

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.08.2013
Date of Reporting : 01.09.2013

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
39405	2938	42343	50.04	37928	700	38628	50.26	913.3	38.43

* 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	49.45	21.00		70.45	119.30	120.29	0.99	190.74	0.00
Haryana	76.61	0.58		77.19	83.43	84.35	0.91	161.54	0.41
Rajasthan	87.93	7.91	18.51	114.35	54.56	51.52	-3.04	165.87	0.52
Delhi	23.58			23.58	70.57	68.22	-2.35	91.80	0.00
UP	98.47	3.41	1.00	102.88	115.85	110.04	-5.82	212.91	34.14
Uttarakhand		18.32		18.32	12.13	12.74	0.61	31.07	1.52
HP		23.97		23.97	0.55	0.21	-0.34	24.17	0.13
J & K		13.61	0.00	13.61	16.74	16.43	-0.31	30.03	1.70
Chandigarh				0.00	5.76	5.15	-0.61	5.15	0.00
Total	336.03	88.80	19.51	444.34	478.89	468.95	-9.95	913.29	38.43

* 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	8478	0	-23	1842	8036	0	130	1867	44.57	
Haryana	7147	225	93	589	6727	0	170	594	13.75	
Rajasthan	7002	256	28	-242	6833	0	-209	181	0.86	
Delhi	4216	0	49	254	3576	0	-17	124	4.00	
UP	8738	2100	-114	651	9450	700	-528	1650	21.66	
Uttarakhand	1233	250	92	-9	1231	0	-35	-117	-1.97	
HP	1086	7	-17	-1100	866	0	-49	-1244	-27.35	
J&K	1269	100	-136	-226	1031	0	-14	-471	-7.23	
Chandigarh	237	0	-36	0	178	0	-37	-20	-0.12	
Total	39405	2938	-62	1759	37928	700	-589	2564	48.16	

* 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	1833	1957	2027	43.55	1815	44.00	-0.45
	Rihand I STPS	1000	920	1004	877	20.31	846	20.73	-0.42
	Rihand II STPS	1000	500	602	516	11.57	482	11.35	0.22
	Rihand III STPS	500	162	0	431	3.35	140	3.65	-0.30
	Dadri I STPS	840	600	660	532	11.36	473	11.51	-0.15
	Dadri II STPS	980	975	978	728	19.39	808	19.71	-0.33
	Unchahar I TPS	420	391	430	380	7.37	307	7.55	-0.18
	Unchahar II TPS	420	404	423	309	7.46	311	7.61	-0.16
	Unchahar III TPS	210	201	215	154	3.68	153	3.75	-0.07
	ISTPP (Jhajjar)	1500	1480	469	316	8.79	366	8.43	0.36
	Dadri GPS	830	653	327	337	7.76	323	7.81	-0.05
	Anta GPS	419	393	244	232	5.56	232	5.71	-0.15
	Auraiya GPS	663	624	156	156	3.63	151	3.66	-0.03
	Sub Total (A)	10782	9136	7465	6995	153.76	6407	155.47	-1.71
B. NPC	NAPS	440	149	298	182	4.14	172	3.56	0.57
	RAPS- B	440	399	437	440	9.44	393	9.58	-0.14
	RAPS- C	440	400	461	466	9.79	408	9.60	0.19
	Sub Total (B)	1320	948	1196	1088	23.36	973	22.74	0.62
C. NHPC	Chamera I HPS	540	534	540	540	12.55	523	12.82	-0.27
	Chamera II HPS	300	300	303	306	7.25	302	7.21	0.04
	Chamera III HPS	231	231	232	227	2.01	84	5.56	-3.55
	Bairasuil HPS	180	179	80	120	2.40	100	2.91	-0.51
	Salal-HPS	690	665	668	667	15.96	665	15.96	0.00
	Tanakpur-HPS	94	84	64	93	2.01	84	2.02	0.00
	Uri-HPS	480	298	350	236	7.12	297	6.51	0.62
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	376	407	409	9.10	379	9.11	-0.01
	Sewa-II HPS	120	119	124	121	2.62	109	2.98	-0.36
	Sub Total (C)	3305	2787	2768	2719	61.03	2543	65.07	-4.05
	D. NJPC	Nathpa Jhakri	1500	1605	1624	1623	38.69	1612	38.51
Sub Total (D)		1500	1605	1624	1623	38.69	1612	38.51	0.18
E. THDC	Tehri HPS	1000	1060	1062	1049	25.31	1055	25.25	0.06
	Koteshwar HPS	400	381	387	381	8.25	344	8.25	0.00
Sub Total (E)	1400	1441	1449	1430	33.56	1398	33.50	0.06	
F. BBMB	Bhakra HPS	1497	1227	1331	1093	30.08	1253	29.44	0.64
	Dehar HPS	990	596	825	600	14.43	601	14.30	0.13
	Pong HPS	396	361	372	372	8.93	372	8.66	0.27
	Sub Total (F)	2883	2183	2528	2065	53.44	2227	52.40	1.04
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	300	118	5.14	214	2.90	2.24
	KWHEP HPS(IPP)	1000	0	1197	1198	28.42	1184	28.51	-0.09
	Malana Stg-II HPS	100	0	108	96	2.51	105	1.99	0.52
	Shree Cement TPS	300	0	120	119	2.76	115	2.85	-0.09
	Budhil HPS(IPP)	70	0	70	65	1.58	66	1.53	0.04
	Sub Total (G)	1662	0	1795	1596	40.40	1683	37.78	2.61
H. Total Regional Entities (A-G)	22852	18099	18825	17516	404.23	16843	405.47	-1.24	

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	1260	1220	25.20	1050
	Guru Nanak Dev TPS(Bhatinda)	440	205	205	4.15	173
	Guru Hargobind Singh TPS(L.mbt)	920	950	948	20.10	838
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2415	2373	49.45	2060
	Total Hydro	1148	905	901	21.00	875
	Total Punjab	3768	3320	3274	70.45	2935
Haryana	Panipat TPS	1367	863	855	20.97	874
	DCRTPP (Yamuna nagar)	600	279	281	6.35	265
	Faridabad GPS (NTPC)	432	289	280	6.84	285
	RGTPP (khedar) (IPP)	1200	987	861	23.05	961
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	774	820	19.40	808
	Thermal (Total)	4944	3192	3097	76.61	3192
	Total Hydro	62	22	26	0.58	24
	Total Haryana	5006	3214	3123	77.19	3216
	Rajasthan	kota TPS	1240	859	796	19.97
suratgarh TPS		1500	1093	934	23.67	986
Chabra TPS		500	227	196	4.97	207
Dholpur GPS		330	49	119	2.97	124
Ramgarh GPS		111	56	57	1.46	61
RAPS A (NPC)		300	165	180	3.98	166
Barsingsar (NLC)		250	91	91	2.11	88
Giral LTPS		250	0	48	0.83	35
Rajwest LTPS (IPP)		1080	651	549	15.08	628
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	611	445	12.89	537
Thermal (Total)		6956	3802	3415	87.93	3664
Total Hydro		550	351	389	7.91	330
Wind power		2191	544	642	16.72	697
Biomass		91	35	35	0.83	35
Solar		201	0	0	0.96	40
Renewable/Others (Total)		2483	579	677	18.51	771
Total Rajasthan		9989	4732	4481	114.35	4764
UP		Anpara TPS	1630	1238	1129	28.20
	Obra TPS	1288	178	149	4.20	175
	Paricha TPS	1140	525	510	12.40	517
	Panki TPS	210	131	131	3.00	125
	Harduaganj TPS	665	345	34	8.50	354
	Tanda TPS (NTPC)	440	366	393	9.26	386
	Roza TPS (IPP)	1200	374	554	12.67	528
	Anpara-C (IPP)	1200	734	654	15.73	655
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	198	173	4.51	188
	Thermal (Total)	8223	4089	3727	98.47	4103
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	176	111	3.41	142
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	4305	3878	102.88	4287
	Uttarakhand	Total Hydro	1303	582	788	18.32
Total Uttarakhand		1303	582	788	18.32	763
Delhi	Raighat TPS	135	47	31	0.96	40
	Delhi Gas Turbine	282	77	77	1.76	73
	Pragati Gas Turbine	330	272	263	6.45	269
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	242	204	5.06	211
	Badarpur TPS (NTPC)	705	435	425	9.35	389
	Thermal (Total)	2232	1073	1000	23.58	983
	Total Delhi	2232	1073	1000	23.58	983
HP	Baspa HPS (IPP)	330	330	330	7.88	328
	Malana HPS (IPP)	86	70	56	1.45	60
	Other Hydro	589	612	618	14.64	610
	Total HP	1005	1012	1004	23.97	999
J & K	Baglihar HPS (IPP)	450	436	438	10.47	436
	Other Hydro	323	132	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	568	566	13.61	567
Total State Control Area Generation		34390	18806	18114	444.34	18514
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3350	2706	66.79	2783
Total Regional Availability(Gross)		57242	40981	38336	915.37	38140

IV. Total Hydro Generation:

Regional Entities Hydro	10380	9974	9249	222.78	9282
State Control Area Hydro	5368	3616	3785	88.80	3700
Total Regional Hydro	15748	13590	13034	311.58	12982

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	50	0	50	500	0.32	4.73	-4.42
Gwalior-Agra (D/C)	1432	1214	1520	0	30.42	0.00	30.42
Zerda-Kankroli	-152	-177	0	303	0.00	4.51	-4.51
Zerda-Bhinmal	-103	-129	4	286	0.00	3.27	-3.27
Malanpur-Auraiya	-97	-16	0	97	0.00	0.59	-0.59
Badod-Kota/Morak	-44	4	24	106	0.00	0.83	-0.83
Mundra-Mohindergarh(HVDC)	1000	982	1000	0	23.51	0.00	23.51
Sub Total WR	2086	1878			54.24	13.94	40.31
Pusauli Bypass	-114	-220	0	273	0.00	3.47	-3.47
MZP- GKP (D/C)	538	427	626	0	12.52	0.00	12.52
Patna-Balia(D/C)	331	282	455	0	7.48	0.00	7.48
B'Sharif-Balia (D/C)	268	222	369	0	5.91	0.00	5.91
Pusauli-Balia	21	27	71	0	0.64	0.00	0.64
Gaya-Fatehpur (765 Kv)	141	-14	149	33	1.33	0.00	1.33
Pusauli-Sahupuri	114	142	149	0	2.88	0.00	2.88
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-38	0	45	0.00	0.80	-0.80
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	1264	828			30.75	4.27	26.48
Total IR Exch	3350	2706			85.00	18.21	66.79

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
24.90	3.73	28.63	-8.95	38.69	-1.34	-13.78	2.88	-2.88

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
21.22	67.65	88.86	26.48	40.31	66.79	5.27	-27.34	-22.07

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	0.80	80.90	0.70	80.10	71.30	19.10

<----- 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	Hz	Index			
50.46	17.06	49.60	19.14	50.08	0.24	0.13	50.42	49.85

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	415	17:05	406	13:46	0.0	0.0	0.0	0.0
Gorakhpur	400	428	17:06	414	23:09	0.0	0.0	72.5	0.0
Barailly	400	422	08:02	405	19:15	0.0	0.0	0.4	0.0
Kanpur	400	424	04:02	407	19:12	0.0	0.0	15.0	0.0
Dadri	400	419	07:39	403	13:46	0.0	0.0	0.0	0.0
Ballabgarh	400	426	03:03	407	19:14	0.0	0.0	27.1	0.0
Bawana	400	418	04:00	402	12:53	0.0	0.0	0.0	0.0
Bassi	400	428	03:59	404	09:37	0.0	0.0	12.2	0.0
Hissar	400	408	03:03	394	14:35	0.0	0.0	0.0	0.0
Moga	400	410	03:03	396	09:36	0.0	0.0	0.0	0.0
Abdullapur	400	410	03:02	399	12:40	0.0	0.0	0.0	0.0
Nalagarh	400	411	04:00	397	14:40	0.0	0.0	0.0	0.0
Kishenpur	400	416	03:03	403	19:10	0.0	0.0	0.0	0.0
Wagoora	400	417	03:01	396	06:53	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	775	04:37	742	19:18	0.0	0.0	0.0	0.0
Balia	765	768	08:05	740	23:04	0.0	1.5	0.0	0.0
Moga	765	775	04:01	740	09:36	0.0	2.2	0.0	0.0
Agra	765	805	04:01	740	13:28	0.0	0.0	5.0	0.0
Bhiwani	765	793	04:02	759	19:14	0.0	0.0	0.0	0.0
Unnao	765	761	08:04	736	23:16	0.0	9.1	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	510.50	1575.10	497.41	994.96	1103.36	882.95
Pong	426.72	384.05	422.61	1020.81	417.21	768.49	843.13	388.22
Tehri	829.79	740.04	820.20	1003.00	818.65	982.26	458.97	563.00
Koteshwar	612.50	598.50	609.45	4.30	NA	NA	563.00	540.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	285.67	344.61
Rihand	268.22	252.98	259.96	302.90	262.13	426.50	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	524.00	144.00	511.20	144.00	389.36	408.61

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 31.08.2013 :

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 expected by Dec, 2013 and Dhauliganaga expected by March, 2014.

Report for : 31.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER