

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.08.2011
Date of Reporting : 11.08.2011

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
33878	3341	37219	49.77	32974	950	33924	49.98	793.1	34.84

* 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	53.66	16.49		70.16	106.05	103.00	-3.05	173.16	1.80
Haryana	58.30	0.79		59.10	69.24	69.13	-0.11	128.22	2.24
Rajasthan	70.80	1.60	8.45	80.85	22.77	32.08	9.30	112.93	0.34
Delhi	26.94			26.94	71.13	65.94	-5.19	92.87	0.14
UP	44.33	14.10	1.20	59.63	133.77	142.51	8.74	202.14	30.00
Uttarakhand		19.49		19.49	8.41	9.84	1.43	29.33	0.33
HP		23.23		23.23	-3.32	-0.55	2.77	22.68	0.00
J & K		12.81	0.00	12.81	14.43	13.42	-1.01	26.24	0.00
Chandigarh				0.00	6.32	5.50	-0.82	5.50	0.00
Total	254.04	88.52	9.65	352.20	428.81	440.86	12.06	793.07	34.84

* 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	7624	945	-20	1838	6770	0	-887	2257	50.63
Haryana	5710	222	146	1148	5398	0	70	1055	27.00
Rajasthan	4407	99	-163	-727	4696	0	741	-691	-16.81
Delhi	4239	0	-204	491	3656	0	-10	191	9.51
UP	8133	1935	253	1941	9248	950	632	2506	47.44
Uttarakhand	1288	140	103	-167	1243	0	39	-144	-3.89
HP	916	0	84	-1811	876	0	100	-1752	-42.12
J&K	1316	0	238	-387	894	0	-243	-387	-9.52
Chandigarh	245	0	-33	31	193	0	-49	19	1.04
Total	33878	3341	404	2356	32974	950	393	3054	63.28

* 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	760	929	819	18.93	789	18.09	0.84
	Rihand I STPS	1000	761	946	883	18.80	783	18.14	0.66
	Rihand II STPS	1000	828	929	873	20.10	837	19.67	0.43
	Dadri I STPS	840	596	655	463	12.82	534	12.62	0.20
	Dadri II STPS	980	960	1018	830	22.10	921	22.39	-0.29
	Unchahar I TPS	440	314	353	354	7.58	316	7.48	0.10
	Unchahar II TPS	440	300	330	328	7.21	301	7.08	0.13
	Unchahar III TPS	210	160	176	178	3.85	160	3.78	0.07
	ISTPP (Jhajjar)	500	400	389	355	7.81	325	9.16	-1.35
	Dadri GPS	830	751	754	639	15.58	649	15.77	-0.19
	Anta GPS	419	253	254	233	5.49	229	5.43	0.06
	Auraiya GPS	663	612	623	613	13.38	557	13.47	-0.09
	Sub Total (A)	9322	6695	7356	6568	153.65	6402	153.07	0.57
	B. NPC	NAPS	440	185	222	225	4.46	186	4.44
RAPS- B		440	385	425	425	9.15	381	9.24	-0.09
RAPS- C		440	420	471	475	9.90	412	10.08	-0.18
Sub Total (B)		1320	990	1118	1125	23.51	979	23.76	-0.25
C. NHPC	Chamera I HPS	540	542	540	540	12.54	522	11.93	0.61
	Chamera II HPS	300	297	305	301	7.18	299	7.24	-0.05
	Bairasuil HPS	180	179	179	20	3.56	148	3.79	-0.23
	Salal-HPS	690	634	634	634	15.24	635	15.21	0.03
	Tanakpur-HPS	94	93	94	93	2.28	95	2.24	0.03
	Uri-HPS	480	210	282	223	5.52	230	4.77	0.75
	Dhauliganga-HPS	280	277	275	279	6.65	277	6.73	-0.08
	Dulhasti-HPS	390	387	407	354	9.28	387	9.32	-0.04
	Sewa-II HPS	120	116	126	120	2.70	112	2.80	-0.10
	Sub Total (C)	3074	2735	2842	2564	64.94	2706	64.02	0.91
D.NJPC	Nathpa Jhakri	1500	1600	1616	1616	38.56	1607	38.40	0.16
	Sub Total (D)	1500	1600	1616	1616	38.56	1607	38.40	0.16
E. THDC	Tehri HPS	1000	878	930	919	20.90	871	20.70	0.20
	Koteshwar HPS	100	90	91	90	2.16	90	2.15	0.01
	Sub Total (E)	1100	968	1021	1009	23.06	961	22.85	0.21
F. BBMB	Bhakra HPS	1480	970	1075	967	23.74	989	23.28	0.46
	Dehar HPS	990	604	660	660	15.29	637	14.49	0.81
	Pong HPS	396	224	366	186	5.71	238	5.37	0.34
	Sub Total (F)	2866	1797	2101	1813	44.74	1864	43.14	1.60
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	142	99	2.82	117	2.70	0.12
	KWHEP HPS(IPP)	500	0	604	604	11.31	471	14.40	-3.09
	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	746	703	14.13	589	17.09	-2.97
H. Total Regional Entities (A-G)	20075	14785	16800	15398	362.58	15107	362.34	0.24	

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	1260.00	1260.00	27.89	1162	
	Guru Nanak Dev TPS(Bhatinda)	440	265.00	285.00	4.88	203	
	Guru Hargobind Singh TPS(L.mbt)	920	940.00	839.00	20.89	871	
	Thermal (Total)	2620	2465.00	2384.00	53.66	2236	
	Total Hydro	1148	924.00	625.00	16.49	687	
	Total Punjab	3768	3389	3009	70.16	2923	
Haryana	Panipat TPS	1360	1159.00	1193.00	28.47	1186	
	DCRTPP (Yamuna nagar)	600	531.00	530.00	11.83	493	
	Faridabad GPS (NTPC)	432	391.00	391.00	9.25	385	
	RGTPP (khedar) (IPP)	1200	335.00	332.00	8.75	365	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2416.00	2446.00	58.30	2429	
	Total Hydro	62	30.00	30.00	0.79	33	
	Total Haryana	3679	2446	2476	59.10	2462	
	Rajasthan	kota TPS	1240	1140.00	963.00	24.81	1034
suratgarh TPS		1500	1390.00	1323.00	32.60	1358	
Chabra TPS		500	0.00	0.00	0.00	0	
Dholpur GPS		330	275.00	270.00	6.66	278	
Ramgarh GPS		113	62.00	62.00	1.59	66	
RAPS A (NPC)		300	169.00	174.00	4.28	178	
Barsingsar (NLC)		250	0.00	0.00	0.00	0	
Giral LTPS (IPP)		250	48.00	44.00	0.87	36	
Rajwst LTPS (IPP)		135	0.00	0.00	0.00	0	
VSLP LTPS (IPP)		135	0.00	0.00	0.00	0	
Thermal (Total)		4753	3084.00	2836.00	70.80	2950	
Total Hydro		550	26.00	84.00	1.60	67	
Wind power		1294	400.00	61.00	8.11	338	
Biomass		71	14.00	14.00	0.34	14	
Renewable/Others (Total)		1365	414	75	8.45	352	
Total Rajasthan		6668	3524	2995	80.85	3369	
UP		Anpara TPS	1630	351	230	7.80	325
		Obra TPS	1442	373	352	8.70	363
	Paricha TPS	640	348	357	8.50	354	
	Panki TPS	210	72	72	1.70	71	
	Harduaganj TPS	375	0	0	0.00	0	
	Tanda TPS (NTPC)	440	293	295	7.19	300	
	Roza TPS (IPP)	600	423	351	8.73	364	
	Anpara-C (IPP)	600	77	78	1.71	71	
	Thermal (Total)	5937	1937	1735	44.33	1847	
	Vishnuparyag HPS (IPP)	400	327	436	9.83	410	
	Other Hydro	527	261	0	4.27	178	
	Cogeneration	951	50	50	1.20	50	
	Total UP	7815	2575	2221	59.63	2075	
	Uttarakhand	Total Hydro	1303	830	826	19.49	812
Total Uttarakhand		1303	830	826	19.49	812	
Delhi	Rajghat TPS	135	100	103	2.22	93	
	Delhi Gas Turbine	282	149	150	3.54	147	
	Pragati Gas Turbine	330	294	298	7.16	298	
	Rithala GPS	108	33	29	0.70	29	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	675	525	13.33	555	
	Thermal (Total)	2000	1251	1105	26.94	1122	
	Total Delhi	2000	1251	1105	26.94	1122	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	101	95	90	2.22	93	
	Other Hydro	571	569	529	13.09	545	
	Total HP	1002	994	949	23	968	
J & K	Baglihar HPS (IPP)	450	147	439	8.97	374	
	Other Hydro	323	176	180	3.85	160	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	323	619	12.81	534	
Total State Control Area Generation		27191	15332	14200	352.20	14265	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3230	4134	93.02	3876	
Total Regional Availability(Gross)		47266	35362	33732	807.80	33249	

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8326	7705	185.43	7726
State Control Area Hydro	5365	3388	3133	78.69	3279
Total Regional Hydro	14797	11714	10838	264.11	11005

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	500	100	500	0	6.85	0.00	6.85
Gwalior-Agra (D/C)	638	1145	1278	0	25.97	0.00	25.97
Zerda-Kankroli	169	294	451	0	5.44	0.00	5.44
Zerda-Bhinmal	195	380	471	0	6.27	0.00	6.27
Malanpur-Auraiya	-83	13	13	83	0.05	0.00	0.05
Badod-Kota/Morak	0	96	106	0	1.09	0.00	1.09
Sub Total WR	1419	2028			45.67	0.00	45.67
Pusauli Bypass	830	320	371	0	4.94	0.00	4.94
MZP- GKP (D/C)	334	1065	1300	0	24.45	0.00	24.45
Patna-Balia(D/C)	201	266	546	0	8.70	0.00	8.70
B'Sharif-Balia (D/C)	342	375	501	0	6.73	0.00	6.73
Barh-Balia (D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	136	100	173	0	3.02	0.00	3.02
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-20	0	35	0.00	0.49	-0.49
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1811	2106			47.83	0.49	47.34
Total IR Exch	3230	4134			93.50	0.49	93.02

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
16.72	3.79	20.51	26.83	30.03	-0.22	5.01	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
47.13	34.73	81.86	47.34	45.67	93.02	0.22	10.94	11.16

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
0.00	0.00	0.00	3.90	23.60	95.80	76.10	12.50

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.28	7.06	49.21	19.24	49.81	0.62	0.16	50.17	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	425	07:46	411	14:30	0.0	0.0	11.3	0.0
Gorakhpur	400	438	06:57	408	23:10	0.0	0.0	73.7	16.0
Bareilly	400	424	08:00	399	14:35	0.0	0.0	3.9	0.0
Kanpur	400	426	09:00	401	14:30	0.0	0.0	4.9	0.0
Dadri	400	415	07:34	396	15:50	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:33	397	14:31	0.0	0.0	0.3	0.0
Bawana	400	417	07:34	397	14:30	0.0	0.0	0.0	0.0
Bassi	400	424	07:36	395	14:29	0.0	0.0	6.0	0.0
Hissar	400	409	03:58	390	14:25	0.0	0.0	0.0	0.0
Moga	400	418	03:59	399	09:01	0.0	0.0	0.0	0.0
Abdullapur	400	415	08:01	397	14:30	0.0	0.0	0.0	0.0
Nalagarh	400	415	03:58	397	14:29	0.0	0.0	0.0	0.0
Kishenpur	400	413	23:30	398	04:53	0.0	0.0	0.0	0.0
Wagoora	400	410	00:51	386	20:26	0.0	12.6	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	501.64	1166.44	501.78	1166.44	1384.61	762.12
Pong	426.72	384.05	417.34	768.49	407.83	425.81	1410.55	331.79
Tehri	829.79	740.04	793.00	513.63	NA	NA	738.43	523.00
Koteshwar	612.50	598.50	606.90	3.10	NA	NA	526.00	132.00
Chamera-I	760.00	748.75	753.74	12.30	752.00	NA	265.13	310.05
Rihand	268.22	252.98	259.08	255.50	256.28	127.50	NA	NA
RPS	352.80	343.81	346.44	NA	NA	NA	246.70	0.00
Jawahar Sagar	298.70	295.78	297.27	NA	NA	NA	88.80	230.56
RSD	527.91	487.91	509.02	NA	517.02	NA	370.75	198.44

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.08.2011 :

1 : Cloudy 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 : 10.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER