

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.08.2012
Date of Reporting : 10.08.2012

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
34050	3677	37727	49.72	34499	2834	37333	50.15	818.7	76.28

* 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	52.69	19.27		71.96	106.59	106.78	0.20	178.74	29.86
Haryana	53.11	0.69		53.80	78.20	74.79	-3.41	128.59	5.33
Rajasthan	79.39	0.37	11.62	91.38	40.53	38.38	-2.14	129.76	0.29
Delhi	31.41			31.41	64.15	58.49	-5.66	89.91	0.37
UP	79.09	13.34	1.20	93.63	116.80	111.94	-4.86	205.57	32.15
Uttarakhand		13.39		13.39	10.98	13.39	2.40	26.78	5.33
HP		24.91		24.91	2.15	0.03	-2.12	24.94	0.01
J & K		15.23	0.00	15.23	17.53	13.68	-3.85	28.91	2.95
Chandigarh				0.00	6.27	5.47	-0.79	5.47	0.00
Total	295.70	87.19	12.82	395.71	443.19	422.95	-20.24	818.66	76.28

* 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 MU	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	7573	1243	-71	1993	7698	1170	63	2162	47.44	
Haryana	5490	607	80	1168	5123	0	-274	1546	29.52	
Rajasthan	5508	0	-202	-148	5629	0	-59	-120	-4.40	
Delhi	4118	22	-25	207	3293	0	-497	-13	2.88	
UP	7442	1505	-737	974	9356	1564	-232	869	31.01	
Uttarakhand	1137	150	152	-48	1332	0	245	21	0.06	
HP	998	0	-87	-1078	939	0	-133	-1102	-24.65	
J&K	1535	150	33	-144	917	100	-336	-197	-5.17	
Chandigarh	248	0	-35	4	213	0	-20	-5	0.59	
Total	34050	3677	-892	2927	34499	2834	-1243	3161	77.27	

* 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	1723	1984	1833	41.68	1737	41.34	0.34
Rihand I STPS	1000	367	0	499	8.75	365	8.82	-0.06
Rihand II STPS	1000	960	1044	1049	23.20	967	23.04	0.16
Rihand III STPS	500	0	0	0	0.00	0	0.00	0.00
Dadri I STPS	840	642	815	602	15.24	635	15.40	-0.16
Dadri II STPS	980	460	490	491	11.04	460	11.04	0.00
Unchahar I TPS	420	337	423	370	8.10	338	8.09	0.01
Unchahar II TPS	420	337	421	361	8.10	338	8.09	0.01
Unchahar III TPS	210	169	212	182	4.05	169	4.05	0.00
ISTPP (Jhajjar)	1000	316	327	329	6.91	288	7.13	-0.22
Dadri GPS	830	756	714	759	16.12	672	16.17	-0.06
Anta GPS	419	259	238	213	5.21	217	5.14	0.06
Auraiya GPS	663	419	306	276	6.80	283	6.77	0.02
Sub Total (A)	10282	6743	6974	6964	155.19	6466	155.08	0.11
B. NPC								
NAPS	440	258	299	302	6.23	260	6.19	0.04
RAPS- B	440	381	426	422	9.10	379	9.14	-0.05
RAPS- C	440	420	444	455	9.67	403	10.08	-0.41
Sub Total (B)	1320	1059	1169	1179	25.00	1042	25.42	-0.42
C. NHPC								
Chamera I HPS	540	534	540	540	12.89	537	12.81	0.08
Chamera II HPS	300	300	301	301	7.28	303	7.20	0.08
Chamera III HPS	231	231	236	233	5.53	231	5.62	-0.09
Bairasuil HPS	180	176	120	80	2.16	90	2.16	0.00
Salal-HPS	690	662	660	664	15.80	658	15.90	-0.10
Tanakpur-HPS	94	91	93	95	2.19	91	2.13	0.06
Uri-HPS	480	420	415	400	9.92	413	9.76	0.15
Dhauliganga-HPS	280	277	281	280	6.57	274	6.77	-0.20
Dulhasi-HPS	390	387	408	305	8.53	355	8.23	0.30
Sewa-II HPS	120	80	85	76	1.77	74	1.84	-0.07
Sub Total (C)	3305	3157	3139	2974	72.63	3026	72.43	0.21
D.NJPC								
Nathpa Jhakri	1500	1605	1620	1620	38.62	1609	38.52	0.10
Sub Total (D)	1500	1605	1620	1620	38.62	1609	38.52	0.10
E. THDC								
Tehri HPS	1000	583	440	660	8.10	337	8.00	0.10
Koteshwar HPS	400	310	238	164	2.58	107	2.70	-0.12
Sub Total (E)	1400	893	678	824	10.68	445	10.70	-0.02
F. BBMB								
Bhakra HPS	1480	840	1258	676	20.70	863	20.17	0.53
Dehar HPS	990	614	825	640	15.22	634	14.74	0.48
Pong HPS	396	199	366	120	5.07	211	5.01	0.06
Sub Total (F)	2866	1653	2449	1436	40.99	1708	39.91	1.08
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	210	186	4.45	185	4.22	0.23
KWHPEP HPS(IPP)	1000	0	1200	1200	28.62	1193	28.36	0.26
Malana Stg-II HPS	100	0	104	104	1.50	62	2.23	-0.73
Shree Cement TPS	300	0	291	295	6.94	289	7.02	-0.08
Budhil HPS(IPP)	70	69	69	71	1.58	66	1.58	0.00
Sub Total (G)	1662	0	1874	1856	43.09	1795	41.83	1.26
H. Total Regional Entities (A-G)	22336	15110	17903	16853	386.20	16092	383.88	2.32

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	1259	1252	27.80	1158	
	Guru Nanak Dev TPS(Bhatinda)	440	201	205	4.31	180	
	Guru Hargobind Singh TPS(L.mbt)	920	929	933	20.58	858	
	Thermal (Total)	2620	2389	2390	52.69	2196	
	Total Hydro	1148	729	587	19.27	803	
	Total Punjab	3768	3118	2977	71.96	2998	
Haryana	Panipat TPS	1367	1020	1055	24.71	1030	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	355	399	8.54	356	
	RGTPP (kheadar) (IPP)	1200	311	335	7.72	322	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	371	411	12.15	506	
	Thermal (Total)	4944	2057	2200	53.11	2213	
	Total Hydro	62	35	27	0.69	29	
	Total Haryana	5006	2092	2227	53.80	2242	
	Rajasthan	kota TPS	1240	1042	1074	23.94	998
suratgarh TPS		1500	1042	1017	23.61	984	
Chabra TPS		500	433	404	10.29	429	
Dholpur GPS		330	144	144	3.35	140	
Ramgarh GPS		111	52	52	1.39	58	
RAPS A (NPC)		300	198	198	4.50	188	
Barsingsar (NLC)		250	114	113	2.61	109	
Giral LTPS		250	57	51	1.44	60	
Rajwest LTPS (IPP)		540	358	358	8.25	344	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3440	3411	79.39	3308	
Total Hydro		550	33	29	0.37	15	
Wind power		1843	412	601	10.77	449	
Biomass		91	16	16	0.39	16	
Solar		128	0	0	0.10	4	
Renewable/Others (Total)		2062	428	617	11.62	484	
Total Rajasthan		7767	3901	4057	91.38	3807	
UP		Anpara TPS	1630	899	859	18.40	767
		Obra TPS	1382	518	451	10.40	433
		Paricha TPS	890	613	604	12.80	533
	Panki TPS	210	120	135	2.80	117	
	Harduaganj TPS	665	0	0	0.00	0	
	Tanda TPS (NTPC)	440	193	191	4.81	200	
	Roza TPS (IPP)	1200	829	815	19.60	817	
	Anpara-C (IPP)	1200	0	495	4.81	200	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	205	244	5.47	228	
	Thermal (Total)	8067	3377	3794	79.09	3295	
	Vishnuparyag HPS (IPP)	400	436	436	10.32	430	
	Other Hydro	527	144	0	3.02	126	
	Cogeneration	981	50	50	1.20	50	
	Total UP	9975	4007	4280	93.63	3471	
	Uttarakhand	Total Hydro	1303	614	540	13.39	558
Total Uttarakhand		1303	614	540	13.39	558	
Delhi	Rajghat TPS	135	49	47	1.10	46	
	Delhi Gas Turbine	282	186	193	4.51	188	
	Pragati Gas Turbine	330	282	286	6.17	257	
	Rithala GPS	108	81	0	1.05	44	
	Bawana GPS	677	330	228	5.94	248	
	Badarpur TPS (NTPC)	705	655	560	12.64	527	
	Thermal (Total)	2237	1583	1314	31.41	1309	
	Total Delhi	2237	1583	1314	31.41	1309	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	107	106	2.56	107	
	Other Hydro	589	611	613	14.43	601	
	Total HP	1005	1048	1049	25	1038	
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	16986	17092	395.71	16058	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2638	2163	68.24	2843	
Total Regional Availability(Gross)		54353	37527	36108	850.14	34992	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9400	8344	197.49	8229
State Control Area Hydro	5368	3226	2880	87.19	3203
Total Regional Hydro	15731	12626	11224	284.68	11432

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	350	0	500	0	6.44	0.00	6.44
Gwalior-Agra (D/C)	313	523	880	0	14.06	0.00	14.06
Zerda-Kankroli	0	0	0	0	0.00	0.00	0.00
Zerda-Bhinmal	0	0	0	233	0.00	0.12	-0.12
Malanpur-Auraiya	-66	-28	0	125	0.00	0.66	-0.66
Badod-Kota/Morak	-66	-76	0	167	0.00	1.04	-1.04
Mundra-Mohindergarh(HVDC)	575	504	577	0	10.88	0.00	10.88
Sub Total WR	1106	923			31.38	1.82	29.56
Pusauli Bypass	42	-142	127	142	0.68	0.63	0.06
MZP- GKP (D/C)	652	700	842	0	16.06	0.00	16.06
Patna-Balia(D/C)	332	259	368	0	7.79	0.00	7.79
B'Sharif-Balia (D/C)	201	204	461	0	7.69	0.00	7.69
Barh - Balia(D/C)	0	0	308	0	0.63	0.00	0.63
Pusauli-Balia	1	31	54	0	0.33	0.00	0.33
Maya-Fatehpur (765 Kv)	203	95	231	0	3.52	0.00	3.52
Pusauli-Sahupuri	146	118	164	0	3.49	0.00	3.49
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	1532	1240			40.19	1.51	38.68
Total IR Exch	2638	2163			71.56	3.33	68.24

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
24.18	3.71	27.89	0.30	15.25	17.55	2.63	2.49	-3.33

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
48.24	18.10	66.34	38.68	29.56	68.24	-9.56	11.46	1.90

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	0.40	2.80	17.20	93.90	79.50	26.10	3.30

<----- 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				
50.40	9.03	49.08	21.07	49.88	0.50	0.19	50.31	49.39

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	23:30	399	14:36	0.0	0.0	0.0	0.0
Gorakhpur	400	431	4:23	406	13:59	0.0	0.0	46.5	1.0
Bareilly	400	419	13:04	398	14:38	0.0	0.0	0.0	0.0
Kanpur	400	423	15:11	403	8:57	0.0	0.0	2.5	0.0
Dadri	400	413	23:53	395	14:36	0.0	0.0	0.0	0.0
Ballabgarh	400	419	4:03	400	14:43	0.0	0.0	0.0	0.0
Bawana	400	416	3:58	399	14:38	0.0	0.0	0.0	0.0
Bassi	400	429	13:01	411	5:48	0.0	0.0	66.1	0.0
Hissar	400	409	18:45	394	10:31	0.0	0.0	0.0	0.0
Moga	400	413	18:53	396	10:28	0.0	0.0	0.0	0.0
Abdullapur	400	410	2:59	396	10:31	0.0	0.0	0.0	0.0
Nalagarh	400	409	2:59	391	10:31	0.0	0.0	0.0	0.0
Kishenpur	400	411	7:03	395	20:05	0.0	0.0	0.0	0.0
Wagoora	400	410	7:05	385	20:48	0.0	8.9	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	484.99	585.65	501.64	1166.44	1094.61	677.59
Pong	426.72	384.05	403.24	296.79	417.34	768.49	553.28	347.90
Tehri	829.79	740.04	804.00	685.04	818.65	982.26	600.54	194.00
Koteshwar	612.50	598.50	599.00	0.30	NA	NA	194.00	171.00
Chamera-I	760.00	748.75	756.69	12.73	NA	NA	322.45	349.72
Rihand	268.22	252.98	259.08	255.50	259.81	294.60	NA	NA
RPS	352.80	343.81	349.95	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.13	NA	509.02	NA	327.97	407.14

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.08.2012 :

1: Rains in NCR , HP , J & K , Utranchal , West Rajasthan.

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 : 09.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER