

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.08.2012

Date of Reporting : 27.08.2012

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
33361	3487	36847	50.11	32115	2196	34311	50.23	772.9	51.08

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	49.58	18.74		68.32	104.67	110.36	5.69	178.68	32.02
Haryana	45.18	0.63		45.81	57.69	57.94	0.25	103.74	1.75
Rajasthan	58.57	2.37	9.71	70.65	40.17	48.52	8.35	119.16	0.15
Delhi	16.60			16.60	61.09	58.23	-2.86	74.83	0.04
UP	76.17	14.36	0.48	91.01	127.48	124.28	-3.20	215.29	15.42
Uttarakhand		18.08		18.08	12.72	10.64	-2.08	28.71	0.00
HP		24.50		24.50	0.42	-1.67	-2.09	22.83	0.00
J & K		15.22	0.00	15.22	17.29	10.32	-6.97	25.54	1.70
Chandigarh				0.00	5.60	4.09	-1.50	4.09	0.00
Total	246.08	93.90	10.19	350.17	427.12	422.71	-4.41	772.88	51.08

* 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 MW	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	7390	1798	82	2047	7997	1170	784	2439	54.70	
Haryana	4365	327	-6	763	4128	0	-73	820	18.72	
Rajasthan	5218	0	290	-17	4858	0	365	-230	-4.72	
Delhi	3579	2	87	309	2736	0	-596	-199	2.61	
UP	8615	1260	160	1084	9341	1026	123	1825	37.71	
Uttarakhand	1435	0	103	5	1210	0	-119	-11	-0.56	
HP	975	0	-210	-1000	887	0	-90	-1081	-24.71	
J&K	1571	100	35	-248	795	0	-436	-243	-6.10	
Chandigarh	213	0	-34	31	163	0	-23	-19	0.82	
Total	33361	3487	507	2974	32115	2196	-65	3302	78.47	

* 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	1617	1641	1640	36.20	1508	36.18	0.01
Rihand I STPS	1000	381	469	321	8.08	337	8.22	-0.15
Rihand II STPS	1000	908	961	760	18.84	785	19.39	-0.55
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	467	453	482	10.04	418	10.21	-0.17
Dadri II STPS	980	673	606	541	13.52	563	12.60	0.92
Unchahar I TPS	420	196	178	181	3.68	153	3.71	-0.03
Unchahar II TPS	420	400	322	325	7.00	292	7.03	-0.03
Unchahar III TPS	210	200	160	169	3.67	153	3.61	0.06
ISTPP (Jhajihar)	1000	470	492	392	8.59	358	8.71	-0.12
Dadri GPS	830	792	387	271	7.40	308	7.56	-0.16
Anta GPS	419	265	156	161	3.98	166	3.86	0.13
Auraiya GPS	663	395	312	0	4.00	166	4.61	-0.61
Sub Total (A)	10282	6765	6137	5243	124.98	5207	125.68	-0.71
B. NPC								
NAPS	440	264	299	304	6.34	264	6.34	0.00
RAPS- B	440	380	424	427	9.16	382	9.12	0.04
RAPS- C	440	410	445	458	9.72	405	9.84	-0.12
Sub Total (B)	1320	1054	1168	1189	25.22	1051	25.30	-0.07
C. NHPC								
Chamera I HPS	540	534	540	540	12.81	534	12.82	0.00
Chamera II HPS	300	300	302	302	7.12	297	7.08	0.04
Chamera III HPS	231	154	156	155	3.71	154	3.72	-0.01
Bairasuil HPS	180	182	170	180	3.99	166	4.29	-0.30
Salai-HPS	690	648	656	651	15.35	640	15.58	-0.23
Tanakpur-HPS	94	94	95	95	2.27	95	2.24	0.03
Uri-HPS	480	377	356	350	8.61	359	8.90	-0.30
Dhauliganga-HPS	280	277	280	280	6.67	278	6.74	-0.06
Dulhasi-HPS	390	387	406	395	9.12	380	9.21	-0.09
Sewa-II HPS	120	80	85	81	1.89	79	1.88	0.01
Sub Total (C)	3305	3032	3046	3029	71.54	2981	72.45	-0.91
D.NJPC								
Natpna Jhakri	1500	1605	1518	1523	36.21	1509	36.05	0.16
Sub Total (D)	1500	1605	1518	1523	36.21	1509	36.05	0.16
E. THDC								
Tehri HPS	1000	1050	1051	1050	25.08	1045	25.00	0.08
Koteshwar HPS	400	390	385	385	9.23	385	9.36	-0.13
Sub Total (E)	1400	1440	1436	1435	34.31	1430	34.36	-0.05
F. BBMB								
Bhakra HPS	1480	689	1260	416	16.78	699	16.54	0.24
Dehar HPS	990	610	660	660	15.57	649	14.64	0.93
Pong HPS	396	71	180	0	1.39	58	5.01	-3.62
Sub Total (F)	2866	1370	2100	1076	33.74	1406	36.19	-2.45
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	209	232	4.30	179	4.13	0.18
KWHEP HPS(IPP)	1000	0	900	1005	22.36	932	23.03	-0.67
Malana Stg-II HPS	100	0	110	109	2.62	109	2.29	0.33
Shree Cement TPS	300	0	188	161	3.74	156	3.64	0.10
Budhil HPS(IPP)	70	35	35	35	0.82	34		0.82
Sub Total (G)	1662	0	1442	1542	33.85	1410	33.09	0.76
H. Total Regional Entities (A-G)	22336	15266	16847	15037	359.86	14994	363.12	-3.26

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	1247	1250	28.13	1172	
	Guru Nanak Dev TPS(Bhatinda)	440	0	227	3.78	158	
	Guru Hargobind Singh TPS(L.mbt)	920	656	926	17.67	736	
	Thermal (Total)	2620	1903	2403	49.58	2066	
	Total Hydro	1148	886	603	18.74	781	
	Total Punjab	3768	2789	3006	68.32	2847	
Haryana	Panipat TPS	1367	568	552	13.36	557	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	100	95	2.16	90	
	RGTPP (kheadar) (IPP)	1200	497	885	18.48	770	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	505	339	11.17	465	
	Thermal (Total)	4944	1670	1871	45.18	1882	
	Total Hydro	62	30	21	0.63	26	
	Total Haryana	5006	1700	1892	45.81	1909	
Rajasthan	kota TPS	1240	677	685	15.37	640	
	suratgarh TPS	1500	868	870	19.64	818	
	Chabra TPS	500	439	218	8.75	365	
	Dholpur GPS	330	193	141	3.56	148	
	Ramgarh GPS	111	69	69	1.72	72	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingsar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	69	63	1.56	65	
	Rajwest LTPS (IPP)	540	351	347	7.97	332	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2666	2393	58.57	2440	
	Total Hydro	550	127	49	2.37	99	
	Wind power	1843	117	512	6.55	273	
	Biomass	91	25	25	0.59	25	
	Solar	128	0	0	0.19	8	
	Renewable/Others (Total)	2062	142	537	9.71	404	
		Total Rajasthan	7767	2935	2979	70.65	2944
	UP	Anpara TPS	1630	853	701	17.80	742
Obra TPS		1382	410	412	10.00	417	
Paricha TPS		890	414	410	10.20	425	
Panki TPS		210	104	104	2.60	108	
Harduaganj TPS		665	146	81	3.10	129	
Tanda TPS (NTPC)		440	168	190	4.32	180	
Roza TPS (IPP)		1200	626	599	14.54	606	
Anpara-C (IPP)		1200	404	352	9.34	389	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	217	149	4.26	178	
Thermal (Total)		8067	3342	2998	76.17	3174	
Vishnuparyag HPS (IPP)		400	436	436	10.45	435	
Other Hydro		527	140	0	3.91	163	
Cogeneration		981	20	20	0.48	20	
		Total UP	9975	3938	3454	91.01	3357
Uttarakhand	Total Hydro	1303	756	785	18.08	753	
	Total Uttarakhand	1303	756	785	18.08	753	
Delhi	Raighat TPS	135	47	45	1.00	42	
	Delhi Gas Turbine	282	70	70	1.78	74	
	Pragati Gas Turbine	330	146	147	3.47	145	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	500	450	10.35	431	
	Thermal (Total)	2237	763	712	16.60	692	
	Total Delhi	2237	763	712	16.60	692	
HP	Baspa HPS (IPP)	330	330	330	7.59	316	
	Malana HPS (IPP)	86	108	107	2.49	104	
	Other Hydro	589	618	616	14.42	601	
		Total HP	1005	1056	1053	24	1021
J & K	Baglihar HPS (IPP)	450	436	449	10.49	437	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	621	659	15.22	634
Total State Control Area Generation		32017	14558	14540	350.17	14155	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3395	3392	81.28	3387	
Total Regional Availability(Gross)		54353	34800	32969	791.30	32535	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9319	8409	205.09	8545
State Control Area Hydro	5368	3616	3170	93.90	3477
Total Regional Hydro	15731	12935	11579	298.99	12023

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	Import	Export	
Vindhychal B/B	350	100	350	50	3.65	0.22	3.43		
Gwalior-Agra (D/C)	391	422	844	0	13.36	0.00	13.36		
Zerda-Kankroli	0	-85	0	118	0.00	1.22	-1.22		
Zerda-Bhinmal	-52	-63	95	142	0.00	0.58	-0.58		
Malanpur-Auraiya	-8	0	0	94	0.00	0.40	-0.40		
Badod-Kota/Morak	56	46	104	16	0.98	0.00	0.98		
Mundra-Mohindergarh(HVDC)	577	513	586	0	9.80	0.00	9.80		
Sub Total WR	1314	933			27.79	2.42	25.37		
Pusauli Bypass	300	300	300	0	7.25	0.00	7.25		
MZP- GKP (D/C)	676	832	948	0	19.27	0.00	19.27		
Patna-Balia(D/C)	535	412	641	0	12.71	0.00	12.71		
B'Sharif-Balia (D/C)	135	313	448	0	8.44	0.00	8.44		
Barh - Balia(D/C)	0	254	265	0	1.36	0.00	1.36		
Pusauli-Balia	156	108	164	0	1.37	0.00	1.37		
Gaya-Fatehpur (765 Kv)	195	107	199	0	2.87	0.00	2.87		
Pusauli-Sahupuri	130	158	168	0	3.67	0.00	3.67		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-46	-25	0	47	0.00	1.03	-1.03		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	2081	2459			56.94	1.03	55.91		
Total IR Exch	3395	3392			84.73	3.45	81.28		

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
31.27	3.71	34.99	17.97	36.64	-0.25	-7.07	2.25	-2.21
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
54.96	27.80	82.75	55.91	25.37	81.28	0.95	-2.43	-1.47

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	0.80	79.70	78.90	71.20	20.30

<----- 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				
50.48	17.07	49.51	19.36	50.08	0.25	0.13	50.49	49.91

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	05:04	406	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	429	05:11	412	15:43	0.0	0.0	34.0	0.0
Bareilly	400	423	05:06	402	18:57	0.0	0.0	0.7	0.0
Kanpur	400	424	05:03	403	19:34	0.0	0.0	9.8	0.0
Dadri	400	416	05:02	402	19:34	0.0	0.0	0.0	0.0
Ballabhgarh	400	421	02:39	404	19:34	0.0	0.0	2.0	0.0
Bawana	400	418	05:04	404	19:33	0.0	0.0	0.0	0.0
Bassi	400	434	03:13	409	19:33	0.0	0.0	92.6	10.5
Hissar	400	412	05:03	397	19:34	0.0	0.0	0.0	0.0
Moga	400	413	05:04	399	19:33	0.0	0.0	0.0	0.0
Abdullapur	400	414	04:03	402	19:34	0.0	0.0	0.0	0.0
Nalagarh	400	410	05:03	400	19:32	0.0	0.0	0.0	0.0
Kishenpur	400	412	05:04	398	19:32	0.0	0.0	0.0	0.0
Wagoora	400	411	02:40	390	19:34	0.0	0.0	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	495.15	914.64	509.00	1530.03	1754.62	472.15
Pong	426.72	384.05	416.19	718.14	421.68	961.02	2242.86	85.32
Tehri	829.79	740.04	819.60	1002.27	818.65	982.26	681.58	556.00
Koteshwar	612.50	598.50	599.90	0.46	NA	NA	385.00	367.00
Chamera-I	760.00	748.75	756.57	NA	NA	NA	614.84	348.15
Rihand	268.22	252.98	NA	NA	263.07	484.00	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	505.63	NA	519.73	NA	710.47	93.19

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.08.2012 :

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 : 26.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER