

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.09.2013
Date of Reporting : 09.09.2013

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
39460	1955	41415	50.13	39054	1391	40445	49.94	906.7	47.01

* 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	53.57	21.10		74.67	113.28	113.28	-0.01	187.95	0.00
Haryana	88.08	0.70		88.78	60.79	61.10	0.31	149.87	0.63
Rajasthan	89.18	1.23	8.96	99.37	66.58	72.38	5.81	171.75	3.95
Delhi	26.18			26.18	66.17	63.65	-2.52	89.83	0.00
UP	115.26	4.40	1.00	120.66	109.43	105.52	-3.92	226.18	36.99
Uttarakhand		18.32		18.32	8.78	9.24	0.46	27.57	3.62
J & K		21.24		21.24	4.27	1.66	-2.62	22.90	0.13
Chandigarh		13.69	0.00	13.69	14.52	12.72	-1.80	26.40	1.70
				0.00	4.98	4.26	-0.72	4.26	0.00
Total	372.27	80.68	9.96	462.90	448.80	443.80	-5.00	906.71	47.01

* 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	STOA/PX transaction
Punjab	8355	0	129	1756	7835	0	62	1889	48.46	
Haryana	6798	0	40	-208	6406	72	256	90	-2.03	
Rajasthan	7213	0	-268	907	7210	64	380	674	12.81	
Delhi	4021	0	-7	111	3818	0	-118	-193	-3.61	
UP	9178	1780	-470	1313	10683	1025	102	1846	28.35	
Uttarakhand	1424	75	107	-85	1145	230	46	-91	-2.05	
HP	1038	0	-134	-905	912	0	-106	-765	-18.62	
J&K	1227	100	-112	-69	866	0	-176	-326	-3.48	
Chandigarh	206	0	-49	-10	180	0	-16	0	-0.02	
Total	39460	1955	-764	2809	39054	1391	429	3124	59.82	

* 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	1322	1603	1366	31.44	1310	31.74	-0.30
	Rihand I STPS	1000	900	960	978	21.50	896	21.60	-0.10
	Rihand II STPS	1000	450	498	496	10.85	452	10.78	0.07
	Rihand III STPS	500	485	501	522	11.68	487	11.61	0.07
	Dadri I STPS	840	600	521	654	12.89	537	12.91	-0.02
	Dadri II STPS	980	975	1022	1019	23.04	960	23.08	-0.04
	Unchahar I TPS	420	391	411	432	9.22	384	9.25	-0.03
	Unchahar II TPS	420	404	422	443	9.44	393	9.41	0.03
	Unchahar III TPS	210	200	215	212	4.69	195	4.69	0.00
	ISTPP (Jhajjar)	1500	1480	903	655	17.09	712	17.34	-0.25
	Dadri GPS	830	692	291	218	5.69	237	5.97	-0.28
	Anta GPS	419	393	0	260	3.51	146	3.67	-0.16
	Auraiya GPS	663	624	156	155	3.58	149	3.96	-0.38
	Sub Total (A)	10782	8916	7503	7410	164.63	6860	166.01	-1.38
	B. NPC	NAPS	440	292	335	335	7.04	293	7.01
RAPS- B		440	192	218	219	4.68	195	4.61	0.07
RAPS- C		440	405	458	460	9.80	408	9.72	0.07
Sub Total (B)		1320	889	1011	1014	21.52	897	21.34	0.18
C. NHPC	Chamera I HPS	540	534	540	0	6.29	262	6.23	0.06
	Chamera II HPS	300	300	301	100	5.24	218	5.07	0.17
	Chamera III HPS	231	231	229	80	3.59	150	3.49	0.10
	Bairasuil HPS	180	179	120	20	2.23	93	2.09	0.13
	Salal-HPS	690	215	0	643	5.00	208	5.16	-0.16
	Tanakpur-HPS	94	63	63	63	1.53	64	1.51	0.01
	Uri-HPS	480	330	342	346	8.16	340	7.95	0.21
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	379	410	405	8.14	339	9.04	-0.90
	Sewa-II HPS	120	119	96	0	1.50	62	1.44	0.06
	Sub Total (C)	3305	2350	2101	1657	41.66	1736	41.97	-0.31
D. NJPC	Nathpa Jhakri	1500	1560	1361	1354	32.37	1349	32.44	-0.07
	Sub Total (D)	1500	1560	1361	1354	32.37	1349	32.44	-0.07
E. THDC	Tehri HPS	1000	1060	1066	510	15.36	640	15.00	0.36
	Koteshwar HPS	400	391	402	92	4.94	206	4.90	0.04
	Sub Total (E)	1400	1451	1468	602	20.30	846	19.90	0.40
F. BBMB	Bhakra HPS	1497	962	1318	777	23.38	974	23.08	0.30
	Dehar HPS	990	580	825	570	14.17	590	13.93	0.24
	Pong HPS	396	190	312	126	4.77	199	4.56	0.21
	Sub Total (F)	2883	1732	2455	1473	42.32	1763	41.57	0.75
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	173	88	2.41	100	1.96	0.45
	KWHEP HPS(IPP)	1000	0	1119	821	19.66	819	19.70	-0.04
	Malana Stg-II HPS	100	0	83	75	1.78	74	1.44	0.34
	Shree Cement TPS	300	0	119	131	2.99	125	2.98	0.01
	Budhil HPS(IPP)	70	0	69	20	1.03	43	1.07	-0.04
	Sub Total (G)	1662	0	1563	1135	27.87	1161	27.14	0.73
H. Total Regional Entities (A-G)	22852	16898	17462	14645	350.67	14611	350.37	0.29	

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	1160	26.25	1094
	Guru Nanak Dev TPS(Bhatinda)	440	335	300	6.78	282
	Guru Hargobind Singh TPS(L.mbt)	920	946	949	20.55	856
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2531	2409	53.57	2232
	Total Hydro	1148	892	880	21.10	879
Total Punjab		3768	3423	3289	74.67	3111
Haryana	Panipat TPS	1367	1047	1020	24.85	1036
	DCRTPP (Yamuna nagar)	600	538	516	12.13	506
	Faridabad GPS (NTPC)	432	180	188	4.36	182
	RGTPP (khedar) (IPP)	1200	1088	958	24.34	1014
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1080	1069	25.81	1075
	Thermal (Total)	4944	3933	3751	88.08	3670
	Total Hydro	62	29	29	0.70	29
	Total Haryana	5006	3962	3780	88.78	3699
	Rajasthan	kota TPS	1240	824	825	17.52
suratgarh TPS		1500	1082	1038	25.37	1057
Chabra TPS		500	224	225	5.33	222
Dholpur GPS		330	113	114	2.72	113
Ramgarh GPS		111	61	64	1.65	69
RAPS A (NPC)		300	180	180	4.00	167
Barsingsar (NLC)		250	84	81	1.89	79
Giral LTPS		250	50	60	1.00	42
Rajwest LTPS (IPP)		1080	690	605	15.15	631
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	577	628	14.56	607
Thermal (Total)		6956	3885	3820	89.18	3716
Total Hydro		550	42	89	1.23	51
Wind power		2191	211	568	7.60	317
Biomass		91	20	20	0.47	20
Solar		201	0	0	0.89	37
Renewable/Others (Total)		2483	231	588	8.96	373
Total Rajasthan		9989	4158	4497	99.37	4140
UP		Anpara TPS	1630	780	1216	22.00
	Obra TPS	1288	451	405	10.50	438
	Paricha TPS	1140	570	839	17.00	708
	Panki TPS	210	144	54	2.60	108
	Harduaganj TPS	665	328	360	8.50	354
	Tanda TPS (NTPC)	440	295	298	7.35	306
	Roza TPS (IPP)	1200	648	839	17.95	748
	Anpara-C (IPP)	1200	1002	988	23.51	980
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	206	217	5.86	244
	Thermal (Total)	8223	4424	5216	115.26	4803
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	158	216	4.40	183
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	4622	5472	120.66	5028
Uttarakhand	Total Hydro	1303	805	802	18.32	764
	Total Uttarakhand	1303	805	802	18.32	764
Delhi	Rajghat TPS	135	46	44	1.07	44
	Delhi Gas Turbine	282	82	157	2.89	120
	Pragati Gas Turbine	330	260	275	6.77	282
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	245	253	6.00	250
	Badarpur TPS (NTPC)	705	430	475	9.45	394
	Thermal (Total)	2232	1063	1204	26.18	1091
	Total Delhi	2232	1063	1204	26.18	1091
HP	Baspa HPS (IPP)	330	333	273	6.64	277
	Malana HPS (IPP)	86	69	55	1.42	59
	Other Hydro	589	591	574	13.18	549
	Total HP	1005	993	902	21.24	885
J & K	Baglihar HPS (IPP)	450	438	436	10.49	437
	Other Hydro	323	132	128	3.20	133
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	570	564	13.69	570
Total State Control Area Generation		34390	19596	20510	462.90	19288
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4870	5731	120.20	5008
Total Regional Availability(Gross)		57242	41928	40886	933.77	38907

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8760	6070	160.50	6687
State Control Area Hydro	5368	3489	3482	80.68	3362
Total Regional Hydro	15748	12249	9552	241.18	10049

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	400	400	0	6.09	0.00	6.09
Gwalior-Agra (D/C)	1249	1488	1635	0	28.53	0.00	28.53
Zerda-Kankroli	115	62	134	149	0.34	0.00	0.34
Zerda-Bhinmal	183	114	208	160	1.68	0.00	1.68
Malanpur-Auraiya	-90	-23	0	104	0.00	1.70	-1.70
Badod-Kota/Morak	81	90	59	4	1.58	0.00	1.58
Mundra-Mohindergarh(HVDC)	986	505	1004	0	21.60	0.00	21.60
Sub Total WR	2674	2636			59.81	1.70	58.11
Pusauli Bypass	90	210	260	34	3.80	0.01	3.78
MZP- GKP (D/C)	760	1102	1116	0	22.28	0.00	22.28
Patna-Balia(D/C)	596	789	946	0	16.52	0.00	16.52
B'Sharif-Balia (D/C)	387	512	663	0	10.34	0.00	10.34
Pusauli-Balia	3	22	134	0	0.69	0.00	0.69
Gaya-Fatehpur (765 Kv)	252	353	373	0	6.04	0.00	6.04
Pusauli-Sahupuri	145	143	150	0	3.31	0.00	3.31
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	2196	3095			62.97	0.88	62.09
Total IR Exch	4870	5731			122.78	2.58	120.20

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
32.09	3.75	35.83	0.19	24.62	9.89	1.70	4.11	-4.11

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
50.02	62.33	112.36	62.09	58.11	120.20	12.06	-4.22	7.84

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	1.20	97.40	5.80	96.20	35.40	2.60

<----- 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				
50.38	18.05	49.56	8.11	49.96	0.16	0.12	50.31	49.84

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	412	18:01	402	02:15	0.0	0.0	0.0	0.0
Gorakhpur	400	420	06:25	405	02:12	0.0	0.0	0.0	0.0
Barilly	400	423	18:06	398	04:53	0.0	0.0	0.5	0.0
Kanpur	400	419	18:04	401	02:12	0.0	0.0	0.0	0.0
Dadri	400	417	18:02	403	00:09	0.0	0.0	0.0	0.0
Ballabgarh	400	424	18:02	409	00:10	0.0	0.0	2.8	0.0
Bawana	400	418	18:01	406	00:03	0.0	0.0	0.0	0.0
Bassi	400	419	06:04	393	11:35	0.0	0.0	0.0	0.0
Hissar	400	409	18:01	395	11:39	0.0	0.0	0.0	0.0
Moga	400	412	18:01	397	19:10	0.0	0.0	0.0	0.0
Abdullapur	400	414	18:06	402	12:46	0.0	0.0	0.0	0.0
Nalagarh	400	413	18:00	401	19:10	0.0	0.0	0.0	0.0
Kishenpur	400	416	18:04	398	19:19	0.0	0.0	0.0	0.0
Wagoora	400	418	17:33	390	19:19	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	771	18:05	743	08:15	0.0	0.0	0.0	0.0
Balia	765	764	18:05	732	02:18	0.0	45.6	0.0	0.0
Moga	765	790	18:01	762	19:14	0.0	0.0	0.0	0.0
Agra	765	799	18:04	733	19:28	0.0	0.1	0.0	0.0
Bhivani	765	796	18:03	769	23:36	0.0	0.0	0.0	0.0
Unnao	765	771	18:02	738	02:18	0.0	7.4	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	511.34	1620.46	500.88	1127.29	991.88	666.78
Pong	426.72	384.05	423.58	1066.19	418.60	821.34	861.91	263.80
Tehri	829.79	740.04	819.90	1000.00	818.65	982.26	266.90	340.00
Koteshwar	612.50	598.50	610.90	4.69	NA	NA	511.15	327.00
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	522.70	144.00	513.29	144.00	260.46	420.56

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 08.09.2013 :

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 .