

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.08.2012

Date of Reporting : 12.08.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
34665	2700	37365	50.09	34245	3332	37577	50.08	804.8	77.22

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load 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	51.98	14.59		66.57	110.28	110.85	0.57	177.42	20.42
Haryana	52.60	0.81		53.40	73.33	72.41	-0.92	125.81	3.66
Rajasthan	70.98	1.39	5.73	78.10	42.67	45.99	3.31	124.08	0.16
Delhi	25.31			25.31	66.14	63.08	-3.06	88.39	0.16
UP	76.21	14.82	1.20	92.23	107.09	109.00	1.91	201.23	47.17
Uttarakhand		12.44		12.44	12.70	15.96	3.26	28.39	2.70
HP		25.32		25.32	1.88	-1.11	-2.99	24.21	0.00
J & K		15.23	0.00	15.23	17.67	14.97	-2.70	30.20	2.95
Chandigarh				0.00	6.07	5.10	-0.97	5.10	0.00
Total	277.08	84.58	6.93	368.59	437.82	436.24	-1.58	804.83	77.22

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy * UI [OD:(+ve), UD:(-ve)]	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	7707	620	-143	2050	7391	1170	-2	2298	54.20	
Haryana	5525	0	-212	1013	5091	758	126	765	24.28	
Rajasthan	5421	0	297	194	5198	0	174	-92	-0.46	
Delhi	3887	0	-285	303	3570	0	-86	4	2.78	
UP	8144	1770	60	316	9298	1304	214	1651	20.99	
Uttarakhand	1168	160	-69	5	1311	0	235	8	1.73	
HP	976	0	-231	-849	867	0	-181	-1095	-24.12	
J&K	1603	150	60	-99	1343	100	121	-120	-3.54	
Chandigarh	235	0	-45	9	176	0	-48	0	0.55	
Total	34665	2700	-568	2941	34245	3332	553	3419	76.41	

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

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG:(-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1726	2045	1865	41.88	1745	41.43	0.45
Rihand I STPS	1000	373	430	411	8.97	374	8.96	0.01
Rihand II STPS	1000	736	720	898	17.45	727	17.66	-0.21
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	623	800	602	14.08	587	14.51	-0.43
Dadri II STPS	980	808	950	792	18.59	774	18.75	-0.17
Unchahar I TPS	420	356	425	378	8.42	351	8.54	-0.12
Unchahar II TPS	420	357	426	379	8.51	355	8.56	-0.05
Unchahar III TPS	210	178	216	190	4.26	178	4.28	-0.02
ISTPP (Jhajjar)	1000	360	350	396	7.29	304	7.63	-0.34
Dadri GPS	830	760	667	747	15.47	645	15.55	-0.08
Anta GPS	419	260	188	252	5.10	212	5.13	-0.03
Auraiya GPS	663	500	303	301	6.89	287	7.31	-0.42
Sub Total (A)	10282	7037	7520	7211	156.91	6538	158.30	-1.39
B. NPC								
NAPS	440	259	299	300	6.20	258	6.22	-0.02
RAPS- B	440	379	422	424	9.12	380	9.10	0.02
RAPS- C	440	420	454	446	9.71	405	10.08	-0.37
Sub Total (B)	1320	1058	1175	1170	25.04	1043	25.39	-0.36
C. NHPC								
Chamera I HPS	540	534	540	540	12.90	537	12.81	0.08
Chamera II HPS	300	300	301	301	7.10	296	7.24	-0.14
Chamera III HPS	231	193	0	76	4.22	176	4.62	-0.39
Bairasuil HPS	180	182	20	80	2.14	89	2.29	-0.14
Salal-HPS	690	507	655	660	15.66	652	12.03	3.62
Tanakpur-HPS	94	83	85	84	1.96	82	1.89	0.07
Uri-HPS	480	394	412	416	9.50	396	9.92	-0.41
Dhauliganga-HPS	280	277	281	281	6.71	279	6.75	-0.04
Dulhasi-HPS	390	387	399	269	9.02	376	9.00	0.02
Sewa-II HPS	120	80	84	0	0.90	37	0.97	-0.07
Sub Total (C)	3305	2935	2777	2707	70.11	2921	67.51	2.59
D.NJPC								
Nathpa Jhakri	1500	1605	1615	1619	38.54	1606	38.52	0.02
Sub Total (D)	1500	1605	1615	1619	38.54	1606	38.52	0.02
E. THDC								
Tehri HPS	1000	589	900	243	6.98	291	7.00	-0.03
Koteshwar HPS	400	307	81	161	2.33	97	2.32	0.01
Sub Total (E)	1400	896	981	404	9.31	388	9.32	-0.01
F. BBMB								
Bhakra HPS	1480	835	1253	679	20.38	849	20.04	0.34
Dehar HPS	990	614	825	620	14.99	625	14.74	0.26
Pong HPS	396	197	366	60	4.88	203	5.01	-0.13
Sub Total (F)	2866	1646	2444	1359	40.25	1677	39.78	0.47
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	231	5.16	215	4.27	0.89
KWHEP HPS(IPP)	1000	0	1200	1200	28.60	1192	28.63	-0.03
Malana Stg-II HPS	100	0	105	104	2.15	90	2.14	0.02
Shree Cement TPS	300	0	296	287	6.76	282	6.82	-0.06
Budhil HPS(IPP)	70	0	70	70	1.55	65		1.55
Sub Total (G)	1662	0	1901	1892	44.23	1843	41.86	2.37
H. Total Regional Entities (A-G)	22336	15177	18413	16362	384.37	16016	380.68	3.69

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	1244	1165	27.46	1144
	Guru Nanak Dev TPS(Bhatinda)	440	200	200	4.30	179
	Guru Hargobind Singh TPS(L.mbt)	920	949	835	20.22	843
	Thermal (Total)	2620	2393	2200	51.98	2166
	Total Hydro	1148	587	540	14.59	608
	Total Punjab	3768	2980	2740	66.57	2774
Haryana	Panipat TPS	1367	976	963	23.42	976
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	348	389	9.28	386
	RGTPP (kheadar) (IPP)	1200	809	257	10.59	441
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	359	364	9.31	388
	Thermal (Total)	4944	2492	1973	52.60	2192
	Total Hydro	62	34	32	0.81	34
	Total Haryana	5006	2526	2005	53.40	2225
Rajasthan	kota TPS	1240	816	878	19.86	828
	suratgarh TPS	1500	656	1095	22.35	931
	Chabra TPS	500	410	411	9.64	402
	Dholpur GPS	330	148	143	3.35	139
	Ramgarh GPS	111	53	55	1.41	59
	RAPS A (NPC)	300	192	198	4.52	188
	Barsingsar (NLC)	250	114	112	2.33	97
	Giral LTPS	250	49	62	1.21	51
	Rajwest LTPS (IPP)	540	263	265	6.30	263
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2701	3219	70.98	2958
	Total Hydro	550	24	62	1.39	58
	Wind power	1843	384	74	3.65	152
	Biomass	91	21	21	0.51	21
	Solar	128	0	0	0.18	7
	Renewable/Others (Total)	2062	405	95	5.73	239
	Total Rajasthan	7767	3130	3376	78.10	3254
	UP	Anpara TPS	1630	1047	793	18.50
Obra TPS		1382	514	507	11.10	463
Paricha TPS		890	322	358	6.60	275
Panki TPS		210	125	130	2.60	108
Harduaganj TPS		665	0	0	0.00	0
Tanda TPS (NTPC)		440	193	193	4.79	200
Roza TPS (IPP)		1200	816	822	19.63	818
Anpara-C (IPP)		1200	324	318	7.31	305
Bajaj Energy Pvt.Ltd(IPP) TPS		450	248	252	5.68	237
Thermal (Total)		8067	3589	3373	76.21	3176
Vishnuparyag HPS (IPP)		400	436	426	10.44	435
Other Hydro		527	190	0	4.38	182
Cogeneration		981	50	50	1.20	50
Total UP		9975	4265	3849	92.23	3408
Uttarakhand		Total Hydro	1303	772	553	12.44
	Total Uttarakhand	1303	772	553	12.44	518
Delhi	Rajghat TPS	135	47	49	1.33	55
	Delhi Gas Turbine	282	195	189	4.67	194
	Pragati Gas Turbine	330	139	137	3.44	143
	Rithala GPS	108	0	21	0.15	6
	Bawana GPS	677	279	282	6.49	270
	Badarpur TPS (NTPC)	705	440	430	9.24	385
	Thermal (Total)	2237	1100	1108	25.31	1055
	Total Delhi	2237	1100	1108	25.31	1055
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	108	108	2.55	106
	Other Hydro	589	627	627	14.84	618
	Total HP	1005	1065	1065	25	1055
J & K	Baglihar HPS (IPP)	450	438	438	10.50	437
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	623	648	15.23	635
Total State Control Area Generation		32017	16461	15344	368.59	14923
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2000	3394	72.55	3023
Total Regional Availability(Gross)		54353	36874	35100	825.51	33961

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9352	7624	194.12	8088
State Control Area Hydro	5368	3295	2900	84.58	3089
Total Regional Hydro	15731	12647	10524	278.70	11178

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	400	400	0	7.01	0.00	7.01
Gwalior-Agra (D/C)	259	577	802	0	14.12	0.00	14.12
Zerda-Kankrol	0	0	0	0	0.00	0.00	0.00
Zerda-Bhinmal	-46	-33	246	172	0.07	0.00	0.07
Malanpur-Auraiya	-28	-32	0	94	0.00	0.66	-0.66
Badod-Kota/Morak	-56	10	56	39	0.45	0.00	0.45
Mundra-Mohindergarh(HVDC)	576	597	598	0	14.14	0.00	14.14
Sub Total WR	1005	1519			35.79	0.66	35.13
Pusauli Bypass	-32	11	90	96	0.71	0.39	0.32
MZP- GKP (D/C)	404	766	780	0	15.48	0.00	15.48
Patna-Balia(D/C)	163	251	352	0	6.54	0.00	6.54
B'Sharif-Balia (D/C)	84	291	349	0	6.28	0.00	6.28
Barh - Balia(D/C)	160	254	262	0	2.14	0.00	2.14
Pusauli-Balia	0	27	41	0	0.28	0.00	0.28
Gayaa-Fatehpur (765 Kv)	129	173	272	0	4.37	0.00	4.37
Pusauli-Sahupuri	132	127	166	0	2.89	0.00	2.89
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.89	-0.89
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	995	1875			38.69	1.27	37.42
Total IR Exch	2000	3394			74.48	1.93	72.55

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
24.62	3.71	28.34	-2.35	15.98	16.60	2.82	2.49	-4.01

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
45.07	15.66	60.73	37.42	35.13	72.55	-7.65	19.47	11.82

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	0.00	2.80	94.70	91.90	36.50	5.30

<----- 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				
50.38	8.03	49.60	18.29	49.97	0.21	0.14	50.38	49.81

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	14:05	406	0:06	0.0	0.0	0.0	0.0
Gorakhpur	400	433	7:03	413	4:32	0.0	0.0	73.3	9.0
Bareilly	400	423	13:19	397	5:51	0.0	0.0	0.7	0.0
Kanpur	400	424	13:17	407	19:18	0.0	0.0	2.8	0.0
Dadri	400	413	17:31	403	9:31	0.0	0.0	0.0	0.0
Ballabgarh	400	419	13:18	406	9:56	0.0	0.0	0.0	0.0
Bawana	400	416	13:15	405	0:16	0.0	0.0	0.0	0.0
Bassi	400	433	13:18	414	19:28	0.0	0.0	85.6	2.9
Hissar	400	409	13:15	397	5:49	0.0	0.0	0.0	0.0
Moga	400	412	3:57	397	12:24	0.0	0.0	0.0	0.0
Abdullapur	400	411	4:03	249	9:50	0.1	0.1	0.0	0.0
Nalagarh	400	409	3:54	396	12:21	0.0	0.0	0.0	0.0
Kishenpur	400	413	8:06	399	19:35	0.0	0.0	0.0	0.0
Wagoora	400	415	8:06	389	20:21	0.0	0.3	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	485.68	610.73	502.39	1192.70	1038.75	657.06
Pong	426.72	384.05	404.09	320.26	417.78	794.82	959.94	333.26
Tehri	829.79	740.04	805.29	740.00	818.65	982.26	481.42	165.00
Koteshwar	612.50	598.50	599.45	0.30	NA	NA	165.00	154.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	340.75	349.58
Rihand	268.22	252.98	259.51	278.10	260.54	334.90	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.27	NA	509.88	NA	331.59	210.73

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 11.08.2012 :

1. Partial rains in NR.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 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 : 11.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER