

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.08.2013
Date of Reporting : 08.08.2013

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
38997	1520	40517	50.04	34848	1295	36143	0.00	883.4	23.26

* 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	44.79	9.90		54.69	114.35	115.18	0.83	169.87	0.00
Haryana	59.87	0.45		60.32	89.85	90.05	0.19	150.37	0.00
Rajasthan	66.01	6.31	20.74	93.06	48.85	43.20	-5.66	136.25	0.00
Delhi	28.42			28.42	67.99	62.40	-5.59	90.82	0.00
UP	118.01	3.31	1.20	122.53	127.51	125.41	-2.09	247.94	20.10
Uttarakhand		15.22		15.22	17.65	16.08	-1.57	31.30	1.46
HP		22.51		22.51	1.65	0.83	-0.83	23.34	0.00
J & K		13.72	0.00	13.72	16.48	14.38	-2.10	28.10	1.70
Chandigarh				0.00	5.83	5.37	-0.46	5.37	0.00
Total	317.10	71.43	21.94	410.47	490.15	472.89	-17.26	883.35	23.26

* 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	7811	0	-18	1871	6377	0	-193	1878	44.70	
Haryana	6976	0	-120	784	6149	0	-108	525	11.65	
Rajasthan	5835	0	-118	-60	5072	0	-466	12	0.09	
Delhi	4181	0	145	248	3317	0	-301	29	6.52	
UP	9945	1320	-467	1431	10857	1220	-46	1977	28.57	
Uttarakhand	1516	100	49	29	1195	75	-90	-14	0.16	
HP	952	0	-119	-971	802	0	-66	-1175	-24.10	
J&K	1527	100	-97	-77	919	0	-99	-425	-8.46	
Chandigarh	255	0	-1	0	161	0	-62	-10	0.19	
Total	38997	1520	-746	3256	34848	1295	-1431	2798	59.30	

* 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	1735	1879	1428	34.85	1452	35.03	-0.18	
	Rihand I STPS	1000	915	926	643	17.72	738	18.44	-0.72	
	Rihand II STPS	1000	470	487	330	8.99	375	9.48	-0.49	
	Rihand III STPS	500	485	506	330	9.15	381	9.45	-0.30	
	Dadri I STPS	840	590	481	469	10.24	427	10.31	-0.07	
	Dadri II STPS	980	480	469	353	8.64	360	8.92	-0.28	
	Unchahar I TPS	420	391	414	316	7.78	324	7.89	-0.11	
	Unchahar II TPS	420	403	417	310	7.45	310	7.47	-0.02	
	Unchahar III TPS	210	201	206	153	3.85	161	3.93	-0.08	
	ISTPP (Jhajjar)	1500	1470	627	625	14.07	586	14.31	-0.24	
	Dadri GPS	830	523	376	369	8.65	361	8.78	-0.13	
	Anta GPS	419	396	388	374	8.94	372	9.06	-0.12	
	Auraiya GPS	663	591	304	308	7.01	292	7.04	-0.03	
	Sub Total (A)	10782	8649	7480	6008	147.33	6139	150.11	-2.78	
	B. NPC	NAPS	440	151	182	180	3.80	159	3.62	0.18
		RAPS- B	440	375	439	446	9.55	398	9.00	0.55
RAPS- C		440	210	236	238	4.99	208	5.04	-0.05	
Sub Total (B)		1320	736	857	864	18.35	765	17.66	0.69	
C. NHPC	Chamera I HPS	540	534	540	540	12.70	529	12.82	-0.11	
	Chamera II HPS	300	284	303	295	6.96	290	6.81	0.15	
	Chamera III HPS	231	231	236	225	5.51	230	5.55	-0.04	
	Bairasuil HPS	180	179	179	150	3.76	157	3.61	0.15	
	Salal-HPS	690	642	669	667	15.61	651	14.93	0.68	
	Tanakpur-HPS	94	94	94	96	2.26	94	2.18	0.07	
	Uri-HPS	480	242	285	173	5.61	234	5.91	-0.30	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	383	403	307	9.00	375	9.19	-0.19	
	Sewa-II HPS	120	119	122	118	2.89	120	2.90	-0.02	
	Sub Total (C)	3305	2708	2831	2571	64.30	2679	63.90	0.40	
	D. NJPC	Nathpa Jhakri	1500	1605	1624	1619	38.72	1613	38.45	0.27
Sub Total (D)		1500	1605	1624	1619	38.72	1613	38.45	0.27	
E. THDC	Tehri HPS	1000	1060	1061	1051	25.24	1052	25.25	-0.01	
	Sub Total (E)	1400	1438	1431	1418	33.91	1413	34.33	-0.42	
F. BBMB	Bhakra HPS	1480	1286	1343	1339	30.87	1286	30.86	0.01	
	Dehar HPS	990	602	825	560	14.63	610	14.45	0.18	
	Pong HPS	396	306	312	312	7.46	311	7.34	0.12	
	Sub Total (F)	2866	2194	2480	2211	52.96	2207	52.65	0.31	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	199	191	4.30	179	3.37	0.93	
	KWHEP HPS(IPP)	1000	0	1200	1118	28.10	1171	28.51	-0.41	
	Malana Stg-II HPS	100	0	113	113	2.59	108	2.52	0.06	
	Shree Cement TPS	300	0	108	140	3.16	132	3.51	-0.36	
	Budhil HPS(IPP)	70	0	75	75	1.76	73	1.69	0.07	
	Sub Total (G)	1662	0	1695	1637	39.91	1663	39.61	0.30	
H. Total Regional Entities (A-G)	22836	17331	18398	16328	395.48	16478	396.71	-1.23		

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	1260	1060	24.42	1017
	Guru Nanak Dev TPS(Bhatinda)	440	170	180	3.61	151
	Guru Hargobind Singh TPS(L.mbt)	920	668	662	16.76	698
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2098	1902	44.79	1866
	Total Hydro	1148	415	426	9.90	412
Total Punjab		3768	2513	2328	54.69	2279
Haryana	Panipat TPS	1367	704	733	17.22	717
	DCRTPP (Yamuna nagar)	600	259	253	6.01	250
	Faridabad GPS (NTPC)	432	327	297	7.22	301
	RGTPP (khedar) (IPP)	1200	901	721	19.20	800
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	517	358	10.22	426
	Thermal (Total)	4944	2708	2362	59.87	2495
	Total Hydro	62	26	0	0.45	19
	Total Haryana	5006	2734	2362	60.32	2514
	Rajasthan	kota TPS	1240	670	607	15.07
suratgarh TPS		1500	644	570	13.64	568
Chabra TPS		500	211	192	4.61	192
Dholpur GPS		330	78	117	2.29	95
Ramgarh GPS		111	25	26	0.70	29
RAPS A (NPC)		300	176	176	4.10	171
Barsingsar (NLC)		250	90	91	1.99	83
Giral LTPS		250	62	56	1.14	47
Rajwest LTPS (IPP)		1080	341	466	10.39	433
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	584	476	12.08	503
Thermal (Total)		6956	2881	2777	66.01	2750
Total Hydro		550	300	297	6.31	263
Wind power		2191	596	370	12.17	507
Biomass		91	32	32	0.77	32
Solar		201	0	0	1.48	62
Renewable/Others (Total)		2483	628	402	20.74	864
Total Rajasthan		9989	3809	3476	93.06	3877
UP		Anpara TPS	1630	1191	1215	29.00
	Obra TPS	1288	413	384	9.50	396
	Paricha TPS	1140	675	730	15.90	663
	Panki TPS	210	99	122	2.40	100
	Harduaganj TPS	665	354	361	8.50	354
	Tanda TPS (NTPC)	440	395	395	9.67	403
	Roza TPS (IPP)	1200	995	837	22.41	934
	Anpara-C (IPP)	1200	668	627	15.41	642
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	241	203	5.23	218
	Thermal (Total)	8223	5031	4874	118.01	4917
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	85	165	3.31	138
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5166	5089	122.53	5105
	Uttarakhand	Total Hydro	1303	733	467	15.22
Total Uttarakhand		1303	733	467	15.22	634
Delhi	Rajghat TPS	135	50	91	2.17	91
	Delhi Gas Turbine	282	74	118	2.47	103
	Pragati Gas Turbine	330	279	266	6.67	278
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	247	206	5.41	225
	Badarpur TPS (NTPC)	705	510	570	11.69	487
	Thermal (Total)	2232	1160	1251	28.42	1184
	Total Delhi	2232	1160	1251	28.42	1184
HP	Baspa HPS (IPP)	330	304	304	7.45	311
	Malana HPS (IPP)	86	53	55	1.32	55
	Other Hydro	589	611	607	13.75	573
	Total HP	1005	968	966	22.51	938
J & K	Baglihar HPS (IPP)	450	436	434	10.44	435
	Other Hydro	323	135	138	3.28	137
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	571	572	13.72	572
Total State Control Area Generation		34390	17654	16511	410.47	17103
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4726	2200	78.87	3286
Total Regional Availability(Gross)		57226	40778	35039	884.81	36867

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9878	9241	224.88	9370
State Control Area Hydro	5368	3098	2893	71.43	2976
Total Regional Hydro	15731	12976	12134	296.31	12346

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	150	500	250	3.54	1.80	1.74
Gwalior-Agra (D/C)	1422	586	1700	0	23.27	0.00	23.27
Zerda-Kankroli	65	-332	65	359	0.00	4.75	-4.75
Zerda-Bhinmal	80	-298	86	352	0.00	4.12	-4.12
Malanpur-Auraiya	-66	-76	0	104	0.00	1.42	-1.42
Badod-Kota/Morak	-3	-123	0	140	0.00	1.60	-1.60
Mundra-Mohindergarh(HVDC)	1449	1237	1450	0	30.61	0.00	30.61
Sub Total WR	3247	1144			57.42	13.69	43.73
Pusaui Bypass	-250	-166	0	331	0.00	4.49	-4.49
MZP- GKP (D/C)	582	528	763	0	14.11	0.00	14.11
Patna-Balia(D/C)	432	321	756	0	10.62	0.00	10.62
B'Sharif-Balia (D/C)	264	217	506	0	6.84	0.00	6.84
Pusaui-Balia	-14	-1	95	56	0.00	0.43	-0.43
Gaya-Fatehpur (765 Kv)	104	-38	104	38	0.95	0.00	0.95
Pusaui-Sahupuri	141	162	196	0	3.93	0.00	3.93
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)	258	73	258	0	4.50	0.00	4.50
Sub Total ER	1479	1056			40.95	5.82	35.14
Total IR Exch	4726	2200			98.37	19.51	78.87

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
34.64	3.55	38.19	-4.45	39.69	-1.48	-8.65	3.02	-3.02

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
35.28	75.46	110.74	35.14	43.73	78.87	-0.15	-31.73	-31.88

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	0.10	67.60	0.30	67.50	81.30	32.40

<----- 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				
50.61	4.03	49.68	14.19	50.16	0.47	0.17	50.36	0.00

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	18:07	400	22:33	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	415	18:06	398	12:44	0.0	0.0	0.0	0.0
Kanpur	400	416	18:03	402	19:49	0.0	0.0	0.0	0.0
Dadri	400	416	18:01	401	14:19	0.0	0.0	0.0	0.0
Ballabgarh	400	422	18:02	408	19:38	0.0	0.0	2.8	0.0
Bawana	400	417	18:03	405	19:37	0.0	0.0	0.0	0.0
Bassi	400	422	18:03	407	10:35	0.0	0.0	2.0	0.0
Hissar	400	410	18:01	397	19:51	0.0	0.0	0.0	0.0
Moga	400	412	18:01	400	10:29	0.0	0.0	0.0	0.0
Abdullapur	400	415	18:02	402	19:36	0.0	0.0	0.0	0.0
Nalagarh	400	412	17:01	404	14:17	0.0	0.0	0.0	0.0
Kishenpur	400	417	23:28	405	20:25	0.0	0.0	0.0	0.0
Wagoora	400	419	23:26	394	20:23	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	768	18:03	740	12:44	0.0	2.1	0.0	0.0
Balia	765	758	15:57	718	14:19	19.7	62.8	0.0	0.0
Moga	765	786	18:02	758	10:07	0.0	0.0	0.0	0.0
Agra	765	801	18:07	767	19:50	0.0	0.0	0.1	0.0
Bhiwani	765	795	18:04	770	12:46	0.0	0.0	0.0	0.0
Unnao	765	757	18:07	731	22:36	0.0	61.5	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
Koteswar	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 07.08.2013 :

1.Normal weather.

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 : 07.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER