

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.10.2013
Date of Reporting : 11.10.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
38385	2769	41153	50.13	34766	1070	35836	50.23	849.1	50.12

* 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	51.18	10.92		62.10	79.87	80.91	1.04	143.01	0.00
Haryana	59.52	0.55		60.08	60.08	69.65	0.00	129.73	0.99
Rajasthan	70.25	7.41	5.55	83.21	78.05	74.06	-3.99	157.27	0.00
Delhi	26.53			26.53	63.11	64.44	1.32	90.96	0.00
UP	120.60	4.01	1.70	126.31	108.25	107.98	-0.27	234.28	45.59
Uttarakhand		16.24		16.24	13.82	16.13	2.31	32.37	1.70
HP		14.23		14.23	9.55	9.88	0.34	24.12	0.14
J & K		13.30	0.00	13.30	16.94	19.39	2.45	32.69	1.70
Chandigarh				0.00	4.48	4.66	0.18	4.66	0.00
Total	328.08	66.66	7.25	401.99	443.72	447.09	3.38	849.09	50.12

* 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	STOA/PX transaction
Punjab	6634	0	-27	607	5743	0	60	677	19.11	
Haryana	5738	374	58	-392	5589	0	-26	-409	-9.69	
Rajasthan	7339	0	-86	1255	6439	0	-147	1477	33.97	
Delhi	4144	0	-179	-155	3257	0	42	-655	-6.08	
UP	9997	2150	-323	1535	10372	1070	188	1817	29.31	
Uttarakhand	1468	145	25	187	1300	0	142	156	4.09	
HP	1143	0	-84	-572	832	0	176	-229	-6.84	
J&K	1698	100	74	-32	1084	0	118	-299	-2.92	
Chandigarh	224	0	-19	-20	151	0	-1	0	0.07	
Total	38385	2769	-562	2413	34766	1070	552	2536	61.03	

* 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)	Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1940	2085	2082	46.41	1934	46.56	-0.15
Rihand I STPS	1000	920	988	979	21.62	901	22.01	-0.39
Rihand II STPS	1000	478	519	512	11.35	473	11.47	-0.12
Rihand III STPS	500	424	505	452	9.84	410	10.17	-0.33
Dadri I STPS	840	600	638	612	14.04	585	14.35	-0.31
Dadri II STPS	980	975	971	964	22.48	937	22.77	-0.29
Unchahar I TPS	420	201	212	208	4.61	192	4.73	-0.13
Unchahar II TPS	420	403	436	419	9.20	383	9.34	-0.14
Unchahar III TPS	210	200	217	207	4.51	188	4.59	-0.08
ISTPP (Jhajjar)	1500	1480	902	876	18.74	781	19.03	-0.29
Dadri GPS	830	802	389	391	9.10	379	9.29	-0.19
Anta GPS	419	401	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	626	153	146	3.53	147	3.62	-0.09
Sub Total (A)	10782	9449	8015	7848	175.43	7309	177.93	-2.50
B. NPC								
NAPS	440	295	334	335	7.02	293	7.08	-0.06
RAPS- B	440	398	446	445	9.59	400	9.55	0.04
RAPS- C	440	410	467	468	9.96	415	9.84	0.12
Sub Total (B)	1320	1103	1247	1248	26.57	1107	26.47	0.09
C. NHPC								
Chamera I HPS	540	539	540	0	4.44	185	4.40	0.04
Chamera II HPS	300	300	280	0	4.02	168	3.82	0.20
Chamera III HPS	231	230	221	70	2.99	124	3.01	-0.02
Bairasuil HPS	180	122	22	0	1.16	48	1.19	-0.03
Salal-HPS	690	504	455	432	11.80	492	12.04	-0.24
Tanakpur-HPS	94	68	80	62	1.66	69	1.63	0.02
Uri-HPS	480	162	245	65	3.85	160	3.84	0.01
Uri-II HPS	240	0	0	0	0.00	0	0.00	0.00
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	406	400	9.27	386	9.26	0.01
Sewa-II HPS	120	119	57	37	0.82	34	0.83	-0.02
Sub Total (C)	3545	2431	2306	1066	40.00	1666	40.02	-0.02
D. NJPC								
Nathpa Jhakri	1500	1605	1621	400	19.47	811	18.71	0.77
Sub Total (D)	1500	1605	1621	400	19.47	811	18.71	0.77
E. THDC								
Tehri HPS	1000	1060	1060	0	7.14	297	7.00	0.14
Koteshwar HPS	400	100	101	100	2.40	100	2.40	0.00
Sub Total (E)	1400	1160	1161	100	9.54	397	9.40	0.14
F. BBMB								
Bhakra HPS	1497	617	1053	523	15.30	638	14.80	0.50
Dehar HPS	990	436	660	495	11.40	475	10.47	0.94
Pong HPS	396	204	372	126	0.48	20	4.90	-4.42
Sub Total (F)	2883	1257	2085	1144	27.18	1133	30.16	-2.98
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	127	26	1.54	64	1.57	-0.03
KWHEP HPS(IPP)	1000	0	900	225	10.11	421	9.60	0.51
Malana Stg-II HPS	100	0	102	0	1.17	49	1.12	0.04
Shree Cement TPS	300	0	263	267	5.04	210	5.11	-0.07
Budhil HPS(IPP)	70	0	35	35	0.80	33	0.88	-0.08
Sub Total (G)	1662	0	1427	553	18.66	778	18.29	0.37
H. Total Regional Entities (A-G)	23092	17004	17862	12359	316.84	13202	320.98	-4.14

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	990	24.48	1020
	Guru Nanak Dev TPS(Bhatinda)	440	337	337	6.96	290
	Guru Hargobind Singh TPS(L.mbt)	920	918	928	19.75	823
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2515	2255	51.18	2133
	Total Hydro	1148	433	409	10.92	455
Total Punjab	3768	2948	2664	62.10	2588	
Haryana	Panipat TPS	1367	509	523	12.44	518
	DCRTPP (Yamuna nagar)	600	555	562	13.08	545
	Faridabad GPS (NTPC)	432	196	196	4.69	196
	RGTPP (khedar) (IPP)	1200	1027	969	24.20	1009
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	522	5.11	213
	Thermal (Total)	4944	2287	2772	59.52	2480
	Total Hydro	62	23	22	0.55	23
	Total Haryana	5006	2310	2794	60.08	2503
	Rajasthan	kota TPS	1240	927	884	21.89
suratgarh TPS		1500	1049	954	23.13	964
Chabra TPS		500	0	0	0.00	0
Dholpur GPS		330	89	83	2.24	93
Ramgarh GPS		111	89	62	1.64	68
RAPS A (NPC)		300	179	179	4.06	169
Barsingsar (NLC)		250	110	111	2.56	107
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	723	686	14.72	614
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	0	0	0.00	0
Thermal (Total)		6956	3166	2959	70.25	2927
Total Hydro		550	364	253	7.41	309
Wind power		2191	60	160	3.14	131
Biomass		91	30	30	0.73	30
Solar		201	0	0	1.69	70
Renewable/Others (Total)		2483	90	190	5.55	231
Total Rajasthan		9989	3620	3402	83.21	3467
UP		Anpara TPS	1630	1166	1121	28.10
	Obra TPS	1288	288	166	5.70	238
	Paricha TPS	1140	635	697	17.00	708
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	466	464	11.00	458
	Tanda TPS (NTPC)	440	296	295	7.30	304
	Roza TPS (IPP)	1200	599	802	18.57	774
	Anpara-C (IPP)	1200	1038	999	23.86	994
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	284	404	9.07	378
	Thermal (Total)	8223	4772	4948	120.60	5025
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	158	215	4.01	167
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5000	5233	126.31	5263
Uttarakhand	Total Hydro	1303	710	644	16.24	677
	Total Uttarakhand	1303	710	644	16.24	677
Delhi	Rajghat TPS	135	0	57	0.50	21
	Delhi Gas Turbine	282	111	116	2.65	110
	Pragati Gas Turbine	330	295	199	6.00	250
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	251	247	5.51	230
	Badarpur TPS (NTPC)	705	570	545	11.88	495
	Thermal (Total)	2232	1227	1164	26.53	1105
Total Delhi	2232	1227	1164	26.53	1105	
HP	Baspa HPS (IPP)	330	139	0	3.68	153
	Malana HPS (IPP)	86	88	16	1.19	49
	Other Hydro	589	415	423	9.37	390
	Total HP	1005	642	439	14.23	593
J & K	Baglihar HPS (IPP)	450	436	438	10.47	436
	Other Hydro	323	100	128	2.83	118
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	536	566	13.30	554
Total State Control Area Generation		34390	16993	16906	401.99	16750
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5232	6195	133.01	5542
Total Regional Availability(Gross)		57482	40087	35460	851.84	35493

IV. Total Hydro Generation:

Regional Entities Hydro	10620	8302	2961	109.00	4542
State Control Area Hydro	5368	2866	2548	66.66	2778
Total Regional Hydro	15988	11168	5509	175.67	7319

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	500	500	50	8.35	0.03	8.32
Gwalior-Agra (D/C)	1366	1601	1686	0	34.77	0.00	34.77
Zerda-Kankroli	89	117	165	0	1.60	0.00	1.60
Zerda-Bhinmal	115	130	218	0	2.28	0.00	2.28
Malanpur-Auraiya	-77	-33	0	84	0.00	0.64	-0.64
Badod-Kota/Morak	101	122	122	0	1.81	0.00	1.81
Mundra-Mohindergarh(HVDC)	1501	1500	1503	0	36.26	0.00	36.26
Sub Total WR	3595	3937			85.07	0.67	84.41
Pusauli Bypass	100	100	100	0	2.41	0.00	2.41
MZP- GKP (D/C)	548	761	837	0	16.24	0.00	16.24
Patna-Balia(D/C)	393	512	627	0	11.74	0.00	11.74
B'Sharif-Balia (D/C)	311	454	577	0	10.10	0.00	10.10
Pusauli-Balia	32	57	104	0	1.29	0.00	1.29
Gaya-Fatehpur (765 Kv)	148	258	338	0	4.62	0.00	4.62
Pusauli-Sahupuri	142	152	159	0	3.05	0.00	3.05
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	38	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1637	2258			49.45	0.85	48.60
Total IR Exch	5232	6195			134.53	1.52	133.01

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
36.58	2.35	38.94	6.13	-1.56	15.59	25.47	0.54	-0.54

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
61.21	75.61	136.81	48.60	84.41	133.01	-12.60	8.80	-3.80

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	0.10	0.80	93.60	2.30	92.90	65.60	6.30

<----- 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)		
50.44	8.03	49.48	22.19	50.03	0.15	0.12	50.39	49.81

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	411	09:40	402	00:08	0.0	0.0	0.0	0.0
Gorakhpur	400	424	08:03	407	00:48	0.0	0.0	4.5	0.0
Bareilly	400	415	08:02	400	22:06	0.0	0.0	0.0	0.0
Kanpur	400	416	04:00	407	00:46	0.0	0.0	0.0	0.0
Dadri	400	416	04:01	401	12:29	0.0	0.0	0.0	0.0
Ballabgarh	400	425	04:02	405	12:26	0.0	0.0	14.9	0.0
Bawana	400	420	04:03	403	12:24	0.0	0.0	0.0	0.0
Bassi	400	430	04:01	405	18:49	0.0	0.0	22.8	0.0
Hissar	400	410	04:00	399	15:00	0.0	0.0	0.0	0.0
Moga	400	419	04:02	398	18:47	0.0	0.0	0.0	0.0
Abdullapur	400	417	04:01	400	12:27	0.0	0.0	0.0	0.0
Nalagarh	400	423	04:01	406	12:26	0.0	0.0	9.6	0.0
Kishenpur	400	424	04:01	403	18:49	0.0	0.0	9.0	0.0
Wagoora	400	423	04:01	392	18:20	0.0	0.0	3.9	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	759	23:50	733	18:47	0.0	18.6	0.0	0.0
Balia	765	757	08:03	727	22:08	0.3	41.8	0.0	0.0
Moga	765	790	04:02	758	18:47	0.0	0.0	0.0	0.0
Agra	765	804	04:03	773	18:49	0.0	0.0	0.3	0.0
Bhiwani	765	800	04:03	768	12:26	0.0	0.0	0.0	0.0
Unnao	765	761	15:32	744	18:32	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	510.78	1590.18	504.11	1272.20	436.00	410.46
Pong	426.72	384.05	422.13	990.81	421.88	975.89	153.42	279.77
Tehri	829.79	740.04	824.95	1101.00	818.65	982.26	140.35	154.00
Koteshwar	612.50	598.50	610.65	4.80	609.05	NA	154.00	159.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	128.89	120.10
Rihand	268.22	252.98	261.15	369.40	264.08	550.30	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	518.71	144.00	520.62	144.00	152.26	137.36

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 10.10.2013 :

1. Normal Weather in NR.

XIII. Synchronisation of new generating units :

0.00

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 :

Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.

Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood
Vishnuprayag and Dhauliganga expected by Dec, 2013 .

Report for : 10.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER