

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.08.2011
Date of Reporting : 26.08.2011

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
34472	2557	37029	49.70	32084	650	32734	50.08	790.6	26.89

* 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	53.50	14.66		68.16	110.58	110.05	-0.53	178.21	1.80
Haryana	65.78	0.80		66.58	45.17	44.27	-0.90	110.85	0.98
Rajasthan	66.34	2.19	2.66	71.20	39.58	45.02	5.45	116.22	0.62
Delhi	25.19			25.19	66.72	63.70	-3.01	88.89	0.30
UP	48.46	16.51	0.00	64.97	138.55	150.00	11.46	214.97	23.10
Uttarakhand		22.05		22.05	9.45	6.84	-2.61	28.89	0.08
HP		22.64		22.64	-2.03	-0.97	1.07	21.67	0.00
J & K		14.18	0.00	14.18	14.29	11.31	-2.98	25.49	0.00
Chandigarh				0.00	6.17	5.44	-0.73	5.44	0.00
Total	259.27	93.02	2.66	354.96	428.46	435.67	7.21	790.63	26.89

* 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	7563	450	-74	1861	7159	0	-367	1930	45.06
Haryana	5012	432	45	658	4250	0	-245	536	14.22
Rajasthan	4821	0	180	-272	4878	0	278	-272	-6.54
Delhi	4174	0	9	553	3066	0	-306	546	13.24
UP	8906	1675	567	1727	9902	650	955	1727	41.45
Uttarakhand	1374	0	17	-100	1167	0	-53	-100	-2.40
HP	947	0	56	-1857	755	0	-132	-1859	-43.77
J&K	1419	0	121	-375	731	0	-400	-375	-9.24
Chandigarh	256	0	-11	54	176	0	-44	54	1.54
Total	34472	2557	910	2249	32084	650	-314	2187	53.56

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

III. Regional Entities :

A. NTPC	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
	Singrauli STPS	2000	1841	1837	1587	41.27	1720	40.60	0.67
	Rihand I STPS	1000	940	1030	1022	21.76	907	21.67	0.09
	Rihand II STPS	1000	478	513	475	10.99	458	10.88	0.11
	Dadri I STPS	840	596	658	418	11.35	473	11.67	-0.33
	Dadri II STPS	980	812	832	606	17.10	712	17.67	-0.58
	Unchahar I TPS	440	311	324	301	7.15	298	7.03	0.13
	Unchahar II TPS	440	249	176	303	5.39	225	5.29	0.10
	Unchahar III TPS	210	161	171	165	3.65	152	3.45	0.20
	ISTPP (Jhajjar)	500	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	782	571	562	12.18	508	13.16	-0.97
	Anta GPS	419	391	386	260	7.49	312	7.47	0.02
	Auraiya GPS	663	608	259	373	8.99	375	10.03	-1.03
	Sub Total (A)	9322	7170	6757	6072	147.32	6138	148.91	-1.59
B. NPC	NAPS	440	86	0	0	0.00	0	2.05	-2.05
	RAPS- B	440	192	215	215	4.61	192	4.61	0.00
	RAPS- C	440	420	473	474	10.17	424	10.08	0.09
	Sub Total (B)	1320	698	688	689	14.77	615	16.74	-1.97
C. NHPC	Chamera I HPS	540	535	540	540	12.82	534	12.82	0.00
	Chamera II HPS	300	297	301	299	7.15	298	7.21	-0.06
	Bairasuil HPS	180	179	179	179	3.41	142	3.76	-0.34
	Salal-HPS	690	533	516	518	12.80	533	12.79	0.01
	Tanakpur-HPS	94	93	94	94	2.26	94	2.24	0.01
	Uri-HPS	480	250	360	210	5.91	246	6.05	-0.14
	Dhauliganga-HPS	280	277	279	280	6.70	279	6.71	-0.01
	Dulhasti-HPS	390	387	409	331	8.97	374	9.20	-0.23
	Sewa-II HPS	120	119	122	117	2.86	119	2.86	0.00
	Sub Total (C)	3074	2669	2800	2568	62.87	2620	63.63	-0.76
D.NJPC	Nathpa Jhakri	1500	1600	1618	1615	38.46	1603	38.40	0.06
	Sub Total (D)	1500	1600	1618	1615	38.46	1603	38.40	0.06
E. THDC	Tehri HPS	1000	1040	1049	999	24.59	1024	24.50	0.09
	Koteshwar HPS	100	94	96	95	2.27	95	2.26	0.01
	Sub Total (E)	1100	1134	1145	1094	26.86	1119	26.76	0.10
F. BBMB	Bhakra HPS	1480	1227	1259	1258	30.16	1257	29.45	0.71
	Dehar HPS	990	604	825	660	14.93	622	14.50	0.43
	Pong HPS	396	354	366	366	8.87	370	8.50	0.37
	Sub Total (F)	2866	2185	2450	2284	53.96	2248	52.44	1.52
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	142	143	3.20	133	3.30	-0.10
	KWHEP HPS(IPP)	500	0	600	600	13.43	560	14.40	-0.97
	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	742	743	16.63	693	17.70	-1.07
H. Total Regional Entities (A-G)		20075	15455	16200	15065	360.87	15036	364.57	-3.71

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	1245.00	1110.00	27.12	1130
	Guru Nanak Dev TPS(Bhatinda)	440	290.00	295.00	6.08	253
	Guru Hargobind Singh TPS(L.mbt)	920	960.00	777.00	20.30	846
	Thermal (Total)	2620	2495.00	2182.00	53.50	2229
	Total Hydro	1148	715.00	530.00	14.66	611
Total Punjab	3768	3210	2712	68.16	2840	
Haryana	Panipat TPS	1360	931.00	942.00	22.30	929
	DCRTPP (Yamuna nagar)	600	537.00	248.00	12.27	511
	Faridabad GPS (NTPC)	432	395.00	321.00	8.88	370
	RGTPP (khedar) (IPP)	1200	537.00	820.00	22.33	930
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2400.00	2331.00	65.78	2741
	Total Hydro	62	26.00	32.00	0.80	33
	Total Haryana	3679	2426	2363	66.58	2774
Rajasthan	kota TPS	1240	756.00	695.00	18.91	788
	suratgarh TPS	1500	1138.00	984.00	26.90	1121
	Chabra TPS	500	225.00	194.00	5.23	218
	Dholpur GPS	330	274.00	274.00	6.44	268
	Ramgarh GPS	113	62.00	62.00	1.63	68
	RAPS A (NPC)	300	143.00	175.00	2.98	124
	Barsingsar (NLC)	250	47.00	51.00	1.28	53
	Giral LTPS (IPP)	250	143.00	139.00	2.98	124
	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	2788.00	2574.00	66.34	2764
	Total Hydro	550	95.00	98.00	2.19	91
	Wind power	1294	12.00	205.00	2.27	95
	Biomass	71	17.00	17.00	0.39	16
	Renewable/Others (Total)	1365	29	222	2.66	111
	Total Rajasthan	6668	2912	2894	71.20	2966
	UP	Anpara TPS	1630	744	811	18.10
Obra TPS		1442	398	377	9.10	379
Paricha TPS		640	201	365	8.00	333
Panki TPS		210	43	70	1.30	54
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	290	184	5.64	235
Roza TPS (IPP)		600	284	279	6.32	263
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	1960	2086	48.46	2019
Vishnuparyag HPS (IPP)		400	436	436	10.45	435
Other Hydro		527	294	0	6.06	253
Cogeneration		951	0	0	0.00	0
Total UP		7815	2690	2522	64.97	2272
Uttarakhand	Total Hydro	1303	919	924	22.05	919
	Total Uttarakhand	1303	919	924	22.05	919
Delhi	Rajghat TPS	135	64	91	2.12	88
	Delhi Gas Turbine	282	108	115	2.67	111
	Pragati Gas Turbine	330	294	265	7.17	299
	Rithala GPS	108	19	29	1.05	44
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	571	562	12.18	508
	Thermal (Total)	2000	1056	1062	25.19	1049
	Total Delhi	2000	1056	1062	25.19	1049
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	101	95	1.94	81
	Other Hydro	571	575	578	12.78	533
	Total HP	1002	1006	1003	23	943
J & K	Baglihar HPS (IPP)	450	442	440	10.58	441
	Other Hydro	323	161	182	3.60	150
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	603	622	14.18	591
Total State Control Area Generation		27191	14822	14102	354.96	14354
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4351	3386	90.91	3788
Total Regional Availability(Gross)		47266	35373	32553	806.73	33179

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8755	8304	198.78	8283
State Control Area Hydro	5365	3658	3209	82.57	3441
Total Regional Hydro	14797	12413	11513	281.35	11723

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	500	500	0	11.50	0.00	11.50
Gwalior-Agra (D/C)	1132	1060	1418	0	29.18	0.00	29.18
Zerda-Kankroli	204	0	326	78	3.28	0.00	3.28
Zerda-Bhinmal	302	218	474	0	5.99	0.00	5.99
Malanpur-Auraiya	85	54	125	0	1.33	0.00	1.33
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	2223	1832			51.28	0.00	51.28
Pusauli Bypass	83	-96	83	213	0.21	1.61	-1.40
MZP- GKP (D/C)	1040	900	1048	0	20.77	0.00	20.77
Patna-Balia(D/C)	338	386	462	0	9.17	0.00	9.17
B'Sharif-Balia (D/C)	307	262	365	0	6.83	0.00	6.83
Barh-Balia (D/C)	370	0	388	0	1.49	0.00	1.49
Pusauli-Sahupuri	25	132	168	0	3.37	0.00	3.37
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-30	0	35	0.00	0.60	-0.60
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2128	1554			41.84	2.21	39.63
Total IR Exch	4351	3386			93.11	2.21	90.91

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
14.64	3.41	18.05	19.91	32.69	0.06	7.13	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
38.02	39.13	77.15	39.63	51.28	90.91	1.62	12.15	13.76

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	2.70	9.90	95.40	88.20	37.30

----- 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				
50.39	17.04	49.22	20.13	49.93	0.34	0.17	50.27	49.49

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	413	08:03	402	22:16	0.0	0.0	0.0	0.0
Gorakhpur	400	438	17:04	403	22:21	0.0	0.0	59.5	11.4
Bareilly	400	418	08:00	397	19:11	0.0	0.0	0.0	0.0
Kanpur	400	419	09:00	395	22:16	0.0	0.0	0.0	0.0
Dadri	400	411	08:00	394	22:16	0.0	0.0	0.0	0.0
Ballabgarh	400	416	07:59	396	14:46	0.0	0.0	0.0	0.0
Bawana	400	413	07:59	394	14:46	0.0	0.0	0.0	0.0
Bassi	400	423	03:35	399	14:46	0.0	0.0	12.4	0.0
Hissar	400	410	04:01	394	14:45	0.0	0.0	0.0	0.0
Moga	400	415	04:02	401	09:36	0.0	0.0	0.0	0.0
Abdullapur	400	411	08:04	395	14:45	0.0	0.0	0.0	0.0
Nalagarh	400	413	03:33	393	14:47	0.0	0.0	0.0	0.0
Kishenpur	400	412	05:16	394	19:11	0.0	0.0	0.0	0.0
Wagoora	400	413	00:51	383	19:11	0.0	1.2	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	509.12	1500.16	510.22	1560.04	1376.17	929.78
Pong	426.72	384.05	422.13	990.81	420.11	889.22	1389.02	495.97
Tehri	829.79	740.04	811.95	842.28	NA	NA	719.38	558.00
Koteshwar	612.50	598.50	607.70	3.54	NA	NA	553.00	148.00
Chamera-I	760.00	748.75	757.57	13.85	756.00	NA	389.98	350.40
Rihand	268.22	252.98	263.38	504.00	256.52	137.50	NA	NA
RPS	352.80	343.81	348.03	NA	349.18	NA	NA	0.00
Jawahar Sagar	298.70	295.78	297.00	NA	298.03	NA	NA	0.00
RSD	527.91	487.91	519.25	NA	521.16	NA	483.91	161.80

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.08.2011 :

1. Hot & Humid Weather/ Scattered Rain 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 : 25.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER