

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.08.2012

Date of Reporting : 24.08.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
35115	2236	37351	49.86	31908	0	31908	50.07	797.7	26.51

* 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 *
Punjab	45.02	10.69		55.71	102.80	103.62	0.81	159.32	1.80
Haryana	53.18	0.71		53.90	62.99	60.04	-2.95	113.94	0.25
Rajasthan	63.85	2.18	13.37	79.40	36.01	33.68	-2.33	113.08	0.00
Delhi	24.36			24.36	64.77	84.89	20.12	109.25	0.59
UP	67.61	14.45	1.20	83.26	132.71	132.44	-0.27	215.70	21.68
Uttarakhand		17.91		17.91	15.61	12.79	-2.82	30.70	0.29
HP		23.88		23.88	4.52	0.28	-4.24	24.16	0.20
J & K		15.29	0.00	15.29	15.35	11.30	-4.05	26.59	1.70
Chandigarh				0.00	5.62	4.93	-0.70	4.93	0.00
Total	254.02	85.11	14.57	353.70	440.39	443.97	3.58	797.67	26.51

* 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	7344	450	-288	1937	6005	0	-3	1956	46.99	
Haryana	5009	71	-180	932	4675	0	-218	973	22.95	
Rajasthan	5384	0	70	-75	4512	0	-251	-333	-8.34	
Delhi	4971	2	927	543	3972	0	727	282	10.57	
UP	8290	1440	-207	1063	9809	0	-34	2187	38.78	
Uttarakhand	1300	70	4	-45	1159	0	-225	30	1.36	
HP	1138	103	-76	-893	851	0	-230	-903	-19.69	
J&K	1443	100	100	-283	771	0	-374	-334	-7.52	
Chandigarh	238	0	-13	-13	154	0	-27	-15	0.35	
Total	35115	2236	337	3166	31908	0	-634	3845	85.45	

* 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	1791	2027	1700	40.28	1678	40.22	0.07
Rihand I STPS	1000	374	505	300	8.11	338	8.00	0.11
Rihand II STPS	1000	867	1020	671	18.59	775	18.48	0.11
Rihand III STPS	500	0	0	0	0.00	0	0.00	0.00
Dadri I STPS	840	420	490	447	10.04	418	9.98	0.06
Dadri II STPS	980	450	462	480	10.47	436	10.45	0.02
Unchahar I TPS	420	385	426	359	8.14	339	8.06	0.09
Unchahar II TPS	420	378	219	343	7.36	307	7.29	0.07
Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajihar)	1000	470	493	386	8.74	364	8.78	-0.04
Dadri GPS	830	783	380	434	8.67	361	9.09	-0.42
Anta GPS	419	268	262	164	4.47	186	4.42	0.05
Auraiya GPS	663	605	315	272	7.19	300	7.03	0.16
Sub Total (A)	10282	6792	6599	5556	132.06	5503	131.80	0.26
B. NPC								
NAPS	440	261	305	300	6.29	262	6.26	0.02
RAPS- B	440	381	424	426	9.16	382	9.14	0.02
RAPS- C	440	410	450	454	9.63	404	9.84	-0.21
Sub Total (B)	1320	1052	1179	1180	25.08	1045	25.25	-0.17
C. NHPC								
Chamera I HPS	540	534	540	510	12.64	527	12.82	-0.18
Chamera II HPS	300	300	300	301	7.08	295	4.71	2.38
Chamera III HPS	231	154	156	155	3.72	155	3.78	-0.06
Bairasuil HPS	180	182	180	182	4.29	179	3.55	0.73
Salai-HPS	690	646	657	650	15.55	648	15.53	0.02
Tanakpur-HPS	94	94	95	95	2.29	95	2.24	0.04
Uri-HPS	480	386	411	368	9.01	375	9.26	-0.25
Dhauliganga-HPS	280	277	279	278	6.72	280	6.75	-0.04
Dulhasi-HPS	390	387	400	401	9.21	384	9.20	0.01
Sewa-II HPS	120	80	85	80	1.88	78	1.80	0.07
Sub Total (C)	3305	3039	3103	3020	72.38	3016	69.65	2.73
D.NJPC								
Natpna Jhakri	1500	1605	1615	1621	38.49	1604	38.52	-0.03
Sub Total (D)	1500	1605	1615	1621	38.49	1604	38.52	-0.03
E. THDC								
Tehri HPS	1000	1050	1056	1041	25.05	1044	25.00	0.05
Koteshwar HPS	400	344	371	331	8.24	343	8.25	-0.01
Sub Total (E)	1400	1394	1427	1372	33.29	1387	33.25	0.04
F. BBMB								
Bhakra HPS	1480	782	1241	548	19.24	802	18.76	0.48
Dehar HPS	990	607	825	140	15.74	656	14.58	1.17
Pong HPS	396	210	366	180	4.84	202	5.01	-0.17
Sub Total (F)	2866	1599	2432	868	39.82	1659	38.34	1.48
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	147	232	5.00	208	4.63	0.37
KWHEP HPS(IPP)	1000	0	1100	900	22.19	925	20.23	1.96
Malana Stg-II HPS	100	0	108	109	2.61	109	2.23	0.38
Shree Cement TPS	300	0	291	288	7.34	306	7.03	0.31
Budhil HPS(IPP)	70	0	70	70	1.66	69	1.66	0.00
Sub Total (G)	1662	0	1716	1599	38.79	1616	34.12	4.67
H. Total Regional Entities (A-G)	22336	15481	18071	15216	379.91	15830	370.92	8.99

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	1037	850	21.87	911	
	Guru Nanak Dev TPS(Bhatinda)	440	203	190	3.95	164	
	Guru Hargobind Singh TPS(L.mbt)	920	928	727	19.20	800	
	Thermal (Total)	2620	2168	1767	45.02	1876	
	Total Hydro	1148	587	383	10.69	446	
	Total Punjab	3768	2755	2150	55.71	2321	
Haryana	Panipat TPS	1367	1017	1024	24.05	1002	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	127	71	2.71	113	
	RGTPP (kheadar) (IPP)	1200	842	768	20.23	843	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	278	357	6.19	258	
	Thermal (Total)	4944	2264	2220	53.18	2216	
	Total Hydro	62	20	19	0.71	30	
	Total Haryana	5006	2284	2239	53.90	2246	
Rajasthan	kota TPS	1240	878	817	19.65	819	
	suratgarh TPS	1500	630	497	14.13	589	
	Chabra TPS	500	403	396	9.46	394	
	Dholpur GPS	330	157	144	3.69	154	
	Ramgarh GPS	111	69	70	1.72	72	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingar (NLC)	250	106	109	2.42	101	
	Giral LTPS	250	69	70	1.72	72	
	Rajwest LTPS (IPP)	540	475	398	11.06	461	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2787	2501	63.85	2660	
	Total Hydro	550	129	82	2.18	91	
	Wind power	1843	391	476	10.52	438	
	Biomass	91	24	24	0.57	24	
	Solar	128	0	0	0.10	4	
	Renewable/Others (Total)	2062	415	500	13.37	557	
	Total Rajasthan	7767	3331	3083	79.40	3308	
	UP	Anpara TPS	1630	763	680	16.80	700
		Obra TPS	1382	444	414	10.40	433
		Paricha TPS	890	416	427	9.90	413
Panki TPS		210	117	113	2.70	113	
Harduaganj TPS		665	31	25	0.50	21	
Tanda TPS (NTPC)		440	193	193	4.79	200	
Roza TPS (IPP)		1200	815	631	19.46	811	
Anpara-C (IPP)		1200	0	0	0.00	0	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	116	117	3.06	128	
Thermal (Total)		8067	2895	2600	67.61	2817	
Vishnuparyag HPS (IPP)		400	436	436	9.74	406	
Other Hydro		527	234	0	4.71	196	
Cogeneration		981	50	50	1.20	50	
Total UP		9975	3615	3086	83.26	3063	
Uttarakhand		Total Hydro	1303	747	741	17.91	746
		Total Uttarakhand	1303	747	741	17.91	746
Delhi	Raighat TPS	135	51	47	1.10	46	
	Delhi Gas Turbine	282	141	147	2.80	117	
	Pragati Gas Turbine	330	142	145	3.45	144	
	Rithala GPS	108	37	37	0.62	26	
	Bawana GPS	677	233	227	5.93	247	
	Badarpur TPS (NTPC)	705	515	440	10.46	436	
	Thermal (Total)	2237	1119	1043	24.36	1015	
	Total Delhi	2237	1119	1043	24.36	1015	
HP	Baspa HPS (IPP)	330	109	326	7.39	308	
	Malana HPS (IPP)	86	107	108	2.44	102	
	Other Hydro	589	537	575	14.04	585	
	Total HP	1005	753	1009	24	995	
J & K	Baglihar HPS (IPP)	450	436	449	10.56	440	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	621	659	15.29	637	
Total State Control Area Generation		32017	15225	14010	353.70	14332	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2564	2089	60.08	2504	
Total Regional Availability(Gross)		54353	35860	31315	793.69	32665	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9932	8122	213.78	8907
State Control Area Hydro	5368	3091	2893	85.11	3140
Total Regional Hydro	15731	13023	11015	298.89	12048

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	50	-200	300	350	1.14	1.68			-0.54
Gwalior-Agra (D/C)	380	376	818	0	12.41	0.00			12.41
Zerda-Kankroli	-125	-224	0	340	0.00	5.06			-5.06
Zerda-Bhinmal	-69	-210	0	268	0.00	3.52			-3.52
Malanpur-Auraiya	-96	-39	0	120	0.00	0.76			-0.76
Badod-Kota/Morak	12	-72	32	90	0.00	0.87			-0.87
Mundra-Mohindergarh(HVDC)	583	420	585	0	14.67	0.00			14.67
Sub Total WR	735	51			28.22	11.89			16.33
Pusauli Bypass	300	200	300	0	6.06	0.00			6.06
MZP- GKP (D/C)	722	802	912	0	16.54	0.00			16.54
Patna-Balia(D/C)	327	410	453	0	8.24	0.00			8.24
B'Sharif-Balia (D/C)	377	410	483	0	8.24	0.00			8.24
Barh - Balia(D/C)	0	0	250	0	1.25	0.00			1.25
Pusauli-Balia	-131	-5	0	140	0.00	1.07			-1.07
Gaya-Fatehpur (765 Kv)	145	93	149	0	2.02	0.00			2.02
Pusauli-Sahupuri	135	153	165	0	3.51	0.00			3.51
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	1829	2038			45.85	2.10			43.75
Total IR Exch	2564	2089			74.07	13.99			60.08

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
30.92	3.51	34.42	18.60	34.23	1.13	-0.63	2.23	-2.18
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
56.38	30.63	87.01	43.75	16.33	60.08	-12.63	-14.30	-26.93

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	0.90	5.30	91.70	87.30	48.00	7.40
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.45	8.04	49.20	19.10	49.98	0.29	0.17	50.44	49.58

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	417	10:40	405	0:00	0.0	0.0	0.0	0.0
Gorakhpur	400	430	12:33	410	23:34	0.0	0.0	56.2	0.0
Bareilly	400	420	18:05	403	11:37	0.0	0.0	0.0	0.0
Kanpur	400	423	3:57	404	22:23	0.0	0.0	15.3	0.0
Dadri	400	417	3:57	401	11:40	0.0	0.0	0.0	0.0
Ballabhgarh	400	422	4:00	404	11:41	0.0	0.0	4.3	0.0
Bawana	400	419	4:06	404	11:36	0.0	0.0	0.0	0.0
Bassi	400	435	3:36	407	19:09	0.0	0.0	63.2	16.6
Hissar	400	413	3:25	400	20:05	0.0	0.0	0.0	0.0
Moga	400	413	4:02	400	20:03	0.0	0.0	0.0	0.0
Abdullapur	400	412	3:39	395	19:02	0.0	0.0	0.0	0.0
Nalagarh	400	411	3:39	379	19:02	0.0	0.0	0.0	0.0
Kishenpur	400	412	1:56	401	19:57	0.0	0.0	0.0	0.0
Wagoora	400	412	2:23	393	20:23	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	492.61	817.90	508.88	1500.16	1625.61	601.14
Pong	426.72	384.05	413.01	600.05	422.25	990.81	1765.61	302.17
Tehri	829.79	740.04	819.25	986.26	818.65	982.26	661.44	557.00
Koteshwar	612.50	598.50	599.90	0.46	NA	NA	385.00	367.00
Chamera-I	760.00	748.75	758.00	NA	NA	NA	565.00	348.51
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 23.08.2012 :

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 : 23.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER