

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.09.2013
Date of Reporting : 13.09.2013

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
41656	3151	44806	49.96	40720	2495	43215	50.04	968.8	63.71

* 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	53.66	21.23		74.89	116.31	115.91	-0.40	190.80	0.00
Haryana	88.08	0.66		88.74	69.69	70.02	0.33	158.75	0.18
Rajasthan	103.77	1.35	6.42	111.54	82.33	79.88	-2.45	191.42	2.12
Delhi	26.26			26.26	77.09	75.16	-1.94	101.42	0.08
UP	117.66	4.26	1.00	122.92	115.54	115.22	-0.32	238.14	57.26
Uttarakhand		19.05		19.05	9.95	11.77	1.82	30.82	2.18
HP		22.26		22.26	2.67	2.43	-0.24	24.69	0.21
J & K		12.67	0.00	12.67	15.83	14.83	-0.99	27.50	1.70
Chandigarh				0.00	5.42	5.29	-0.13	5.29	0.00
Total	389.44	81.46	7.42	478.32	494.83	490.51	-4.31	968.83	63.71

* 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	8203	0	3	1670	8133	0	-51	1891	42.66	
Haryana	7238	12	-97	54	6572	0	95	26	-5.84	
Rajasthan	8054	54	-46	951	8265	0	-255	1218	18.05	
Delhi	4497	0	-217	-90	4012	0	-38	-165	-1.84	
UP	9564	2760	-7	646	10620	2495	371	1816	28.71	
Uttarakhand	1387	225	75	-77	1247	0	16	-17	-1.43	
HP	1159	0	-32	-894	868	0	15	-973	-20.86	
J&K	1308	100	-52	-142	824	0	-71	-376	-5.90	
Chandigarh	246	0	-16	-10	180	0	-5	-10	0.11	
Total	41656	3151	-388	2108	40720	2495	76	3410	53.65	

* 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	1740	1867	1858	41.89	1746	41.76	0.13
	Rihand I STPS	1000	920	1011	1003	22.28	928	22.08	0.20
	Rihand II STPS	1000	475	517	518	11.43	476	11.40	0.03
	Rihand III STPS	500	482	511	500	11.63	484	11.56	0.06
	Dadri I STPS	840	810	873	723	19.18	799	19.32	-0.14
	Dadri II STPS	980	975	1031	1012	23.22	967	23.35	-0.14
	Unchahar I TPS	420	391	436	424	9.34	389	9.33	0.01
	Unchahar II TPS	420	398	445	421	9.49	395	9.46	0.03
	Unchahar III TPS	210	199	217	217	4.75	198	4.72	0.03
	ISTPP (Jhajjar)	1500	1480	1012	1001	22.01	917	22.44	-0.43
	Dadri GPS	830	799	380	426	9.06	378	9.67	-0.61
	Anta GPS	419	393	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	624	151	154	3.55	148	3.66	-0.10
	Sub Total (A)	10782	9685	8451	8257	187.82	7826	188.75	-0.93
B. NPC	NAPS	440	293	326	328	6.95	290	7.03	-0.08
	RAPS- B	440	194	215	220	4.64	193	4.66	-0.01
	RAPS- C	440	410	456	459	9.72	405	9.84	-0.12
	Sub Total (B)	1320	897	997	1007	21.31	888	21.53	-0.21
C. NHPC	Chamera I HPS	540	534	540	0	7.30	304	7.21	0.09
	Chamera II HPS	300	300	306	101	5.59	233	4.91	0.68
	Chamera III HPS	231	191	233	160	3.91	163	3.70	0.21
	Bairasuil HPS	180	129	182	80	1.50	62	1.39	0.11
	Salal-HPS	690	662	668	668	16.01	667	15.88	0.14
	Tanakpur-HPS	94	63	64	63	1.54	64	1.51	0.03
	Uri-HPS	480	285	330	309	7.14	297	7.11	0.02
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	404	404	9.36	390	9.36	0.00
	Sewa-II HPS	120	119	124	0	1.51	63	1.31	0.20
	Sub Total (C)	3305	2670	2851	1785	53.86	2244	52.38	1.48
D. NJPC	Nathpa Jhakri	1500	1350	1357	1359	32.39	1350	32.40	-0.01
	Sub Total (D)	1500	1350	1357	1359	32.39	1350	32.40	-0.01
E. THDC	Tehri HPS	1000	1060	1065	231	10.80	450	10.50	0.30
	Koteshwar HPS	400	391	363	91	3.71	155	3.60	0.11
	Sub Total (E)	1400	1451	1428	322	14.51	605	14.10	0.41
F. BBMB	Bhakra HPS	1497	964	1139	779	23.74	989	23.14	0.60
	Dehar HPS	990	573	825	590	14.18	591	13.76	0.42
	Pong HPS	396	201	306	120	5.11	213	4.83	0.28
	Sub Total (F)	2883	1739	2270	1489	43.03	1793	41.73	1.30
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	201	88	2.24	93	2.02	0.22
	KWHEP HPS(IPP)	1000	0	997	600	19.53	814	19.71	-0.18
	Malana Stg-II HPS	100	0	100	61	1.67	69	1.47	0.19
	Shree Cement TPS	300	0	137	134	3.29	137	3.27	0.02
	Budhil HPS(IPP)	70	0	67	41	1.16	49	1.13	0.03
	Sub Total (G)	1662	0	1502	924	27.88	1162	27.60	0.28
H. Total Regional Entities (A-G)	22852	17792	18856	15143	380.80	15867	378.49	2.31	

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	1050	1250	25.77	1074
	Guru Nanak Dev TPS(Bhatinda)	440	338	335	7.18	299
	Guru Hargobind Singh TPS(L.mbt)	920	951	943	20.72	863
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2339	2528	53.66	2236
	Total Hydro	1148	892	887	21.23	884
Total Punjab		3768	3231	3415	74.89	3120
Haryana	Panipat TPS	1367	1092	1003	25.80	1075
	DCRTPP (Yamuna nagar)	600	576	512	13.14	548
	Faridabad GPS (NTPC)	432	196	200	4.59	191
	RGTPP (khedar) (IPP)	1200	1062	904	24.95	1040
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	714	940	19.13	797
	Thermal (Total)	4944	3640	3559	88.08	3670
	Total Hydro	62	29	26	0.66	27
	Total Haryana	5006	3669	3585	88.74	3697
	Rajasthan	kota TPS	1240	1161	1063	27.31
suratgarh TPS		1500	1082	933	25.31	1055
Chabra TPS		500	439	407	9.84	410
Dholpur GPS		330	111	135	2.81	117
Ramgarh GPS		111	60	64	1.65	69
RAPS A (NPC)		300	180	180	3.97	165
Barsingsar (NLC)		250	85	83	1.90	79
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	731	604	16.40	684
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	624	571	14.58	607
Thermal (Total)		6956	4473	4040	103.77	4324
Total Hydro		550	24	89	1.35	56
Wind power		2191	0	391	4.19	175
Biomass		91	29	29	0.70	29
Solar		201	0	0	1.53	64
Renewable/Others (Total)		2483	29	420	6.42	267
Total Rajasthan		9989	4526	4549	111.54	4648
UP		Anpara TPS	1630	1351	1337	28.90
	Obra TPS	1288	525	449	10.70	446
	Paricha TPS	1140	856	846	18.90	788
	Panki TPS	210	20	75	1.70	71
	Harduaganj TPS	665	202	205	4.60	192
	Tanda TPS (NTPC)	440	296	190	6.47	269
	Roza TPS (IPP)	1200	839	810	19.86	828
	Anpara-C (IPP)	1200	833	815	19.92	830
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	257	282	6.61	276
	Thermal (Total)	8223	5179	5009	117.66	4903
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	188	187	4.26	178
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	5407	5236	122.92	5122
	Uttarakhand	Total Hydro	1303	801	794	19.05
Total Uttarakhand		1303	801	794	19.05	794
Delhi	Rajghat TPS	135	47	0	0.23	9
	Delhi Gas Turbine	282	116	79	2.17	91
	Pragati Gas Turbine	330	294	268	6.88	286
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	303	276	6.97	290
	Badarpur TPS (NTPC)	705	485	420	10.03	418
	Thermal (Total)	2232	1245	1043	26.26	1094
	Total Delhi	2232	1245	1043	26.26	1094
HP	Baspa HPS (IPP)	330	327	297	6.98	291
	Malana HPS (IPP)	86	76	54	1.52	63
	Other Hydro	589	579	571	13.76	573
	Total HP	1005	982	922	22.26	927
J & K	Baglihar HPS (IPP)	450	438	438	9.47	394
	Other Hydro	323	132	128	3.20	133
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	570	566	12.67	528
Total State Control Area Generation		34390	20431	20110	478.32	19930
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4788	6791	123.00	5125
Total Regional Availability(Gross)		57242	44075	42044	982.12	40922

IV. Total Hydro Generation:

Regional Entities Hydro	10380	9204	5704	167.21	6967
State Control Area Hydro	5368	3486	3471	81.46	3394
Total Regional Hydro	15748	12690	9175	248.68	10362

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	500	500	0	6.85	0.00	6.85
Gwalior-Agra (D/C)	850	1700	1700	0	25.10	0.00	25.10
Zerda-Kankroli	52	114	114	132	0.00	0.25	-0.25
Zerda-Bhinmal	119	166	207	74	1.50	0.00	1.50
Malanpur-Auraiya	-125	-46	0	125	0.00	1.95	-1.95
Badod-Kota/Morak	29	78	78	100	0.00	0.22	-0.22
Mundra-Mohindergarh(HVDC)	1432	1434	1448	0	34.79	0.00	34.79
Sub Total WR	2457	3946			68.25	2.42	65.82
Pusauli Bypass	-15	62	141	104	0.68	0.45	0.23
MZP- GKP (D/C)	749	985	1073	0	17.24	0.00	17.24
Patna-Balia(D/C)	692	823	852	0	17.24	0.00	17.24
B'Sharif-Balia (D/C)	493	601	412	0	12.44	0.00	12.44
Pusauli-Balia	55	95	99	0	1.82	0.00	1.82
Gaya-Fatehpur (765 Kv)	249	232	345	0	5.66	0.00	5.66
Pusauli-Sahupuri	145	83	162	0	3.42	0.00	3.42
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	33	0	0.00	0.87	-0.87
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	2331	2845			58.50	1.32	57.18
Total IR Exch	4788	6791			126.74	3.74	123.00

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
35.34	3.22	38.56	-0.87	21.38	18.98	-9.76	5.31	-5.31

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
61.99	69.83	131.82	57.18	65.82	123.00	-4.81	-4.01	-8.82

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	0.10	6.50	98.70	11.70	92.30	32.80	1.20

<----- 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				
50.31	6.02	49.48	18.58	49.92	0.25	0.14	50.20	49.66

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	407	17:58	399	14:23	0.0	0.0	0.0	0.0
Gorakhpur	400	419	18:07	400	14:56	0.0	0.0	0.0	0.0
Bareilly	400	416	18:04	380	11:29	0.0	0.1	0.0	0.0
Kanpur	400	415	17:15	397	14:40	0.0	0.0	0.0	0.0
Dadri	400	413	18:05	396	12:18	0.0	0.0	0.0	0.0
Ballabgarh	400	419	06:04	400	12:13	0.0	0.0	0.0	0.0
Bawana	400	416	18:02	400	14:39	0.0	0.0	0.0	0.0
Bassi	400	414	18:05	388	10:13	0.0	1.1	0.0	0.0
Hissar	400	406	04:03	390	14:39	0.0	0.0	0.0	0.0
Moga	400	411	18:01	398	10:13	0.0	0.0	0.0	0.0
Abdullapur	400	414	17:15	399	12:08	0.0	0.0	0.0	0.0
Nalagarh	400	414	18:01	396	14:39	0.0	0.0	0.0	0.0
Kishenpur	400	414	03:20	401	19:06	0.0	0.0	0.0	0.0
Wagoora	400	414	13:02	393	19:07	0.0	0.0	0.0	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	774	18:04	738	14:41	0.0	1.0	0.0	0.0
Balia	765	763	17:58	723	23:18	3.0	59.8	0.0	0.0
Moga	765	787	18:02	755	14:43	0.0	0.0	0.0	0.0
Agra	765	802	18:06	748	23:11	0.0	0.0	0.1	0.0
Bhiwani	765	792	17:16	770	19:07	0.0	0.0	0.0	0.0
Unnao	765	764	18:05	732	14:43	0.0	5.2	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	511.49	1620.46	501.92	1179.55	757.96	675.27
Pong	426.72	384.05	423.77	1066.19	419.03	848.35	350.42	278.92
Tehri	829.79	740.04	820.95	1022.32	818.65	982.26	259.93	238.00
Koteshwar	612.50	598.50	610.95	4.96	NA	NA	271.00	269.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	216.90	170.28
Rihand	268.22	252.98	NA	NA	NA	NA	NA	NA
RPS	352.80	343.81	352.72	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.61	NA	NA	NA	NA	NA
RSD	527.91	487.91	521.69	144.00	514.81	144.00	234.29	426.73

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 12.09.2013 :

1. Normal weather in NR.

XIII. Synchronisation of new generating units :

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 : 12.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER