

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.10.2013
Date of Reporting : 18.10.2013

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
35528	2335	37863	50.30	29886	600	30486	50.27	750.9	36.57

* 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	35.92	9.56		45.48	66.49	68.14	1.65	113.62	0.00
Haryana	49.26	0.70		49.96	59.01	58.05	-0.96	108.01	0.02
Rajasthan	66.90	4.04	8.46	79.40	73.64	68.94	-4.70	148.34	0.00
Delhi	19.02			19.02	58.61	59.45	0.84	78.47	0.09
UP	121.29	3.53	1.70	126.52	85.94	81.89	-4.04	208.42	34.34
Uttarakhand		14.46		14.46	16.46	17.48	1.02	31.93	0.32
HP		10.96		10.96	10.78	13.16	2.38	24.12	0.10
J & K		12.51	0.00	12.51	23.71	21.49	-2.22	34.00	1.70
Chandigarh				0.00	3.89	4.01	0.12	4.01	0.00
Total	292.39	55.76	10.16	358.31	398.52	392.61	-5.91	750.92	36.57

* 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	5200	0	197	288	4503	0	111	373	13.52
Haryana	5892	0	-134	-393	4470	0	-46	-406	-9.68
Rajasthan	6900	0	-32	1310	5963	0	-143	1383	32.61
Delhi	3778	0	-119	-164	2569	0	-114	-713	-9.48
UP	9136	2200	-199	507	9166	600	56	1156	11.00
Uttarakhand	1558	35	118	239	1128	0	4	342	7.72
HP	1107	0	-238	-481	813	0	209	-9	-2.61
J&K	1755	100	-101	290	1151	0	-259	301	7.15
Chandigarh	202	0	-4	-25	123	0	2	0	0.07
Total	35528	2335	-511	1570	29886	600	-180	2428	50.29

* 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	1918	2077	1993	45.81	1909	46.03	-0.22	
	Rihand I STPS	1000	490	579	405	10.92	455	11.46	-0.54	
	Rihand II STPS	1000	919	991	867	21.24	885	21.19	0.05	
	Rihand III STPS	1000	476	486	420	10.93	455	11.05	-0.12	
	Dadri I STPS	840	810	855	629	17.82	742	18.41	-0.60	
	Dadri II STPS	980	975	1012	977	21.97	915	22.19	-0.22	
	Unchahar I TPS	420	201	209	211	4.54	189	4.57	-0.03	
	Unchahar II TPS	420	403	401	429	8.53	356	8.63	-0.09	
	Unchahar III TPS	210	201	200	215	4.01	167	4.38	-0.37	
	ISTPP (Jhajjar)	1500	1480	1001	674	13.99	583	15.91	-1.92	
	Dadri GPS	830	805	394	399	9.19	383	9.66	-0.47	
	Anta GPS	419	401	0	0	0.00	0	0.00	0.00	
	Auraiya GPS	663	636	155	161	3.81	159	3.70	0.11	
	Sub Total (A)	11282	9714	8360	7380	172.76	7198	177.18	-4.42	
	B. NPC	NAPS	440	130	156	155	3.13	131	3.12	0.01
		RAPS- B	440	405	453	458	9.80	408	9.72	0.08
RAPS- C		440	410	470	474	10.00	417	9.84	0.16	
Sub Total (B)		1320	945	1079	1087	22.93	956	22.68	0.25	
C. NHPC	Chamera I HPS	540	539	540	0	3.57	149	3.60	-0.03	
	Chamera II HPS	300	300	228	0	2.24	93	2.29	-0.05	
	Chamera III HPS	231	231	133	0	1.49	62	1.62	-0.13	
	Bairasuil HPS	180	122	120	0	0.87	36	0.91	-0.04	
	Salal-HPS	690	338	410	319	8.10	338	8.12	-0.01	
	Tanakpur-HPS	94	76	66	75	1.79	75	1.83	-0.04	
	Uri-HPS	480	154	239	119	4.01	167	3.78	0.23	
	Uri-II HPS	120	85	121	90	2.35	98	2.01	0.34	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	406	421	6.68	279	6.95	-0.27	
	Sewa-II HPS	120	119	70	0	0.36	15	0.37	-0.01	
	Sub Total (C)	3425	2352	2333	1024	31.46	1311	31.47	-0.01	
D. NJPC	Nathpa Jhakri	1500	1605	1616	167	14.59	608	14.61	-0.02	
	Sub Total (D)	1500	1605	1616	167	14.59	608	14.61	-0.02	
E. THDC	Tehri HPS	1000	1060	1068	0	8.16	340	8.00	0.16	
	Koteswar HPS	400	125	200	0	2.69	112	2.70	-0.01	
	Sub Total (E)	1400	1185	1268	0	10.85	452	10.70	0.15	
F. BBMB	Bhakra HPS	1497	415	778	387	10.10	421	9.97	0.13	
	Dehar HPS	990	268	660	155	6.55	273	6.44	0.11	
	Pong HPS	396	231	372	186	5.82	243	5.55	0.27	
	Sub Total (F)	2883	915	1810	728	22.47	936	21.96	0.51	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	82	26	0.91	38	0.87	0.04	
	KWHEP HPS(IPP)	1000	0	779	143	7.83	326	8.01	-0.18	
	Malana Stg-II HPS	100	0	99	0	0.47	20	0.44	0.03	
	Shree Cement TPS	300	0	270	205	5.08	212	4.90	0.18	
	Budhil HPS(IPP)	70	0	30	10	0.33	14	0.35	-0.02	
	Sub Total (G)	1662	0	1260	384	14.62	609	14.57	0.05	
H. Total Regional Entities (A-G)	23472	16716	17726	10770	289.69	12070	293.17	-3.48		

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	740	840	21.37	891
	Guru Nanak Dev TPS(Bhatinda)	440	195	232	4.58	191
	Guru Hargobind Singh TPS(L.mbt)	920	425	506	9.97	416
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1360	1578	35.92	1497
	Total Hydro	1148	402	593	9.56	398
	Total Punjab	3768	1762	2171	45.48	1895
Haryana	Panipat TPS	1367	898	863	21.07	878
	DCRTPP (Yamuna nagar)	600	573	516	12.48	520
	Faridabad GPS (NTPC)	432	186	186	4.20	175
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	550	532	11.51	480
	Thermal (Total)	4944	2207	2097	49.26	2053
	Total Hydro	62	29	29	0.70	29
	Total Haryana	5006	2236	2126	49.96	2082
	Rajasthan	kota TPS	1240	758	572	17.98
suratgarh TPS		1500	657	891	18.03	751
Chabra TPS		500	424	363	9.11	380
Dholpur GPS		330	106	88	2.49	104
Ramgarh GPS		111	54	75	1.09	46
RAPS A (NPC)		300	179	179	4.00	167
Barsingsar (NLC)		250	111	111	2.59	108
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	621	380	11.62	484
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	2910	2659	66.90	2787
Total Hydro		550	282	133	4.04	168
Wind power		2191	242	724	7.42	309
Biomass		91	25	25	0.60	25
Solar		201	0	0	0.44	18
Renewable/Others (Total)		2483	267	749	8.46	352
Total Rajasthan		9989	3459	3541	79.40	3308
UP		Anpara TPS	1630	1386	1137	29.90
	Obra TPS	1288	419	341	9.00	375
	Paricha TPS	1140	665	573	14.90	621
	Panki TPS	210	0	0	0.10	4
	Harduaganj TPS	665	256	225	5.90	246
	Tanda TPS (NTPC)	440	294	295	7.32	305
	Roza TPS (IPP)	1200	855	1071	24.16	1006
	Anpara-C (IPP)	1200	1035	907	22.55	939
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	288	278	7.47	311
	Thermal (Total)	8223	5198	4827	121.29	5054
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	204	111	3.53	147
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5472	5008	126.52	5272
	Uttarakhand	Total Hydro	1303	671	650	14.46
Total Uttarakhand		1303	671	650	14.46	602
Delhi	Rajghat TPS	135	54	54	1.21	50
	Delhi Gas Turbine	282	113	115	2.66	111
	Pragati Gas Turbine	330	147	151	3.29	137
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	555	565	11.86	494
	Thermal (Total)	2232	869	885	19.02	793
	Total Delhi	2232	869	885	19.02	793
HP	Baspa HPS (IPP)	330	370	0	2.42	101
	Malana HPS (IPP)	86	85	0	0.46	19
	Other Hydro	589	321	342	8.07	336
	Total HP	1005	776	342	10.96	457
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	15809	15293	358.31	14930
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3257	5409	112.69	4695
Total Regional Availability(Gross)		57862	36792	31472	760.68	31695

IV. Total Hydro Generation:

Regional Entities Hydro	10500	7987	2088	88.59	3691
State Control Area Hydro	5368	2928	2428	55.76	2323
Total Regional Hydro	15868	10915	4516	144.35	6014

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	-200	150	150	400	1.86	2.94	-1.08
Gwalior-Agra (D/C)	706	1508	1542	0	29.37	0.00	29.37
Zerda-Kankroli	-48	6	45	74	0.00	0.61	-0.61
Zerda-Bhinmal	-23	36	101	69	0.39	0.00	0.39
Malanpur-Auraiya	-100	-74	0	100	0.00	1.52	-1.52
Badod-Kota/Morak	9	93	104	21	0.92	0.00	0.92
Mundra-Mohindergarh(HVDC)	1502	1499	1504	0	36.26	0.00	36.26
Sub Total WR	1846	3218			68.80	5.07	63.73
Pusauli Bypass	-200	100	100	200	1.16	2.33	-1.18
MZP- GKP (D/C)	516	815	1002	0	18.72	0.00	18.72
Patna-Balia(D/C)	418	508	637	0	10.86	0.00	10.86
B'Sharif-Balia (D/C)	403	412	637	0	10.86	0.00	10.86
Pusauli-Balia	79	37	168	0	1.72	0.00	1.72
Gaya-Fatehpur (765 Kv)	120	273	396	0	6.50	0.00	6.50
Pusauli-Sahupuri	109	81	153	0	2.22	0.00	2.22
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	1411	2191			52.04	3.08	48.95
Total IR Exch	3257	5409			120.84	8.15	112.69

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
28.95	3.69	32.64	3.21	-1.27	16.02	19.93	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
52.42	67.15	119.57	48.95	63.73	112.69	-3.47	-3.42	-6.89

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	0.03	1.45	86.39	2.10	84.97	82.70	13.58

<----- 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)
50.47	21.52	49.49	18.23	50.14	0.40	0.12	50.40	49.67

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	414	00:20	407	14:23	0.0	0.0	0.0	0.0
Gorakhpur	400	424	13:07	409	18:21	0.0	0.0	3.3	0.0
Bareilly	400	418	04:33	402	18:29	0.0	0.0	0.0	0.0
Kanpur	400	419	04:09	402	18:21	0.0	0.0	0.0	0.0
Dadri	400	424	04:33	403	18:23	0.0	0.0	13.1	0.0
Ballabgarh	400	425	01:52	409	18:20	0.0	0.0	12.9	0.0
Bawana	400	426	04:04	409	09:52	0.0	0.0	41.8	0.0
Bassi	400	432	03:25	406	18:23	0.0	0.0	53.2	1.2
Hissar	400	413	13:04	399	18:23	0.0	0.0	0.0	0.0
Moga	400	421	04:02	399	18:23	0.0	0.0	1.7	0.0
Abdullapur	400	423	03:10	402	18:21	0.0	0.0	6.0	0.0
Nalagarh	400	427	00:39	407	18:20	0.0	0.0	37.0	0.0
Kishenpur	400	427	03:05	400	18:19	0.0	0.0	35.0	0.0
Wagoora	400	426	03:46	385	18:49	0.0	4.3	14.2	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	765	13:06	731	18:29	0.0	10.3	0.0	0.0
Balia	765	754	04:32	730	18:29	0.0	20.1	0.0	0.0
Moga	765	798	04:32	755	18:23	0.0	0.0	0.0	0.0
Agra	765	803	04:34	767	18:29	0.0	0.0	0.6	0.0
Bhiwani	765	800	13:05	769	18:23	0.0	0.0	0.0	0.0
Unnao	765	761	13:05	734	08:53	0.0	19.0	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	511.06	1605.30	503.80	1258.87	326.49	254.85
Pong	426.72	384.05	421.77	975.89	421.35	646.20	89.37	325.25
Tehri	829.79	740.04	824.60	1100.00	818.65	982.26	108.49	177.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	88.90	96.82
Rihand	268.22	252.98	261.70	401.00	263.87	536.00	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	518.62	144.00	520.58	144.00	114.40	142.55

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 17.10.2013 :

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 Mar, 2014 .