

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.09.2013
Date of Reporting : 30.09.2013

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
35611	2268	37879	50.14	34800	1250	36050	0.00	809.9	33.49

* 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	47.27	12.78		60.05	101.49	101.63	0.13	161.67	0.00
Haryana	53.96	0.54		54.50	66.18	66.19	0.01	120.68	0.02
Rajasthan	66.37	5.59	12.71	84.68	47.53	36.31	-11.22	120.98	0.00
Delhi	20.18			20.18	66.49	63.87	-2.61	84.05	0.00
UP	119.40	4.25	1.70	125.35	113.45	110.19	-3.26	235.54	31.12
Uttarakhand		18.34		18.34	11.53	11.72	0.19	30.06	0.52
HP		17.03		17.03	5.83	5.21	-0.62	22.24	0.14
J & K		13.53	0.00	13.53	17.78	16.74	-1.04	30.27	1.70
Chandigarh				0.00	4.61	4.38	-0.23	4.38	0.00
Total	307.18	72.05	14.41	393.64	434.89	416.24	-18.65	809.88	33.49

* 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	7256	0	8	1744	6667	0	8	1729	43.84	
Haryana	5383	18	110	242	5012	0	-135	203	2.68	
Rajasthan	5885	0	-326	570	5135	0	-243	319	8.58	
Delhi	3798	0	-125	-199	3472	0	19	-495	-7.83	
UP	9201	2150	-502	641	11272	1250	67	1685	27.85	
Uttarakhand	1312	0	-105	84	1272	0	81	-44	1.33	
HP	1102	0	-278	-883	823	0	166	-535	-13.00	
J&K	1456	100	-52	-82	982	0	-85	-300	-2.51	
Chandigarh	218	0	-23	-20	165	0	-15	-20	-0.22	
Total	35611	2268	-1292	2098	34800	1250	-137	2542	60.71	

* 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	1782	1877	37.88	1578	38.12	-0.24
	Rihand I STPS	1000	920	867	855	17.14	714	17.47	-0.33
	Rihand II STPS	1000	478	441	417	8.60	358	9.04	-0.43
	Rihand III STPS	500	485	469	406	9.43	393	9.58	-0.15
	Dadri I STPS	840	600	478	512	11.62	484	12.27	-0.65
	Dadri II STPS	980	975	889	922	19.63	818	20.51	-0.88
	Unchahar I TPS	420	357	342	340	6.57	274	6.63	-0.06
	Unchahar II TPS	420	403	311	330	6.92	288	6.76	0.16
	Unchahar III TPS	210	199	152	174	3.63	151	3.34	0.30
	ISTPP (Jhajjar)	1500	1480	681	680	15.03	626	15.27	-0.24
	Dadri GPS	830	800	553	565	13.10	546	13.15	-0.05
	Anta GPS	419	399	255	256	6.02	251	6.17	-0.15
	Auraiya GPS	663	624	159	157	3.59	150	3.61	-0.01
	Sub Total (A)	10782	9460	7379	7491	159.18	6632	161.91	-2.74
	B. NPC	NAPS	440	294	333	333	7.05	294	7.06
RAPS- B		440	400	444	424	9.40	392	9.60	-0.20
RAPS- C		440	412	464	465	9.89	412	9.89	0.00
Sub Total (B)		1320	1106	1241	1222	26.34	1097	26.54	-0.21
C. NHPC	Chamera I HPS	540	537	540	180	4.52	189	4.64	-0.11
	Chamera II HPS	300	300	298	100	4.46	186	4.59	-0.13
	Chamera III HPS	231	231	227	74	2.84	118	3.01	-0.17
	Bairasuil HPS	180	182	150	60	1.31	55	1.47	-0.16
	Salal-HPS	690	545	601	577	12.64	527	13.13	-0.49
	Tanakpur-HPS	94	94	92	93	2.23	93	2.21	0.02
	Uri-HPS	480	223	232	238	5.01	209	5.12	-0.11
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	408	401	9.11	380	9.33	-0.22
	Sewa-II HPS	120	119	117	0	0.82	34	0.90	-0.08
	Sub Total (C)	3305	2617	2665	1723	42.95	1790	44.39	-1.44
	D. NJPC	Nathpa Jhakri	1500	1605	1623	765	22.73	947	22.90
Sub Total (D)		1500	1605	1623	765	22.73	947	22.90	-0.17
E. THDC	Tehri HPS	1000	1060	1059	230	6.96	290	6.85	0.11
	Koteshwar HPS	400	100	101	100	2.36	99	2.40	-0.04
	Sub Total (E)	1400	1160	1160	330	9.33	389	9.25	0.08
F. BBMB	Bhakra HPS	1497	817	1355	668	19.93	830	19.61	0.32
	Dehar HPS	990	536	660	470	13.17	549	12.86	0.31
	Pong HPS	396	289	372	252	6.70	279	6.93	-0.23
	Sub Total (F)	2883	1641	2387	1390	39.80	1658	39.39	0.41
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	60	73	1.63	68	1.53	0.09
	KWHEP HPS(IPP)	1000	0	874	380	11.82	492	12.47	-0.66
	Malana Stg-II HPS	100	0	108	0	1.01	42	0.97	0.04
	Shree Cement TPS	300	0	249	124	4.81	200	5.78	-0.98
	Budhil HPS(IPP)	70	0	35	35	0.82	34	0.84	-0.01
	Sub Total (G)	1662	0	1326	612	20.09	837	21.60	-1.51
H. Total Regional Entities (A-G)	22852	17590	17781	13533	320.40	13350	325.99	-5.59	

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	1060	1050	23.99	999	
	Guru Nanak Dev TPS(Bhatinda)	440	343	340	6.78	282	
	Guru Hargobind Singh TPS(L.mbt)	920	795	784	16.51	688	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2198	2174	47.27	1969	
	Total Hydro	1148	539	528	12.78	533	
	Total Punjab	3768	2737	2702	60.05	2502	
Haryana	Panipat TPS	1367	404	408	9.96	415	
	DCRTPP (Yamuna nagar)	600	259	259	5.93	247	
	Faridabad GPS (NTPC)	432	284	279	6.89	287	
	RGTPP (khedar) (IPP)	1200	494	485	12.39	516	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	744	744	18.79	783	
	Thermal (Total)	4944	2185	2175	53.96	2248	
	Total Hydro	62	12	13	0.54	22	
		Total Haryana	5006	2197	2188	54.50	2271
	Rajasthan	kota TPS	1240	735	936	19.73	822
suratgarh TPS		1500	766	769	18.41	767	
Chabra TPS		500	196	388	6.56	273	
Dholpur GPS		330	107	103	2.35	98	
Ramgarh GPS		111	24	27	0.36	15	
RAPS A (NPC)		300	168	168	4.01	167	
Barsingsar (NLC)		250	186	187	4.37	182	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	410	491	10.59	441	
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	2592	3069	66.37	2766	
Total Hydro		550	232	181	5.59	233	
Wind power		2191	515	316	10.44	435	
Biomass		91	27	27	0.64	27	
Solar		201	0	0	1.63	68	
Renewable/Others (Total)		2483	542	343	12.71	530	
		Total Rajasthan	9989	3366	3593	84.68	3528
UP		Anpara TPS	1630	1183	1179	29.00	1208
	Obra TPS	1288	401	385	9.10	379	
	Paricha TPS	1140	764	825	18.40	767	
	Panki TPS	210	63	72	1.20	50	
	Harduaganj TPS	665	367	365	8.80	367	
	Tanda TPS (NTPC)	440	296	295	7.31	305	
	Roza TPS (IPP)	1200	589	1067	22.40	933	
	Anpara-C (IPP)	1200	713	810	16.10	671	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	230	363	7.09	296	
	Thermal (Total)	8223	4606	5361	119.40	4975	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	180	255	4.25	177	
	Cogeneration	981	70	70	1.70	71	
		Total UP	10131	4856	5686	125.35	5223
Uttarakhand	Total Hydro	1303	769	774	18.34	764	
	Total Uttarakhand	1303	769	774	18.34	764	
Delhi	Rajghat TPS	135	37	43	0.83	34	
	Delhi Gas Turbine	282	160	157	3.76	157	
	Pragati Gas Turbine	330	265	141	4.38	182	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	505	505	11.22	467	
	Thermal (Total)	2232	967	846	20.18	841	
		Total Delhi	2232	967	846	20.18	841
HP	Baspa HPS (IPP)	330	519	0	4.36	182	
	Malana HPS (IPP)	86	49	41	1.02	43	
	Other Hydro	589	527	509	11.65	485	
		Total HP	1005	1095	550	17.03	710
J & K	Baglihar HPS (IPP)	450	438	436	10.48	437	
	Other Hydro	323	102	128	3.05	127	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	540	564	13.53	564
Total State Control Area Generation		34390	16527	16903	393.64	16402	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3598	5094	109.42	4559	
Total Regional Availability(Gross)		57242	37906	35530	823.46	34311	

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8877	4661	129.26	5386
State Control Area Hydro	5368	3367	2865	72.05	3002
Total Regional Hydro	15748	12244	7526	201.31	8388

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	50	5.94	0.45	5.48
Gwalior-Agra (D/C)	1212	1459	1728	0	35.81	0.00	35.81
Zerda-Kankroli	-79	-180	16	256	0.00	3.73	-3.73
Zerda-Bhinmal	-56	-172	79	283	0.00	3.52	-3.52
Malanpur-Auraiya	-70	-60	0	108	0.00	1.48	-1.48
Badod-Kota/Morak	20	-100	32	173	0.00	2.02	-2.02
Mundra-Mohindergarh(HVDC)	989	1051	1093	0	22.53	0.00	22.53
Sub Total WR	2316	2498			64.28	11.21	53.07
Pusauli Bypass	-100	-100	0	100	0.00	2.44	-2.44
MZP- GKP (D/C)	500	843	1050	0	19.87	0.00	19.87
Patna-Balia(D/C)	467	828	894	0	17.21	0.00	17.21
B'Sharif-Balia (D/C)	276	739	776	0	13.88	0.00	13.88
Pusauli-Balia	-22	125	134	22	1.61	0.00	1.61
Gaya-Fatehpur (765 Kv)	40	68	213	0	3.09	0.00	3.09
Pusauli-Sahupuri	158	129	196	0	4.01	0.00	4.01
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	37	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	1282	2596			59.66	3.31	56.35
Total IR Exch	3598	5094			123.94	14.52	109.42

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
35.28	2.20	37.48	-0.04	23.22	18.51	-0.03	2.87	-2.87

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
58.83	64.72	123.55	56.35	53.07	109.42	-2.48	-11.65	-14.13

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	0.10	65.00	0.50	64.90	85.10	35.00

<----- 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					
50.56	6.09	49.69	18.38	50.14	0.37	0.13	50.50	0.00

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	17:46	402	19:05	0.0	0.0	0.0	0.0
Gorakhpur	400	422	09:12	406	01:30	0.0	0.0	1.8	0.0
Barailly	400	421	17:39	404	14:39	0.0	0.0	0.1	0.0
Kanpur	400	414	00:46	411	00:18	0.0	0.0	0.0	0.0
Dadri	400	418	06:08	405	19:08	0.0	0.0	0.0	0.0
Ballabgarh	400	426	06:08	410	19:06	0.0	0.0	19.0	0.0
Bawana	400	424	06:20	409	19:06	0.0	0.0	4.4	0.0
Bassi	400	429	06:05	411	19:06	0.0	0.0	67.0	0.0
Hissar	400	413	06:05	399	00:00	0.0	0.0	0.0	0.0
Moga	400	413	06:04	400	19:03	0.0	0.0	0.0	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	417	06:06	405	12:11	0.0	0.0	0.0	0.0
Kishenpur	400	418	23:59	402	19:03	0.0	0.0	0.0	0.0
Wagoora	400	420	23:58	385	19:09	0.0	5.6	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	780	06:20	724	14:41	0.4	43.3	0.0	0.0
Balia	765	759	09:04	730	01:30	0.0	21.1	0.0	0.0
Moga	765	783	06:05	757	19:06	0.0	0.0	0.0	0.0
Agra	765	813	06:09	783	18:38	0.0	0.0	23.2	0.0
Bhiwani	765	801	06:05	774	19:06	0.0	0.0	0.2	0.0
Unnao	765	752	07:15	748	00:00	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	511.16	1605.30	505.18	1312.37	567.38	567.38
Pong	426.72	384.05	422.94	1035.89	263.40	372.90	422.59	1005.78
Tehri	829.79	740.04	824.55	1099.49	818.65	982.26	147.27	151.00
Koteshwar	612.50	598.50	608.20	4.96	NA	NA	138.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	152.52	122.62
Rihand	268.22	252.98	260.70	343.60	264.14	554.30	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	518.90	144.00	521.08	144.00	139.77	127.77

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 29.09.2013 :

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 : 29.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER