

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.09.2013
Date of Reporting : 23.09.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
37009	2340	39349	50.15	34548	680	35228	50.13	833.8	51.11

* 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	52.72	17.15		69.86	105.55	106.22	0.67	176.09	0.00
Haryana	50.65	0.55		51.19	53.92	53.77	-0.14	104.97	0.09
Rajasthan	84.19	2.05	8.14	94.38	65.97	58.48	-7.49	152.86	0.00
Delhi	25.50			25.50	53.61	53.27	-0.34	78.77	0.14
UP	116.33	4.58	1.70	122.61	111.25	109.86	-1.39	232.48	48.70
Uttarakhand		16.70		16.70	12.96	14.14	1.18	30.83	0.48
HP		18.12		18.12	5.56	4.58	-0.98	22.70	0.00
J & K		13.60	0.00	13.60	17.64	17.70	0.06	31.30	1.70
Chandigarh				0.00	4.28	3.81	-0.47	3.81	0.00
Total	329.38	72.75	9.84	411.97	430.72	421.83	-8.89	833.80	51.11

* 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	7384	0	11	1636	7509	0	4	1965	43.68	
Haryana	4981	0	-363	303	4143	0	-4	-352	-1.08	
Rajasthan	6836	0	-377	918	6441	0	-94	938	24.96	
Delhi	3923	5	-61	-268	2682	0	-110	-565	-8.23	
UP	9694	2155	-278	1133	10441	680	-200	1967	26.44	
Uttarakhand	1447	80	-27	5	1240	0	-67	59	2.70	
HP	1001	0	-251	-538	851	0	67	-326	-8.32	
J&K	1540	100	17	-82	1101	0	-77	-174	-1.84	
Chandigarh	203	0	-19	-25	141	0	-36	0	-0.07	
Total	37009	2340	-1348	3083	34548	680	-517	3512	78.24	

* 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	1870	1873	40.91	1705	40.97	-0.05
	Rihand I STPS	1000	920	911	978	19.50	813	20.97	-1.46
	Rihand II STPS	1000	478	481	504	10.75	448	10.85	-0.10
	Rihand III STPS	500	485	367	364	9.69	404	10.50	-0.81
	Dadri I STPS	840	600	434	473	10.13	422	10.20	-0.07
	Dadri II STPS	980	975	910	717	17.45	727	17.72	-0.27
	Unchahar I TPS	420	395	342	358	8.35	348	8.49	-0.14
	Unchahar II TPS	420	403	320	314	7.51	313	7.69	-0.18
	Unchahar III TPS	210	199	153	153	3.63	151	3.69	-0.05
	ISTPP (Jhajjar)	1500	1480	633	648	14.00	583	14.21	-0.21
	Dadri GPS	830	795	571	568	13.22	551	13.57	-0.35
	Anta GPS	419	399	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	624	301	311	7.18	299	7.22	-0.04
	Sub Total (A)	10782	9492	7293	7261	162.34	6764	166.08	-3.74
B. NPC	NAPS	440	296	329	333	7.03	293	7.10	-0.07
	RAPS- B	440	193	215	220	4.68	195	4.63	0.05
	RAPS- C	440	410	461	463	9.87	411	9.84	0.03
	Sub Total (B)	1320	899	1005	1016	21.58	899	21.57	0.00
C. NHPC	Chamera I HPS	540	535	540	360	4.84	201	4.90	-0.07
	Chamera II HPS	300	300	301	298	4.44	185	4.43	0.01
	Chamera III HPS	231	231	154	148	2.86	119	2.99	-0.13
	Bairasuil HPS	180	182	120	120	1.51	63	1.57	-0.06
	Salal-HPS	690	490	477	480	11.10	462	11.40	-0.30
	Tanakpur-HPS	94	94	94	93	2.25	94	2.24	0.00
	Uri-HPS	480	304	256	323	7.57	315	7.80	-0.23
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	410	402	9.22	384	9.37	-0.16
	Sewa-II HPS	120	119	124	0	0.69	29	0.68	0.01
	Sub Total (C)	3305	2642	2476	2224	44.46	1853	45.38	-0.92
D. NJPC	Nathpa Jhakri	1500	690	1361	0	11.57	482	11.01	0.56
	Sub Total (D)	1500	690	1361	0	11.57	482	11.01	0.56
E. THDC	Tehri HPS	1000	1060	1049	462	6.95	289	6.75	0.20
	Koteshwar HPS	400	100	101	101	2.38	99	2.40	-0.02
	Sub Total (E)	1400	1160	1150	563	9.33	389	9.15	0.18
F. BBMB	Bhakra HPS	1497	830	1325	627	20.91	871	19.92	1.00
	Dehar HPS	990	476	660	420	11.36	473	11.42	-0.06
	Pong HPS	396	316	372	186	7.76	323	7.57	0.19
	Sub Total (F)	2883	1621	2357	1233	40.03	1668	38.91	1.12
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	65	63	1.59	66	1.53	0.05
	KWHEP HPS(IPP)	1000	0	650	0	6.53	272	3.87	2.67
	Malana Stg-II HPS	100	0	107	35	1.10	46	1.01	0.08
	Shree Cement TPS	300	0	263	253	6.13	256	6.34	-0.21
	Budhil HPS(IPP)	70	0	35	35	0.82	34	0.81	0.01
	Sub Total (G)	1662	0	1120	386	16.17	674	13.57	2.60
H. Total Regional Entities (A-G)	22852	16504	16762	12683	305.48	12728	305.67	-0.20	

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	1055	1160	25.59	1066
	Guru Nanak Dev TPS(Bhatinda)	440	295	330	6.76	282
	Guru Hargobind Singh TPS(L.mbt)	920	826	954	20.37	849
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2176	2444	52.72	2197
	Total Hydro	1148	670	752	17.15	714
Total Punjab		3768	2846	3196	69.86	2911
Haryana	Panipat TPS	1367	409	417	9.91	413
	DCRTPP (Yamuna nagar)	600	248	250	5.86	244
	Faridabad GPS (NTPC)	432	286	283	6.91	288
	RGTPP (khedar) (IPP)	1200	409	408	10.28	428
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	744	744	17.69	737
	Thermal (Total)	4944	2096	2102	50.65	2110
	Total Hydro	62	9	12	0.55	23
	Total Haryana	5006	2105	2114	51.19	2133
	Rajasthan	kota TPS	1240	889	944	21.88
suratgarh TPS		1500	739	608	15.46	644
Chabra TPS		500	388	390	10.12	422
Dholpur GPS		330	80	80	1.92	80
Ramgarh GPS		111	52	26	0.82	34
RAPS A (NPC)		300	180	180	4.45	185
Barsingsar (NLC)		250	76	76	1.66	69
Giral LTPS		250	0	69	0.55	23
Rajwest LTPS (IPP)		1080	581	810	15.84	660
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	452	444	11.49	479
Thermal (Total)		6956	3437	3627	84.19	3508
Total Hydro		550	113	24	2.05	86
Wind power		2191	416	159	6.17	257
Biomass		91	23	23	0.56	23
Solar		201	0	0	1.41	59
Renewable/Others (Total)		2483	439	182	8.14	339
Total Rajasthan		9989	3989	3833	94.38	3932
UP		Anpara TPS	1630	1192	1107	28.00
	Obra TPS	1288	417	373	9.90	413
	Paricha TPS	1140	697	639	15.20	633
	Panki TPS	210	131	144	3.20	133
	Harduaganj TPS	665	384	382	9.30	388
	Tanda TPS (NTPC)	440	296	296	7.33	305
	Roza TPS (IPP)	1200	810	801	18.67	778
	Anpara-C (IPP)	1200	784	674	16.63	693
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	364	255	8.11	338
	Thermal (Total)	8223	5075	4671	116.33	4847
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	159	161	4.58	191
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5304	4902	122.61	5109
	Uttarakhand	Total Hydro	1303	783	790	16.70
Total Uttarakhand		1303	783	790	16.70	696
Delhi	Raighat TPS	135	44	85	1.07	45
	Delhi Gas Turbine	282	81	82	1.90	79
	Pragati Gas Turbine	330	260	262	6.37	266
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	282	213	5.63	234
	Badarpur TPS (NTPC)	705	510	485	10.53	439
	Thermal (Total)	2232	1177	1127	25.50	1062
Total Delhi	2232	1177	1127	25.50	1062	
HP	Baspa HPS (IPP)	330	175	144	4.56	190
	Malana HPS (IPP)	86	67	41	1.02	42
	Other Hydro	589	526	525	12.55	523
	Total HP	1005	768	710	18.12	755
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	17534	17236	411.97	17165
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5077	5297	126.24	5260
Total Regional Availability(Gross)		57242	39373	35216	843.69	35154

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8166	4118	114.61	4775
State Control Area Hydro	5368	3064	3013	72.75	3031
Total Regional Hydro	15748	11230	7131	187.36	7807

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	250	500	0	9.41	0.00	9.41
Gwalior-Agra (D/C)	1459	1752	1874	0	38.18	0.00	38.18
Zerda-Kankroli	-4	-142	69	225	0.00	2.17	-2.17
Zerda-Bhinmal	46	-103	166	197	0.00	0.85	-0.85
Malanpur-Auraiya	-67	-32	0	86	0.00	1.36	-1.36
Badod-Kota/Morak	24	1	86	40	0.67	0.00	0.67
Mundra-Mohindergarh(HVDC)	1034	1036	1435	0	27.42	0.00	27.42
Sub Total WR	2792	2762			75.69	4.38	71.31
Pusauli Bypass	-106	-143	0	226	0.03	2.64	-2.61
MZP- GKP (D/C)	685	750	805	0	17.29	0.00	17.29
Patna-Balia(D/C)	694	837	848	0	17.31	0.00	17.31
B'Sharif-Balia (D/C)	620	718	722	0	14.09	0.00	14.09
Pusauli-Balia	125	153	157	0	2.47	0.00	2.47
Gaya-Fatehpur (765 Kv)	155	113	259	0	3.55	0.00	3.55
Pusauli-Sahupuri	149	143	173	0	3.48	0.00	3.48
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	2285	2535			58.22	3.28	54.94
Total IR Exch	5077	5297			133.90	7.66	126.24

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
34.22	2.80	37.03	3.21	38.31	11.65	14.56	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
55.99	82.91	138.89	54.94	71.31	126.24	-1.05	-11.60	-12.65

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	79.50	1.80	79.40	74.00	20.50

<----- 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)
50.57	15.06	49.70	18.38	50.09	0.30	0.14	50.54	49.93

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	16:20	406	03:22	0.0	0.0	0.0	0.0
Gorakhpur	400	426	16:08	407	23:24	0.0	0.0	11.0	0.0
Barailly	400	423	08:02	394	19:44	0.0	0.0	2.5	0.0
Kanpur	400	425	16:03	405	19:12	0.0	0.0	2.2	0.0
Dadri	400	421	04:02	407	19:12	0.0	0.0	0.2	0.0
Ballabgarh	400	428	04:01	411	19:12	0.0	0.0	60.7	0.0
Bawana	400	426	04:02	409	19:13	0.0	0.0	53.9	0.0
Bassi	400	428	04:01	408	19:14	0.0	0.0	27.4	0.0
Hissar	400	414	04:01	397	19:09	0.0	0.0	0.0	0.0
Moga	400	410	23:57	396	19:04	0.0	0.0	0.0	0.0
Abdullapur	400	425	04:00	410	12:00	0.0	0.0	0.0	0.0
Nalagarh	400	421	00:14	405	18:37	0.0	0.0	0.2	0.0
Kishenpur	400	416	04:01	402	19:12	0.0	0.0	0.0	0.0
Wagoora	400	416	00:00	395	19:12	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	776	16:10	732	19:14	0.0	6.3	0.0	0.0
Balia	765	769	16:12	726	23:14	0.2	36.8	0.0	0.0
Moga	765	782	04:02	754	19:12	0.0	0.0	0.0	0.0
Agra	765	816	16:03	753	19:44	0.0	0.0	37.8	0.0
Bhiwani	765	422	15:00	415	01:00	0.0	0.0	0.0	0.0
Unnao	765	781	16:11	739	19:05	0.0	5.0	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	511.47	1620.46	505.04	1312.37	595.81	606.83
Pong	426.72	384.05	423.43	1051.02	422.47	1005.78	168.17	429.31
Tehri	829.79	740.04	823.20	1070.00	818.65	982.26	184.93	151.00
Koteshwar	612.50	598.50	611.00	5.10	NA	NA	151.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	149.56	131.09
Rihand	268.22	252.98	NA	NA	263.50	512.00	NA	NA
RPS	352.80	343.81	352.74	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.70	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.90	144.00	516.82	144.00	165.60	185.62

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 22.09.2013 :

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 : 22.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER