

पॉवर ग्रिड कार्पोरेशन ऑफ इंडिया लिमिटेड

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.06.2011
Date of Reporting : 01.07.2011

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
31467	1417	32884	49.57	29307	100	29407	50.20	615.8	9.00

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Energy Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages (MU)
	Thermal	Hydro	Others	Total					
Punjab	42.6	20.7		63.3	95.9	94.2	-1.7	157.5	1.80
Haryana	56.6	1.1		57.7	50.5	49.0	-1.5	106.7	1.79
Rajasthan	0.0	0.0	68.5	68.5	41.5	51.0	9.5	119.6	0.07
Delhi	0.0			0.0	65.0	66.1	1.1	66.1	0.00
UP	1.8	1.8	2.4	6.0	102.0	103.6	1.6	109.6	5.03
Uttarakhand		17.9		17.9	7.9	10.4	2.6	28.3	0.30
HP		13.0		13.0	0.3	-1.6	-1.9	11.4	0.00
J & K		0.0	0.0	0.0	12.2	11.5	-0.6	11.5	0.00
Chandigarh				0.0	5.5	5.0	-0.5	5.0	0.00
Total	101.0	54.5		226.5	380.8	389.4	8.5	615.8	9.00

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	6750	150	-292	1704	5600	0	-661	2295	48.95
Haryana	5013	282	630	879	4144	0	-360	865	18.14
Rajasthan	4934	55	-110	185	5325	0	413	27	3.45
Delhi	4012	0	-53	374	3319	0	-38	439	11.23
UP	7203	850	415	409	7915	100	94	859	16.66
Uttarakhand	1271	80	91	-38	1149	0	-25	-25	-0.97
HP	805	0	-140	-1531	827	0	-87	-1539	-35.44
J&K	1244	0	-28	-470	859	0	-234	-515	-12.01
Chandigarh	235	0	-15	45	169	0	-42	0	1.10
Total	31467	1417	498	1557	29307	100	-940	2406	51.09

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI
								Net MU
A. NTPC								
Singrauli STPS	2000	1685	1777	1787	38.27	1595	37.04	1.23
Rihand I STPS	1000	960	1040	798	21.03	876	19.80	1.22
Rihand II STPS	1000	530	520	642	11.48	478	10.84	0.64
Dadri I STPS	840	800	600	414	11.49	479	12.00	-0.51
Dadri II STPS	980	954	948	659	18.92	788	18.86	0.05
Unchahar I TPS	440	395	422	347	9.43	393	8.56	0.86
Unchahar II TPS	440	589	425	312	8.86	369	7.76	1.10
Unchahar III TPS	210	198	207	170	4.39	183	3.99	0.40
ISTPP (Jhajjar)	500	334	149	139	6.34	264	6.12	0.22
Dadri GPS	830	789	570	482	11.63	485	11.60	0.03
Anta GPS	419	392	247	233	5.68	237	5.64	0.04
Auraiya GPS	663	454	316	282	6.88	287	6.67	0.20
Sub Total (A)	9322	8080	7221	6265	154.39	6433	148.89	5.50
B. NPC								
NAPS	440	186	224	226	4.52	188	4.46	0.05
RAPS- B	440	387	425	429	9.23	385	9.29	-0.06
RAPS- C	440	420	463	472	10.02	418	10.08	-0.06
Sub Total (B)	1320	993	1112	1127	23.77	991	23.83	-0.06
C. NHPC								
Chamera I HPS	540	534	540	540	12.81	534	12.82	-0.01
Chamera II HPS	300	297	303	302	7.21	301	7.21	0.01
Bairasuil HPS	180	179	179	140	3.22	134	2.82	0.40
Salal-HPS	690	625	631	628	14.96	623	15.01	-0.05
Tanakpur-HPS	94	86	93	86	2.12	88	2.24	-0.12
Uri-HPS	480	476	479	478	11.53	480	11.47	0.05
Dhauliganga-HPS	280	277	0	0	0.66	27	0.75	-0.09
Dulhasti-HPS	390	387	410	157	9.17	382	8.95	0.23
Sewa-II HPS	120	79	85	0	0.68	28	0.60	0.08
Sub Total (C)	3074	2940	2720	2331	62	2598	62	0.49
D.NJPC								
Nathpa Jhakri	1500	1600	1620	1612	38.41	1600	38.40	0.01
Sub Total (D)	1500	1600	1620	1612	38.41	1600	38.40	0.01
E. THDC								
Tehri HPS	1000	500	500	491	11.55	481	11.50	0.05
Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
Sub Total (E)	1100	500	500	491	12	481	12	0.05
F. BBMB								
Bhakra HPS	1480	999	1076	968	24.73	1030	23.98	0.75
Dehar HPS	990	590	660	620	14.89	620	14.17	0.72
Pong HPS	396	291	366	240	7.25	302	6.99	0.25
Sub Total (F)	2866	1881	2102	1828	46.86	1953	45.14	1.72
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	199	191	42.33	1764	3.61	38.72
KWHEP HPS(IPP)	250	0	505	505	0.00	0	12.00	-12.00
Sub Total (G)	442	0	704	696	42.33	1764	15.61	26.72
H. Total Cental (A-G)	19625	15994	15979	14350	380	15819	345	34

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar)	1260	840.00	680.00	17.5	728
	Guru Nanak Dev TPS(Bhatinda)	440	213.00	213.00	4.4	184
	Guru Hargobind Singh TPS(L.mbt)	920	729.00	605.00	20.7	863
	Thermal (Total)	2620	1782.00	1498.00	42.6	1774
	Total Hydro	1148	1080.00	207.47	20.7	863
	Total Punjab	3768	2862	1705	63	2637
Haryana	Panipat TPS	1360	1173.00	1152.00	28.3	1178
	DCRTPP (Yamuna nagar)	600	455.00	517.00	11.7	489
	Faridabad GPS (NTPC)	1200	191.00	194.00	5.1	214
	RGTPP (khedar) (IPP)	432	222.00	476.00	11.5	479
	Magnum Diesel (IPP)	25	0.00	0.00	0.0	0
	Thermal (Total)	3617	2041.00	2339.00	56.6	2360
	Total Hydro	62	41.00	45.00	1.1	45
	Total Haryana	3679	2082	2384	58	2405
Rajasthan	kota TPS	1240	767.00	733.00	17.9	747
	suratgarh TPS	1500	979.00	901.00	22.4	931
	Chabra TPS	250	0.00	0.00	0.0	0
	Dholpur GPS	330	249.00	280.00	6.1	253
	Ramgarh GPS	114	60.00	65.00	16.1	670
	RAPS A (NPC)	440	170.00	173.00	4.3	178
	Barsingsar (NLC)	250	0.00	0.00	0.0	0
	Giral LTPS (IPP)	250	44.00	42.00	1.0	43
	Rajwest LTPS (IPP)	135	0.00	0.00	0.0	0
	VSLP LTPS (IPP)	135	34.00	34.00	0.8	34
	Thermal (Total)	4644	2303.00	2228.00	0.0	0
	Total Hydro	550	7.00	66.00	0.0	0
	Wind power	1294	955.00	933.00	0.0	0
	Biomass	71	18.00	18.00	0.0	0
	Renewable/Others (Total)	1365	973	951	68.5	2856
	Total Rajasthan	6558	3283	3245	69	2856
UP	Anpara TPS	1630	417	403	2	75
	Obra TPS	1442	1361	1441	0	0
	Paricha TPS	640	219	218	0	0
	Panki TPS	210	0	0	0	0
	Harduaganj TPS	375	0	0	0	0
	Tanda TPS (NTPC)	440	289	287	0	0
	Roza TPS (IPP)	600	270	275	0	0
	Thermal (Total)	5337	2556	2624	2	75
	Vishnuparyag HPS (IPP)	400	437	437	9	362
	Other Hydro	527	60	0	2	76
	Cogeneration	951	100	100	2	100
	Total UP	7215	2716	2724	6	251
	Uttarakhand	Total Hydro	1303	780	795	18
Total Uttarakhand		1303	780	795	18	747
Delhi	Rajghat TPS	135	118	0	30	0
	Delhi Gas Turbine	282	72	0	24	0
	Pragati Gas Turbine	330	294	0	73	0
	Rithala GPS	108	26	0	7	0
	Bawana GPS	440	0	0	0	0
	Badarpur TPS (NTPC)	705	570	0	110	0
	Thermal (Total)	2000	1080	1000	0	0
Total Delhi	2000	1080	1000	0	0	
HP	Baspa HPS (IPP)	300	330	330	8	330
	Malana HPS (IPP)	86	103	103	2	103
	Other Hydro	584	550	0	13	541
	Total HP	970	550	0	13	541
J & K	Baglihar HPS (IPP)	450	441	441	0	0
	Other Hydro	323	0	0	0	0
	Gas/Diesel/Others	183	0	0	0	0
	Total J & K	956	0	0	0	0
Total State Generation		25147	12573	11058	209	8689
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2531	2036	558.0	23249
Total Regional Availability(Gross)		44772	31083	27444	1146	47756

IV. Total Hydro Generation:

Central +BBMB Hydro	8541	6942	6262	159	6632
State Hydro	4497	3395	3262	117	4875
Regional Hydro	13038	10337	9524	276	11507

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	0.00	100.00	300.00	0.00	11.08	0.00	11.08
Gwalior-Agra (D/C)	860.00	720.00	1080.00	0.00	201.70	0.00	201.70
Zerda-Kankroli	-18.00	-43.00	129.00	47.00	0.00	11.09	-11.09
Zerda-Bhinmal	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Malanpur-Auraiya	16.00	-13.00	16.00	13.00	0.00	3.69	-3.69
Badod-Kota/Morak	35.00	14.00	79.00	29.00	7.91	0.00	7.91
Sub Total WR	858.00	764.00			212.78	14.78	198.00
Pusauli Bypass	122.00	-23.00	309.00	52.00	22.04	1.60	20.44
MZP- GKP (D/C)	1020.00	914.00	1220.00	0.00	241.89	0.00	241.89
Patna-Balia(D/C)	-151.00	-51.00	0.00	154.00	0.00	26.55	-26.55
B'Sharif-Balia (D/C)	553.00	292.00	553.00	0.00	95.97	0.00	95.97
Pusauli-Sahupuri	129.00	140.00	151.00	0.00	28.22	0.00	28.22
K'nasa-Sahupuri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Garhwa-Rihand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1673.00	1272.00			388.12	28.15	359.97
Total IR Exch	2531	2036			600.90	42.93	557.97

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
13.45	3.67	17.11	15.23	31.43	0.36	-0.94	0.02	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
32.73	30.35	63.07	359.97	198.00	557.97	327.24	167.65	494.90

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.30	2.90	14.60	96.20	84.50	25.60	0.90

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.26	3.15	49.13	19.43	49.88	0.42	0.17	50.23	0.00

VII. Voltage profile

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	424	03:55	412	00:00	0.0	0.0	25.7	0.0
Gorakhpur	400	437	03:12	408	23:25	0.0	0.0	68.4	24.2
Kanpur	400	427	03:13	401	23:11	0.0	0.0	21.1	0.0
Dadri	400	418	03:54	397	14:35	0.0	0.0	0.0	0.0
Ballabgarh	400	422	03:11	397	14:33	0.0	0.0	4.6	0.0
Bassi	400	436	04:02	404	14:09	0.0	0.0	33.5	7.0
Hissar	400	416	03:16	394	14:25	0.0	0.0	0.0	0.0
Moga	400	417	03:13	398	14:20	0.0	0.0	0.0	0.0
Kishenpur	400	417	03:18	401	20:07	0.0	0.0	0.0	0.0
Wagoora	400	410	03:13	389	20:53	0.0	0.0	0.0	0.0

VIII. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	486.42	673.81	464.56	61.03	562.29	453.38
Pong	426.72	384.05	411.96	572.31	390.34		683.23	366.00
Tehri	829.79	740.04	757.55	105.63				
Koteshwar	612.50	598.50						
Chamera-I	760.00	748.75						
Rihand	268.22	252.98	254.08		253.87			
RPS	352.80	343.81						
Gandhi Sagar	399.89	381.00						
RSD	527.91	487.91						

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 30.06.2011 :

1 : Nomal Weather in NR.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 400 / 765 KV lines and energising of bus / /substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.06.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER