

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.09.2013
Date of Reporting : 29.09.2013

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
37926	2135	40061	50.22	36446	1250	37696	50.11	858.4	60.41

* 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	48.94	13.23		62.17	102.71	102.41	-0.30	164.58	0.00
Haryana	65.61	0.54		66.15	66.63	65.17	-1.46	131.32	0.52
Rajasthan	72.25	5.01	15.46	92.72	57.91	48.36	-9.55	141.08	0.00
Delhi	19.27			19.27	67.87	68.96	1.10	88.24	0.00
UP	125.76	4.87	1.70	132.33	115.67	112.82	-2.85	245.15	55.71
Uttarakhand		18.86		18.86	12.46	13.25	0.79	32.11	2.48
HP		17.94		17.94	6.46	4.97	-1.50	22.91	0.00
J & K		13.52	0.00	13.52	17.28	14.68	-2.60	28.20	1.70
Chandigarh				0.00	4.78	4.84	0.06	4.84	0.00
Total	331.84	73.97	17.16	422.96	451.76	435.46	-16.30	858.42	60.41

* 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	7188	0	-154	1804	7120	0	-43	2121	44.31	
Haryana	6006	0	-189	356	5635	0	59	226	2.63	
Rajasthan	6321	0	-409	788	6172	0	-144	32	11.52	
Delhi	4197	0	216	-192	3273	0	-156	-537	-7.47	
UP	9887	1880	-295	1039	11120	1250	127	1694	26.91	
Uttarakhand	1449	155	49	89	1284	0	72	36	2.39	
HP	1151	0	-296	-900	840	0	198	-544	-12.64	
J&K	1492	100	-12	-82	830	0	-172	-275	-2.38	
Chandigarh	235	0	-26	-10	173	0	3	-20	-0.24	
Total	37926	2135	-1116	2892	36446	1250	-57	2732	65.02	

* 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	1903	1861	2076	44.79	1866	44.83	-0.05
	Rihand I STPS	1000	920	942	1000	19.42	809	19.86	-0.44
	Rihand II STPS	1000	478	492	517	10.07	420	10.47	-0.40
	Rihand III STPS	500	473	457	513	10.53	439	10.40	0.14
	Dadri I STPS	840	600	632	588	12.95	540	13.78	-0.83
	Dadri II STPS	980	975	943	977	21.79	908	22.00	-0.21
	Unchahar I TPS	420	402	369	429	8.45	352	8.58	-0.13
	Unchahar II TPS	420	403	364	438	8.09	337	7.81	0.29
	Unchahar III TPS	210	199	170	219	3.95	165	3.83	0.13
	ISTPP (Jhajjar)	1500	1480	617	789	15.69	654	16.04	-0.35
	Dadri GPS	830	800	569	548	13.22	551	13.23	-0.01
	Anta GPS	419	399	249	247	6.00	250	6.12	-0.12
	Auraiya GPS	663	624	153	155	3.57	149	3.58	-0.01
	Sub Total (A)	10782	9655	7818	8496	178.54	7439	180.53	-1.99
B. NPC	NAPS	440	296	334	332	7.01	292	7.10	-0.09
	RAPS- B	440	323	442	444	9.39	391	7.75	1.64
	RAPS- C	440	412	466	465	9.92	413	9.89	0.03
	Sub Total (B)	1320	1031	1242	1241	26.32	1097	24.74	1.58
C. NHPC	Chamera I HPS	540	536	450	180	5.00	208	5.00	0.00
	Chamera II HPS	300	290	198	99	3.71	154	3.63	0.07
	Chamera III HPS	231	231	137	78	3.53	147	3.20	0.33
	Bairasuil HPS	180	182	120	20	1.58	66	1.45	0.12
	Salal-HPS	690	509	660	443	12.68	528	12.23	0.45
	Tanakpur-HPS	94	91	93	92	2.24	93	2.19	0.04
	Uri-HPS	480	236	249	240	5.46	228	5.47	0.00
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	405	402	9.04	377	9.27	-0.23
	Sewa-II HPS	120	119	82	0	0.60	25	0.61	0.00
	Sub Total (C)	3305	2582	2394	1554	43.82	1826	43.06	0.77
D. NJPC	Nathpa Jhakri	1500	1605	1613	763	23.41	975	23.47	-0.06
	Sub Total (D)	1500	1605	1613	763	23.41	975	23.47	-0.06
E. THDC	Tehri HPS	1000	1060	512	234	7.06	294	6.85	0.21
	Koteshwar HPS	400	100	100	100	2.39	100	2.40	-0.01
	Sub Total (E)	1400	1160	612	334	9.45	394	9.25	0.20
F. BBMB	Bhakra HPS	1497	850	1355	776	20.62	859	20.41	0.21
	Dehar HPS	990	460	825	305	11.26	469	11.05	0.21
	Pong HPS	396	272	372	126	67.00	2792	6.53	60.48
	Sub Total (F)	2883	1582	2552	1207	98.88	4120	37.98	60.90
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	101	48	1.64	68	1.53	0.10
	KWHEP HPS(IPP)	1000	0	900	399	12.45	519	12.46	-0.01
	Malana Stg-II HPS	100	0	107	0	1.25	52	1.21	0.03
	Shree Cement TPS	300	0	133	127	3.11	129	3.18	-0.07
	Budhil HPS(IPP)	70	0	34	35	0.82	34	0.84	-0.02
	Sub Total (G)	1662	0	1275	609	19.26	803	19.23	0.04
H. Total Regional Entities (A-G)	22852	17615	17506	14204	399.68	16653	338.25	61.44	

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	1050	1252	24.39	1016
	Guru Nanak Dev TPS(Bhatinda)	440	285	295	6.17	257
	Guru Hargobind Singh TPS(L.mbt)	920	747	955	18.37	766
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2082	2502	48.94	2039
	Total Hydro	1148	529	600	13.23	551
Total Punjab		3768	2611	3102	62.17	2590
Haryana	Panipat TPS	1367	434	420	10.17	424
	DCRTPP (Yamuna nagar)	600	571	409	9.54	398
	Faridabad GPS (NTPC)	432	323	281	7.25	302
	RGTPP (kheadar) (IPP)	1200	357	574	13.05	544
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	838	1049	25.60	1067
	Thermal (Total)	4944	2523	2733	65.61	2734
	Total Hydro	62	12	13	0.54	22
	Total Haryana	5006	2535	2746	66.15	2756
	Rajasthan	kota TPS	1240	921	939	22.24
suratgarh TPS		1500	845	761	18.46	769
Chabra TPS		500	405	452	9.43	393
Dholpur GPS		330	102	103	2.55	106
Ramgarh GPS		111	16	57	0.83	35
RAPS A (NPC)		300	168	168	4.01	167
Barsingsar (NLC)		250	186	183	4.33	180
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	642	719	10.41	434
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	3285	3382	72.25	3011
Total Hydro		550	206	220	5.01	209
Wind power		2191	395	518	13.23	551
Biomass		91	32	32	0.76	32
Solar		201	0	0	1.47	61
Renewable/Others (Total)		2483	427	550	15.46	644
Total Rajasthan		9989	3918	4152	92.72	3863
UP		Anpara TPS	1630	1203	1192	28.70
	Obra TPS	1288	420	428	10.20	425
	Paricha TPS	1140	860	825	19.60	817
	Panki TPS	210	77	72	1.80	75
	Harduaganj TPS	665	374	255	8.10	338
	Tanda TPS (NTPC)	440	295	295	7.33	306
	Roza TPS (IPP)	1200	860	972	23.84	993
	Anpara-C (IPP)	1200	810	779	17.81	742
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	300	351	8.38	349
	Thermal (Total)	8223	5199	5169	125.76	5240
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	146	255	4.87	203
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5415	5494	132.33	5514
Uttarakhand	Total Hydro	1303	833	779	18.86	786
	Total Uttarakhand	1303	833	779	18.86	786
Delhi	Rajghat TPS	135	47	43	0.79	33
	Delhi Gas Turbine	282	159	157	2.94	122
	Pragati Gas Turbine	330	140	269	4.20	175
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	550	570	11.35	473
	Thermal (Total)	2232	896	1039	19.27	803
Total Delhi	2232	896	1039	19.27	803	
HP	Baspa HPS (IPP)	330	343	0	4.56	190
	Malana HPS (IPP)	86	60	35	1.26	52
	Other Hydro	589	530	490	12.13	505
	Total HP	1005	933	525	17.94	747
J & K	Baglihar HPS (IPP)	450	438	436	10.47	436
	Other Hydro	323	102	128	3.05	127
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	540	564	13.52	564
Total State Control Area Generation		34390	17681	18401	422.96	17623
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4697	4214	104.20	4342
Total Regional Availability(Gross)		57242	39884	36819	926.84	38618

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8279	4305	190.89	7954
State Control Area Hydro	5368	3199	2956	73.97	3082
Total Regional Hydro	15748	11478	7261	264.86	11036

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	500	200	500	0	9.17	0.00	9.17
Gwalior-Agra (D/C)	1304	1632	1779	0	36.08	0.00	36.08
Zerda-Kankroli	-126	-138	0	289	0.00	3.89	-3.89
Zerda-Bhinmal	-114	-151	0	303	0.00	3.81	-3.81
Malanpur-Auraiya	-96	-32	0	99	0.00	1.28	-1.28
Badod-Kota/Morak	-51	-57	0	148	0.00	1.89	-1.89
Mundra-Mohindergarh(HVDC)	883	636	883	0	17.84	0.00	17.84
Sub Total WR	2300	2090			63.09	10.87	52.22
Pusauli Bypass	100	250	250	0	3.46	0.00	3.46
MZP- GKP (D/C)	692	582	750	0	14.38	0.00	14.38
Patna-Balia(D/C)	697	636	754	0	15.70	0.00	15.70
B'Sharif-Balia (D/C)	600	437	616	0	12.36	0.00	12.36
Pusauli-Balia	66	-7	103	42	0.89	0.00	0.89
Gaya-Fatehpur (765 Kv)	120	75	151	10	1.71	0.00	1.71
Pusauli-Sahupuri	159	187	200	0	4.35	0.00	4.35
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	2397	2124			52.85	0.87	51.98
Total IR Exch	4697	4214			115.94	11.74	104.20

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
39.06	2.28	41.34	0.06	29.60	19.07	0.00	4.10	-4.10

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
64.57	63.97	128.55	51.98	52.22	104.20	-12.59	-11.75	-24.35

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	0.31	87.12	3.10	86.80	93.37	12.88

<----- 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)
50.51	17.03	49.69	18.55	50.16	0.38	0.10	50.44	49.92

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	06:02	400	18:36	0.0	0.0	0.0	0.0
Gorakhpur	400	424	06:03	405	10:26	0.0	0.0	6.0	0.0
Bareilly	400	419	06:03	395	12:03	0.0	0.0	0.0	0.0
Kanpur	400	419	07:05	401	11:47	0.0	0.0	0.0	0.0
Dadri	400	416	07:05	399	11:46	0.0	0.0	0.0	0.0
Ballabgarh	400	424	06:01	405	12:15	0.0	0.0	15.2	0.0
Bawana	400	423	06:01	403	12:20	0.0	0.0	4.8	0.0
Bassi	400	428	04:01	407	11:46	0.0	0.0	24.6	0.0
Hissar	400	399	00:00	399	00:00	0.0	0.0	0.0	0.0
Moga	400	413	06:03	399	09:41	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	06:01	401	12:38	0.0	0.0	0.0	0.0
Kishenpur	400	425	06:02	401	18:54	0.0	0.0	15.7	0.0
Wagoora	400	429	03:29	376	20:25	0.9	11.7	25.2	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	770	21:29	719	10:22	6.0	43.3	0.0	0.0
Balia	765	764	06:04	728	23:32	0.0	44.4	0.0	0.0
Moga	765	787	06:02	754	11:48	0.0	0.0	0.0	0.0
Agra	765	813	09:05	772	18:54	0.0	0.0	13.2	0.0
Bhiwani	765	802	06:03	766	12:16	0.0	0.0	0.2	0.0
Unnao	765	761	00:00	743	16:27	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	511.18	1605.30	505.18	1312.37	492.09	585.76
Pong	426.72	384.05	422.98	1035.89	422.62	1020.81	174.43	275.52
Tehri	829.79	740.04	824.40	1095.25	818.65	982.26	146.70	153.00
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	148.26	150.02
Rihand	268.22	252.98	260.73	345.30	264.14	558.40	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	519.31	144.00	520.82	144.00	192.24	241.29

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 28.09.2013 :

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 : 28.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER