QF-LDC-07

POWER GRID COMPANY OF BANGLADESH LTD.
SUMMARY OF DAILY ELECTRICITY GENERATION

Month : Jan-2014 Day : Saturday Date : 4-Jan-14

Probable Maximum Generation : (a) At Day Peak Hour : 3867 MW (b) At Evening Peak Hour : 5530 MW

Water Level of Kaptai Lake at 06:00 AM (a) Yesterday : 94.58 ft (b) Today : 94.51 ft (c) Rule Curve: 102.43 ft

Sl.	Name of the Power Station	Fuel	Producer	Instslled Capacity		Derated/ Present Capacity	Actual Generation On 3-Jan-14 Day Peak	Actual Generation On 3-Jan-14 Ev. Peak	Available Generation On 4-Jan-14 Day Peak	Available Generation On 4-Jan-14 Ev. Peak	Ev. Peak Gen.Shortage for Fuel Limitation	Ev. Peak Gen.Shortage for Plants S/D or M/C prob.	Plants under Shut down (Date) / Remarks	Probable Start up Date
					MW	MW	MW	MW	MW	MW	MW	MW		
1a	Ghorasal ST 1 & 2	Gas	PDB	2X55	110	78	44	44	42	44		34	#2(17/12/13)	Unknown
1b	Ghorasal ST 3	Gas	PDB	1x210	210	180	110	110	110	110		70		
1c	Ghorasal ST 4	Gas	PDB	1x210	210	180	180	180	170	180				
1d	Ghorasal ST 5	Gas	PDB	1x210	210	190	190	190	190	190				
1e	Ghorasal ST 6	Gas	PDB	1x210	210	190	0	0	0	0		190	#6(18/07/10)	Unknown
2	Ghorashal 100 MW	Gas	QRPP 3yrs	128X0.85	100	100	11	96	11	100				
3	Ghorashal 45 MW	Gas	QRPP 3yrs	50X0.85	45	45	12	45	12	45			Synchronized at 33KV.	
4	Ghorashal MAX	Gas	RPP	4x19.6	78	78	21	61	21	60		17	1 Machine problem.	
5	Haripur SBU GT 1, 2 & 3	Gas	SBU,PDB	3x32	96	60	0	0	0	0	40	20	#1 & 2 (22/10/13), #3(18/	Unkhown
6	Haripur EGCB 360 MW	Gas	EGCB		412	412	0	0	0	0			On test	
7	Haripur NEPC	HFO	IPP	8x15	110	110	0	55	0	95		55	3 Machine problem.	
8	Haripur P. Ltd CCPP	Gas	IPP	235+125	360	360	374	375	371	350	-15			
9	Meghnaghat P.Ltd CCPP	Gas	IPP	3X150	450	450	454	454	454	450	-4			
10	Meghnaghat IEL	HFO	RPP	12x8.9	100	100	8	65	8	89		35	4 Machine problem.	
11	Madanganj 102 MW	HFO	QRPP 3yrs	6x17.08	102	100	11	100	14	100				
12	Keraniganj	HFO	RPP	8x14.4	100	100	10	61	0	95		39	3 Machine problem	
13	Narshingdi	Gas	SIPP,REB	8X2.90	22	22	0	19	19	19		3	Synchronized at 33KV, 1 Machine problem	
14a	Siddhirgonj ST	Gas	PDB	1x210	210	150	110	110	105	110	40			
14b	Siddhirgonj GT-1, 2	Gas	EGCB	2x120	210	210	0	0	0	0	210			
15	Siddhirganj 100MW	HSD	QRPP 3yrs	96x1.2	96	96	0	0	0	0			Reserve	
16	Dutch Bangla 100 MW	HFO	RPP	12x8.9	100	100	8	50	8	100			6 Machine reserve	
17	DPA Power 50MW	HSD	QRPP 3yrs	100X0.5	50	50	0	0	0	0			Expired but run as per instruction	Reserve
18	Summit Power (Dhaka)	Gas	SIPP,REB		146	146	64	76	102	100			Synchronized at 33KV	
19	Gazipur RPCL	HFO	IPP	6x8.9	52	52	0	0	0	52			6 Machine reserve	
20	Tongi GT	Gas	PDB	1X 105	105	105	0	0	0	0	105			
	Dhaka Area Total				***3894***	***3664***	***1607***	***2091***	***1637***	***2289***	**376**	**463**		
1a	Chittagong Raozan ST 1	Gas	PDB	1x210	210	180	0	0	0	0	180		15/08/13	Unknown
1b	Chittagong Raozan ST 2	Gas	PDB	1x210	210	180	0	0	0	0	180		31/07/13	Unkhown
2	Raozan 25 MW	HFO	RPCL	3*8.9	25	25	0	26	0	26				
3a	Kaptai Hydro unit 1,2,3,4 & 5		PDB	2X40+3X50	230	220	40	46	46	40				
4a	Sikalbaha ST	Gas	PDB	1X60	60	40	0	0	0	0	40		7/11/2013	Unknown
4b	Sikalbaha GT	Gas	PDB	1x150	150	150	80	110	60	110	40			
5	Sikalbaha	HFO	RPP 3yrs	4X12.5+2X11.9	0	0	0	0	0	0			contract date expired 06/05/2013	
6	Hathazari	HFO	PDB	11x8.9	98	98	0	17	0	98		81	9 Machine reserve	
7	Dohazari	HFO	PDB	6x17	102	102	0	0	0	102		102	6 Machine reserve	
8	Juldah	HFO	RPP	8x13.45	100	100	10	43	10	92		57	4 Machine reserve	
9	Barabkunda	Gas	SIPP,PDB	8X2.90	22	22	0	12	12	12		10	Synchronized at 33KV, 3 Machine problem	
10	Malancha,Ctg EPZ	Gas					0	40	12	40				
	Chittagong area Total				***1207***	***1117***	***130***	***294***	***140***	***520***	**440**	**250**		
1a	Ashuganj ST 1 & 2	Gas	APSCL	2x64	128	110	50	50	50	50		60	#1 (23/12/13)	Unknown
1b	Ashuganj ST 3	Gas	APSCL	1x150	150	140	140	140	140	140				
1c	Ashuganj ST 4	Gas	APSCL	1x150	150	150	150	150	150	150				
1d	Ashuganj ST 5	Gas	APSCL	1x152	150	140	0	0	0	0		140	19/12/13	4/1/2014
1e	Ashuganj CCPP	Gas	APSCL	2x56+34	146	91	32	32	32	32		59	ST(08/09/13),#2(29/11/13),	Unkhown
1f	Ashuganj 50 MW TSK	Gas	APSCL	16x3.35	53	53	30	26	26	26		27	7 Machine problem	
2	Ashuganj Precision	Gas	RPP 3yrs	15x4	55	55	34	49	17	49		6	1 Machine problem.	
3	Ashuganj Aggrekko	Gas	RPP	82x1.1	80	80	32	78	82	80				
4	Ashuganj UP-53 MW	Gas	RPP	14x4	53	53	30	49	49	49		4	2 Machine problem.	
5	Ahuganj Midland	Gas	IPP			51	40	40	15	40			On test	
6	Brahmanbaria 70MW	Gas	QRPP 3yrs	72x1	70	70	0	0	0	0			Gas line problem.	
7	Daudkandi 50 MW	FO	PDB	6x8.92	52	52	0	0	0	0		52	Reserve	Reserve.
8	Chandpur CCPP	Gas	PDB	1x106+1x57	163	163	0	0	0	0	163		14/11/13	Unknown
9	Feni	Gas	SIPP,PDB	8X2.90	22	22	21	22	22	22				
10	Mahipal,Feni	Gas	SIPP,REB	4X2.90	11	11	5	8	8	8		3	Synchronized at 33KV, 1 Machine problem	
11	Jangalia	Gas	SIPP,PDB	4X8.73	33	33	33	28	25	33			Synchronized at 33KV	
12	Summit Power (Comilla)	Gas	SIPP,REB	3x3.67+2x6.97	25	25	18	20	22	22		5	Synchronized at 33KV, 1 Machine problem.	
	Comilla Area Total				***1341***	***1299***	***615***	***692***	***638***	***701***	**163**	**356**		
1	RPCL CCPP,Mymensing	Gas	IPP	4X35+1x70	210	197	159	153	157	153	44			
2	Tangail	Gas	SIPP,PDB	8X2.90	22	22	0	19	18	19		3	Synchronized at 33KV 1 Machine problem.	
	Mymensing Area Total				***232***	***219***	***159***	***172***	***175***	***172***	**44**	**3**		
1a	Fenchugonj CCPP (old)	Gas	PDB	2x32+1x33	97	90	67	77	76	77		13		
1b	Fenchugonj CCPP (new)	Gas	PDB	2x35+1x35	104	104	57	95	32	95		9		
2	Fenchugonj BEDL	Gas	RPP 15yrs	19X2.90	51	51	5	47	47	47		4	1 Machine problem.	
3	Fenchuganj Prima 50 MW	Gas	RPP	12x3.3+5x2	44	44	12	42	42	44				
4	Hobiganj	Gas	SIPP,REB	4X2.90	11	11	0	10	10	10			Synchronized at 33KV,	
5	Shahjibazar GT 8,9	Gas	PDB	2X35	70	66	42	52	52	66				
6	Shahjibazar 86 MW	Gas	RPP 15yrs	32X2.90	86	86	5	78	40	78		8	2 Machine problem.	
7	Shahjibazar 50 MW	Gas	RPP 3yrs	27X2.0	50	50	2	48	48	48		2	1 Machine problem.	
8	Sylhet 150 MW	Gas	PDB	1x150+1x75	142	142	69	82	84	82		60		
9	Sylhet GT	Gas	PDB	1X20	20	20	0	0	0	0		20	15/12/2013	Unknown
10	Sylhet 50MW	Gas	RPP 3yrs	29x1.95	50	50	10	42	20	42		8	3 Machine problem	
11	Shahjahanulla 25MW	Gas		3x9.34	28	25	0	18	11	18			On test	
12	Sylhet 11 MW	Gas	RPP 15yrs	6X1.95	10	10	0	9	8	9				
	Sylhet Area Total				***763***	***749***	***269***	***600***	***470***	***616***	***0***	**124**		
1	Bheramara GT 1, 2 & 3	HSD	PDB	3X20	60	46	0	0	0	0			Reserve	
2	Bheramara	HSD	RPP 3yrs	2X8.5+2X6+2X1	105	105	0	0	0	0		105	14 Machine problem. & oil shortag	Unknown
3	HVDC C/B Interconnector		India		500	500	470	342	472	346				
4a	Khulna ST 110MW	FO	PDB	1X110	110	55	0	0	0	0		55	3/12/2013	Unknown
4b	Khulna ST 60 MW	FO	PDB	1X60	60	30	0	0	0	0		30	24/01/12	Unknown
5	KPCL ,Khulna.	HFO	IPP	19x6.5	110	110	5	11	5	11		99	Contact Date expired	
6	KPCL ,Khulna.(new)	HFO	IPP	7x17	115	115	0	115	0	115				
7	Faridpur	FO	PDB	8x6.89	54	54	0	38	0	44		16	2 Machine problem.	
8	Khulna 150MW	HSD	NWZPGCL	1x150	150	150	0	122	0	150				
9	Gopalganj 110 MW	HFO	PDB	16x6.98	109	109	0	52	0	0		57	7 Machine reserve	
11	Noapara (105 MW)Quantam	HFO	RPP	9x5+9.5x6+9.2x	101	101	0	0	0	0		101	13 Machine problem	
12	Noapara (40 MW),KZA	HFO	RPP	5x8	40	40	32	32	8	32		8	1 Machine problem.	
13	Khulna 40 MW	HSD	RPP 3yrs	50X0.80	40	40	0	0	0	0			Contact date expired 16/08/13	
14	Khulna 55 MW	HSD	QRPP 3yrs	71X0.85	55	55	0	32	0	0			Expired , run as per instr. of DS (	Reserve.
	Khulna Area Total				***1609***	***1510***	***507***	***744***	***485***	***698***	***0***	**471**		
1	Barisal GT 1 & 2	HSD	PDB	2X20	40	32	0	0	0	0		32	**Reserve**	
2	Bhola	Gas	RPP 3yrs	1X34.50	33	33	0	0	0	0		33	10/8/2013	Unknown
	Barisal Area Total				***73***	***65***	***0***	***0***	***0***	***0***	***0***	**65**		
1a	Baghabari GT 1	Gas	SBU,PDB	1X71	71	71	0	0	0	0			14/12/13	Unknown
1b	Baghabari GT 2	Gas	SBU,PDB	1X100	100	100	80	80	105	100				
2	Baghabari 50 MW	HFO	PDB	6x8.9	52	52	0	48	0	48				
3	Baghabari Westmont	Gas	IPP	2X45	90	70	0	0	0	0		70	#1(1/5/12),#2(24/4/13)	Unknown
4	Bera 70 MW	HFO	PDB	9x8.29	71	71	0	70	0	70				
5	Amnura 50 MW	HFO	RPP	7x7.79	50	50	0	0	0	0			Reserve	
6	Katakhali NPS 50 MW	HFO	RPP	6x8.92	50	50	0	0	0	0			Reserve	
7	Katakhali PPP 50 MW	HFO	PDB	6x8.7	50	50	0	51	9	51				
8	Sirajganj 150 MW	Gas	NWPGCL	1x150	150	150	100	120	100	145				
9	Santahar 50 MW	HFO	PDB	6x8.7	50	50	0	0	0	0			Reserve.	
10	Bogra GBB	Gas	RPP 15yrs	6X4	20	22	21	21	21	22			Synchronized at 33KV	
11	Bogra 20MW	Gas	RPP 3yrs	5x3.3+5x2	20	20	0	11	12	10		9	3 Machine problem	
12	Summit Power (Ullapara)	Gas	SIPP,REB	4X2.90	11	11	8	8	5	8		3	Synchronized at 33KV, 1 Machine problem	
	Rajshahi Area Total				***785***	***767***	***209***	***409***	***252***	***454***	***0***	**82**		
1a	Barapukuria ST 1	Coal	PDB	1x125	125	100	0	0	0	0		100	20/11/2013	Unknown
1b	Barapukuria ST 2	Coal	PDB	1x125	125	100	75	80	70	80		20		
2	Rangpur GT	HSD	PDB	1X20	20	20	0	0	0	0			Reserve.	
3	Sayadpur GT	HSD	PDB	1X20	20	20	0	0	0	0			Reserve.	
4	Thakurgaon	HSD	RPP 3yrs	20X1.5+21X1.1	47	47	0	0	0	0			expired , run as per instr. of D	Reserve
	Rangpur Area Total				***337***	***287***	***75***	***80***	***70***	***80***	***0***	***120***		
	Total				**10241**	**9677**	**3571**	**5082.0**	**3867**	**5530**	**1023**	**1934**		
	Useable load at Substation end after deducting Auxiliary use & Transmission loss						3262	4642	3532	5051				

A. **3-Jan-14** (Yesterday) Friday

1	Highest Generation :	**5082.0**	MW at	**19:00**	hrs	
2	Minimum Generation :	**2686.0**	MW at	**5:00**	hrs	
3	Day peak Generation :	**3558.0**	MW at	**9:00**	hrs	
4	Evening peak Generation :	**5082.0**	MW at	**19:00**	hrs	
5	Total Energy Generation :	86.88	MKWHr			
	By Gas: 69.92 MKWHr		By Oil:	4.40	MKWHr	
	By Coal: 1.81 MKWHr		By Hydro:	0.86	MKWHr	
6	Generation Shortfall :	For Gas: 556	For Oil:	507	MW	
		For Water Shortage:		0	MW	
		For Plants S/D or M/C prob:		1934	MW	
7	Total Gas Supplied :	**655.11**	MMCFD			
8	Fuel Cost : i) Gas :	Taka 52313147	ii) Oil : Taka		46646634	
	iii) Coal :	Taka 0	Total	Taka	98959781	
9	Export Through E-W Interconnectors :		i) Energy	5.638	MKWHr.	
	ii) During Peak Demand :	**100**	MW at	19:00	hrs	
	iii) Maximum :	120	MW at	20:00	hrs	
10	Maximum Temperature in Dhaka was	**23.2° C**				

11	Evening Peak Hour :	**19:00**	hrs.
12	Max. Demand (Generation end) at evening peak hour :	**5082**	MW
13	Max. Demand (Substation end) at evening peak hour :	**4642**	MW
14	Load Shed (Substation end) at evening peak hour :	**0**	MW

15. Area wise Demand (S/S end), Supply(S/S end) & Load Shed (S/S end) at Evening peak hour in MW :

Area	Demand	Supply	Loadshed (Duration)
Dhaka	1608	1608	0
Chittagong	507	507	0
Khulna	606	606	0
Rajshahi	518	518	0
Comilla	395	395	0
Mymensing	341	341	0
Sylhet	258	258	0
Barisal	110	110	0
Rangpur	299	299	0
Total	4642	4642	0

16 Hourly Load Shed during Evening Peak hours :

Time	Loadshed
Hour	MW
18:00	0
18:30	0
19:00	0
19:30	0
20:00	0
21:00	0
22:00	0
23:00	0

B. **4-Jan-14** (Today) Saturday Probable max. temperature in Dhaka **23.2° C**

Forecast

1	Maximum Demand (Generation end)	**5500**	MW
2	Maximum Generation (Generation end)	**5530**	MW
3	Shortage (Generation end)	**-30**	MW
4	Total Energy Generation	**86**	MKWHr
5	Actual Minimum Generation up to 8:00 hrs.	2562	MW at 5:00

6 Total Load Shed forecast (Substation end) : 0 MW

7 Area wise Load Shed forecast (Substation end) :

Dhaka	Chittagong	Khulna	Rajshahi	Comilla	Mymensing	Sylhet	Barisal	Rangpur
MW	MW	MW	MW	MW	MW	MW	MW	MW
0	0	0	0	0	0	0	0	0

* Import Through HVDC C/B Interconnector :	i) Energy	9.895273	MKWHr.
ii) During peak Demand :	342 MW at	19:00 hrs	
iii) Maximum :	470 MW at	22:00 hrs	

Cost for HVDC energy is not usually included in the total fuel cost.

Sub Divisional / Asstt. Engineer
Network Operation Division

Executive Engineer
Network Operation Division