

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.09.2013
Date of Reporting : 18.09.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
39571	2342	41912	50.26	37161	2137	39298	50.19	904.9	55.74

* 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	39.01	17.08		56.10	98.48	99.17	0.69	155.27	0.00
Haryana	88.08	0.67		88.75	64.26	63.10	-1.16	151.84	0.01
Rajasthan	98.13	0.99	5.15	104.27	75.76	71.03	-4.73	175.30	0.00
Delhi	30.75			30.75	66.76	63.15	-3.61	93.90	0.22
UP	124.43	4.22	1.00	129.65	112.95	112.51	-0.44	242.16	52.14
Uttarakhand		17.60		17.60	10.88	13.34	2.46	30.94	1.16
HP		17.20		17.20	2.83	4.13	1.31	21.33	0.51
J & K		13.63	0.00	13.63	15.01	15.94	0.93	29.57	1.70
Chandigarh				0.00	5.14	4.59	-0.54	4.59	0.00
Total	380.41	71.39	6.15	457.94	452.06	446.96	-5.10	904.90	55.74

* 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	7189	0	-82	1635	5777	0	-36	1711	39.61	
Haryana	6971	0	-105	329	6050	0	-116	194	5.89	
Rajasthan	7298	0	-379	917	7601	0	-232	1987	31.30	
Delhi	4196	6	-391	-12	3624	0	-102	-151	-1.21	
UP	9709	2005	-483	1134	11077	2035	26	2190	29.59	
Uttarakhand	1419	155	185	-41	1275	0	126	70	0.84	
HP	961	76	191	-1068	684	102	232	-799	-17.39	
J&K	1602	100	157	-132	926	0	10	-376	-4.82	
Chandigarh	226	0	-23	-15	146	0	-9	-12	0.20	
Total	39571	2342	-929	2747	37161	2137	-100	4815	84.01	

* 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 Net MU
A. NTPC								
Singrauli STPS	2000	1740	1868	1861	41.94	1748	41.76	0.18
Rihand I STPS	1000	879	880	961	20.84	868	21.01	-0.17
Rihand II STPS	1000	478	519	524	11.39	475	11.43	-0.04
Rihand III STPS	500	485	504	508	11.64	485	11.60	0.04
Dadri I STPS	840	600	458	654	10.99	458	11.07	-0.08
Dadri II STPS	980	975	987	723	18.90	787	19.21	-0.31
Unchahar I TPS	420	392	428	415	8.96	373	9.14	-0.18
Unchahar II TPS	420	403	407	432	8.85	369	9.03	-0.18
Unchahar III TPS	210	199	214	217	4.38	183	4.50	-0.12
ISTPP (Jhajjar)	1500	1480	625	689	14.54	606	14.74	-0.20
Dadri GPS	830	784	385	394	8.49	354	9.48	-0.99
Anta GPS	419	393	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	621	152	156	3.57	149	3.77	-0.20
Sub Total (A)	10782	9428	7427	7534	164.49	6854	166.74	-2.24
B. NPC								
NAPS	440	292	331	337	7.10	296	7.01	0.09
RAPS- B	440	194	220	219	4.66	194	4.66	0.00
RAPS- C	440	410	462	467	9.80	409	9.84	-0.04
Sub Total (B)	1320	896	1013	1023	21.57	899	21.50	0.06
C. NHPC								
Chamera I HPS	540	534	540	0	5.56	232	5.63	-0.07
Chamera II HPS	300	300	199	100	3.63	151	3.96	-0.33
Chamera III HPS	231	231	142	0	2.35	98	2.51	-0.17
Bairasuil HPS	180	182	40	60	1.51	63	1.65	-0.14
Salal-HPS	690	451	528	471	10.90	454	10.82	0.08
Tanakpur-HPS	94	94	94	94	2.17	90	2.19	-0.03
Uri-HPS	480	330	322	350	8.28	345	8.21	0.07
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	407	407	9.31	388	9.32	-0.01
Sewa-II HPS	120	119	109	0	1.15	48	1.16	-0.02
Sub Total (C)	3305	2627	2381	1482	44.84	1869	45.46	-0.62
D. NJPC								
Nathpa Jhakri	1500	1605	1305	778	24.81	1034	25.00	-0.19
Sub Total (D)	1500	1605	1305	778	24.81	1034	25.00	-0.19
E. THDC								
Tehri HPS	1000	1060	1063	0	9.20	384	9.00	0.20
Koteshwar HPS	400	400	405	0	3.01	126	3.00	0.01
Sub Total (E)	1400	1460	1468	0	12.22	509	12.00	0.22
F. BBMB								
Bhakra HPS	1497	797	1217	592	19.71	821	19.14	0.57
Dehar HPS	990	519	470	560	12.23	510	12.45	-0.22
Pong HPS	396	300	372	252	7.43	310	7.20	0.23
Sub Total (F)	2883	1616	2059	1404	39.37	1640	38.79	0.58
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	64	64	1.58	66	1.53	0.05
KWHEP HPS(IPP)	1000	0	746	499	13.42	559	15.60	-2.18
Malana Stg-II HPS	100	0	55	30	0.83	34	0.76	0.06
Shree Cement TPS	300	0	125	123	2.96	123	3.05	-0.09
Budhil HPS(IPP)	70	0	30	30	0.72	30	0.81	-0.09
Sub Total (G)	1662	0	1020	746	19.51	813	21.77	-2.25
H. Total Regional Entities (A-G)	22852	17632	16673	12967	326.82	13617	331.26	-4.44

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	985	550	17.62	734
	Guru Nanak Dev TPS(Bhatinda)	440	195	0	1.89	79
	Guru Hargobind Singh TPS(L.mbt)	920	955	782	19.51	813
	Goindwal(GVK)		0	0 0 0	0.00	0
	Thermal (Total)	2620	2135	1332	39.01	1626
	Total Hydro	1148	516	646	17.08	712
Total Punjab	3768	2651	1978	56.10	2337	
Haryana	Panipat TPS	1367	1005	1003	23.16	965
	DCRTPP (Yamuna nagar)	600	575	572	12.64	527
	Faridabad GPS (NTPC)	432	195	201	4.43	184
	RGTPP (khedar) (IPP)	1200	1067	515	18.20	758
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1024	1138	24.82	1034
	Thermal (Total)	4944	3	3429	88.08	3670
	Total Hydro	62	17	19	0.67	28
	Total Haryana	5006	20	3448	88.75	3698
	Rajasthan	kota TPS	1240	952	889	22.38
suratgarh TPS		1500	1084	955	24.54	1022
Chabra TPS		500	225	456	8.47	353
Dholpur GPS		330	74	96	1.90	79
Ramgarh GPS		111	32	50	1.28	53
RAPS A (NPC)		300	173	173	4.03	168
Barsingsar (NLC)		250	184	79	3.24	135
Giral LTPS		250	18	0	0.17	7
Rajwest LTPS (IPP)		1080	848	762	19.53	814
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	609	450	12.60	525
Thermal (Total)		6956	4199	3910	98.13	4089
Total Hydro		550	24	24	0.99	41
Wind power		2191	40	170	2.79	116
Biomass		91	37	37	0.88	37
Solar		201	0	0	1.48	62
Renewable/Others (Total)		2483	77	207	5.15	215
Total Rajasthan		9989	4300	4141	104.27	4345
UP		Anpara TPS	1630	1286	1283	28.10
	Obra TPS	1288	491	491	10.90	454
	Paricha TPS	1140	833	841	17.90	746
	Panki TPS	210	175	145	3.50	146
	Harduaganj TPS	665	432	433	9.20	383
	Tanda TPS (NTPC)	440	298	296	7.31	305
	Roza TPS (IPP)	1200	797	810	19.28	803
	Anpara-C (IPP)	1200	859	842	20.69	862
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	321	7.55	314
	Thermal (Total)	8223	5495	5462	124.43	5185
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	154	192	4.22	176
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	5689	5694	129.65	5402
Uttarakhand	Total Hydro	1303	712	729	17.60	733
	Total Uttarakhand	1303	712	729	17.60	733
Delhi	Rajghat TPS	135	95	74	2.01	84
	Delhi Gas Turbine	282	159	163	3.50	146
	Pragati Gas Turbine	330	262	261	6.40	267
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	272	246	6.01	250
	Badarpur TPS (NTPC)	705	610	565	12.84	535
	Thermal (Total)	2232	1398	1309	30.75	1281
Total Delhi	2232	1398	1309	30.75	1281	
HP	Baspa HPS (IPP)	330	203	212	4.34	181
	Malana HPS (IPP)	86	60	26	0.82	34
	Other Hydro	589	528	453	12.04	502
	Total HP	1005	791	691	17.20	717
J & K	Baglihar HPS (IPP)	450	438	436	10.49	437
	Other Hydro	323	126	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	564	564	13.63	568
Total State Control Area Generation		34390	16125	18554	457.94	19081
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4727	6375	131.04	5460
Total Regional Availability(Gross)		57242	37525	37896	915.80	38158

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8078	4257	137.07	5711
State Control Area Hydro	5368	2778	2865	71.39	2974
Total Regional Hydro	15748	10856	7122	208.46	8686

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	300	500	500	0	10.03	0.00	10.03
Gwalior-Agra (D/C)	1300	1708	1980	0	34.71	0.00	34.71
Zerda-Kankroli	14	20	98	140	0.00	0.49	-0.49
Zerda-Bhinmal	52	79	172	78	1.11	0.00	1.11
Malanpur-Auraiya	-93	-32	0	93	0.00	1.16	-1.16
Badod-Kota/Morak	64	-7	114	30	0.73	0.00	0.73
Mundra-Mohindergarh(HVDC)	969	965	969	0	20.99	0.00	20.99
Sub Total WR	2606	3233			67.57	1.65	65.92
Pusauli Bypass	200	200	300	0	4.79	0.00	4.79
MZP- GKP (D/C)	620	879	1040	0	19.43	0.00	19.43
Patna-Balia(D/C)	618	929	1000	0	19.60	0.00	19.60
B'Sharif-Balia (D/C)	387	691	734	0	14.42	0.00	14.42
Pusauli-Balia	-18	86	99	36	0.00	1.21	-1.21
Gaya-Fatehpur (765 Kv)	207	245	349	0	5.47	0.00	5.47
Pusauli-Sahupuri	144	148	168	0	3.20	0.00	3.20
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	37	0.00	0.57	-0.57
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	2121	3142			66.89	1.78	65.11
Total IR Exch	4727	6375			134.46	3.43	131.04

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
34.27	2.84	37.11	1.45	29.49	20.90	13.38	6.36	-6.36

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
65.83	69.06	134.90	65.11	65.92	131.04	-0.72	-3.14	-3.86

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	0.70	91.20	1.70	90.50	68.40	8.80

<----- 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)		
50.38	6.03	49.57	18.27	50.05	0.16	0.12	50.39	49.86

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	411	20:00	402	00:19	0.0	0.0	0.0	0.0
Gorakhpur	400	424	22:02	405	00:17	0.0	0.0	5.4	0.0
Barilly	400	421	18:03	395	00:04	0.0	0.0	0.1	0.0
Kanpur	400	420	08:04	403	00:05	0.0	0.0	0.0	0.0
Dadri	400	417	18:17	400	14:38	0.0	0.0	0.0	0.0
Ballabgarh	400	422	08:02	404	14:40	0.0	0.0	2.8	0.0
Bawana	400	419	18:02	403	14:38	0.0	0.0	0.0	0.0
Bassi	400	424	04:01	400	23:09	0.0	0.0	2.4	0.0
Hissar	400	409	18:02	392	14:40	0.0	0.0	0.0	0.0
Moga	400	413	04:01	397	14:39	0.0	0.0	0.0	0.0
Abdullapur	400	416	18:01	402	14:37	0.0	0.0	0.0	0.0
Nalagarh	400	417	04:01	402	10:51	0.0	0.0	0.0	0.0
Kishenpur	400	419	04:01	404	19:07	0.0	0.0	0.0	0.0
Wagoora	400	417	16:56	396	06:33	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	779	18:03	748	00:07	0.0	0.0	0.0	0.0
Balia	765	763	08:05	727	00:23	0.0	13.1	0.0	0.0
Moga	765	782	04:01	752	14:40	0.0	0.0	0.0	0.0
Agra	765	809	08:05	772	00:04	0.0	0.0	6.4	0.0
Bhiwani	765	794	08:02	768	23:09	0.0	0.0	0.0	0.0
Unnao	765	768	08:04	745	23:13	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	511.62	1635.65	502.94	1219.07	679.41	618.81
Pong	426.72	384.05	423.78	1066.19	420.00	889.22	325.73	388.22
Tehri	829.79	740.04	822.05	1045.00	818.65	982.26	220.85	224.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	168.15	200.46
Rihand	268.22	252.98	NA	NA	263.50	512.00	NA	NA
RPS	352.80	343.81	352.74	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.70	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.90	144.00	516.82	144.00	165.60	185.62

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 17.09.2013 :

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 : 17.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER