

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.09.2013
Date of Reporting : 12.09.2013

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
41980	2915	44895	50.15	40134	2545	42679	50.04	956.0	64.93

* 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	54.82	21.04		75.87	114.74	114.90	0.16	190.77	0.00
Haryana	88.08	0.64		88.72	64.22	63.60	-0.62	152.32	0.08
Rajasthan	101.21	1.34	9.55	112.10	83.67	80.60	-3.07	192.70	1.44
Delhi	25.08			25.08	74.04	73.78	-0.27	98.86	0.00
UP	114.49	4.04	1.00	119.53	113.11	112.84	-0.28	232.36	58.31
Uttarakhand		19.71		19.71	9.66	11.34	1.68	31.05	2.70
HP		22.36		22.36	2.07	2.03	-0.04	24.38	0.70
J & K		12.67	0.00	12.67	15.96	15.62	-0.34	28.28	1.70
Chandigarh				0.00	5.48	5.27	-0.21	5.27	0.00
Total	383.69	81.79	10.55	476.03	482.94	479.97	-2.98	956.00	64.93

* 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	8561	0	123	1713	7944	0	9	1863	42.71	
Haryana	7197	0	-195	160	6432	0	53	215	-10.17	
Rajasthan	8263	0	-285	858	8296	0	-289	1288	23.46	
Delhi	4424	0	-46	-200	3791	0	-7	-201	-4.00	
UP	9240	2660	-184	646	10372	2545	446	1704	25.91	
Uttarakhand	1417	155	61	-55	1248	0	76	-42	-1.34	
HP	1177	0	31	-917	923	0	50	-988	-21.79	
J&K	1436	100	32	-219	957	0	-88	-351	-5.83	
Chandigarh	265	0	0	-10	171	0	-10	-10	0.21	
Total	41980	2915	-463	1976	40134	2545	241	3477	49.16	

* 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	1875	1863	41.71	1738	41.76	-0.05
	Rihand I STPS	1000	915	993	1000	21.93	914	21.95	-0.02
	Rihand II STPS	1000	475	519	522	11.62	484	11.40	0.22
	Rihand III STPS	500	485	510	516	11.63	485	11.64	-0.01
	Dadri I STPS	840	805	869	873	18.57	774	18.52	0.05
	Dadri II STPS	980	975	1021	1006	22.88	954	23.01	-0.13
	Unchahar I TPS	420	392	428	427	9.35	389	9.31	0.04
	Unchahar II TPS	420	379	441	439	8.88	370	8.89	-0.02
	Unchahar III TPS	210	200	219	219	4.71	196	4.67	0.03
	ISTPP (Jhajjar)	1500	1480	1034	681	20.04	835	20.74	-0.70
	Dadri GPS	830	799	379	385	8.85	369	9.72	-0.87
	Anta GPS	419	393	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	624	153	154	3.55	148	3.72	-0.17
	Sub Total (A)	10782	9661	8441	8085	183.71	7655	185.33	-1.62
	B. NPC	NAPS	440	294	325	331	6.86	286	7.06
RAPS- B		440	194	219	220	4.65	194	4.66	-0.01
RAPS- C		440	410	460	463	9.76	407	9.84	-0.08
Sub Total (B)		1320	898	1004	1014	21.27	886	21.55	-0.28
C. NHPC	Chamera I HPS	540	534	540	180	7.79	324	7.75	0.03
	Chamera II HPS	300	296	302	172	5.19	216	5.06	0.13
	Chamera III HPS	231	154	153	153	3.74	156	3.59	0.15
	Bairasuil HPS	180	182	120	30	1.86	78	1.93	-0.07
	Salal-HPS	690	660	668	660	15.95	665	15.84	0.11
	Tanakpur-HPS	94	63	64	64	1.54	64	1.51	0.03
	Uri-HPS	480	295	325	311	7.47	311	7.33	0.13
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	402	400	9.35	390	9.39	-0.04
	Sewa-II HPS	120	119	125	0	1.27	53	1.30	-0.03
	Sub Total (C)	3305	2690	2699	1970	54.15	2256	53.70	0.44
	D. NJPC	Nathpa Jhakri	1500	1350	1359	1357	32.39	1350	32.40
Sub Total (D)		1500	1350	1359	1357	32.39	1350	32.40	-0.01
E. THDC	Tehri HPS	1000	1060	1067	0	10.94	456	10.50	0.44
	Koteshwar HPS	400	391	364	0	3.71	155	3.60	0.11
	Sub Total (E)	1400	1451	1431	0	14.66	611	14.10	0.56
F. BBMB	Bhakra HPS	1497	939	1250	777	23.00	958	22.54	0.46
	Dehar HPS	990	573	825	590	14.01	584	13.76	0.25
	Pong HPS	396	213	306	186	5.27	220	5.11	0.16
	Sub Total (F)	2883	1726	2381	1553	42.28	1762	41.41	0.87
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	127	112	2.36	98	2.33	0.04
	KWHEP HPS(IPP)	1000	0	998	598	19.36	807	18.87	0.49
	Malana Stg-II HPS	100	0	100	61	1.67	69	1.50	0.16
	Shree Cement TPS	300	0	139	137	3.28	137	3.25	0.03
	Budhil HPS(IPP)	70	0	68	30	0.94	39	1.07	-0.13
	Sub Total (G)	1662	0	1432	938	27.60	1150	27.01	0.59
	H. Total Regional Entities (A-G)	22852	17776	18747	14917	376.06	15669	375.51	0.55

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	1250	1250	27.08	1129
	Guru Nanak Dev TPS(Bhatinda)	440	332	300	6.87	286
	Guru Hargobind Singh TPS(L.mbt)	920	944	952	20.87	870
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2526	2502	54.82	2284
	Total Hydro	1148	891	913	21.04	877
Total Punjab	3768	3417	3415	75.87	3161	
Haryana	Panipat TPS	1367	1082	1012	25.24	1052
	DCRTPP (Yamuna nagar)	600	542	504	12.67	528
	Faridabad GPS (NTPC)	432	195	187	4.63	193
	RGTPP (khedar) (IPP)	1200	1122	818	14.65	610
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	1114	27.55	1148
	Thermal (Total)	4944	4055	3635	88.08	3670
	Total Hydro	62	15	10	0.64	27
	Total Haryana	5006	4070	3645	88.72	3697
	Rajasthan	kota TPS	1240	1158	1143	27.41
suratgarh TPS		1500	1068	1035	25.09	1046
Chabra TPS		500	308	338	8.30	346
Dholpur GPS		330	134	112	2.23	93
Ramgarh GPS		111	64	65	1.66	69
RAPS A (NPC)		300	180	180	3.98	166
Barsingsar (NLC)		250	85	81	1.89	79
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	741	771	16.51	688
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	590	549	14.14	589
Thermal (Total)		6956	4328	4274	101.21	4217
Total Hydro		550	44	132	1.34	56
Wind power		2191	100	433	7.28	303
Biomass		91	22	22	0.53	22
Solar		201	0	0	1.74	72
Renewable/Others (Total)		2483	122	455	9.55	398
Total Rajasthan		9989	4494	4861	112.10	4671
UP		Anpara TPS	1630	1317	824	23.60
	Obra TPS	1288	479	534	10.70	446
	Paricha TPS	1140	917	627	17.10	713
	Panki TPS	210	150	185	3.40	142
	Harduaganj TPS	665	439	433	9.50	396
	Tanda TPS (NTPC)	440	190	298	5.26	219
	Roza TPS (IPP)	1200	824	842	19.83	826
	Anpara-C (IPP)	1200	810	803	19.44	810
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	238	240	5.66	236
	Thermal (Total)	8223	5364	4786	114.49	4771
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	188	188	4.04	168
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	5592	5014	119.53	4980
Uttarakhand	Total Hydro	1303	835	836	19.71	821
	Total Uttarakhand	1303	835	836	19.71	821
Delhi	Rajghat TPS	135	0	48	0.12	5
	Delhi Gas Turbine	282	78	80	1.96	82
	Pragati Gas Turbine	330	290	264	6.76	282
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	282	252	6.40	267
	Badarpur TPS (NTPC)	705	480	435	9.84	410
	Thermal (Total)	2232	1130	1079	25.08	1045
	Total Delhi	2232	1130	1079	25.08	1045
HP	Baspa HPS (IPP)	330	330	300	7.05	294
	Malana HPS (IPP)	86	75	54	1.51	63
	Other Hydro	589	581	573	13.80	575
	Total HP	1005	986	927	22.36	932
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	21094	20343	476.03	19835
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5015	6264	124.01	5167
Total Regional Availability(Gross)		57242	44856	41524	976.10	40671

IV. Total Hydro Generation:

Regional Entities Hydro	10380	9095	5651	166.86	6953
State Control Area Hydro	5368	3529	3572	81.79	3408
Total Regional Hydro	15748	12624	9223	248.65	10361

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	150	500	500	0	5.35	0.00	5.35
Gwalior-Agra (D/C)	1276	1568	1620	0	25.19	0.00	25.19
Zerda-Kankroli	248	135	248	37	2.39	0.00	2.39
Zerda-Bhinmal	297	180	327	0	3.83	0.00	3.83
Malanpur-Auraiya	-98	-59	0	111	0.00	1.65	-1.65
Badod-Kota/Morak	29	54	84	100	0.00	0.14	-0.14
Mundra-Mohindergarh(HVDC)	1450	1139	1451	0	34.02	0.00	34.02
Sub Total WR	3352	3517			70.77	1.79	68.98
Pusauli Bypass	-73	65	108	116	0.82	0.36	0.46
MZP- GKP (D/C)	675	915	930	0	19.09	0.00	19.09
Patna-Balia(D/C)	516	780	827	0	16.62	0.00	16.62
B'Sharif-Balia (D/C)	330	579	614	0	10.46	0.00	10.46
Pusauli-Balia	17	85	90	0	0.98	0.00	0.98
Gaya-Fatehpur (765 Kv)	101	213	269	0	4.98	0.00	4.98
Pusauli-Sahupuri	134	146	155	0	3.32	0.00	3.32
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	1663	2747			56.27	1.23	55.04
Total IR Exch	5015	6264			127.04	3.02	124.01

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
33.27	3.43	36.70	-3.58	18.03	19.71	-8.17	6.07	-6.07

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
58.90	63.98	122.88	55.04	68.98	124.01	-3.86	5.00	1.14

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	0.20	2.80	98.10	9.60	95.50	37.60	1.70

<----- 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)		
50.29	18.17	49.47	13.38	49.95	0.19	0.13	50.21	49.73

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	00:01	400	01:34	0.0	0.0	0.0	0.0
Gorakhpur	400	419	08:10	400	00:13	0.0	0.0	0.0	0.0
Bareilly	400	415	08:02	394	13:40	0.0	0.0	0.0	0.0
Kanpur	400	416	08:02	401	13:38	0.0	0.0	0.0	0.0
Dadri	400	411	06:53	393	13:41	0.0	0.0	0.0	0.0
Ballabgarh	400	418	06:47	398	13:41	0.0	0.0	0.0	0.0
Bawana	400	414	07:01	400	12:15	0.0	0.0	0.0	0.0
Bassi	400	412	04:00	383	10:51	0.0	5.3	0.0	0.0
Hissar	400	404	06:53	387	13:36	0.0	1.4	0.0	0.0
Moga	400	409	04:00	393	13:40	0.0	0.0	0.0	0.0
Abdullapur	400	410	06:55	398	12:16	0.0	0.0	0.0	0.0
Nalagarh	400	410	04:04	397	13:41	0.0	0.0	0.0	0.0
Kishenpur	400	415	08:01	400	19:14	0.0	0.0	0.0	0.0
Wagoora	400	414	01:59	391	19:18	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	772	18:00	737	19:40	0.0	1.1	0.0	0.0
Balia	765	751	07:41	714	00:30	12.1	83.1	0.0	0.0
Moga	765	781	07:02	750	13:40	0.0	0.0	0.0	0.0
Agra	765	808	15:39	767	13:40	0.0	0.0	0.3	0.0
Bhiwani	765	789	18:03	758	12:09	0.0	0.0	0.0	0.0
Unnao	765	758	05:23	745	12:20	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	511.42	1620.46	501.69	1166.44	707.18	668.62
Pong	426.72	384.05	423.74	1066.19	418.91	834.91	360.44	288.94
Tehri	829.79	740.04	820.65	1023.38	818.65	982.26	250.71	241.00
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	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	521.98	144.00	514.56	144.00	260.46	420.56

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 11.09.2013 :

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 : 11.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER