

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.08.2011
Date of Reporting : 27.08.2011

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
34427	3722	38149	49.75	33122	650	33772	50.04	809.2	32.07

* 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	54.98	13.91		68.89	111.53	111.71	0.18	180.60	8.05
Haryana	68.92	0.72		69.63	48.89	45.66	-3.24	115.29	2.08
Rajasthan	66.12	2.15	1.85	70.12	39.20	45.09	5.89	115.21	0.95
Delhi	25.39			25.39	67.36	65.83	-1.53	91.22	0.08
UP	49.73	16.54	0.00	66.27	138.10	154.80	16.69	221.06	20.77
Uttarakhand		21.97		21.97	7.93	7.35	-0.57	29.32	0.15
HP		23.81		23.81	-2.31	-1.56	0.75	22.24	0.00
J & K		14.16	0.00	14.16	14.78	14.58	-0.20	28.73	0.00
Chandigarh				0.00	5.98	5.57	-0.42	5.57	0.00
Total	265.13	93.25	1.85	360.23	431.47	449.01	17.54	809.24	32.07

* 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	7407	1675	-113	1861	7412	0	-75	1930	45.06
Haryana	5005	647	0	533	4772	0	-230	532	10.75
Rajasthan	4820	0	138	-272	4863	0	445	-272	-6.54
Delhi	4169	0	-8	553	3478	0	-222	546	13.24
UP	9054	1250	644	1727	9497	650	756	1727	41.45
Uttarakhand	1326	150	-16	-100	1162	0	-28	-100	-2.40
HP	957	0	79	-1861	793	0	-72	-1863	-43.89
J&K	1438	0	172	-375	951	0	-210	-375	-9.24
Chandigarh	251	0	-11	54	194	0	-20	54	1.54
Total	34427	3722	885	2120	33122	650	344	2179	49.97

* 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	1601	1438	1994	37.86	1577	37.77	0.08
	Rihand I STPS	1000	869	591	935	20.50	854	20.22	0.27
	Rihand II STPS	1000	478	517	506	11.38	474	11.18	0.20
	Dadri I STPS	840	596	655	419	13.68	570	13.01	0.67
	Dadri II STPS	980	815	830	605	18.01	750	18.31	-0.30
	Unchahar I TPS	440	301	325	313	7.21	300	7.04	0.17
	Unchahar II TPS	440	301	328	306	7.11	296	6.80	0.31
	Unchahar III TPS	210	154	171	171	3.74	156	3.45	0.29
	ISTPP (Jhajjar)	500	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	775	763	460	13.39	558	14.46	-1.07
	Anta GPS	419	390	392	346	8.35	348	8.31	0.04
	Auraiya GPS	663	609	604	332	10.13	422	10.83	-0.69
	Sub Total (A)	9322	6889	6614	6387	151.35	6306	151.37	-0.02
B. NPC	NAPS	440	135	212	108	3.20	133	3.24	-0.04
	RAPS- B	440	192	215	218	4.03	168	4.61	-0.58
	RAPS- C	440	420	466	476	10.12	422	10.08	0.04
	Sub Total (B)	1320	747	893	802	17.34	723	17.93	-0.59
C. NHPC	Chamera I HPS	540	534	540	540	12.87	536	12.82	0.04
	Chamera II HPS	300	297	303	301	7.19	299	7.24	-0.06
	Bairasuil HPS	180	23	0	0	5.17	216	0.45	4.73
	Salal-HPS	690	625	620	622	14.98	624	15.00	-0.03
	Tanakpur-HPS	94	90	94	94	2.24	93	2.24	0.00
	Uri-HPS	480	247	360	237	5.92	247	6.23	-0.31
	Dhauliganga-HPS	280	277	281	279	6.73	280	6.64	0.09
	Dulhasti-HPS	390	352	275	408	8.39	349	8.38	0.01
	Sewa-II HPS	120	119	124	0	1.80	75	1.77	0.03
	Sub Total (C)	3074	2565	2597	2481	65.27	2720	60.77	4.50
D.NJPC	Nathpa Jhakri	1500	1600	1621	1620	38.56	1607	38.40	0.16
	Sub Total (D)	1500	1600	1621	1620	38.56	1607	38.40	0.16
E. THDC	Tehri HPS	1000	1040	1046	1000	24.72	1030	24.50	0.22
	Koteshwar HPS	100	94	96	95	2.25	94	2.26	-0.01
	Sub Total (E)	1100	1134	1142	1095	26.97	1124	26.76	0.22
F. BBMB	Bhakra HPS	1480	1225	1258	1259	30.23	1260	29.39	0.84
	Dehar HPS	990	603	825	600	14.52	605	14.47	0.05
	Pong HPS	396	354	366	366	8.84	368	8.50	0.34
	Sub Total (F)	2866	2181	2449	2225	53.59	2233	52.35	1.24
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	143	111	2.79	116	3.30	-0.51
	KWHEP HPS(IPP)	500	0	600	600	14.32	597	14.40	-0.07
	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	743	711	17.11	713	17.70	-0.59
H. Total Regional Entities (A-G)		20075	15116	16059	15321	370.19	15425	365.27	4.92

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	1255.00	1240.00	27.94	1164
	Guru Nanak Dev TPS(Bhatinda)	440	293.00	290.00	6.05	252
	Guru Hargobind Singh TPS(L.mbt)	920	952.00	950.00	20.99	875
	Thermal (Total)	2620	2500.00	2480.00	54.98	2291
	Total Hydro	1148	726.00	538.00	13.91	580
	Total Punjab	3768	3226	3018	68.89	2870
Haryana	Panipat TPS	1360	1080.00	1148.00	26.59	1108
	DCRTPP (Yamuna nagar)	600	563.00	495.00	12.20	508
	Faridabad GPS (NTPC)	432	409.00	405.00	7.70	321
	RGTPP (khedar) (IPP)	1200	785.00	878.00	22.43	934
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2837.00	2926.00	68.92	2872
	Total Hydro	62	26.00	32.00	0.72	30
	Total Haryana	3679	2863	2958	69.63	2901
Rajasthan	kota TPS	1240	960.00	757.00	20.19	841
	suratgarh TPS	1500	1155.00	919.00	25.60	1067
	Chabra TPS	500	230.00	231.00	5.23	218
	Dholpur GPS	330	275.00	274.00	6.42	268
	Ramgarh GPS	113	62.00	62.00	1.59	66
	RAPS A (NPC)	300	180.00	177.00	4.40	183
	Barsingsar (NLC)	250	52.00	53.00	1.32	55
	Giral LTPS (IPP)	250	67.00	105.00	1.37	57
	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	2981.00	2578.00	66.12	2755
	Total Hydro	550	133.00	55.00	2.15	90
	Wind power	1294	119.00	51.00	1.53	64
	Biomass	71	14.00	14.00	0.32	13
	Renewable/Others (Total)	1365	133	65	1.85	77
	Total Rajasthan	6668	3247	2698	70.12	2922
	UP	Anpara TPS	1630	761	749	17.90
Obra TPS		1442	399	428	9.60	400
Paricha TPS		640	359	218	7.50	313
Panki TPS		210	59	50	1.20	50
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	296	284	7.02	292
Roza TPS (IPP)		600	284	279	6.51	271
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2158	2008	49.73	2072
Vishnuparyag HPS (IPP)		400	436	436	10.02	418
Other Hydro		527	250	0	6.51	271
Cogeneration		951	0	0	0.00	0
Total UP		7815	2844	2444	66.27	2344
Uttarakhand		Total Hydro	1303	912	919	21.97
	Total Uttarakhand	1303	912	919	21.97	915
Delhi	Rajghat TPS	135	61	59	1.45	60
	Delhi Gas Turbine	282	149	112	3.11	130
	Pragati Gas Turbine	330	295	302	7.09	295
	Rithala GPS	108	55	29	0.88	37
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	640	570	12.86	536
	Thermal (Total)	2000	1200	1072	25.39	1058
	Total Delhi	2000	1200	1072	25.39	1058
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	100	95	2.23	93
	Other Hydro	571	564	571	13.66	569
	Total HP	1002	994	996	24	992
J & K	Baglihar HPS (IPP)	450	442	440	10.58	441
	Other Hydro	323	159	160	3.58	149
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	601	600	14.16	590
Total State Control Area Generation		27191	15887	14705	360.23	14592
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3965	3943	99.63	4151
Total Regional Availability(Gross)		47266	35911	33969	830.05	34168

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8552	8132	201.50	8396
State Control Area Hydro	5365	3642	3140	83.22	3468
Total Regional Hydro	14797	12194	11272	284.73	11864

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	12.01	0.00	12.01
Gwalior-Agra (D/C)	1145	1134	1588	0	29.60	0.00	29.60
Zerda-Kankroli	130	189	318	78	4.00	0.00	4.00
Zerda-Bhinmal	217	295	446	0	6.55	0.00	6.55
Malanpur-Auraiya	14	0	20	26	1.35	0.00	1.35
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	2006	2118			53.50	0.00	53.50
Pusauli Bypass	-28	-75	105	87	0.29	0.78	-0.49
MZP- GKP (D/C)	940	916	1100	0	21.39	0.00	21.39
Patna-Balia(D/C)	312	291	457	0	9.13	0.00	9.13
B'Sharif-Balia (D/C)	270	313	606	0	8.28	0.00	8.28
Barh-Balia (D/C)	340	316	407	0	5.13	0.00	5.13
Pusauli-Sahupuri	160	94	160	0	3.29	0.00	3.29
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	1959	1825			47.50	1.37	46.13
Total IR Exch	3965	3943			101.01	1.37	99.63

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
16.14	3.51	19.66	18.23	32.12	1.25	8.90	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
39.13	40.40	79.53	46.13	53.50	99.63	7.00	13.10	20.10

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	0.30	3.40	17.80	96.30	81.90	22.90	0.30

<----- 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				
50.25	17.04	49.14	19.17	49.86	0.52	0.18	50.21	49.56

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	411	07:42	400	12:11	0.0	0.0	0.0	0.0
Gorakhpur	400	437	06:06	404	23:06	0.0	0.0	43.6	3.2
Bareilly	400	418	08:00	394	15:08	0.0	0.0	0.0	0.0
Kanpur	400	418	09:00	396	14:53	0.0	0.0	0.0	0.0
Dadri	400	411	07:50	390	14:53	0.0	0.0	0.0	0.0
Ballabgarh	400	416	07:35	394	14:52	0.0	0.0	0.0	0.0
Bawana	400	413	07:39	392	14:53	0.0	0.0	0.0	0.0
Bassi	400	424	06:05	395	12:19	0.0	0.0	16.7	0.0
Hissar	400	409	03:57	393	14:52	0.0	0.0	0.0	0.0
Moga	400	416	03:59	398	12:14	0.0	0.0	0.0	0.0
Abdullapur	400	410	04:03	394	14:54	0.0	0.0	0.0	0.0
Nalagarh	400	409	04:01	391	09:40	0.0	0.0	0.0	0.0
Kishenpur	400	414	02:07	391	12:14	0.0	0.0	0.0	0.0
Wagoora	400	407	06:11	381	12:19	0.0	47.6	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	509.33	1515.08	510.37	1560.04	1306.20	925.96
Pong	426.72	384.05	421.89	975.89	420.46	902.94	968.61	496.25
Tehri	829.79	740.04	814.55	902.26	NA	NA	641.94	559.00
Koteshwar	612.50	598.50	607.90	3.54	NA	NA	669.00	150.00
Chamera-I	760.00	748.75	757.57	13.85	756.00	NA	389.98	350.40
Rihand	268.22	252.98	256.64	142.50	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	520.63	NA	521.46	NA	457.29	199.07

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.08.2011 :

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 :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 26.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER