

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.10.2013
Date of Reporting : 16.10.2013

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
33737	4182	37919	0.00	28263	1510	29773	50.17	716.7	64.94

* 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	30.86	9.76		40.62	65.83	66.75	0.92	107.37	0.00
Haryana	49.17	0.60		49.77	49.77	56.21	0.53	106.51	4.23
Rajasthan	57.71	5.94	3.85	67.50	77.21	75.97	-1.24	143.47	0.00
Delhi	18.49			18.49	60.25	63.03	2.79	81.52	0.09
UP	105.24	3.99	1.70	110.93	76.66	79.61	2.95	190.54	55.23
Uttarakhand		13.65		13.65	13.20	15.47	2.27	29.12	2.40
HP		11.83		11.83	7.80	10.56	2.77	22.40	1.30
J & K		12.51	0.00	12.51	17.68	19.15	1.47	31.66	1.70
Chandigarh				0.00	3.64	4.15	0.51	4.15	0.00
Total	261.47	58.28	5.55	325.29	378.48	391.44	12.96	716.74	64.94

* 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	4867	0	-192	634	4116	0	-8	618	16.64	
Haryana	5360	1067	385	-401	4294	0	-94	-424	-13.04	
Rajasthan	6532	0	-3	1419	5845	0	-38	1435	34.14	
Delhi	3873	30	70	-235	2924	0	124	-546	-7.89	
UP	8734	2870	-116	709	8032	1510	313	861	6.01	
Uttarakhand	1379	115	77	237	1134	0	127	209	4.82	
HP	1140	0	-8	-552	792	0	179	-157	-6.27	
J&K	1649	100	-168	265	1000	0	66	-223	0.69	
Chandigarh	204	0	8	-46	127	0	4	0	-0.16	
Total	33737	4182	53	2032	28263	1510	672	1774	34.94	

* 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	1873	1994	2057	45.38	1891	44.94	0.43	
	Rihand I STPS	1000	584	664	575	13.18	549	14.02	-0.84	
	Rihand II STPS	1000	611	681	625	14.30	596	14.67	-0.37	
	Rihand III STPS	1000	306	352	309	7.33	306	7.35	-0.02	
	Dadri I STPS	840	810	860	642	17.14	714	18.19	-1.05	
	Dadri II STPS	980	975	1000	929	22.50	937	22.60	-0.10	
	Unchahar I TPS	420	201	205	215	5.15	214	4.77	0.38	
	Unchahar II TPS	420	401	440	424	10.22	426	9.49	0.73	
	Unchahar III TPS	210	201	219	195	5.09	212	4.67	0.42	
	ISTPP (Jhajjar)	1500	1480	872	632	16.67	695	17.02	-0.35	
	Dadri GPS	830	797	190	192	4.04	168	4.80	-0.76	
	Anta GPS	419	401	0	0	0.00	0	0.08	-0.08	
	Auraiya GPS	663	630	155	157	3.59	150	3.62	-0.03	
	Sub Total (A)	11282	9269	7632	6952	164.58	6858	166.22	-1.64	
	B. NPC	NAPS	440	125	152	156	3.11	130	3.00	0.11
		RAPS- B	440	405	449	454	9.75	406	9.72	0.03
RAPS- C		440	410	469	472	9.97	415	9.84	0.13	
Sub Total (B)		1320	940	1070	1082	22.83	951	22.56	0.27	
C. NHPC	Chamera I HPS	540	539	540	0	4.12	172	4.02	0.10	
	Chamera II HPS	300	300	280	0	2.83	118	2.78	0.05	
	Chamera III HPS	231	231	154	0	1.66	69	1.63	0.03	
	Bairasuil HPS	180	122	120	0	0.98	41	0.97	0.00	
	Salal-HPS	690	319	337	265	7.84	327	7.55	0.28	
	Tanakpur-HPS	94	77	82	61	1.58	66	1.84	-0.26	
	Uri-HPS	480	153	240	119	3.85	160	3.40	0.45	
	Uri-II HPS	240	87	122	61	2.30	96	2.07	0.24	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	406	398	9.29	387	9.29	0.01	
	Sewa-II HPS	120	119	82	0	0.77	32	0.70	0.07	
	Sub Total (C)	3545	2334	2363	904	35.21	1467	34.25	0.96	
	D. NJPC	Nathpa Jhakri	1500	1605	1514	258	16.41	684	16.44	-0.03
Sub Total (D)		1500	1605	1514	258	16.41	684	16.44	-0.03	
E. THDC	Tehri HPS	1000	1060	938	0	8.19	341	8.00	0.18	
	Koteswar HPS	400	125	201	0	2.73	114	2.70	0.03	
	Sub Total (E)	1400	1185	1139	0	10.91	455	10.70	0.21	
F. BBMB	Bhakra HPS	1497	452	1043	387	11.16	465	10.86	0.31	
	Dehar HPS	990	298	660	280	6.99	291	7.16	-0.17	
	Pong HPS	396	244	312	192	6.10	254	5.87	0.23	
	Sub Total (F)	2883	995	2015	859	24.25	1010	23.88	0.37	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	100	27	1.00	42	0.96	0.03	
	KWHEP HPS(IPP)	1000	0	800	225	8.63	360	9.13	-0.50	
	Malana Stg-II HPS	100	0	90	0	0.50	21	0.53	-0.03	
	Shree Cement TPS	300	0	272	159	5.17	215	4.88	0.29	
	Budhil HPS(IPP)	70	0	34	9	0.36	15	0.38	-0.02	
	Sub Total (G)	1662	0	1296	420	15.65	652	15.89	-0.23	
H. Total Regional Entities (A-G)	23592	16328	17029	10475	289.84	12077	289.93	-0.09		

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	700	700	16.88	703
	Guru Nanak Dev TPS(Bhatinda)	440	190	200	3.97	165
	Guru Hargobind Singh TPS(L.mbt)	920	374	362	10.02	417
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1264	1262	30.86	1286
	Total Hydro	1148	245	418	9.76	407
Total Punjab	3768	1509	1680	40.62	1693	
Haryana	Panipat TPS	1367	501	491	12.62	526
	DCRTPP (Yamuna nagar)	600	560	500	12.52	522
	Faridabad GPS (NTPC)	432	195	162	4.16	173
	RGTPP (khedar) (IPP)	1200	0	472	7.28	303
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	569	529	12.59	524
	Thermal (Total)	4944	1825	2154	49.17	2049
	Total Hydro	62	29	23	0.60	25
	Total Haryana	5006	1854	2177	49.77	2074
	Rajasthan	kota TPS	1240	762	749	18.06
suratgarh TPS		1500	749	645	16.12	672
Chabra TPS		500	0	0	0.00	0
Dholpur GPS		330	91	98	2.25	94
Ramgarh GPS		111	61	64	1.70	71
RAPS A (NPC)		300	179	179	4.30	179
Barsingsar (NLC)		250	112	110	2.68	112
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	608	491	12.60	525
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	2562	2336	57.71	2405
Total Hydro		550	268	306	5.94	248
Wind power		2191	120	103	2.78	116
Biomass		91	25	25	0.61	25
Solar		201	0	0	0.46	19
Renewable/Others (Total)		2483	145	128	3.85	160
Total Rajasthan		9989	2975	2770	67.50	2813
UP		Anpara TPS	1630	1292	1326	28.00
	Obra TPS	1288	422	379	8.20	342
	Paricha TPS	1140	701	684	15.10	629
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	233	232	4.90	204
	Tanda TPS (NTPC)	440	292	295	7.18	299
	Roza TPS (IPP)	1200	1094	792	22.58	941
	Anpara-C (IPP)	1200	1024	514	16.43	685
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	351	0	2.85	119
	Thermal (Total)	8223	5409	4222	105.24	4385
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	146	143	3.99	166
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5625	4435	110.93	4622
	Uttarakhand	Total Hydro	1303	566	538	13.65
Total Uttarakhand		1303	566	538	13.65	569
Delhi	Raighat TPS	135	52	42	1.38	58
	Delhi Gas Turbine	282	80	102	1.98	82
	Pragati Gas Turbine	330	148	264	5.38	224
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	485	405	9.75	406
	Thermal (Total)	2232	765	813	18.49	770
Total Delhi	2232	765	813	18.49	770	
HP	Baspa HPS (IPP)	330	184	0	2.78	116
	Malana HPS (IPP)	86	81	0	0.53	22
	Other Hydro	589	360	340	8.52	355
	Total HP	1005	625	340	11.83	493
J & K	Baglihar HPS (IPP)	450	436	438	9.37	390
	Other Hydro	323	128	132	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	564	570	12.51	521
Total State Control Area Generation		34390	14483	13323	325.29	13554
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3125	4502	100.37	4182
Total Regional Availability(Gross)		57982	34637	28300	715.50	29813

IV. Total Hydro Generation:

Regional Entities Hydro	10620	8021	2273	96.91	4038
State Control Area Hydro	5368	2443	2338	58.28	2428
Total Regional Hydro	15988	10464	4611	155.19	6466

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	-100	-100	400	100	0.50	2.24	-1.74
Gwalior-Agra (D/C)	524	1078	1438	0	24.43	0.00	24.43
Zerda-Kankroli	-87	20	85	137	0.00	0.91	-0.91
Zerda-Bhinmal	-60	63	168	146	0.94	0.00	0.94
Malanpur-Auraiya	-121	-82	0	127	0.00	1.79	-1.79
Badod-Kota/Morak	16	93	115	0	1.84	0.00	1.84
Mundra-Mohindergarh(HVDC)	1500	1200	1504	0	27.82	0.00	27.82
Sub Total WR	1672	2272			55.53	4.94	50.59
Pusaui Bypass	100	100	100	0	2.45	0.00	2.45
MZP- GKP (D/C)	534	1016	1056	0	21.54	0.00	21.54
Patna-Balia(D/C)	285	407	471	0	8.66	0.00	8.66
B'Sharif-Balia (D/C)	353	333	421	0	8.48	0.00	8.48
Pusaui-Balia	-22	-4	25	31	0.00	0.05	-0.05
Gaya-Fatehpur (765 Kv)	114	337	371	0	7.21	0.00	7.21
Pusaui-Sahupuri	123	76	123	0	2.25	0.00	2.25
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-34	-35	0	36	0.00	0.75	-0.75
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	1453	2230			50.58	0.80	49.78
Total IR Exch	3125	4502			106.11	5.74	100.37

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
29.96	2.25	32.21	6.25	-2.33	8.78	8.48	1.11	-1.11

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
48.34	54.22	102.56	49.78	50.59	100.37	1.44	-3.63	-2.19

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	0.40	2.80	97.20	10.60	94.40	39.70	2.80

<----- 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				
50.36	12.07	49.52	19.40	49.96	0.19	0.13	50.26	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	07:28	411	17:12	0.0	0.0	0.0	0.0
Gorakhpur	400	420	00:00	420	00:00	0.0	0.0	0.0	0.0
Barilly	400	425	08:03	406	16:55	0.0	0.0	2.2	0.0
Kanpur	400	422	08:02	407	16:56	0.0	0.0	2.8	0.0
Dadri	400	426	04:04	411	11:07	0.0	0.0	28.0	0.0
Ballabgarh	400	430	04:01	413	12:19	0.0	0.0	39.7	0.0
Bawana	400	429	04:02	411	12:20	0.0	0.0	56.6	0.0
Bassi	400	430	04:02	412	05:48	0.0	0.0	40.4	0.0
Hissar	400	422	04:04	404	12:22	0.0	0.0	1.3	0.0
Moga	400	424	04:04	405	12:19	0.0	0.0	7.1	0.0
Abdullapur	400	427	04:02	407	18:40	0.0	0.0	19.3	0.0
Nalagarh	400	427	01:26	407	12:15	0.0	0.0	39.8	0.0
Kishenpur	400	427	02:10	405	20:13	0.0	0.0	19.1	0.0
Wagoora	400	428	02:19	383	18:39	0.0	13.0	16.0	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	760	11:56	744	10:12	0.0	0.0	0.0	0.0
Balia	765	770	08:03	737	17:59	0.0	1.9	0.0	0.0
Moga	765	801	04:04	765	12:42	0.0	0.0	0.1	0.0
Agra	765	808	04:05	771	16:56	0.0	0.0	4.6	0.0
Bhiwani	765	808	04:24	779	12:47	0.0	0.0	30.7	0.0
Unnao	765	767	08:04	743	16:57	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	510.99	1590.18	503.72	1258.87	356.00	284.39
Pong	426.72	384.05	421.94	975.89	421.53	961.02	89.00	341.53
Tehri	829.79	740.04	824.70	1100.00	818.65	982.26	122.97	177.00
Koteshwar	612.50	598.50	610.40	4.75	608.70	3.98	177.00	181.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	102.67	111.67
Rihand	268.22	252.98	261.52	390.50	263.65	540.00	NA	NA
RPS	352.80	343.81	352.73	NA	NA	NA	NA	262.04
Jawahar Sagar	298.70	295.78	297.91	NA	NA	NA	NA	312.84
RSD	527.91	487.91	518.65	144.00	520.58	144.00	127.03	128.70

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 15.10.2013 :

1. Rains in East UP , Rest is normal.

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 Mar, 2014 .

Report for : 15.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER