

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.08.2013
Date of Reporting : 16.08.2013

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
32420	2155	34575	50.12	32896	200	33096	50.57	749.0	16.61

* 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	15.93	13.12		29.05	104.24	98.27	-5.97	127.32	0.00
Haryana	48.79	0.61		49.39	73.54	68.95	-4.59	118.35	0.00
Rajasthan	56.48	6.86	11.18	74.52	55.60	48.00	-7.60	122.52	0.00
Delhi	18.61			18.61	64.14	54.78	-9.37	73.39	0.00
UP	110.29	3.70	1.20	115.19	114.41	116.58	2.17	231.78	14.86
Uttarakhand		20.85		20.85	11.86	9.12	-2.74	29.97	0.05
HP		21.69		21.69	1.05	-1.33	-2.38	20.36	0.00
J & K		13.59	0.00	13.59	10.05	6.85	-3.21	20.43	1.70
Chandigarh				0.00	5.41	4.89	-0.52	4.89	0.00
Total	250.09	80.42	12.38	342.89	440.30	406.10	-34.20	748.99	16.61

* 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	5554	0	43	1870	5945	0	-651	1891	44.78	
Haryana	5404	0	302	608	5181	0	-631	611	14.55	
Rajasthan	5218	0	56	-14	4904	0	-459	123	1.12	
Delhi	3278	0	-222	346	3408	0	-202	280	7.47	
UP	9226	2030	-132	569	10450	200	-329	1002	16.27	
Uttarakhand	1391	25	147	-33	1382	0	-18	-25	-1.07	
HP	908	0	50	-1200	884	0	-28	-1053	-24.18	
J&K	1227	100	62	-324	529	0	-192	-617	-9.49	
Chandigarh	214	0	-11	-15	213	0	-1	0	0.06	
Total	32420	2155	295	1806	32896	200	-2510	2213	49.52	

* 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)	UI [OG:(+ve), UG: (-ve)]		
								Schedule Net MU	UI Net MU	
A. NTPC	Singrauli STPS	2000	1705	1990	1263	31.98	1332	32.08	-0.11	
	Rihand I STPS	1000	920	912	898	16.06	669	17.52	-1.46	
	Rihand II STPS	1000	470	499	452	8.32	347	9.00	-0.69	
	Rihand III STPS	500	485	494	446	8.50	354	9.28	-0.78	
	Dadri I STPS	840	600	368	471	9.18	382	9.46	-0.28	
	Dadri II STPS	980	775	938	350	12.98	541	14.21	-1.23	
	Unchahar I TPS	420	391	338	303	6.62	276	6.65	-0.03	
	Unchahar II TPS	420	403	344	309	6.82	284	6.89	-0.07	
	Unchahar III TPS	210	201	184	153	3.42	142	3.44	-0.03	
	ISTPP (Jhajjar)	1500	1470	317	617	9.77	407	9.59	0.18	
	Dadri GPS	830	523	194	384	6.34	264	6.33	0.01	
	Anta GPS	419	404	180	391	6.08	253	6.30	-0.21	
	Auraiya GPS	663	625	155	309	5.08	211	5.22	-0.15	
	Sub Total (A)	10782	8970	6913	6346	131.14	5464	135.97	-4.84	
	B. NPC	NAPS	440	289	335	340	7.07	295	6.94	0.14
		RAPS- B	440	399	438	445	9.53	397	9.58	-0.04
RAPS- C		440	348	405	237	6.95	290	8.35	-1.40	
Sub Total (B)		1320	1036	1178	1022	23.56	982	24.86	-1.30	
C. NHPC	Chamera I HPS	540	534	301	540	12.85	535	12.82	0.03	
	Chamera II HPS	300	300	301	263	6.99	291	7.15	-0.16	
	Chamera III HPS	231	231	233	218	5.46	228	5.52	-0.06	
	Bairasuil HPS	180	123	180	0	2.06	86	2.22	-0.16	
	Salal-HPS	690	0	0	0	0.00	0	0.00	0.00	
	Tanakpur-HPS	94	90	85	92	2.09	87	2.14	-0.06	
	Uri-HPS	480	388	460	310	9.12	380	8.77	0.35	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	323	404	249	7.61	317	7.78	-0.17	
	Sewa-II HPS	120	119	125	120	2.88	120	2.84	0.05	
	Sub Total (C)	3305	2107	2089	1792	49.06	2044	49.23	-0.16	
D. NJPC	Nathpa Jhakri	1500	1605	1623	1493	38.56	1607	38.52	0.04	
	Sub Total (D)	1500	1605	1623	1493	38.56	1607	38.52	0.04	
E. THDC	Tehri HPS	1000	1060	1059	998	24.98	1041	25.25	-0.27	
	Koteshwar HPS	400	360	363	359	8.56	357	8.64	-0.08	
	Sub Total (E)	1400	1420	1422	1357	33.53	1397	33.89	-0.36	
F. BBMB	Bhakra HPS	1480	1198	1337	1081	28.66	1194	28.76	-0.10	
	Dehar HPS	990	621	825	610	15.25	635	14.92	0.34	
	Pong HPS	396	366	372	372	9.00	375	8.78	0.22	
	Sub Total (F)	2866	2186	2534	2063	52.91	2205	52.46	0.45	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	215	198	4.61	192	4.34	0.27	
	KWHEP HPS(IPP)	1000	0	1198	1125	27.39	1141	28.48	-1.09	
	Malana Stg-II HPS	100	0	113	112	2.70	113	2.52	0.18	
	Shree Cement TPS	300	0	122	105	2.74	114	2.57	0.17	
	Budhil HPS(IPP)	70	0	74	75	1.77	74	1.68	0.09	
	Sub Total (G)	1662	0	1722	1615	39.21	1634	39.60	-0.39	
H. Total Regional Entities (A-G)	22836	17324	17481	15688	367.97	15332	374.53	-6.56		

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	210	680	8.04	335
	Guru Nanak Dev TPS(Bhatinda)	440	0	85	0.56	23
	Guru Hargobind Singh TPS(L.mbt)	920	203	650	7.34	306
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	413	1415	15.93	664
	Total Hydro	1148	567	566	13.12	547
	Total Punjab	3768	980	1981	29.05	1210
Haryana	Panipat TPS	1367	389	742	11.79	491
	DCRTPP (Yamuna nagar)	600	0	246	4.05	169
	Faridabad GPS (NTPC)	432	194	300	4.85	202
	RGTPP (khedar) (IPP)	1200	471	371	9.78	408
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	833	744	18.31	763
	Thermal (Total)	4944	1887	2403	48.79	2033
	Total Hydro	62	25	25	0.61	25
	Total Haryana	5006	1912	2428	49.39	2058
	Rajasthan	kota TPS	1240	486	618	12.87
suratgarh TPS		1500	593	568	13.28	553
Chabra TPS		500	192	383	6.49	270
Dholpur GPS		330	0	70	1.75	73
Ramgarh GPS		111	29	87	1.61	67
RAPS A (NPC)		300	176	176	4.03	168
Barsingsar (NLC)		250	92	90	2.11	88
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	51	371	3.08	128
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	588	437	11.26	469
Thermal (Total)		6956	2207	2800	56.48	2353
Total Hydro		550	257	298	6.86	286
Wind power		2191	159	135	2.78	116
Biomass		91	29	29	0.69	29
Solar		201	0	0	0.85	35
Renewable/Others (Total)		2483	188	164	11.18	466
Total Rajasthan		9989	2652	3262	74.52	3105
UP		Anpara TPS	1630	1193	1144	25.90
	Obra TPS	1288	466	464	11.20	467
	Paricha TPS	1140	765	779	18.40	767
	Panki TPS	210	72	59	1.90	79
	Harduaganj TPS	665	351	311	7.90	329
	Tanda TPS (NTPC)	440	331	382	8.48	353
	Roza TPS (IPP)	1200	828	850	20.66	861
	Anpara-C (IPP)	1200	622	679	14.64	610
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	153	1.21	50
	Thermal (Total)	8223	4628	4821	110.29	4595
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	164	158	3.70	154
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	4842	5029	115.19	4800
	Uttarakhand	Total Hydro	1303	747	893	20.85
Total Uttarakhand		1303	747	893	20.85	869
Delhi	Raighat TPS	135	44	43	0.97	40
	Delhi Gas Turbine	282	81	81	1.98	82
	Pragati Gas Turbine	330	145	274	4.83	201
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	213	220	5.18	216
	Badarpur TPS (NTPC)	705	260	280	5.66	236
	Thermal (Total)	2232	743	898	18.61	776
Total Delhi	2232	743	898	18.61	776	
HP	Baspa HPS (IPP)	330	304	304	7.51	313
	Malana HPS (IPP)	86	75	49	1.45	61
	Other Hydro	589	579	577	12.72	530
	Total HP	1005	958	930	21.69	904
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	13409	15990	342.89	14287
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2461	980	41.61	1734
Total Regional Availability(Gross)		57226	33351	32658	752.47	31353

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9194	8140	208.77	8699
State Control Area Hydro	5368	3293	3439	80.42	3351
Total Regional Hydro	15731	12487	11579	289.19	12049

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	-500	-400	0	-500	0.00	10.89	-10.89
Gwalior-Agra (D/C)	1031	341	1167	0	13.66	0.00	13.66
Zerda-Kankroli	16	-269	16	306	0.00	4.47	-4.47
Zerda-Bhinmal	89	-220	115	281	0.00	3.15	-3.15
Malanpur-Auraiya	-66	-90	0	144	0.00	2.06	-2.06
Badod-Kota/Morak	17	-126	36	184	0.00	-1.99	1.99
Mundra-Mohindergarh(HVDC)	651	1039	1089	0	20.81	0.00	20.81
Sub Total WR	1238	275			34.47	18.57	15.90
Pusauli Bypass	-237	-306	0	344	0.00	5.53	-5.53
MZP- GKP (D/C)	530	468	751	0	13.17	0.00	13.17
Patna-Balia(D/C)	323	239	424	0	6.58	0.00	6.58
B'Sharif-Balia (D/C)	232	187	355	0	5.36	0.00	5.36
Pusauli-Balia	-23	17	21	23	0.82	0.00	0.82
Gaya-Fatehpur (765 Kv)	53	-84	53	103	0.00	0.50	-0.50
Pusauli-Sahupuri	139	162	166	0	3.59	0.00	3.59
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)	244	62	244	0	3.11	0.00	3.11
Sub Total ER	1223	705			32.63	6.92	25.71
Total IR Exch	2461	980			67.10	25.50	41.61

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
30.62	3.73	34.36	-3.52	40.71	-1.37	-20.91	3.15	-3.15

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
32.62	48.67	81.29	25.71	15.90	41.61	-6.91	-32.77	-39.68

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	0.35	37.85	0.15	37.85	95.97	62.50

<----- 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)		
50.77	8.03	49.74	19.14	50.35	1.56	0.18	50.71	49.94

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	418	04:21	407	19:49	0.0	0.0	0.0	0.0
Gorakhpur	400	422	08:00	408	18:00	0.0	0.0	0.0	0.0
Barilly	400	425	07:24	405	22:05	0.0	0.0	10.0	0.0
Kanpur	400	424	04:40	404	19:34	0.0	0.0	25.4	0.0
Dadri	400	423	07:58	408	22:04	0.0	0.0	23.9	0.0
Ballabgarh	400	429	08:03	412	19:32	0.0	0.0	79.5	0.0
Bawana	400	423	08:05	409	19:33	0.0	0.0	20.0	0.0
Bassi	400	430	02:33	402	19:33	0.0	0.0	68.8	0.0
Hissar	400	412	00:01	399	19:34	0.0	0.0	0.0	0.0
Moga	400	415	00:01	401	19:33	0.0	0.0	0.0	0.0
Abdullapur	400	419	03:02	405	19:34	0.0	0.0	0.0	0.0
Nalagarh	400	414	02:24	401	19:32	0.0	0.0	0.0	0.0
Kishenpur	400	423	02:38	405	19:49	0.0	0.0	16.0	0.0
Wagoora	400	421	02:24	394	19:55	0.0	0.0	2.1	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	781	04:42	741	19:33	0.0	0.2	0.0	0.0
Balia	765	765	04:37	731	18:40	0.0	14.2	0.0	0.0
Moga	765	784	03:02	741	23:25	0.0	0.0	0.0	0.0
Agra	765	818	07:59	769	19:34	0.0	0.0	59.8	0.0
Bhiwani	765	800	03:03	790	00:15	0.0	0.0	0.0	0.0
Unnao	765	770	09:56	748	21:05	0.0	0.0	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	506.77	1396.66	487.96	644.48	1484.00	877.82
Pong	426.72	384.05	421.05	931.43	405.91	344.07	2049.09	513.27
Tehri	829.79	740.04	819.35	988.00	818.65	982.26	729.35	555.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	953.02	347.96
Rihand	268.22	252.98	257.89	196.40	260.12	311.30	NA	NA
RPS	352.80	343.81	345.25	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	521.67	144.00	502.54	144.00	926.24	134.45

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 15.08.2013 :

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 : 15.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER