

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.08.2011
Date of Reporting : 28.08.2011

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
34346	2408	36754	49.95	34463	650	35113	49.93	804.8	30.89

* 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	53.75	14.17		67.92	113.50	110.79	-2.71	178.71	1.80
Haryana	65.78	0.20		65.98	49.11	50.56	1.45	116.54	1.47
Rajasthan	68.64	1.83	2.56	73.04	38.86	45.23	6.37	118.27	0.71
Delhi	26.44			26.44	65.03	62.76	-2.28	89.20	0.07
UP	51.79	16.45	0.00	68.23	138.46	152.66	14.20	220.89	26.26
Uttarakhand		15.97		15.97	8.41	11.18	2.78	27.15	0.56
HP		22.56		22.56	-1.96	-2.06	-0.09	20.50	0.02
J & K		14.30	0.00	14.30	14.00	14.18	0.18	28.49	0.00
Chandigarh				0.00	5.84	5.05	-0.80	5.05	0.00
Total	266.40	85.47	2.56	354.44	431.25	450.35	19.10	804.79	30.89

* 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	7369	450	-219	1861	7755	0	171	1930	45.06
Haryana	5299	268	228	533	4947	0	29	533	11.75
Rajasthan	4791	0	253	-272	5031	0	74	-272	-6.54
Delhi	4154	0	101	553	3341	0	-113	546	13.24
UP	8936	1550	458	1727	10343	650	1182	1727	41.44
Uttarakhand	1166	140	285	-100	1128	0	184	-100	-2.40
HP	977	0	79	-1859	739	0	30	-1860	-43.81
J&K	1416	0	95	-375	992	0	-126	-375	-9.24
Chandigarh	238	0	-33	54	187	0	-34	54	1.54
Total	34346	2408	1247	2122	34463	650	1397	2183	51.03

* 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	1483	1693	1585	35.81	1492	35.59	0.22
	Rihand I STPS	1000	884	927	1012	20.90	871	21.22	-0.31
	Rihand II STPS	1000	480	516	522	11.62	484	11.52	0.10
	Dadri I STPS	840	596	655	579	12.40	517	13.04	-0.64
	Dadri II STPS	980	815	825	639	17.68	737	18.13	-0.45
	Unchahar I TPS	440	301	389	314	7.32	305	7.24	0.08
	Unchahar II TPS	440	301	384	323	7.14	298	7.24	-0.09
	Unchahar III TPS	210	154	196	174	3.72	155	3.69	0.03
	ISTPP (Jhajjar)	500	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	777	751	652	15.57	649	15.74	-0.17
	Anta GPS	419	389	385	340	7.85	327	8.03	-0.18
	Auraiya GPS	663	606	454	508	10.94	456	11.18	-0.23
	Sub Total (A)	9322	6786	7175	6648	150.97	6290	152.61	-1.64
B. NPC	NAPS	440	185	217	209	4.28	179	4.44	-0.16
	RAPS- B	440	192	215	217	4.58	191	4.61	-0.03
	RAPS- C	440	420	472	471	10.11	421	10.08	0.03
	Sub Total (B)	1320	797	904	897	18.98	791	19.13	-0.15
C. NHPC	Chamera I HPS	540	534	540	540	12.88	537	12.82	0.06
	Chamera II HPS	300	297	305	300	7.19	299	7.18	0.01
	Bairasuil HPS	180	142	179	120	2.67	111	2.55	0.12
	Salal-HPS	690	623	626	623	14.97	624	14.95	0.02
	Tanakpur-HPS	94	94	94	94	2.24	93	2.24	-0.01
	Uri-HPS	480	254	360	211	6.00	250	6.02	-0.02
	Dhauliganga-HPS	280	277	278	279	6.67	278	6.71	-0.05
	Dulhasti-HPS	390	259	277	131	5.37	224	5.24	0.14
	Sewa-II HPS	120	119	122	0	2.01	84	2.16	-0.15
	Sub Total (C)	3074	2598	2781	2298	59.99	2500	59.87	0.12
D. NJPC	Nathpa Jhakri	1500	1600	1621	1620	38.53	1605	38.36	0.17
	Sub Total (D)	1500	1600	1621	1620	38.53	1605	38.36	0.17
E. THDC	Tehri HPS	1000	1046	1040	1039	24.81	1034	24.75	0.06
	Koteshwar HPS	100	94	96	95	2.25	94	2.26	-0.01
	Sub Total (E)	1100	1140	1136	1134	27.06	1128	27.01	0.06
F. BBMB	Bhakra HPS	1480	1227	1259	1258	30.04	1252	29.45	0.59
	Dehar HPS	990	605	775	610	14.85	619	14.53	0.32
	Pong HPS	396	354	366	366	8.90	371	8.50	0.40
	Sub Total (F)	2866	2186	2400	2234	53.79	2241	52.47	1.32
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	140	113	2.82	117	3.30	-0.48
	KWHEP HPS(IPP)	500	0	650	650	12.64	527	14.41	-1.76
	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	790	763	15.46	644	17.70	-2.24
H. Total Regional Entities (A-G)		20075	15107	16807	15594	364.78	15199	367.15	-2.37

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	1255.00	27.51	1146
	Guru Nanak Dev TPS(Bhatinda)	440	293.00	295.00	6.11	255
	Guru Hargobind Singh TPS(L.mbt)	920	914.00	945.00	20.13	839
	Thermal (Total)	2620	2452.00	2495.00	53.75	2240
	Total Hydro	1148	733.00	524.00	14.17	590
	Total Punjab	3768	3185	3019	67.92	2830
Haryana	Panipat TPS	1360	1131.00	1040.00	25.82	1076
	DCRTPP (Yamuna nagar)	600	563.00	565.00	12.71	530
	Faridabad GPS (NTPC)	432	323.00	355.00	7.76	323
	RGTPP (khedar) (IPP)	1200	783.00	786.00	19.49	812
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2800.00	2746.00	65.78	2741
	Total Hydro	62	0.00	25.00	0.20	8
	Total Haryana	3679	2800	2771	65.98	2749
Rajasthan	kota TPS	1240	968.00	968.00	22.47	936
	suratgarh TPS	1500	1169.00	1122.00	26.26	1094
	Chabra TPS	500	227.00	221.00	5.09	212
	Dholpur GPS	330	272.00	250.00	6.39	266
	Ramgarh GPS	113	62.00	62.00	1.60	67
	RAPS A (NPC)	300	184.00	181.00	4.42	184
	Barsingsar (NLC)	250	47.00	53.00	1.18	49
	Giral LTPS (IPP)	250	46.00	50.00	1.23	51
	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	2975.00	2907.00	68.64	2860
	Total Hydro	550	89.00	45.00	1.83	76
	Wind power	1294	0.00	270.00	2.18	91
	Biomass	71	16.00	16.00	0.38	16
	Renewable/Others (Total)	1365	16	286	2.56	107
	Total Rajasthan	6668	3080	3238	73.04	3043
	UP	Anpara TPS	1630	792	783	18.70
Obra TPS		1442	437	412	9.80	408
Paricha TPS		640	207	363	8.00	333
Panki TPS		210	59	45	1.30	54
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	181	290	7.26	302
Roza TPS (IPP)		600	284	283	6.73	280
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	1960	2176	51.79	2158
Vishnuparyag HPS (IPP)		400	436	436	10.45	435
Other Hydro		527	270	0	5.99	250
Cogeneration		951	0	0	0.00	0
Total UP		7815	2666	2612	68.23	2408
Uttarakhand		Total Hydro	1303	438	720	15.97
	Total Uttarakhand	1303	438	720	15.97	665
Delhi	Rajghat TPS	135	109	59	1.83	76
	Delhi Gas Turbine	282	153	149	3.61	150
	Pragati Gas Turbine	330	297	299	7.21	301
	Rithala GPS	108	49	29	1.07	44
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	570	580	12.72	530
	Thermal (Total)	2000	1178	1116	26.44	1102
	Total Delhi	2000	1178	1116	26.44	1102
HP	Baspa HPS (IPP)	330	330	330	7.93	330
	Malana HPS (IPP)	101	88	35	2.12	89
	Other Hydro	571	575	459	12.51	521
	Total HP	1002	993	824	23	940
J & K	Baglihar HPS (IPP)	450	438	437	10.50	437
	Other Hydro	323	172	180	3.81	159
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	610	617	14.30	596
Total State Control Area Generation		27191	14950	14917	354.44	14333
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3937	4455	92.47	3853
Total Regional Availability(Gross)		47266	35694	34966	811.68	33384

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8728	8049	194.83	8118
State Control Area Hydro	5365	3133	2755	75.02	3126
Total Regional Hydro	14797	11861	10804	269.85	11244

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	11.98	0.00	11.98
Gwalior-Agra (D/C)	1111	1428	1537	0	31.48	0.00	31.48
Zerda-Kankroli	100	291	292	78	3.80	0.00	3.80
Zerda-Bhinmal	217	295	446	0	6.55	0.00	6.55
Malanpur-Auraiya	8	77	1	0	1.52	0.00	1.52
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1936	2591			55.33	0.00	55.33
Pusauli Bypass	200	-97	200	189	0.90	1.23	-0.33
MZP- GKP (D/C)	912	894	928	0	17.58	0.00	17.58
Patna-Balia(D/C)	448	320	448	0	7.92	0.00	7.92
B'Sharif-Balia (D/C)	342	298	517	0	6.05	0.00	6.05
Barh-Balia (D/C)	0	352	339	0	2.91	0.00	2.91
Pusauli-Sahupuri	134	127	173	0	3.60	0.00	3.60
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	2001	1864			38.96	1.83	37.14
Total IR Exch	3937	4455			94.29	1.83	92.47

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
16.54	3.52	20.06	18.18	33.20	0.86	5.91	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
39.09	38.46	77.55	37.14	55.33	92.47	-1.96	16.87	14.91

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	0.00	0.30	8.70	97.10	88.70	32.00	2.60

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	8.02	49.37	19.21	49.92	0.30	0.15	50.30	49.73

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	414	07:42	402	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	435	06:09	206	23:56	0.2	0.2	43.7	4.4
Bareilly	400	424	08:00	397	19:20	0.0	0.0	2.2	0.0
Kanpur	400	423	09:00	398	19:19	0.0	0.0	2.4	0.0
Dadri	400	416	07:41	396	15:13	0.0	0.0	0.0	0.0
Ballabgarh	400	422	07:39	399	19:20	0.0	0.0	2.1	0.0
Bawana	400	418	07:41	398	19:18	0.0	0.0	0.0	0.0
Bassi	400	426	07:39	401	14:57	0.0	0.0	13.1	0.0
Hissar	400	412	07:37	398	19:19	0.0	0.0	0.0	0.0
Moga	400	415	08:02	398	12:26	0.0	0.0	0.0	0.0
Abdullapur	400	414	07:37	246	15:18	0.1	0.1	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	412	23:57	394	19:15	0.0	0.0	0.0	0.0
Wagoora	400	409	01:03	384	19:15	0.0	9.7	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	509.75	1545.02	510.58	1575.10	1404.00	924.58
Pong	426.72	384.05	421.80	975.89	420.94	931.43	1229.63	498.35
Tehri	829.79	740.04	816.75	942.25	NA	NA	1492.00	558.00
Koteshwar	612.50	598.50	607.90	3.54	NA	NA	661.00	149.00
Chamera-I	760.00	748.75	757.96	12.82	757.30	NA	419.76	346.90
Rihand	268.22	252.98	263.59	NA	256.67	143.80	NA	NA
RPS	352.80	343.81	348.30	NA	348.36	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.24	NA	297.82	NA	NA	0.00
RSD	527.91	487.91	520.85	NA	521.55	NA	439.62	174.37

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 27.08.2011 :

1. Hot & Humid Weather in NR.

XII. Synchronisation of new generating units :

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

1.Kaithal -Patiala-1 Synchronise at 22:56 hrs at kaithal.

2Kaithal-Patiala-2 Synchronise at 23:04 hrs at kaitha(LILO of patiala-Nallagarh-kaithal at Patiala).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 27.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER