

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.10.2013
Date of Reporting : 14.10.2013

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
31385	1530	32915	50.17	29510	585	30095	50.30	690.8	24.53

* 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	33.61	9.25		42.86	56.39	59.77	3.38	102.63	0.00
Haryana	39.87	0.49		40.35	55.90	55.24	-0.67	95.59	0.25
Rajasthan	52.64	7.38	3.75	63.77	75.40	70.74	-4.66	134.51	0.00
Delhi	17.13			17.13	50.71	49.38	-1.34	66.51	0.06
UP	113.29	2.80	1.70	117.79	91.30	89.96	-1.34	207.75	21.85
Uttarakhand		15.10		15.10	11.91	13.49	1.58	28.59	0.73
HP		12.84		12.84	6.12	7.86	1.73	20.69	0.04
J & K		13.60	0.00	13.60	17.78	17.41	-0.37	31.01	1.60
Chandigarh				0.00	3.88	3.52	-0.36	3.52	0.00
Total	256.53	61.44	5.45	323.42	369.39	367.36	-2.04	690.78	24.53

* 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	STOA/PX transaction	
Punjab	4608	0	-15	573	4315	0	74	616	14.16	
Haryana	4942	0	164	-511	3855	0	111	-497	-12.25	
Rajasthan	6256	0	-241	1388	5553	0	-94	1501	34.47	
Delhi	2977	0	-216	-521	2563	15	20	-398	-9.33	
UP	8463	1430	-362	749	10020	570	358	922	10.46	
Uttarakhand	1388	0	86	180	1130	0	152	200	4.56	
HP	999	0	-60	-752	814	0	305	-362	-9.85	
J&K	1570	100	-99	118	1130	0	120	-218	-1.31	
Chandigarh	182	0	-37	-40	131	0	-8	0	-0.12	
Total	31385	1530	-780	1183	29510	585	1038	1764	30.80	

* 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 (OG:(+ve), UG: (-ve))	
								Net MU	Net MU
A. NTPC									
Singrauli STPS	2000	1940	1814	1987	41.13	1714	41.53	-0.40	
Rihand I STPS	1000	920	809	756	16.34	681	17.08	-0.74	
Rihand II STPS	1000	480	380	384	8.74	364	8.99	-0.25	
Rihand III STPS	500	485	413	470	9.05	377	9.36	-0.31	
Dadri I STPS	840	810	471	450	10.11	421	10.32	-0.21	
Dadri II STPS	980	975	819	714	16.82	701	17.27	-0.45	
Unchahar I TPS	420	201	165	158	3.47	144	3.52	-0.05	
Unchahar II TPS	420	403	309	310	6.71	280	6.80	-0.08	
Unchahar III TPS	210	202	153	152	3.34	139	3.43	-0.09	
ISTPP (Jhajjar)	1500	1480	634	627	13.78	574	14.21	-0.43	
Dadri GPS	830	805	190	192	4.39	183	4.67	-0.28	
Anta GPS	419	401	0	0	0.00	0	0.00	0.00	
Auraiya GPS	663	625	155	155	3.56	148	3.81	-0.25	
Sub Total (A)	10782	9727	6312	6355	137.44	5726	140.98	-3.55	
B. NPC									
NAPS	440	245	152	335	5.00	209	6.06	-1.06	
RAPS- B	440	405	448	456	9.76	407	9.72	0.04	
RAPS- C	440	410	470	474	10.02	417	9.84	0.18	
Sub Total (B)	1320	1060	1070	1265	24.78	1033	25.62	-0.84	
C. NHPC									
Chamera I HPS	540	539	540	0	4.03	168	4.07	-0.04	
Chamera II HPS	300	300	290	0	2.85	119	3.58	-0.73	
Chamera III HPS	231	231	219	67	1.92	80	2.09	-0.17	
Bairasuil HPS	180	122	20	0	0.92	38	1.28	-0.36	
Salal-HPS	690	402	530	425	9.22	384	9.66	-0.44	
Tanakpur-HPS	94	72	70	68	1.63	68	1.72	-0.09	
Uri-HPS	480	148	239	26	3.19	133	3.51	-0.32	
Uri-II HPS	240		121	100	1.97	82		1.97	
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
Dulhasti-HPS	390	387	406	355	9.22	384	9.27	-0.04	
Sewa-II HPS	120	119	82	0	0.84	35	0.87	-0.03	
Sub Total (C)	3545	2320	2517	1041	35.79	1491	36.05	-0.26	
D. NJPC									
Nathpa Jhakri	1500	1605	1613	317	17.87	745	18.85	-0.98	
Sub Total (D)	1500	1605	1613	317	17.87	745	18.85	-0.98	
E. THDC									
Tehri HPS	1000	1060	1067	0	10.07	420	10.00	0.07	
Koteshwar HPS	400	175	388	99	3.21	134	3.20	0.01	
Sub Total (E)	1400	1235	1455	99	13.28	553	13.20	0.08	
F. BBMB									
Bhakra HPS	1497	520	1043	387	12.06	503	12.49	-0.43	
Dehar HPS	990	357	660	305	8.36	348	8.57	-0.21	
Pong HPS	396	209	312	126	5.07	211	5.00	0.07	
Sub Total (F)	2883	1086	2015	818	25.49	1062	26.06	-0.57	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	105	26	0.95	39	0.91	0.03	
KWHEP HPS(IPP)	1000	0	799	274	9.32	388	10.16	-0.84	
Malana Stg-II HPS	100	0	58	0	0.57	24	0.60	-0.02	
Shree Cement TPS	300	0	119	103	2.62	109	2.69	-0.07	
Budhil HPS(IPP)	70	0	30	10	0.47	19	0.83	-0.36	
Sub Total (G)	1662	0	1111	413	13.92	580	15.19	-1.26	
H. Total Regional Entities (A-G)	23092	17032	16093	10308	268.56	11190	275.95	-7.38	

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	950	860	19.69	821	
	Guru Nanak Dev TPS(Bhatinda)	440	223	185	4.27	178	
	Guru Hargobind Singh TPS(L.mbt)	920	442	535	9.64	402	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1615	1580	33.61	1400	
	Total Hydro	1148	394	376	9.25	385	
	Total Punjab	3768	2009	1956	42.86	1786	
Haryana	Panipat TPS	1367	65	80	1.59	66	
	DCRTPP (Yamuna nagar)	600	559	501	12.27	511	
	Faridabad GPS (NTPC)	432	162	162	3.96	165	
	RGTPP (khedar) (IPP)	1200	512	441	11.66	486	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	527	352	10.39	433	
	Thermal (Total)	4944	1825	1536	39.87	1661	
	Total Hydro	62	20	20	0.49	20	
	Total Haryana	5006	1845	1556	40.35	1681	
	Rajasthan	kota TPS	1240	705	688	17.06	711
		suratgarh TPS	1500	761	746	17.95	748
Chabra TPS		500	0	0	0.00	0	
Dholpur GPS		330	97	101	2.38	99	
Ramgarh GPS		111	79	122	2.42	101	
RAPS A (NPC)		300	179	179	4.01	167	
Barsingsar (NLC)		250	112	112	2.55	106	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	333	255	6.27	261	
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	2266	2203	52.64	2193	
Total Hydro		550	306	277	7.38	308	
Wind power		2191	34	22	1.51	63	
Biomass		91	17	17	0.42	17	
Solar		201	0	0	1.83	76	
Renewable/Others (Total)		2483	51	39	3.75	156	
Total Rajasthan		9989	2623	2519	63.77	2657	
UP		Anpara TPS	1630	1236	1166	28.90	1204
	Obra TPS	1288	407	435	9.80	408	
	Paricha TPS	1140	412	392	12.70	529	
	Panki TPS	210	0	0	0.00	0	
	Harduaganj TPS	665	275	418	6.60	275	
	Tanda TPS (NTPC)	440	253	296	7.02	292	
	Roza TPS (IPP)	1200	738	900	20.55	856	
	Anpara-C (IPP)	1200	788	936	20.66	861	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	276	278	7.07	294	
	Thermal (Total)	8223	4385	4821	113.29	4721	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	113	110	2.80	116	
	Cogeneration	981	70	70	1.70	71	
	Total UP	10131	4568	5001	117.79	4908	
	Uttarakhand	Total Hydro	1303	660	596	15.10	629
Total Uttarakhand		1303	660	596	15.10	629	
Delhi	Raighat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	81	81	1.83	76	
	Pragati Gas Turbine	330	265	263	6.38	266	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	415	420	8.93	372	
	Thermal (Total)	2232	761	764	17.13	714	
	Total Delhi	2232	761	764	17.13	714	
HP	Baspa HPS (IPP)	330	241	0	2.98	124	
	Malana HPS (IPP)	86	86	0	0.57	24	
	Other Hydro	589	377	405	9.29	387	
	Total HP	1005	704	405	12.84	535	
J & K	Baglihar HPS (IPP)	450	432	438	10.46	436	
	Other Hydro	323	128	132	3.14	131	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	560	570	13.60	566	
Total State Control Area Generation		34390	13730	13367	323.42	13476	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2738	6168	103.35	4306	
Total Regional Availability(Gross)		57482	32561	29843	695.33	28972	

IV. Total Hydro Generation:

Regional Entities Hydro	10620	8562	2575	103.26	4302
State Control Area Hydro	5368	2757	2354	61.44	2560
Total Regional Hydro	15988	11319	4929	164.70	6862

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	-450	250	250	450	1.84	4.42	-2.58
Gwalior-Agra (D/C)	603	1583	1712	0	20.44	0.00	20.44
Zerda-Kankroli	-58	15	36	205	0.00	2.19	-2.19
Zerda-Bhinmal	20	92	134	146	0.00	0.38	-0.38
Malanpur-Auraiya	-85	-43	0	139	0.00	2.10	-2.10
Badod-Kota/Morak	-47	128	143	31	1.14	0.00	1.14
Mundra-Mohindergarh(HVDC)	1250	1500	1504	0	34.26	0.00	34.26
Sub Total WR	1233	3525			57.68	9.09	48.59
Pusaui Bypass	100	100	100	0	2.46	0.00	2.46
MZP- GKP (D/C)	587	895	1071	0	19.56	0.00	19.56
Patna-Balia(D/C)	365	649	813	0	13.04	0.00	13.04
B'Sharif-Balia (D/C)	430	527	677	0	11.52	0.00	11.52
Pusaui-Balia	-19	63	64	77	1.42	0.00	1.42
Gaya-Fatehpur (765 Kv)	0	294	362	0	5.33	0.00	5.33
Pusaui-Sahupuri	76	150	155	0	2.18	0.00	2.18
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	1505	2643			55.51	0.75	54.76
Total IR Exch	2738	6168			113.19	9.84	103.35

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
34.52	1.75	36.27	7.89	-2.10	13.55	-1.74	0.61	-0.61

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
58.32	45.49	103.81	54.76	48.59	103.35	-3.56	3.10	-0.46

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	65.20	0.20	64.30	90.90	35.40

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.52	9.14	49.64	18.10	50.16	0.38	0.12	50.50	49.93

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	417	13:30	410	00:19	0.0	0.0	0.0	0.0
Gorakhpur	400	426	14:04	407	00:06	0.0	0.0	35.6	0.0
Barilly	400	422	08:02	408	18:31	0.0	0.0	0.7	0.0
Kanpur	400	423	14:03	412	18:28	0.0	0.0	16.3	0.0
Dadri	400	425	07:44	414	18:27	0.0	0.0	56.7	0.0
Ballabgarh	400	431	03:37	416	18:30	0.0	0.0	95.1	0.0
Bawana	400	428	03:37	414	18:27	0.0	0.0	75.9	0.0
Bassi	400	434	03:37	406	18:29	0.0	0.0	52.8	4.2
Hissar	400	421	03:25	414	00:04	0.0	0.0	1.3	0.0
Moga	400	424	04:03	407	18:28	0.0	0.0	15.7	0.0
Abdullapur	400	424	01:55	409	18:08	0.0	0.0	38.1	0.0
Nalagarh	400	429	02:21	411	18:35	0.0	0.0	75.2	0.0
Kishenpur	400	426	03:12	405	18:44	0.0	0.0	39.9	0.0
Wagoora	400	425	23:48	390	18:49	0.0	0.0	8.6	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	768	14:02	737	18:40	0.0	2.3	0.0	0.0
Balia	765	767	14:07	731	00:04	0.0	12.6	0.0	0.0
Moga	765	803	03:37	769	18:44	0.0	0.0	2.8	0.0
Agra	765	813	14:11	759	00:37	0.0	0.0	37.6	0.0
Bhiwani	765	813	03:37	783	18:31	0.0	0.0	72.4	0.0
Unnao	765	767	17:34	741	00:37	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	510.90	1590.18	503.81	1258.87	392.00	314.88
Pong	426.72	384.05	422.08	990.81	421.68	961.02	225.29	284.24
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	518.63	144.00	520.35	144.00	134.00	138.00

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 13.10.2013 :

1. 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 Dec, 2013 .

Report for : 13.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER