

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.10.2013

Date of Reporting : 17.10.2013

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
35201	2792	37993	50.21	29792	900	30692	50.25	756.6	33.60

* 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:

UI (OD:(+ve), UD: (-ve))

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	33.60	10.33		43.92	66.27	68.14	1.87	112.06	0.00
Haryana	50.85	0.69		51.55	57.53	63.76	6.22	115.30	1.11
Rajasthan	66.75	1.82	8.68	77.24	76.45	73.83	-2.63	151.07	0.00
Delhi	17.53			17.53	53.99	58.25	4.26	75.78	0.09
UP	121.24	3.29	1.70	126.23	91.13	85.39	-5.74	211.62	26.24
Uttarakhand		13.48		13.48	12.71	13.90	1.19	27.38	4.46
HP		11.51		11.51	9.58	12.82	3.25	24.33	0.00
J & K		12.51	0.00	12.51	20.79	22.61	1.82	35.12	1.70
Chandigarh				0.00	3.65	3.96	0.31	3.96	0.00
Total	289.97	53.62	10.38	353.97	392.10	402.65	10.55	756.61	33.60

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX (OD/Import: (+ve), UD/Export: (-ve))

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	5200	0	-77	362	4503	0	97	401	14.52	
Haryana	5826	437	379	-383	4406	0	37	-407	-12.32	
Rajasthan	6933	0	-280	1498	6059	0	-214	1437	34.29	
Delhi	3741	0	84	-322	2740	0	118	-674	-11.61	
UP	8952	2100	-99	1442	8861	750	-198	1464	22.62	
Uttarakhand	1374	155	6	231	1044	150	70	177	4.50	
HP	1181	0	40	-480	821	0	206	-59	-3.74	
J&K	1785	100	-34	117	1238	0	203	-69	2.65	
Chandigarh	210	0	8	-46	121	0	8	0	-0.09	
Total	35201	2792	27	2420	29792	900	327	2270	50.82	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI (OG:(+ve), UG: (-ve))

A. NTPC	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
		Singrauli STPS	2000	1859	1997	1998	44.96	1873	44.61
	Rihand I STPS	1000	350	440	320	8.02	334	8.40	-0.38
	Rihand II STPS	1000	702	890	696	16.73	697	16.93	-0.20
	Rihand III STPS	1000	402	469	353	9.50	396	9.57	-0.07
	Dadri I STPS	840	810	840	688	18.10	754	18.43	-0.33
	Dadri II STPS	980	975	962	953	22.31	930	22.60	-0.28
	Unchahar I TPS	420	201	198	215	4.58	191	4.62	-0.04
	Unchahar II TPS	420	403	373	429	9.01	375	9.09	-0.08
	Unchahar III TPS	210	201	177	212	4.52	188	4.54	-0.02
	ISTPP (Jhajjar)	1500	1480	967	640	16.80	700	17.00	-0.20
	Dadri GPS	830	805	391	193	7.77	324	8.32	-0.56
	Anta GPS	419	401	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	633	157	158	3.84	160	3.79	0.05
	Sub Total (A)	11282	9221	7861	6855	166.13	6922	167.90	-1.77
B. NPC	NAPS	440	150	155	152	3.10	129	3.60	-0.51
	RAPS- B	440	405	454	455	9.82	409	9.72	0.10
	RAPS- C	440	410	470	470	10.02	417	9.84	0.18
	Sub Total (B)	1320	965	1079	1077	22.93	956	23.16	-0.23
C. NHPC	Chamera I HPS	540	539	540	0	3.74	156	3.70	0.04
	Chamera II HPS	300	300	154	0	1.97	82	2.02	-0.05
	Chamera III HPS	231	231	133	0	1.49	62	1.47	0.02
	Bairasuil HPS	180	122	20	0	0.94	39	0.91	0.04
	Salal-HPS	690	333	415	265	8.16	340	8.00	0.16
	Tanakpur-HPS	94	76	69	76	1.87	78	1.83	0.04
	Uri-HPS	480	158	240	117	3.98	166	3.46	0.52
	Uri-II HPS	240	84	125	72	2.21	92	2.01	0.20
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	313	404	283	7.10	296	7.32	-0.23
	Sewa-II HPS	120	119	75	0	0.70	29	0.69	0.02
	Sub Total (C)	3545	2275	2175	813	32.17	1340	31.40	0.77
D. NJPC	Nathpa Jhakri	1500	1605	1398	252	14.83	618	15.04	-0.20
	Sub Total (D)	1500	1605	1398	252	14.83	618	15.04	-0.20
E. THDC	Tehri HPS	1000	1060	1007	0	8.20	341	8.00	0.20
	Koteswar HPS	400	125	200	0	2.79	116	2.70	0.09
	Sub Total (E)	1400	1185	1207	0	10.99	458	10.70	0.29
F. BBMB	Bhakra HPS	1497	433	880	387	10.58	441	10.40	0.18
	Dehar HPS	990	287	660	150	6.98	291	6.88	0.10
	Pong HPS	396	235	312	186	5.93	247	5.63	0.30
	Sub Total (F)	2883	955	1852	723	23.49	979	22.91	0.58
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	90	27	0.94	39	0.91	0.03
	KWHEP HPS(IPP)	1000	0	896	180	8.19	341	8.40	-0.22
	Malana Stg-II HPS	100	0	99	0	0.50	21	0.49	0.02
	Shree Cement TPS	300	0	272	159	5.17	215	5.50	-0.33
	Budhil HPS(IPP)	70	0	30	10	0.33	14	0.35	-0.02
	Sub Total (G)	1662	0	1387	376	15.12	630	15.65	-0.53
H. Total Regional Entities (A-G)		23592	16206	16959	10096	285.67	11903	286.76	-1.09

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	740	840	18.13	755
	Guru Nanak Dev TPS(Bhatinda)	440	195	232	4.79	200
	Guru Hargobind Singh TPS(L.mbt)	920	425	506	10.68	445
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1360	1578	33.60	1400
	Total Hydro	1148	402	593	10.33	430
Total Punjab		3768	1762	2171	43.92	1830
Haryana	Panipat TPS	1367	880	834	21.17	882
	DCRTPP (Yamuna nagar)	600	558	505	12.76	532
	Faridabad GPS (NTPC)	432	180	164	4.40	183
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	857	489	12.53	522
	Thermal (Total)	4944	2475	1992	50.85	2119
	Total Hydro	62	29	30	0.69	29
	Total Haryana	5006	2504	2022	51.55	2148
	Rajasthan	kota TPS	1240	760	722	18.33
suratgarh TPS		1500	872	774	19.78	824
Chabra TPS		500	218	148	4.37	182
Dholpur GPS		330	90	94	2.47	103
Ramgarh GPS		111	126	134	1.95	81
RAPS A (NPC)		300	179	179	4.01	167
Barsingsar (NLC)		250	78	112	2.54	106
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	630	493	13.30	554
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	2953	2656	66.75	2781
Total Hydro		550	67	49	1.82	76
Wind power		2191	435	504	6.44	268
Biomass		91	25	25	0.61	25
Solar		201	0	0	1.62	68
Renewable/Others (Total)		2483	460	529	8.68	362
Total Rajasthan		9989	3480	3234	77.24	3218
UP		Anpara TPS	1630	1203	1139	30.50
	Obra TPS	1288	365	353	8.80	367
	Paricha TPS	1140	627	616	14.40	600
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	223	218	5.40	225
	Tanda TPS (NTPC)	440	285	296	7.27	303
	Roza TPS (IPP)	1200	846	1071	23.01	959
	Anpara-C (IPP)	1200	903	946	24.66	1028
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	275	281	7.20	300
	Thermal (Total)	8223	4727	4920	121.24	5052
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	131	134	3.29	137
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	4928	5124	126.23	5260
	Uttarakhand	Total Hydro	1303	620	547	13.48
Total Uttarakhand		1303	620	547	13.48	562
Delhi	Rajghat TPS	135	54	54	1.23	51
	Delhi Gas Turbine	282	113	80	2.16	90
	Pragati Gas Turbine	330	144	150	3.47	145
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	520	485	10.67	445
	Thermal (Total)	2232	831	769	17.53	730
Total Delhi	2232	831	769	17.53	730	
HP	Baspa HPS (IPP)	330	114	0	2.72	113
	Malana HPS (IPP)	86	84	0	0.53	22
	Other Hydro	589	343	337	8.26	344
	Total HP	1005	541	337	11.51	480
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	15230	14774	353.97	14749
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3676	5667	120.64	5027
Total Regional Availability(Gross)		57982	35865	30537	760.28	31678

IV. Total Hydro Generation:

Regional Entities Hydro	10620	7717	1995	91.11	3796
State Control Area Hydro	5368	2354	2260	53.62	2234
Total Regional Hydro	15988	10071	4255	144.73	6031

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	250	250	250	3.43	0.23	3.20
Gwalior-Agra (D/C)	696	1454	1582	0	27.63	0.00	27.63
Zerda-Kankroli	-28	27	108	93	0.39	0.00	0.39
Zerda-Bhinmal	-42	39	178	64	0.79	0.00	0.79
Malanpur-Auraiya	-124	-43	0	244	0.00	1.75	-1.75
Badod-Kota/Morak	48	133	162	0	2.22	0.00	2.22
Mundra-Mohindergarh(HVDC)	1502	1502	1504	0	36.26	0.00	36.26
Sub Total WR	2152	3362			70.73	1.98	68.74
Pusauli Bypass	100	100	100	0	2.45	0.00	2.45
MZP- GKP (D/C)	509	884	938	0	18.24	0.00	18.24
Patna-Balia(D/C)	366	443	543	0	10.92	0.00	10.92
B'Sharif-Balia (D/C)	343	429	547	0	10.40	0.00	10.40
Pusauli-Balia	14	32	102	0	0.93	0.00	0.93
Gaya-Fatehpur (765 Kv)	126	335	408	0	7.14	0.00	7.14
Pusauli-Sahupuri	100	117	153	0	2.57	0.00	2.57
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	1524	2305			52.65	0.75	51.90
Total IR Exch	3676	5667			123.38	2.73	120.64

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
28.93	1.78	30.71	4.44	-1.19	12.26	22.00	0.68	-0.68

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
48.08	70.88	118.97	51.90	68.74	120.64	3.82	-2.14	1.68

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	0.30	94.10	2.80	93.80	59.00	5.90

<----- 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				
50.33	23.53	49.65	5.44	50.02	0.14	0.12	50.38	49.87

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	00:15	407	18:25	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	418	17:33	393	18:31	0.0	0.0	0.0	0.0
Kanpur	400	419	04:01	407	12:06	0.0	0.0	0.0	0.0
Dadri	400	423	03:28	408	12:04	1.2	1.2	8.4	0.0
Ballabgarh	400	418	00:00	418	00:00	0.0	0.0	0.0	0.0
Bawana	400	422	23:51	409	12:09	0.0	0.0	3.7	0.0
Bassi	400	430	03:03	407	07:13	0.0	0.0	49.4	0.0
Hissar	400	409	00:00	409	00:00	0.0	0.0	0.0	0.0
Moga	400	423	04:00	403	08:36	0.0	0.0	9.8	0.0
Abdullapur	400	424	04:08	406	18:36	0.0	0.0	11.8	0.0
Nalagarh	400	430	02:13	407	08:42	0.0	0.0	35.4	0.0
Kishenpur	400	426	02:40	402	18:37	0.0	0.0	14.4	0.0
Wagoora	400	421	02:40	387	07:07	0.0	7.7	0.1	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	750	20:47	738	05:50	0.0	42.9	0.0	0.0
Balia	765	756	04:01	737	18:25	0.0	5.6	0.0	0.0
Moga	765	800	04:08	763	08:37	0.0	0.0	0.0	0.0
Agra	765	803	04:01	774	12:08	0.0	0.0	0.3	0.0
Bhiwani	765	810	04:01	779	12:06	0.0	0.0	31.3	0.0
Unnao	765	757	04:07	741	05:51	0.0	0.1	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	511.02	1605.30	503.77	1258.87	340.31	268.67
Pong	426.72	384.05	421.85	975.89	421.44	961.02	98.83	334.70
Tehri	829.79	740.04	824.65	1107.95	818.65	982.26	119.42	177.00
Koteshwar	612.50	598.50	610.25	4.68	608.70	3.98	177.00	186.00
Chamera-I	760.00	748.75	754.03	NA	NA	NA	88.01	101.21
Rihand	268.22	252.98	259.93	394.20	263.65	538.00	NA	NA
RPS	352.80	343.81	352.81	NA	NA	NA	NA	211.23
Jawahar Sagar	298.70	295.78	297.48	NA	NA	NA	NA	687.63
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 16.10.2013 :

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 .