

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.08.2011
Date of Reporting : 18.08.2011

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
31654	2693	34347	49.68	27432	970	28402	50.08	685.9	30.31

* 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	Renewable/others	Total					
Punjab	32.65	7.34		39.99	104.34	102.16	-2.18	142.14	1.80
Haryana	46.08	0.00		46.08	56.46	59.64	3.18	105.72	2.11
Rajasthan	66.79	0.24	10.48	77.50	27.07	25.88	-1.19	103.38	1.44
Delhi	24.62			24.62	60.29	56.77	-3.52	81.39	0.01
UP	44.57	13.87	0.00	58.44	131.85	126.92	-4.93	185.36	22.03
Uttarakhand		3.24		3.24	8.90	17.91	9.01	21.15	0.77
HP		21.75		21.75	-2.19	-2.77	-0.58	18.98	2.15
J & K		10.99	0.00	10.99	13.95	12.00	-1.95	22.99	0.00
Chandigarh				0.00	5.81	4.76	-1.05	4.76	0.00
Total	214.71	57.42	10.48	282.62	406.47	403.26	-3.21	685.88	30.31

* Shortage furnished by the respective constituent.

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	
Punjab	6249	450	13	1567	5624	0	-142	2368	50.36
Haryana	5111	486	536	875	4010	0	-139	872	19.47
Rajasthan	4503	567	-154	-443	4119	0	31	-789	-16.36
Delhi	3925	50	-77	368	2633	0	-488	173	8.17
UP	8370	1000	31	1915	8720	650	733	2007	39.84
Uttarakhand	967	140	225	-100	785	70	511	-100	-2.40
HP	897	0	22	-1807	538	250	43	-1297	-34.99
J&K	1394	0	3	-384	862	0	-225	-377	-9.41
Chandigarh	238	0	-22	36	141	0	-42	9	1.04
Total	31654	2693	577	2027	27432	970	282	2865	55.72

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

III. Regional Entities :

Entity	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	1681	1866	1611	39.61	1650	38.88	0.73
	Rihand I STPS	1000	926	1029	932	21.57	899	21.33	0.24
	Rihand II STPS	1000	473	515	498	10.99	458	10.82	0.17
	Dadri I STPS	840	596	650	530	11.96	498	12.81	-0.85
	Dadri II STPS	980	877	789	393	14.20	591	15.95	-1.76
	Unchahar I TPS	440	322	346	335	7.29	304	7.29	-0.01
	Unchahar II TPS	440	326	367	295	6.91	288	6.98	-0.08
	Unchahar III TPS	210	171	185	153	3.74	156	3.70	0.04
	ISTPP (Jhajjar)	500	257	198	172	3.98	166	4.94	-0.96
	Dadri GPS	830	784	726	515	13.43	560	13.63	-0.20
	Anta GPS	419	390	388	344	8.19	341	8.07	0.12
	Auraiya GPS	663	620	454	398	10.00	417	10.24	-0.25
	Sub Total (A)	9322	7423	7513	6176	151.86	6327	154.64	-2.79
	B. NPC	NAPS	440	188	225	223	4.53	189	4.51
RAPS- B		440	382	423	449	9.16	382	9.17	-0.01
RAPS- C		440	420	463	478	10.16	423	10.08	0.08
Sub Total (B)		1320	990	1111	1150	23.85	994	23.76	0.09
C. NHPC	Chamera I HPS	540	534	540	540	12.84	535	12.82	0.02
	Chamera II HPS	300	297	302	300	7.01	292	7.17	-0.16
	Bairasuil HPS	180	179	170	170	3.02	126	2.92	0.10
	Salal-HPS	690	623	622	545	14.81	617	14.83	-0.02
	Tanakpur-HPS	94	23	79	0	0.67	28	0.57	0.10
	Uri-HPS	480	292	360	305	6.99	291	6.71	0.27
	Dhauliganga-HPS	280	153	282	0	3.76	156	3.72	0.03
	Dulhasti-HPS	390	338	414	401	7.99	333	8.06	-0.07
	Sewa-II HPS	120	119	128	120	2.79	116	2.67	0.12
	Sub Total (C)	3074	2558	2897	2381	59.86	2494	59.48	0.38
D. NJPC	Nathpa Jhakri	1500	782	1625	0	18.83	785	18.53	0.31
	Sub Total (D)	1500	782	1625	0	18.83	785	18.53	0.31
E. THDC	Tehri HPS	1000	1000	1008	1001	24.21	1009	24.00	0.21
	Koteshwar HPS	100	92	94	94	2.23	93	2.21	0.02
	Sub Total (E)	1100	1092	1102	1095	26.43	1101	26.21	0.23
F. BBMB	Bhakra HPS	1480	1079	1232	967	26.68	1112	25.89	0.79
	Dehar HPS	990	608	660	660	15.32	638	14.60	0.72
	Pong HPS	396	354	366	366	8.87	370	8.50	0.37
	Sub Total (F)	2866	2041	2258	1993	50.87	2120	48.99	1.88
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	323	5.54	231	3.91	1.63
	KWHEP HPS(IPP)	500	0	600	0	9.19	383	12.59	-3.40
	Malana Stg-II HPS	50	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	892	0	831	323	14.72	614	16.49	-1.77
H. Total Regional Entities (A-G)	20075	14886	17337	13118	346.43	14435	348.10	-1.67	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar)	1260	940.00	760.00	18.12	755
	Guru Nanak Dev TPS(Bhatinda)	440	105.00	90.00	2.08	87
	Guru Hargobind Singh TPS(L.mbt)	920	645.00	612.00	12.45	519
	Thermal (Total)	2620	1690.00	1462.00	32.65	1360
	Total Hydro	1148	420.00	241.00	7.34	306
	Total Punjab	3768	2110	1703	39.99	1666
Haryana	Panipat TPS	1360	809.00	848.00	19.85	827
	DCRTPP (Yamuna nagar)	600	264.00	278.00	5.93	247
	Faridabad GPS (NTPC)	432	0.00	0.00	0.00	0
	RGTPP (khedar) (IPP)	1200	890.00	806.00	20.31	846
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	1963.00	1932.00	46.08	1920
	Total Hydro	62	0.00	0.00	0.00	0
	Total Haryana	3679	1963	1932	46.08	1920
Rajasthan	kota TPS	1240	932.00	892.00	22.39	933
	suratgarh TPS	1500	1124.00	998.00	26.38	1099
	Chabra TPS	500	231.00	225.00	5.20	217
	Dholpur GPS	330	271.00	251.00	6.04	252
	Ramgarh GPS	113	62.00	62.00	1.60	67
	RAPS A (NPC)	300	172.00	174.00	4.30	179
	Barsingsar (NLC)	250	50.00	0.00	0.87	36
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	2842.00	2602.00	66.79	2783
	Total Hydro	550	9.00	9.00	0.24	10
	Wind power	1294	363.00	590.00	10.37	432
	Biomass	71	4.00	4.00	0.11	4
	Renewable/Others (Total)	1365	367	594	10.48	437
	Total Rajasthan	6668	3218	3205	77.50	3229
	UP	Anpara TPS	1630	882	716	17.20
Obra TPS		1442	272	261	6.30	263
Paricha TPS		640	321	330	6.90	288
Panki TPS		210	65	63	1.30	54
Harduaganj TPS		375	40	37	0.60	25
Tanda TPS (NTPC)		440	291	285	7.21	300
Roza TPS (IPP)		600	270	153	5.06	211
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2141	1845	44.57	1857
Vishnuparyag HPS (IPP)		400	436	436	10.45	435
Other Hydro		527	129	0	3.42	142
Cogeneration		951	0	0	0.00	0
Total UP		7815	2706	2281	58.44	2000
Uttarakhand	Total Hydro	1303	301	20	3.24	135
	Total Uttarakhand	1303	301	20	3.24	135
Delhi	Rajghat TPS	135	103	100	2.54	106
	Delhi Gas Turbine	282	144	151	3.00	125
	Pragati Gas Turbine	330	295	304	7.24	302
	Rithala GPS	108	48	29	0.96	40
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	575	455	10.88	453
	Thermal (Total)	2000	1165	1039	24.62	1026
Total Delhi	2000	1165	1039	24.62	1026	
HP	Baspa HPS (IPP)	330	330	330	7.93	330
	Malana HPS (IPP)	101	105	102	2.48	103
	Other Hydro	571	570	283	11.35	473
	Total HP	1002	1005	715	22	906
J & K	Baglihar HPS (IPP)	450	442	441	10.57	441
	Other Hydro	323	185	178	0.42	17
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	627	619	10.99	458
Total State Control Area Generation		27191	13095	11514	282.62	11340
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2656	3392	73.58	3066
Total Regional Availability(Gross)		47266	33088	28024	702.63	28841

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8713	5792	170.72	7113
State Control Area Hydro	5365	2491	1604	46.97	1957
Total Regional Hydro	14797	11204	7396	217.70	9071

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	350	300	500	0	9.72	0.00	9.72
Gwalior-Agra (D/C)	782	861	1106	0	22.47	0.00	22.47
Zerda-Kankroli	95	0	147	24	0.94	0.00	0.94
Zerda-Bhinmal	69	117	213	89	1.60	0.00	1.60
Malanpur-Auraiya	-20	-26	32	30	0.00	0.20	-0.20
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1276	1252			34.73	0.20	34.53
Pusauli Bypass	-66	171	214	178	1.69	0.66	1.03
MZP- GKP (D/C)	584	1108	1138	0	19.77	0.00	19.77
Patna-Balia(D/C)	231	415	443	0	6.89	0.00	6.89
B'Sharif-Balia (D/C)	520	340	552	0	8.63	0.00	8.63
Barh-Balia (D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	136	119	179	0	3.20	0.00	3.20
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-25	-13	0	30	0.00	0.47	-0.47
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1380	2140			40.18	1.13	39.05
Total IR Exch	2656	3392			74.91	1.33	73.58

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

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
14.49	3.82	18.30	22.11	28.46	-3.97	8.00	0.00	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
36.44	36.10	72.54	39.05	34.53	73.58	2.61	-1.57	1.04

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	0.10	0.40	2.10	7.40	95.30	89.00	30.70	7.60

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.35	17.00	48.97	19.48	49.93	0.33	0.17	50.26	49.55

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	416	08:44	404	03:32	0.0	0.0	0.0	0.0
Gorakhpur	400	440	07:41	268	17:13	0.5	0.5	84.7	28.2
Bareilly	400	429	08:00	404	19:48	0.0	0.0	34.7	0.0
Kanpur	400	424	09:00	403	03:32	0.0	0.0	11.3	0.0
Dadri	400	417	03:48	399	14:19	0.0	0.0	0.0	0.0
Ballabgarh	400	424	03:03	401	12:23	0.0	0.0	13.3	0.0
Bawana	400	421	03:04	399	13:46	0.0	0.0	2.2	0.0
Bassi	400	430	03:05	405	14:19	0.0	0.0	34.5	0.0
Hissar	400	414	03:06	394	13:41	0.0	0.0	0.0	0.0
Moga	400	416	04:03	396	14:22	0.0	0.0	0.0	0.0
Abdullapur	400	422	03:55	279	19:47	0.5	0.5	2.0	0.0
Nalagarh	400	426	03:52	395	13:48	0.0	0.0	22.3	0.0
Kishenpur	400	413	02:04	393	13:42	0.0	0.0	0.0	0.0
Wagoora	400	407	00:33	384	20:18	0.0	15.5	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	507.08	1411.35	507.18	1411.35	1972.32	826.11
Pong	426.72	384.05	423.07	1035.89	413.94	633.63	3203.09	494.72
Tehri	829.79	740.04	808.00	763.28	NA	NA	1124.00	569.00
Koteswar	612.50	598.50	607.90	3.54	NA	NA	417.00	145.00
Chamera-I	760.00	748.75	756.45	11.16	756.00	NA	616.82	344.85
Rihand	268.22	252.98	262.74	436.00	256.35	130.00	NA	NA
RPS	352.80	343.81	347.92	NA	347.49	NA	347.76	0.00
Jawahar Sagar	298.70	295.78	297.58	NA	297.61	NA	0.00	44.29
RSD	527.91	487.91	515.04	NA	518.98	NA	631.27	143.42

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.08.2011 :
Light Rain

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 : 17.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER