

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.09.2013

Date of Reporting : 25.09.2013

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
38424	2200	40624	50.25	35982	1225	37207	50.04	868.9	58.92

* 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	46.37	16.00		62.36	102.47	101.17	-1.30	163.54	0.00
Haryana	53.92	0.65		54.57	61.62	61.09	-0.52	115.66	0.05
Rajasthan	84.98	7.77	8.01	100.77	61.08	50.86	-10.22	151.63	0.00
Delhi	27.83			27.83	70.20	68.53	-1.67	96.36	0.00
UP	117.27	5.51	1.70	124.48	124.49	123.22	-1.27	247.70	55.23
Uttarakhand		19.42		19.42	12.83	14.35	1.51	33.77	1.94
HP		17.66		17.66	6.74	6.37	-0.37	24.04	0.00
J & K		13.60	0.00	13.60	17.85	17.83	-0.02	31.43	1.70
Chandigarh				0.00	5.01	4.81	-0.19	4.81	0.00
Total	330.38	80.61	9.71	420.70	462.29	448.24	-14.05	868.94	58.92

* 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	6806	0	-12	1778	6845	0	-112	2154	47.97	
Haryana	5673	0	-87	118	4568	0	-121	252	2.57	
Rajasthan	6867	0	-241	897	6401	0	-408	824	17.70	
Delhi	4463	0	-112	-40	3529	0	-50	-583	-4.58	
UP	10399	1950	-299	1312	11177	1225	-114	2202	33.89	
Uttarakhand	1538	150	126	21	1345	0	58	35	1.88	
HP	1073	0	40	-907	857	0	28	-596	-12.17	
J&K	1380	100	-135	-82	1097	0	21	-275	-2.40	
Chandigarh	226	0	-12	-25	162	0	-3	-20	0.12	
Total	38424	2200	-732	3070	35982	1225	-700	3992	84.99	

* 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	1695	1692	1873	39.30	1637	39.16	0.14
	Rihand I STPS	1000	920	1002	1009	21.08	878	20.76	0.32
	Rihand II STPS	1000	478	518	516	11.13	464	10.68	0.45
	Rihand III STPS	500	467	490	450	10.69	445	10.66	0.03
	Dadri I STPS	840	566	623	397	12.67	528	12.95	-0.28
	Dadri II STPS	980	825	941	0	17.41	725	18.25	-0.84
	Unchahar I TPS	420	402	345	428	8.88	370	9.06	-0.18
	Unchahar II TPS	420	403	377	439	8.28	345	8.39	-0.11
	Unchahar III TPS	210	199	181	155	3.94	164	4.01	-0.07
	ISTPP (Jhajjar)	1500	1480	332	637	14.89	620	14.83	0.06
	Dadri GPs	830	792	745	581	16.41	684	16.48	-0.07
	Anta GPs	419	399	0	0	0.00	0	0.00	0.00
	Auraiya GPs	663	624	152	155	3.56	148	3.61	-0.05
	Sub Total (A)	10782	9249	7398	6640	168.22	7009	168.84	-0.61
	B. NPC	NAPS	440	296	328	330	6.98	291	7.10
RAPS- B		440	0	0	0	0.00	0	0.00	0.00
RAPS- C		440	412	466	467	9.92	413	9.89	0.03
Sub Total (B)		1320	708	794	797	16.90	704	16.99	-0.09
C. NHPC	Chamera I HPS	540	535	360	360	5.54	231	5.50	0.04
	Chamera II HPS	300	300	302	101	3.97	165	3.90	0.06
	Chamera III HPS	231	231	210	88	2.79	116	2.84	-0.05
	Bairasuil HPS	180	182	120	60	1.34	56	1.30	0.05
	Salal-HPS	690	504	466	530	12.15	506	12.01	0.14
	Tanakpur-HPS	94	94	92	93	2.22	92	2.19	0.02
	Uri-HPS	480	293	252	304	6.72	280	6.88	-0.15
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	355	406	9.29	387	9.22	0.07
	Sewa-II HPS	120	119	122	0	0.57	24	0.54	0.03
	Sub Total (C)	3305	2645	2279	1942	44.59	1858	44.38	0.22
D. NJPC	Nathpa Jhakri	1500	1605	1182	915	24.52	1022	24.27	0.25
	Sub Total (D)	1500	1605	1182	915	24.52	1022	24.27	0.25
E. THDC	Tehri HPS	1000	1060	522	463	6.35	264	6.25	0.10
	Koteshwar HPS	400	100	101	100	2.40	100	2.40	0.00
Sub Total (E)	1400	1160	623	563	8.75	364	8.65	0.10	
F. BBMB	Bhakra HPS	1497	893	1353	638	22.56	940	21.44	1.12
	Dehar HPS	990	458	660	435	10.97	457	10.99	-0.01
	Pong HPS	396	355	372	312	8.77	365	8.53	0.24
	Sub Total (F)	2883	1706	2385	1385	42.30	1763	40.96	1.35
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	55	55	1.70	71	1.52	0.19
	KWHEP HPS(IPP)	1000	0	748	500	13.11	546	12.66	0.46
	Malana Stg-II HPS	100	0	108	41	1.17	49	1.06	0.11
	Shree Cement TPS	300	0	265	277	6.36	265	6.36	0.00
	Budhil HPS(IPP)	70	0	70	26	0.87	36	0.86	0.01
	Sub Total (G)	1662	0	1246	899	23.22	968	22.45	0.77
H. Total Regional Entities (A-G)	22852	17073	15907	13141	328.50	13687	326.53	1.97	

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	850	1060	22.78	949
	Guru Nanak Dev TPS(Bhatinda)	440	200	295	6.07	253
	Guru Hargobind Singh TPS(L.mbt)	920	776	860	17.52	730
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1826	2215	46.37	1932
	Total Hydro	1148	693	680	16.00	667
Total Punjab	3768	2519	2895	62.36	2598	
Haryana	Panipat TPS	1367	399	392	9.77	407
	DCRTPP (Yamuna nagar)	600	253	252	5.97	249
	Faridabad GPS (NTPC)	432	292	284	6.95	290
	RGTPP (khedar) (IPP)	1200	489	407	11.03	460
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1059	721	20.20	842
	Thermal (Total)	4944	2492	2056	53.92	2247
	Total Hydro	62	16	16	0.65	27
	Total Haryana	5006	2508	2072	54.57	2274
	Rajasthan	kota TPS	1240	943	894	21.66
suratgarh TPS		1500	1076	751	23.35	973
Chabra TPS		500	53	198	3.86	161
Dholpur GPS		330	73	49	1.64	68
Ramgarh GPS		111	54	56	1.46	61
RAPS A (NPC)		300	168	168	4.20	175
Barsingsar (NLC)		250	76	72	1.65	69
Giral LTPS		250	33	30	0.43	18
Rajwest LTPS (IPP)		1080	702	703	15.90	663
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	434	467	10.84	452
Thermal (Total)		6956	3612	3388	84.98	3541
Total Hydro		550	337	348	7.77	324
Wind power		2191	366	240	5.44	227
Biomass		91	31	31	0.76	32
Solar		201	0	0	1.82	76
Renewable/Others (Total)		2483	397	271	8.01	334
Total Rajasthan		9989	4346	4007	100.77	4199
UP		Anpara TPS	1630	1198	1194	28.50
	Obra TPS	1288	383	437	10.20	425
	Paricha TPS	1140	604	608	14.50	604
	Panki TPS	210	81	59	1.70	71
	Harduaganj TPS	665	375	277	8.00	333
	Tanda TPS (NTPC)	440	295	298	7.37	307
	Roza TPS (IPP)	1200	797	810	19.19	800
	Anpara-C (IPP)	1200	808	824	19.19	800
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	364	365	8.62	359
	Thermal (Total)	8223	4905	4872	117.27	4886
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	234	256	5.51	229
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5209	5198	124.48	5187
Uttarakhand	Total Hydro	1303	829	801	19.42	809
	Total Uttarakhand	1303	829	801	19.42	809
Delhi	Raighat TPS	135	83	45	1.30	54
	Delhi Gas Turbine	282	156	81	2.99	125
	Pragati Gas Turbine	330	295	139	5.73	239
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	231	241	5.93	247
	Badarpur TPS (NTPC)	705	550	485	11.89	495
	Thermal (Total)	2232	1315	991	27.83	1160
Total Delhi	2232	1315	991	27.83	1160	
HP	Baspa HPS (IPP)	330	252	181	11.74	489
	Malana HPS (IPP)	86	107	7	1.11	46
	Other Hydro	589	307	521	4.81	200
	Total HP	1005	666	709	17.66	736
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436
	Other Hydro	323	126	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	562	564	13.60	567
Total State Control Area Generation		34390	17954	17237	420.70	17529
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5550	6443	139.83	5826
Total Regional Availability(Gross)		57242	39411	36821	889.03	37043

IV. Total Hydro Generation:

Regional Entities Hydro	10380	7380	5401	136.15	5673
State Control Area Hydro	5368	3337	3374	80.61	3359
Total Regional Hydro	15748	10717	8775	216.75	9031

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	500	500	0	12.04	0.00	12.04
Gwalior-Agra (D/C)	1719	2073	2421	0	43.53	0.00	43.53
Zerda-Kankroli	-39	-3	31	189	0.00	1.61	-1.61
Zerda-Bhinmal	-52	29	112	175	0.00	0.68	-0.68
Malanpur-Auraiya	-49	4	4	49	0.00	0.19	-0.19
Badod-Kota/Morak	29	12	29	63	0.00	0.52	-0.52
Mundra-Mohindergarh(HVDC)	1432	1162	1434	0	28.81	0.00	28.81
Sub Total WR	3540	3777			84.38	3.00	81.38
Pusauli Bypass	-89	-45	0	304	0.72	2.53	-1.81
MZP- GKP (D/C)	622	782	918	0	18.85	0.00	18.85
Patna-Balia(D/C)	682	843	918	0	18.64	0.00	18.64
B'Sharif-Balia (D/C)	502	670	976	0	16.79	0.00	16.79
Pusauli-Balia	101	141	184	0	2.88	0.00	2.88
Gaya-Fatehpur (765 Kv)	77	149	213	339	0.44	0.00	0.44
Pusauli-Sahupuri	152	162	179	0	3.30	0.00	3.30
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	37	0.00	0.64	-0.64
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	2010	2666			61.62	3.17	58.45
Total IR Exch	5550	6443			146.00	6.17	139.83

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
34.96	2.84	37.80	-0.74	32.42	12.40	22.03	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
53.55	93.12	146.68	58.45	81.38	139.83	4.89	-11.74	-6.84

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	0.40	92.80	0.80	92.40	65.10	7.20

<----- 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	14.19	49.61	5.48	50.04	0.13	0.11	50.28	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	406	06:28	401	00:08	0.0	0.0	0.0	0.0
Gorakhpur	400	426	06:49	401	12:40	0.0	0.0	8.1	0.0
Bareilly	400	418	06:57	395	12:40	0.0	0.0	0.0	0.0
Kanpur	400	421	07:00	401	23:17	0.0	0.0	0.3	0.0
Dadri	400	420	02:34	399	12:34	0.0	0.0	0.0	0.0
Ballabgarh	400	427	02:33	404	12:39	0.0	0.0	13.1	0.0
Bawana	400	421	02:36	402	12:40	0.0	0.0	0.8	0.0
Bassi	400	434	02:33	405	19:08	0.0	0.0	20.7	0.0
Hissar	400	412	02:33	390	12:30	0.0	0.0	0.0	0.0
Moga	400	412	02:33	394	09:32	0.0	0.0	0.0	0.0
Abdullapur	400	421	07:00	408	13:00	0.0	0.0	0.0	0.0
Nalagarh	400	416	02:34	402	12:12	0.0	0.0	0.0	0.0
Kishenpur	400	421	17:19	405	09:21	0.0	0.0	0.6	0.0
Wagoora	400	421	17:19	396	18:57	0.0	0.0	0.1	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	758	18:16	736	12:40	0.0	12.3	0.0	0.0
Balia	765	779	07:01	722	12:40	8.5	53.7	0.0	0.0
Moga	765	781	02:33	752	09:33	0.0	0.0	0.0	0.0
Agra	765	813	02:33	771	05:48	0.0	0.0	2.0	0.0
Bhiwani	765	786	07:00	765	15:00	0.0	0.0	0.0	0.0
Unnao	765	761	07:09	742	01:26	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	511.35	1620.46	505.24	1325.82	548.98	664.71
Pong	426.72	384.05	423.20	1035.89	422.54	1005.78	165.89	485.01
Tehri	829.79	740.04	823.70	1080.00	818.65	982.26	158.70	138.00
Koteswar	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	260.79	348.70	264.20	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 24.09.2013 :

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 : 24.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER