

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.10.2013

Date of Reporting : 10.10.2013

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
38246	3078	41324	50.20	34862	1280	36142	50.17	839.0	66.53

* 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	45.63	12.18		57.80	87.75	89.10	1.36	146.90	0.00
Haryana	67.32	0.48		67.80	67.73	68.75	1.02	136.55	1.08
Rajasthan	68.71	5.42	6.08	80.21	78.78	74.13	-4.65	154.34	0.00
Delhi	25.86			25.86	62.82	64.45	1.63	90.31	0.91
UP	115.71	4.26	1.70	121.68	94.88	96.93	2.05	218.60	61.44
Uttarakhand		15.35		15.35	13.36	15.53	2.18	30.88	1.40
HP		14.03		14.03	9.16	10.40	1.24	24.43	0.00
J & K		13.29	0.00	13.29	16.40	19.06	2.66	32.35	1.70
Chandigarh				0.00	4.37	4.67	0.31	4.67	0.00
Total	323.23	65.02	7.78	396.02	435.24	443.02	7.79	839.05	66.53

* 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	
Punjab	6607	0	14	953	5877	0	116	967	27.07
Haryana	6183	208	157	-393	5687	0	20	-407	-9.66
Rajasthan	7164	0	-208	1358	6356	0	-132	1447	34.97
Delhi	4226	0	26	-209	3197	0	-141	-572	-6.40
UP	9391	2695	140	534	10312	1280	36	1824	14.13
Uttarakhand	1589	75	112	201	1258	0	82	155	4.12
HP	1177	0	-14	-580	917	0	166	-256	-6.91
J&K	1678	100	56	-32	1104	0	114	-299	-3.07
Chandigarh	232	0	7	-30	155	0	2	0	0.00
Total	38246	3078	289	1802	34862	1280	263	2858	54.25

* 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
A. NTPC	Singrauli STPS	2000	1940	2091	2078	46.25	1927	46.56	-0.31
	Rihand I STPS	1000	914	978	873	20.34	848	21.88	-1.54
	Rihand II STPS	1000	478	516	518	11.34	472	11.44	-0.10
	Rihand III STPS	500	433	482	475	10.17	424	10.34	-0.17
	Dadri I STPS	840	600	654	650	14.41	601	14.31	0.10
	Dadri II STPS	980	965	998	946	22.50	938	22.75	-0.24
	Unchahar I TPS	420	201	183	196	4.62	192	4.78	-0.16
	Unchahar II TPS	420	403	423	394	9.36	390	9.54	-0.17
	Unchahar III TPS	210	200	222	176	4.61	192	4.73	-0.12
	ISTPP (Jhajjar)	1500	1480	982	832	17.10	713	17.17	-0.07
	Dadri GPS	830	802	389	391	9.10	379	9.31	-0.21
	Anta GPS	419	401	0	0	0.00	0	0.02	-0.02
	Auraiya GPS	663	629	154	155	3.55	148	3.60	-0.05
	Sub Total (A)	10782	9445	8072	7684	173.35	7223	176.42	-3.07
	B. NPC	NAPS	440	295	329	332	7.04	293	7.08
RAPS- B		440	396	445	447	9.53	397	9.50	0.03
RAPS- C		440	410	466	469	9.92	413	9.84	0.08
Sub Total (B)		1320	1101	1240	1248	26.48	1103	26.42	0.06
C. NHPC	Chamera I HPS	540	538	540	0	4.26	178	4.20	0.06
	Chamera II HPS	300	300	298	98	3.75	156	3.71	0.05
	Chamera III HPS	231	231	221	74	2.65	110	2.50	0.15
	Bairasuil HPS	180	122	20	20	1.08	45	1.06	0.02
	Salal-HPS	690	454	559	395	11.26	469	11.09	0.16
	Tanakpur-HPS	94	63	62	62	1.49	62	1.51	-0.02
	Uri-HPS	480	172	227	121	3.99	166	3.88	0.11
	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	407	402	9.24	385	9.26	-0.01
	Sewa-II HPS	120	119	70	0	0.60	25	0.62	-0.02
	Sub Total (C)	3545	2387	2404	1172	38.32	1597	37.83	0.50
D. NJPC	Nathpa Jhakri	1500	1605	1596	503	18.11	754	17.97	0.13
	Sub Total (D)	1500	1605	1596	503	18.11	754	17.97	0.13
E. THDC	Tehri HPS	1000	1060	1064	234	8.10	338	8.00	0.10
	Koteshwar HPS	400	125	202	92	2.72	113	2.70	0.02
	Sub Total (E)	1400	1185	1266	326	10.82	451	10.70	0.12
F. BBMB	Bhakra HPS	1497	663	1051	510	16.63	693	15.91	0.72
	Dehar HPS	990	400	495	305	10.51	438	9.60	0.91
	Pong HPS	396	216	372	126	5.38	224	5.19	0.19
	Sub Total (F)	2883	1279	1918	941	32.52	1355	30.70	1.82
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	135	33	1.61	67	1.49	0.12
	KWHEP HPS(IPP)	1000	0	900	250	9.49	396	9.60	-0.11
	Malana Stg-II HPS	100	0	107	0	1.29	54	1.15	0.15
	Shree Cement TPS	300	0	267	267	6.34	264	6.00	0.34
	Budhil HPS(IPP)	70	0	35	33	0.69	29	0.84	-0.16
	Sub Total (G)	1662	0	1444	583	19.42	809	19.09	0.33
H. Total Regional Entities (A-G)	23092	17002	17940	12457	319.02	13293	319.13	-0.11	

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	840	840	18.30	762
	Guru Nanak Dev TPS(Bhatinda)	440	337	338	7.29	304
	Guru Hargobind Singh TPS(L.mbt)	920	910	942	20.04	835
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2087	2120	45.63	1901
	Total Hydro	1148	586	492	12.18	507
	Total Punjab	3768	2673	2612	57.80	2408
Haryana	Panipat TPS	1367	408	444	10.32	430
	DCRTPP (Yamuna nagar)	600	556	556	13.14	548
	Faridabad GPS (NTPC)	432	196	194	4.70	196
	RGTPP (khedar) (IPP)	1200	1082	1118	26.43	1101
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	522	522	12.73	530
	Thermal (Total)	4944	2764	2834	67.32	2805
	Total Hydro	62	9	9	0.48	20
	Total Haryana	5006	2773	2843	67.80	2825
	Rajasthan	kota TPS	1240	917	892	21.90
suratgarh TPS		1500	1038	954	23.26	969
Chabra TPS		500	0	0	0.00	0
Dholpur GPS		330	83	81	2.00	83
Ramgarh GPS		111	59	65	1.64	68
RAPS A (NPC)		300	179	179	4.04	168
Barsingsar (NLC)		250	106	104	2.48	104
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	595	439	13.38	558
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	2977	2714	68.71	2863
Total Hydro		550	253	210	5.42	226
Wind power		2191	151	379	3.86	161
Biomass		91	31	31	0.74	31
Solar		201	0	0	1.48	62
Renewable/Others (Total)		2483	182	410	6.08	253
Total Rajasthan		9989	3412	3334	80.21	3342
UP		Anpara TPS	1630	1164	1182	28.00
	Obra TPS	1288	189	302	4.70	196
	Paricha TPS	1140	634	664	15.40	642
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	437	437	10.40	433
	Tanda TPS (NTPC)	440	296	296	7.30	304
	Roza TPS (IPP)	1200	810	540	17.30	721
	Anpara-C (IPP)	1200	1031	1007	24.02	1001
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	363	364	8.59	358
	Thermal (Total)	8223	4924	4792	115.71	4821
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	195	244	4.26	178
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5189	5106	121.68	5070
Uttarakhand	Total Hydro	1303	740	652	15.35	640
	Total Uttarakhand	1303	740	652	15.35	640
Delhi	Raighat TPS	135	57	57	1.27	53
	Delhi Gas Turbine	282	113	110	2.65	110
	Pragati Gas Turbine	330	195	156	4.14	173
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	247	248	6.01	251
	Badarpur TPS (NTPC)	705	540	550	11.79	491
	Thermal (Total)	2232	1152	1121	25.86	1078
Total Delhi	2232	1152	1121	25.86	1078	
HP	Baspa HPS (IPP)	330	122	0	3.03	126
	Malana HPS (IPP)	86	92	23	1.21	50
	Other Hydro	589	418	454	9.79	408
	Total HP	1005	632	477	14.03	585
J & K	Baglihar HPS (IPP)	450	436	434	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	562	13.29	554
Total State Control Area Generation		34390	17107	16707	396.02	16501
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4094	5948	127.87	5328
Total Regional Availability(Gross)		57482	39141	35112	842.91	35121

IV. Total Hydro Generation:

Regional Entities Hydro	10620	8326	3225	112.17	4674
State Control Area Hydro	5368	2951	2646	65.02	2709
Total Regional Hydro	15988	11277	5871	177.18	7383

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	0	11.91	0.02	11.90
Gwalior-Agra (D/C)	806	1668	1743	0	32.86	0.00	32.86
Zerda-Kankroli	71	41	154	80	0.82	0.00	0.82
Zerda-Bhinmal	105	62	203	69	1.41	0.00	1.41
Malanpur-Auraiya	-66	-31	0	101	0.00	1.17	-1.17
Badod-Kota/Morak	64	95	103	0	1.99	0.00	1.99
Mundra-Mohindergarh(HVDC)	1445	1446	1450	0	34.93	0.00	34.93
Sub Total WR	2925	3781			83.93	1.18	82.75
Pusauli Bypass	100	100	100	0	2.42	0.00	2.42
MZP- GKP (D/C)	419	742	765	0	14.34	0.00	14.34
Patna-Balia(D/C)	190	479	563	0	10.09	0.00	10.09
B'Sharif-Balia (D/C)	229	440	548	0	9.78	0.00	9.78
Pusauli-Balia	-12	71	118	-12	1.38	0.00	1.38
Gaya-Fatehpur (765 Kv)	141	212	309	0	5.05	0.00	5.05
Pusauli-Sahupuri	139	159	161	0	2.90	0.00	2.90
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	1169	2167			45.97	0.85	45.12
Total IR Exch	4094	5948			129.90	2.03	127.87

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
37.09	2.42	39.51	6.51	-1.01	12.02	20.46	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
58.59	71.42	130.00	45.12	82.75	127.87	-13.46	11.33	-2.14

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	0.80	90.70	1.90	89.90	70.00	9.30

<----- 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)		
50.42	8.05	49.59	18.23	50.05	0.18	0.12	50.35	49.83

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	406	10:04	402	00:45	0.0	0.0	0.0	0.0
Gorakhpur	400	420	22:42	408	15:18	0.0	0.0	0.0	0.0
Barailly	400	420	08:01	394	10:21	0.0	0.0	0.0	0.0
Kanpur	400	419	08:01	402	18:22	0.0	0.0	0.0	0.0
Dadri	400	416	07:28	401	15:18	0.0	0.0	0.0	0.0
Ballabgarh	400	424	04:02	407	15:18	0.0	0.0	19.1	0.0
Bawana	400	420	04:04	403	18:24	0.0	0.0	0.0	0.0
Bassi	400	428	03:09	405	18:31	0.0	0.0	20.5	0.0
Hissar	400	410	04:00	397	15:00	0.0	0.0	0.0	0.0
Moga	400	415	04:03	399	11:36	0.0	0.0	0.0	0.0
Abdullapur	400	417	04:03	403	18:22	0.0	0.0	0.0	0.0
Nalagarh	400	422	04:03	404	18:24	0.0	0.0	1.4	0.0
Kishenpur	400	423	03:57	403	18:31	0.0	0.0	5.7	0.0
Wagoora	400	422	03:27	394	19:37	0.0	0.0	4.2	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	756	00:19	741	10:21	0.0	1.9	0.0	0.0
Balia	765	764	08:02	728	15:18	0.0	44.2	0.0	0.0
Moga	765	785	04:02	754	18:24	0.0	0.0	0.0	0.0
Agra	765	803	04:02	769	18:24	0.0	0.0	0.6	0.0
Bhiwani	765	798	04:03	766	18:24	0.0	0.0	0.0	0.0
Unnao	765	769	08:01	739	15:18	0.0	2.2	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	510.76	1590.18	504.23	1272.20	446.24	446.24
Pong	426.72	384.05	422.18	990.81	421.95	975.89	359.09	300.10
Tehri	829.79	740.04	824.85	1095.00	818.65	982.26	140.26	175.00
Koteshwar	612.50	598.50	610.65	4.80	609.05	NA	175.00	169.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	136.48	115.37
Rihand	268.22	252.98	261.12	367.60	264.11	552.20	NA	NA
RPS	352.80	343.81	352.78	NA	NA	NA	NA	354.58
Jawahar Sagar	298.70	295.78	298.16	NA	NA	NA	NA	11.95
RSD	527.91	487.91	518.71	144.00	520.66	144.00	129.83	161.86

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 09.10.2013 :

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 :
1. 400 KV Bikaner-Deedwana line charged first time at 17.47hrs.

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 : 09.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER