

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.08.2011

Date of Reporting : 19.08.2011

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
32045	4137	36182	49.63	30235	650	30885	50.13	743.9	25.15

* 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	43.68	8.07		51.75	105.84	108.78	2.94	160.52	1.80
Haryana	45.51	0.28		45.78	59.84	68.63	8.79	114.41	4.08
Rajasthan	67.61	0.24	7.91	75.76	30.37	33.21	2.84	108.97	3.27
Delhi	25.55			25.55	65.10	61.96	-3.15	87.50	0.02
UP	48.56	13.47	0.00	62.03	141.16	133.55	-7.61	195.58	15.11
Uttarakhand		12.21		12.21	11.89	11.58	-0.31	23.79	0.87
HP		24.09		24.09	-3.66	-2.45	-1.21	21.64	0.00
J & K		14.66	0.00	14.66	15.36	11.79	-3.57	26.45	0.00
Chandigarh				0.00	6.03	5.07	-0.96	5.07	0.00
Total	230.89	73.01	7.91	311.81	431.93	432.12	0.19	743.92	25.15

* 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	6986	450	190	1566	6672	0	62	2169	47.43
Haryana	4699	1156	617	824	4639	0	127	882	19.53
Rajasthan	4687	376	151	-442	4508	0	-35	-726	-15.71
Delhi	4124	0	63	228	2909	0	-221	310	9.69
UP	7827	2015	-164	2313	8755	650	-266	2493	48.19
Uttarakhand	1181	140	-107	-100	915	0	-13	-100	-2.40
HP	924	0	119	-1755	781	0	-52	-1815	-42.14
J&K	1385	0	63	-387	893	0	-333	-380	-9.41
Chandigarh	232	0	-31	32	163	0	-47	14	1.00
Total	32045	4137	901	2279	30235	650	-778	2847	56.17

* 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	1604	1528	1947	38.76	1615	38.35	0.40
	Rihand I STPS	1000	940	1024	1012	22.31	930	22.05	0.26
	Rihand II STPS	1000	475	514	520	11.34	473	11.18	0.16
	Dadri I STPS	840	596	650	435	12.47	520	12.64	-0.17
	Dadri II STPS	980	775	812	553	16.13	672	16.36	-0.23
	Unchahar I TPS	440	323	352	316	7.54	314	7.54	0.00
	Unchahar II TPS	440	332	349	325	7.57	316	7.52	0.05
	Unchahar III TPS	210	171	182	156	3.83	160	3.81	0.02
	ISTPP (Jhajjar)	500	104	0	291	1.19	50	2.04	-0.85
	Dadri GPS	830	793	757	532	14.74	614	14.92	-0.18
	Anta GPS	419	390	388	317	7.61	317	6.99	0.62
	Auraiya GPS	663	617	488	370	10.19	424	10.15	0.03
	Sub Total (A)	9322	7119	7044	6774	153.69	6404	153.56	0.13
B. NPC	NAPS	440	188	220	231	4.52	188	4.51	0.01
	RAPS- B	440	382	421	426	9.13	381	9.17	-0.03
	RAPS- C	440	420	468	474	10.09	421	10.08	0.01
	Sub Total (B)	1320	990	1109	1131	23.75	989	23.76	-0.01
C. NHPC	Chamera I HPS	540	534	540	540	12.81	534	12.81	0.00
	Chamera II HPS	300	297	300	299	7.13	297	7.10	0.02
	Bairasuil HPS	180	154	179	120	2.52	105	2.52	0.00
	Salal-HPS	690	585	544	622	14.09	587	14.02	0.07
	Tanakpur-HPS	94	94	94	84	2.14	89	2.24	-0.10
	Uri-HPS	480	288	360	238	7.15	298	6.44	0.72
	Dhauliganga-HPS	280	277	201	250	6.69	279	6.63	0.06
	Dulhasti-HPS	390	387	412	106	8.44	352	7.32	1.12
	Sewa-II HPS	120	119	124	119	2.78	116	2.49	0.29
	Sub Total (C)	3074	2734	2754	2378	63.76	2657	61.58	2.17
D.NJPC	Natpha Jhakri	1500	1600	1618	1619	38.54	1606	38.40	0.14
	Sub Total (D)	1500	1600	1618	1619	38.54	1606	38.40	0.14
E. THDC	Tehri HPS	1000	1010	1009	1007	24.17	1007	24.00	0.17
	Koteshwar HPS	100	92	94	93	2.22	93	2.21	0.01
	Sub Total (E)	1100	1102	1103	1100	26.39	1100	26.21	0.18
F. BBMB	Bhakra HPS	1480	1213	1232	1232	29.81	1242	29.12	0.69
	Dehar HPS	990	608	660	660	15.47	645	14.60	0.87
	Pong HPS	396	354	366	366	8.84	368	8.50	0.34
	Sub Total (F)	2866	2175	2258	2258	54.12	2255	52.21	1.91
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	323	5.54	231	4.39	1.15
	KWHEP HPS(IPP)	500	0	600	600	14.28	595	14.27	0.01
	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	831	923	19.82	826	18.66	1.16
H. Total Regional Entities (A-G)		20075	15721	16717	16183	380.07	15836	374.38	5.68

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	1165.00	105.00	23.26	969	
	Guru Nanak Dev TPS(Bhatinda)	440	240.00	95.00	3.61	150	
	Guru Hargobind Singh TPS(L.mbt)	920	869.00	666.00	16.81	700	
	Thermal (Total)	2620	2274.00	866.00	43.68	1820	
	Total Hydro	1148	477.00	268.00	8.07	336	
	Total Punjab	3768	2751	1134	51.75	2156	
Haryana	Panipat TPS	1360	678.00	828.00	19.55	815	
	DCRTPP (Yamuna nagar)	600	546.00	263.00	11.09	462	
	Faridabad GPS (NTPC)	432	191.00	33.00	4.29	179	
	RGTPP (khedar) (IPP)	1200	149.00	645.00	10.58	441	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	1564.00	1769.00	45.51	1896	
	Total Hydro	62	38.00	0.00	0.28	12	
		Total Haryana	3679	1602	1769	45.78	1908
Rajasthan	kota TPS	1240	876.00	972.00	21.47	895	
	suratgarh TPS	1500	1152.00	1168.00	26.42	1101	
	Chabra TPS	500	225.00	230.00	5.39	225	
	Dholpur GPS	330	275.00	271.00	6.68	278	
	Ramgarh GPS	113	62.00	62.00	1.61	67	
	RAPS A (NPC)	300	174.00	176.00	4.30	179	
	Barsingsar (NLC)	250	78.00	58.00	1.73	72	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	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	2842.00	2937.00	67.61	2817	
	Total Hydro	550	10.00	9.00	0.24	10	
	Wind power	1294	231.00	376.00	7.67	320	
	Biomass	71	14.00	14.00	0.24	10	
	Renewable/Others (Total)	1365	245	390	7.91	330	
		Total Rajasthan	6668	3097	3336	75.76	3156
	UP	Anpara TPS	1630	678	848	16.50	688
Obra TPS		1442	506	424	10.00	417	
Paricha TPS		640	328	326	7.00	292	
Panki TPS		210	80	70	1.50	63	
Harduaganj TPS		375	0	34	0.50	21	
Tanda TPS (NTPC)		440	280	288	6.81	284	
Roza TPS (IPP)		600	227	259	6.25	260	
Anpara-C (IPP)		600	0	0	0.00	0	
Thermal (Total)		5937	2099	2249	48.56	2023	
Vishnuparyag HPS (IPP)		400	436	436	10.45	435	
Other Hydro		527	144	0	3.02	126	
Cogeneration		951	0	0	0.00	0	
		Total UP	7815	2679	2685	62.03	2149
Uttarakhand	Total Hydro	1303	794	469	12.21	509	
	Total Uttarakhand	1303	794	469	12.21	509	
Delhi	Rajghat TPS	135	94	101	2.56	107	
	Delhi Gas Turbine	282	145	109	3.05	127	
	Pragati Gas Turbine	330	294	274	7.14	298	
	Rithala GPS	108	41	29	1.00	42	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	580	535	11.79	491	
	Thermal (Total)	2000	1154	1048	25.55	1064	
		Total Delhi	2000	1154	1048	25.55	1064
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	101	105	104	2.51	104	
	Other Hydro	571	543	599	13.66	569	
		Total HP	1002	978	1033	24	1004
J & K	Baglihar HPS (IPP)	450	442	441	10.57	441	
	Other Hydro	323	188	183	4.08	170	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	630	624	14.66	611
Total State Control Area Generation		27191	13685	12098	311.81	12557	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2869	2447	69.58	2899	
Total Regional Availability(Gross)		47266	33271	30728	761.45	31292	

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8564	8278	202.63	8443
State Control Area Hydro	5365	3071	2403	62.56	2607
Total Regional Hydro	14797	11635	10681	265.19	11050

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	350	500	0	9.74	0.00	9.74
Gwalior-Agra (D/C)	776	770	1252	0	21.36	0.00	21.36
Zerda-Kankroli	72	62	242	74	1.74	0.00	1.74
Zerda-Bhinmal	52	40	176	75	1.23	0.00	1.23
Malanpur-Auraiya	-40	2	26	-41	0.00	0.10	-0.10
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1360	1224			34.07	0.10	33.97
Pusauli Bypass	22	-122	139	136	0.81	1.10	-0.28
MZP- GKP (D/C)	864	742	1184	0	18.54	0.00	18.54
Patna-Balia(D/C)	263	151	356	0	5.40	0.00	5.40
B'Sharif-Balia (D/C)	363	332	678	0	9.61	0.00	9.61
Barh-Balia (D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	22	133	146	0	2.81	0.00	2.81
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-25	-13	0	30	0.00	0.47	-0.47
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1509	1223			37.17	1.57	35.61
Total IR Exch	2869	2447			71.24	1.67	69.58

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
15.87	3.80	19.67	22.11	28.52	-1.54	4.32	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
40.24	32.34	72.59	35.61	33.97	69.58	-4.64	1.63	-3.01

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	0.10	4.50	18.30	93.80	80.00	23.10	1.70

<----- 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				
50.32	8.29	49.19	20.09	49.86	0.53	0.19	50.28	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	416	17:30	406	01:38	0.0	0.0	0.0	0.0
Gorakhpur	400	438	08:06	417	12:13	0.0	0.0	87.0	30.6
Bareilly	400	425	08:00	402	12:13	0.0	0.0	4.5	0.0
Kanpur	400	422	09:00	403	12:12	0.0	0.0	1.3	0.0
Dadri	400	414	08:06	398	11:45	0.0	0.0	0.0	0.0
Ballabgarh	400	420	03:50	398	12:13	0.0	0.0	0.0	0.0
Bawana	400	417	04:06	398	12:16	0.0	0.0	0.0	0.0
Bassi	400	427	04:04	405	12:13	0.0	0.0	37.8	0.0
Hissar	400	412	04:06	395	12:13	0.0	0.0	0.0	0.0
Moga	400	416	20:42	402	15:04	0.0	0.0	0.0	0.0
Abdullapur	400	414	08:06	400	13:38	0.1	0.1	0.0	0.0
Nalagarh	400	414	00:43	399	12:13	0.0	0.0	0.0	0.0
Kishenpur	400	409	02:45	395	20:08	0.0	0.0	0.0	0.0
Wagoora	400	408	23:43	385	20:06	0.0	17.8	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	507.49	1426.00	507.82	1440.82	1666.11	933.18
Pong	426.72	384.05	423.02	1035.89	414.61	656.23	1631.93	492.97
Tehri	829.79	740.04	809.00	782.78	NA	NA	707.44	565.00
Koteshwar	612.50	598.50	607.70	3.54	NA	NA	565.00	147.00
Chamera-I	760.00	748.75	756.45	11.16	756.00	NA	616.82	344.85
Rihand	268.22	252.98	NA	NA	256.37	131.20	NA	NA
RPS	352.80	343.81	347.95	NA	349.18	NA	347.76	0.00
Jawahar Sagar	298.70	295.78	297.15	NA	298.03	NA	0.00	44.29
RSD	527.91	487.91	517.42	NA	519.53	NA	457.63	143.42

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.08.2011 :

Normal 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 : 18.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER