restored.	
	17:16	Bogura 400/230kV S/S Bogura - Kaliakoir 400 kV Ckt-2 is restored.	
17:36	05:54	Bogura 400/230kV S/S 400 KV Reactor (125 MVAR) Forced S/D Due to As per NLDC's Instruction	
19:13		Sirajgonj 225MW CCPP Unit-1 Synchronized with remarks:- ST	
19:43	22:18	Chowmuhani 230/132/33kV S/S TR3-435T LT Forced S/D Due to Redhot	10.0MW load interrup.
19:44	22:18	Chowmuhani 230/132/33kV S/S TR3-435T HT Forced S/D Due to Redhot	10.0MW load interrup.
20:25	21:03	Bhangura 132/33kV S/S Tr-2(413T) LT Forced S/D Due to Red hot 33 kv bkr	
20:26	21:02	Bhangura 132/33kV S/S Tr-2(413T) HT Forced S/D Due to Red hot 33 kv bkr	
21:00		Evening Peak Generation is 11164 MW.	
23:25	00:46	Chowmuhani 230/132/33kV S/S TR2-425T HT Forced S/D Due to Emergency shutdown taken for 132/33 kV, TR-02 X-former today at 18:07 for 33kV LBUS BUS DS loop Redhot Maintenance. 20MW Load shed will occur. Informed all utilities. NPBS will do the maintenance work.	20.0MW load interrup.
23:25	00:46	Chowmuhani 230/132/33kV S/S TR2-425T LT Forced S/D Due to Emergency shutdown taken for 132/33 kV, TR-02 X-former today at 18:07 for 33kV LBUS BUS DS loop Redhot Maintenance. 20MW Load shed will occur. Informed all utilities. NPBS will do the maintenance work.	20.0MW load interrup.
00:56	01:37	Lalmonirhat-Rangpur 132 kV Ckt-2 Forced S/D from Kurigram 132/33kV end Due to Emergency tree trimming	
01:05	01:37	Lalmonirhat 132/33kV S/S Kurigram-Lalmonirhat Forced S/D Due to Kurigram grid work	
05:35		Bogura 230/132kV S/S Confidance UN-2 Tripped showing over voltage trip relays Due to Raining, Storming, Thundering	
05:42		Bogura 230/132kV S/S T-03 LT Tripped showing Over Voltage relays Due to Raining, Storming, Thundering	
05:42		Bogura 230/132kV S/S T-03 HT Tripped showing None relays Due to Raining, Storming, Thundering	
06:05		Bogura 400/230kV S/S Bogura - Kaliakoir 400 kV Ckt-2 Tripped showing Main-1 and Main-2 relays Due to Directional Earth Fault	
06:07		Ghorasal- Ishwardi 230 kV Ckt-2 Tripped from Ishurdi 230/132kV end showing Distance protection Relay relays.	
06:57		Sirajgonj 225MW CCPP Unit-2 Shutdown with remarks:- ST	
06:58		Sirajgonj 225MW CCPP Unit-2 Synchronized with remarks:- GT-(False sms)	
	07:10	Rampal 400/230kV S/S Gopalganj Line-1 Reactor is restored.	
	07:12	Rampal 400/230kV S/S Gopalganj Line-2 Reactor is restored.	
07:21		Ghorasal Repowered CCPP Unit-4 Shutdown	
07:48		Khulna (C) S/S TR-1 425T LT Tripped showing Siprotec multifunctional relay relays Due to Due to wz tr-4 feeder fault	

Sub-Divisional Engineer
Network Operation Division

Executive Engineer
Network Operation Division

Superintendent Engineer
Network Operation Division