

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.08.2011

Date of Reporting : 09.08.2011

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
32993	2744	35737	49.78	35585	1020	36605	49.84	805.0	36.19

* 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	54.25	16.21		70.46	106.33	95.43	-10.89	165.89	1.80
Haryana	53.92	0.73		54.65	72.93	75.63	2.70	130.28	1.49
Rajasthan	71.59	1.34	6.34	79.27	26.15	45.16	19.01	124.43	0.59
Delhi	26.04			26.04	76.07	69.03	-7.03	95.07	0.01
UP	49.43	9.44	1.20	60.07	136.50	150.48	13.98	210.54	27.79
Uttarakhand		11.16		11.16	7.92	15.99	8.06	27.15	2.53
HP		23.24		23.24	-1.86	-2.31	-0.44	20.93	0.79
J & K		14.00	0.00	14.00	15.14	11.04	-4.10	25.04	1.20
Chandigarh				0.00	6.39	5.64	-0.75	5.64	0.00
Total	255.22	76.12	7.54	338.88	445.57	466.09	20.53	804.97	36.19

* 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	6302	450	-1022	1837	7777	0	-15	2267	49.86
Haryana	5648	0	-89	1235	5703	70	768	1078	27.40
Rajasthan	4395	164	189	-672	5533	0	866	-697	-14.72
Delhi	4370	0	-101	551	3678	0	-627	401	10.12
UP	8996	1805	1011	1730	9906	950	1056	2317	45.29
Uttarakhand	1025	275	368	-167	1091	0	-59	-144	-3.89
HP	743	50	139	-1811	810	0	-242	-1808	-42.04
J&K	1255	0	-110	-380	879	0	-231	-380	-9.36
Chandigarh	259	0	-29	31	208	0	-26	19	1.04
Total	32993	2744	356	2353	35585	1020	1490	3052	63.69

* 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	769	1073	839	18.73	780	18.46	0.27
	Rihand I STPS	1000	940	1031	1021	22.73	947	22.56	0.17
	Rihand II STPS	1000	937	998	1044	22.74	948	22.49	0.25
	Dadri I STPS	840	576	654	610	13.55	565	13.82	-0.26
	Dadri II STPS	980	960	1016	966	22.84	952	22.98	-0.14
	Unchahar I TPS	440	401	441	441	9.66	403	9.62	0.04
	Unchahar II TPS	440	398	437	436	9.59	399	9.50	0.08
	Unchahar III TPS	210	197	217	217	4.77	199	4.71	0.06
	ISTPP (Jhajjar)	500	448	370	360	8.35	348	10.09	-1.74
	Dadri GPS	830	733	742	758	16.17	674	16.22	-0.05
	Anta GPS	419	371	391	350	8.13	339	7.99	0.14
	Auraiya GPS	663	612	618	625	13.29	554	13.34	-0.05
	Sub Total (A)	9322	7340	7988	7667	170.57	7107	171.78	-1.21
B. NPC	NAPS	440	185	228	230	4.45	185	4.44	0.00
	RAPS- B	440	388	423	422	9.12	380	9.31	-0.19
	RAPS- C	440	420	465	471	10.15	423	10.08	0.07
	Sub Total (B)	1320	993	1116	1123	23.71	988	23.83	-0.12
C. NHPC	Chamera I HPS	540	534	540	540	11.44	477	11.31	0.13
	Chamera II HPS	300	297	301	303	7.21	300	7.25	-0.04
	Bairasuil HPS	180	123	179	0	2.04	85	1.92	0.13
	Salal-HPS	690	612	635	615	14.89	621	14.81	0.08
	Tanakpur-HPS	94	89	62	94	1.99	83	2.16	-0.16
	Uri-HPS	480	235	360	240	5.40	225	5.92	-0.52
	Dhauliganga-HPS	280	272	282	276	6.31	263	6.66	-0.35
	Dulhasti-HPS	390	387	407	405	9.24	385	9.25	-0.01
	Sewa-II HPS	120	119	123	14	2.54	106	2.60	-0.07
	Sub Total (C)	3074	2667	2889	2487	61.06	2544	61.88	-0.82
D. NJPC	Nathpa Jhakri	1500	1600	1617	1612	38.46	1603	38.39	0.07
	Sub Total (D)	1500	1600	1617	1612	38.46	1603	38.39	0.07
E. THDC	Tehri HPS	1000	896	903	704	20.55	856	20.30	0.25
	Koteshwar HPS	100	86	89	87	2.06	86	2.05	0.01
	Sub Total (E)	1100	982	992	791	22.61	942	22.35	0.26
F. BBMB	Bhakra HPS	1480	991	1076	966	24.31	1013	23.78	0.53
	Dehar HPS	990	608	660	620	15.22	634	14.59	0.63
	Pong HPS	396	222	368	186	5.67	236	5.34	0.33
	Sub Total (F)	2866	1821	2104	1772	45.20	1883	43.70	1.50
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	143	142	3.15	131	2.63	0.52
	KWHEP HPS(IPP)	500	0	604	604	12.61	525	14.40	-1.79
	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	747	746	15.76	657	17.03	-1.27
H. Total Regional Entities (A-G)		20075	15404	17453	16198	377.37	15724	378.96	-1.59

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	28.14	1173
	Guru Nanak Dev TPS(Bhatinda)	440	285.00	215.00	5.37	224
	Guru Hargobind Singh TPS(L.mbt)	920	940.00	945.00	20.74	864
	Thermal (Total)	2620	2485.00	2420.00	54.25	2261
	Total Hydro	1148	636.00	754.00	16.21	675
	Total Punjab	3768	3121	3174	70.46	2936
Haryana	Panipat TPS	1360	1153.00	1138.00	27.57	1149
	DCRTPP (Yamuna nagar)	600	573.00	523.00	11.59	483
	Faridabad GPS (NTPC)	432	392.00	397.00	9.44	393
	RGTPP (khedar) (IPP)	1200	363.00	0.00	5.31	221
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2481.00	2058.00	53.92	2247
	Total Hydro	62	24.00	30.00	0.73	31
	Total Haryana	3679	2505	2088	54.65	2277
Rajasthan	kota TPS	1240	1111.00	1134.00	25.91	1080
	suratgarh TPS	1500	1116.00	1078.00	27.06	1127
	Chabra TPS	500	0.00	213.00	3.25	135
	Dholpur GPS	330	275.00	263.00	6.59	275
	Ramgarh GPS	113	62.00	62.00	1.59	66
	RAPS A (NPC)	300	172.00	173.00	4.30	179
	Barsingsar (NLC)	250	0.00	88.00	1.29	54
	Giral LTPS (IPP)	250	57.00	0.00	1.59	66
	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	2793.00	3011.00	71.59	2983
	Total Hydro	550	78.00	57.00	1.34	56
	Wind power	1294	134.00	631.00	6.02	251
	Biomass	71	14.00	14.00	0.33	14
	Renewable/Others (Total)	1365	148	645	6.34	264
	Total Rajasthan	6668	3019	3713	79.27	3303
	UP	Anpara TPS	1630	569	443	11.80
Obra TPS		1442	389	472	9.30	388
Paricha TPS		640	348	410	7.90	329
Panki TPS		210	90	63	1.70	71
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	295	294	7.26	302
Roza TPS (IPP)		600	279	554	11.47	478
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	1970	2236	49.43	2059
Vishnuparyag HPS (IPP)		400	436	0	6.25	260
Other Hydro		527	61	32	3.19	133
Cogeneration		951	50	50	1.20	50
Total UP		7815	2517	2318	60.07	2242
Uttarakhand	Total Hydro	1303	320	815	11.16	465
	Total Uttarakhand	1303	320	815	11.16	465
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	147	150	3.58	149
	Pragati Gas Turbine	330	289	285	7.19	300
	Rithala GPS	108	44	29	0.87	36
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	685	645	14.39	599
	Thermal (Total)	2000	1165	1109	26.04	1085
	Total Delhi	2000	1165	1109	26.04	1085
HP	Baspa HPS (IPP)	330	0	466	7.93	330
	Malana HPS (IPP)	101	93	93	2.22	93
	Other Hydro	571	598	619	13.09	545
	Total HP	1002	691	1178	23	968
J & K	Baglihar HPS (IPP)	450	440	441	10.56	440
	Other Hydro	323	135	151	3.44	143
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	575	592	14.00	583
Total State Control Area Generation		27191	13913	14987	338.88	13860
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3188	5325	106.38	4433
Total Regional Availability(Gross)		47266	34554	36510	822.63	34016

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8349	7408	183.09	7629
State Control Area Hydro	5365	2385	3458	69.87	2911
Total Regional Hydro	14797	10734	10866	252.96	10540

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	300	500	500	0	11.64	0.00	11.64
Gwalior-Agra (D/C)	930	1274	1286	0	27.09	0.00	27.09
Zerda-Kankroli	-18	111	214	66	1.20	0.00	1.20
Zerda-Bhinmal	65	163	305	71	3.54	0.00	3.54
Malanpur-Auraiya	-34	13	15	35	0.25	0.00	0.25
Badod-Kota/Morak	56	127	140	0	2.41	0.00	2.41
Sub Total WR	1299	2188			46.14	0.00	46.14
Pusauli Bypass	181	418	516	0	7.60	0.00	7.60
MZP- GKP (D/C)	972	1422	1480	0	29.25	0.00	29.25
Patna-Balia(D/C)	348	694	753	0	12.35	0.00	12.35
B'Sharif-Balia (D/C)	272	509	568	0	8.16	0.00	8.16
Barh-Balia (D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	148	114	160	0	3.38	0.00	3.38
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	1889	3137			60.74	0.49	60.25
Total IR Exch	3188	5325			106.87	0.49	106.38

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
17.06	3.79	20.84	26.83	30.21	0.27	4.73	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
47.95	34.55	82.50	60.25	46.14	106.38	12.30	11.58	23.88

VI. Frequency Profile

----- % of Time Frequency ----->							
<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.0
0.00	0.00	0.00	2.60	25.90	97.20	73.90	5.10

----- 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	13.04	49.32	19.30	49.79	0.66	0.14	50.14	49.58

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	412	19:02	402	00:06	0.0	0.0	0.0	0.0
Gorakhpur	400	437	07:48	405	00:00	0.1	0.1	72.0	18.6
Bareilly	400	423	08:00	399	11:14	0.0	0.0	3.8	0.0
Kanpur	400	421	09:00	404	22:11	0.0	0.0	0.5	0.0
Dadri	400	414	08:01	397	00:38	0.0	0.0	0.0	0.0
Ballabgarh	400	419	07:47	398	14:25	0.0	0.0	0.0	0.0
Bawana	400	416	08:02	396	14:23	0.0	0.0	0.0	0.0
Bassi	400	428	07:43	409	00:09	0.0	0.0	30.1	0.0
Hissar	400	411	19:01	391	14:23	0.0	0.0	0.0	0.0
Moga	400	419	19:00	399	00:23	0.0	0.0	0.0	0.0
Abdullapur	400	413	08:02	398	14:00	0.0	0.0	0.0	0.0
Nalagarh	400	414	20:01	396	14:20	0.0	0.0	0.0	0.0
Kishenpur	400	415	07:11	399	03:35	0.0	0.0	0.0	0.0
Wagoora	400	412	23:56	387	19:28	0.0	3.5	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	501.26	1153.36	500.98	1140.31	1540.00	760.87
Pong	426.72	384.05	416.90	755.83	407.38	416.46	2719.83	339.09
Tehri	829.79	740.04	792.50	483.10	NA	NA	750.21	525.00
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	508.31	NA	515.85	NA	275.21	255.73

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.08.2011 :

1 : Rain in Himanchal / J&K / Punjab and Scatterred Rain in other part of N R.

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 : 08.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER