

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.08.2013
Date of Reporting : 10.08.2013

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
38175	230	38405	50.12	35394	660	36054	50.45	868.9	6.49

* 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	44.36	8.52		52.88	124.62	124.86	0.24	177.74	0.00
Haryana	58.94	0.45		59.39	74.34	74.87	0.52	134.25	0.00
Rajasthan	62.77	7.30	27.76	97.83	52.24	46.49	-5.75	144.32	0.00
Delhi	25.42			25.42	60.10	56.07	-4.03	81.48	0.01
UP	117.98	3.88	1.20	123.06	124.75	120.69	-4.06	243.75	4.79
Uttarakhand		21.00		21.00	13.85	10.79	-3.06	31.80	0.00
HP		22.04		22.04	3.95	0.68	-3.26	22.73	0.00
J & K		13.59	0.00	13.59	19.42	14.62	-4.80	28.21	1.70
Chandigarh				0.00	5.34	4.60	-0.74	4.60	0.00
Total	309.47	76.78	28.96	415.21	478.61	453.68	-24.94	868.88	6.49

* 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	7554	0	-14	1871	7590	0	-21	1879	44.70	
Haryana	6168	0	-141	647	5651	0	-66	323	6.40	
Rajasthan	6018	0	114	8	5433	0	-270	20	0.65	
Delhi	3584	0	-223	182	3232	0	-303	-148	0.55	
UP	10618	130	206	1227	10302	660	-645	1466	26.43	
Uttarakhand	1547	0	-150	236	1321	0	-176	4	1.05	
HP	1017	0	-11	-982	784	0	40	-715	-20.21	
J&K	1437	100	-160	66	916	0	-78	-179	-4.07	
Chandigarh	231	0	-12	-10	166	0	-32	-20	-0.05	
Total	38175	230	-391	3244	35394	660	-1550	2629	55.45	

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

III. Regional Entities :

Entity	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	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1594	1645	1768	35.09	1462	35.61	-0.53	
	Rihand I STPS	1000	915	609	826	17.65	736	19.52	-1.87	
	Rihand II STPS	1000	470	509	396	8.94	373	9.52	-0.58	
	Rihand III STPS	500	485	510	337	9.41	392	9.93	-0.52	
	Dadri I STPS	840	600	478	479	10.40	433	10.84	-0.44	
	Dadri II STPS	980	485	349	435	8.75	365	9.03	-0.28	
	Unchahar I TPS	420	391	368	395	7.42	309	7.62	-0.20	
	Unchahar II TPS	420	403	438	338	7.56	315	7.69	-0.13	
	Unchahar III TPS	210	201	155	162	3.50	146	3.60	-0.10	
	ISTPP (Jhajjar)	1500	1470	639	635	14.09	587	14.45	-0.36	
	Dadri GPS	830	523	379	382	8.81	367	8.90	-0.08	
	Anta GPS	419	402	389	360	8.92	372	9.16	-0.24	
	Auraiya GPS	663	615	309	308	7.09	296	7.14	-0.05	
	Sub Total (A)	10782	8553	6777	6821	147.64	6151	153.02	-5.38	
	B. NPC	NAPS	440	154	181	170	3.62	151	3.70	-0.08
		RAPS- B	440	398	445	446	9.57	399	9.55	0.02
RAPS- C		440	210	233	238	5.01	209	5.04	-0.03	
Sub Total (B)		1320	762	859	854	18.21	759	18.29	-0.08	
C. NHPC	Chamera I HPS	540	534	540	540	12.62	526	12.82	-0.20	
	Chamera II HPS	300	300	302	297	7.11	296	7.08	0.03	
	Chamera III HPS	231	231	233	232	5.50	229	5.51	-0.02	
	Bairasuil HPS	180	179	110	179	3.16	132	3.37	-0.21	
	Salal-HPS	690	667	667	669	15.97	665	16.01	-0.04	
	Tanakpur-HPS	94	94	93	95	2.24	93	2.18	0.06	
	Uri-HPS	480	235	339	164	5.72	239	5.76	-0.04	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	366	407	245	8.55	356	8.71	-0.16	
	Sewa-II HPS	120	119	123	120	2.85	119	2.87	-0.02	
	Sub Total (C)	3305	2725	2814	2541	63.71	2655	64.30	-0.59	
	D. NJPC	Nathpa Jhakri	1500	1285	1614	0	30.51	1271	30.78	-0.26
Sub Total (D)		1500	1285	1614	0	30.51	1271	30.78	-0.26	
E. THDC	Tehri HPS	1000	1060	1059	1068	25.29	1054	25.25	0.04	
	Koteshwar HPS	400	350	368	264	8.14	339	8.40	-0.26	
	Sub Total (E)	1400	1410	1427	1332	33.42	1393	33.65	-0.23	
F. BBMB	Bhakra HPS	1480	1256	1341	1321	30.60	1275	30.14	0.46	
	Dehar HPS	990	620	821	560	15.30	638	14.88	0.43	
	Pong HPS	396	306	312	312	7.55	315	7.34	0.21	
	Sub Total (F)	2866	2182	2474	2193	53.45	2227	52.36	1.09	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	190	3.96	165	4.33	-0.36	
	KWHEP HPS(IPP)	1000	0	900	561	14.30	596	13.37	0.94	
	Malana Stg-II HPS	100	0	112	112	2.69	112	2.52	0.16	
	Shree Cement TPS	300	0	135	127	3.07	128	3.51	-0.44	
	Budhil HPS(IPP)	70	0	74	74	1.76	73	1.68	0.08	
	Sub Total (G)	1662	0	1451	1064	25.79	1074	25.41	0.38	
H. Total Regional Entities (A-G)	22836	16916	17416	14805	372.73	15530	377.80	-5.07		

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	1120	1120	24.39	1016
	Guru Nanak Dev TPS(Bhatinda)	440	200	170	3.75	156
	Guru Hargobind Singh TPS(L.mbt)	920	707	778	16.23	676
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2027	2068	44.36	1848
	Total Hydro	1148	296	446	8.52	355
	Total Punjab	3768	2323	2514	52.88	2203
Haryana	Panipat TPS	1367	761	766	18.43	768
	DCRTPP (Yamuna nagar)	600	248	259	6.04	252
	Faridabad GPS (NTPC)	432	304	285	7.26	303
	RGTPP (khedar) (IPP)	1200	759	748	18.28	762
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	356	356	8.92	372
	Thermal (Total)	4944	2428	2414	58.94	2456
	Total Hydro	62	24	10	0.45	19
	Total Haryana	5006	2452	2424	59.39	2474
	Rajasthan	kota TPS	1240	655	623	14.76
suratgarh TPS		1500	636	573	13.78	574
Chabra TPS		500	187	190	3.61	150
Dholpur GPS		330	73	67	1.78	74
Ramgarh GPS		111	36	10	1.01	42
RAPS A (NPC)		300	176	176	4.10	171
Barsingsar (NLC)		250	90	90	2.07	86
Giral LTPS		250	0	42	0.37	15
Rajwest LTPS (IPP)		1080	309	442	8.31	346
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	499	571	12.98	541
Thermal (Total)		6956	2661	2784	62.77	2616
Total Hydro		550	301	295	7.30	304
Wind power		2191	785	655	18.79	783
Biomass		91	29	29	0.70	29
Solar		201	0	0	0.97	40
Renewable/Others (Total)		2483	814	684	27.76	1156
Total Rajasthan		9989	3776	3763	97.83	4076
UP		Anpara TPS	1630	1308	1361	28.60
	Obra TPS	1288	438	455	10.20	425
	Paricha TPS	1140	823	800	17.00	708
	Panki TPS	210	140	135	2.90	121
	Harduaganj TPS	665	407	405	8.70	363
	Tanda TPS (NTPC)	440	393	390	9.27	386
	Roza TPS (IPP)	1200	999	838	21.55	898
	Anpara-C (IPP)	1200	722	639	15.18	633
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	222	187	4.58	191
	Thermal (Total)	8223	5452	5210	117.98	4916
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	244	149	3.88	162
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5746	5409	123.06	5127
	Uttarakhand	Total Hydro	1303	891	903	21.00
Total Uttarakhand		1303	891	903	21.00	875
Delhi	Rajghat TPS	135	41	41	1.02	43
	Delhi Gas Turbine	282	158	158	3.58	149
	Pragati Gas Turbine	330	266	266	6.40	267
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	203	250	5.28	220
	Badarpur TPS (NTPC)	705	435	420	9.14	381
	Thermal (Total)	2232	1103	1135	25.42	1059
	Total Delhi	2232	1103	1135	25.42	1059
HP	Baspa HPS (IPP)	330	306	336	7.48	312
	Malana HPS (IPP)	86	64	51	1.42	59
	Other Hydro	589	518	510	13.15	548
	Total HP	1005	888	897	22.04	919
J & K	Baglihar HPS (IPP)	450	440	434	10.45	436
	Other Hydro	323	135	135	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	575	569	13.59	566
Total State Control Area Generation		34390	17754	17614	415.21	17300
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5398	3784	88.56	3690
Total Regional Availability(Gross)		57226	40568	36203	876.49	36520

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9571	6929	202.05	8419
State Control Area Hydro	5368	3219	3269	76.78	3199
Total Regional Hydro	15731	12790	10198	278.83	11618

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	400	50	500	150	4.90	1.43	3.47
Gwalior-Agra (D/C)	1689	1145	1689	0	25.84	0.00	25.84
Zerda-Kankroli	84	-163	84	230	0.00	3.20	-3.20
Zerda-Bhinmal	120	-143	132	237	0.00	2.62	-2.62
Malanpur-Auraiya	-74	-54	0	137	0.00	1.40	-1.40
Badod-Kota/Morak	32	-43	32	80	0.00	1.03	-1.03
Mundra-Mohindergarh(HVDC)	1252	1240	1433	0	28.30	0.00	28.30
Sub Total WR	3503	2032			59.04	9.67	49.37
Pusauli Bypass	-222	-125	0	300	0.00	4.96	-4.96
MZP- GKP (D/C)	655	750	777	0	16.79	0.00	16.79
Patna-Balia(D/C)	704	439	704	0	11.77	0.00	11.77
B'Sharif-Balia (D/C)	463	287	471	0	7.53	0.00	7.53
Pusauli-Balia	72	-15	90	20	0.31	0.00	0.31
Gaya-Fatehpur (765 Kv)	-6	80	82	70	0.64	0.00	0.64
Pusauli-Sahupuri	175	136	180	0	3.84	0.00	3.84
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	92	240	276	0	4.17	0.00	4.17
Sub Total ER	1895	1752			45.05	5.86	39.19
Total IR Exch	5398	3784			104.08	15.52	88.56

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
33.70	3.79	37.50	-2.84	39.97	2.37	-4.18	3.18	-3.18

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
40.21	77.81	118.02	39.19	49.37	88.56	-1.02	-28.44	-29.46

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	48.40	0.00	48.40	93.00	51.60

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.62	17.03	49.83	19.05	50.21	0.66	0.15	50.64	49.99

VII. Voltage profile 400 kV

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	03:43	401	19:58	0.0	0.0	0.0	0.0
Gorakhpur	400	415	06:00	395	20:00	0.0	0.0	0.0	0.0
Bareilly	400	421	06:07	400	19:44	0.0	0.0	0.1	0.0
Kanpur	400	420	06:06	403	19:44	0.0	0.0	0.0	0.0
Dadri	400	422	06:05	403	19:54	0.0	0.0	5.0	0.0
Ballabgarh	400	429	04:11	409	19:44	0.0	0.0	55.2	0.0
Bawana	400	424	03:58	407	19:45	0.0	0.0	27.8	0.0
Bassi	400	430	04:03	403	19:44	0.0	0.0	55.4	0.0
Hissar	400	415	04:04	398	19:43	0.0	0.0	0.0	0.0
Moga	400	414	02:41	398	19:44	0.0	0.0	0.0	0.0
Abdullapur	400	424	04:11	405	19:44	0.0	0.0	5.5	0.0
Nalagarh	400	421	01:44	403	19:42	0.0	0.0	0.5	0.0
Kishenpur	400	420	02:46	406	05:45	0.0	0.0	0.0	0.0
Wagoora	400	419	00:00	390	05:47	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	774	04:11	739	19:44	0.0	0.5	0.0	0.0
Balia	765	756	06:04	717	19:54	18.2	54.9	0.0	0.0
Moga	765	792	02:49	751	19:47	0.0	0.0	0.0	0.0
Agra	765	813	05:01	769	19:45	0.0	0.0	39.2	0.0
Bhiwani	765	806	04:04	769	19:44	0.0	0.0	11.4	0.0
Unnao	765	761	04:12	739	00:17	0.0	2.3	0.0	0.0

IX. 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	504.01	1272.20	484.29	569.03	1344.37	934.43
Pong	426.72	384.05	419.88	889.22	402.87	288.90	1990.67	1011.34
Tehri	829.79	740.04	818.55	972.00	818.65	982.26	741.08	563.00
Koteshwar	612.50	598.50	610.45	4.69	NA	NA	NA	597.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	335.27	344.07
Rihand	268.22	252.98	257.07	159.40	258.04	242.70	NA	NA
RPS	352.80	343.81	352.22	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.39	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.02	144.00	501.51	144.00	525.96	NA

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 09.08.2013 :

1. Scattered Rain .

XIII. Synchronisation of new generating units :

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 09.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER