

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.09.2013

Date of Reporting : 21.09.2013

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
40232	2030	42262	50.24	39512	1350	40862	50.08	934.7	44.75

* 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	55.54	17.63		73.18	95.97	95.56	-0.41	168.74	0.00
Haryana	88.08	0.63		88.71	73.31	72.51	-0.80	161.22	0.10
Rajasthan	93.34	0.65	7.78	101.76	86.58	79.67	-6.91	181.43	0.00
Delhi	32.62			32.62	65.78	62.93	-2.85	95.55	0.24
UP	122.98	3.50	1.00	127.48	112.80	107.43	-5.37	234.91	40.89
Uttarakhand		15.62		15.62	13.20	15.79	2.60	31.42	1.55
HP		17.36		17.36	6.06	6.97	0.91	24.33	0.27
J & K		13.63	0.00	13.63	16.07	18.37	2.29	32.00	1.70
Chandigarh				0.00	4.86	5.06	0.20	5.06	0.00
Total	392.56	69.03	8.78	470.36	474.63	464.29	-10.34	934.65	44.75

* 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	
Punjab	7495	0	-4	1633	7341	0	-42	2040	32.64
Haryana	7052	0	-70	422	6053	0	-13	40	-0.80
Rajasthan	7250	0	-428	1392	8089	0	-106	1531	36.14
Delhi	4175	0	-348	-185	3663	0	-163	-390	-6.91
UP	9630	1855	-466	1140	10901	1350	-354	2007	30.74
Uttarakhand	1479	75	225	-30	1320	0	161	217	3.31
HP	1129	0	27	-845	878	0	28	-708	-12.99
J&K	1791	100	246	-82	1100	0	26	-275	-3.09
Chandigarh	231	0	-21	-30	168	0	6	-11	0.10
Total	40232	2030	-838	3415	39512	1350	-457	4451	79.14

* 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	1868	1865	41.58	1732	41.76	-0.18
	Rihand I STPS	1000	840	830	910	19.63	818	20.16	-0.53
	Rihand II STPS	1000	478	516	514	11.21	467	11.47	-0.27
	Rihand III STPS	500	374	412	510	9.07	378	8.97	0.09
	Dadri I STPS	840	600	643	647	13.75	573	13.85	-0.09
	Dadri II STPS	980	975	965	772	21.59	900	21.81	-0.22
	Unchahar I TPS	420	398	424	429	9.17	382	9.39	-0.22
	Unchahar II TPS	420	403	422	431	9.15	381	9.47	-0.32
	Unchahar III TPS	210	199	213	221	4.53	189	4.66	-0.13
	ISTPP (Jhajjar)	1500	1480	634	681	17.69	737	18.34	-0.65
	Dadri GPS	830	795	578	522	13.11	546	13.24	-0.13
	Anta GPS	419	326	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	621	302	150	5.57	232	5.52	0.04
	Sub Total (A)	10782	9228	7807	7652	176.04	7335	178.63	-2.60
	B. NPC	NAPS	440	296	334	333	7.12	297	6.95
RAPS- B		440	194	217	221	4.64	194	4.56	0.09
RAPS- C		440	410	465	465	9.77	407	9.84	-0.07
Sub Total (B)		1320	900	1016	1019	21.53	897	21.35	0.18
C. NHPC	Chamera I HPS	540	535	540	360	3.89	162	3.90	-0.01
	Chamera II HPS	300	250	298	199	3.88	162	3.44	0.44
	Chamera III HPS	231	231	225	78	2.78	116	2.55	0.23
	Bairasuil HPS	180	182	30	60	1.52	63	1.33	0.19
	Salal-HPS	690	381	595	369	9.79	408	9.15	0.64
	Tanakpur-HPS	94	94	93	93	2.25	94	2.24	0.00
	Uri-HPS	480	344	318	355	8.12	338	8.44	-0.32
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	407	405	9.29	387	9.30	-0.01
	Sewa-II HPS	120	119	111	0	0.65	27	0.68	-0.02
	Sub Total (C)	3305	2523	2617	1919	42.17	1757	41.04	1.13
D. NJPC	Nathpa Jhakri	1500	1605	1596	1250	25.11	1046	24.03	1.08
	Sub Total (D)	1500	1605	1596	1250	25.11	1046	24.03	1.08
E. THDC	Tehri HPS	1000	1060	1005	501	8.31	346	8.00	0.31
	Koteshwar HPS	400	200	202	101	2.83	118	2.80	0.03
	Sub Total (E)	1400	1260	1207	602	11.14	464	10.80	0.34
F. BBMB	Bhakra HPS	1497	850	1326	621	20.31	846	20.40	-0.09
	Dehar HPS	990	461	470	435	11.33	472	11.06	0.27
	Pong HPS	396	260	372	60	6.28	262	6.23	0.05
	Sub Total (F)	2883	1570	2168	1116	37.92	1580	37.69	0.23
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	65	63	1.59	66	1.53	0.06
	KWHEP HPS(IPP)	1000	0	701	461	12.72	530	12.97	-0.25
	Malana Stg-II HPS	100	0	109	51	1.16	48	1.10	0.06
	Shree Cement TPS	300	0	216	160	4.69	195	5.21	-0.52
	Budhil HPS(IPP)	70	0	35	35	0.83	35	0.81	0.01
	Sub Total (G)	1662	0	1126	770	20.98	874	21.62	-0.64
H. Total Regional Entities (A-G)	22852	17086	17537	14328	334.89	13954	335.16	-0.27	

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	1060	27.60	1150
	Guru Nanak Dev TPS(Bhatinda)	440	330	330	7.06	294
	Guru Hargobind Singh TPS(L.mbt)	920	952	950	20.88	870
	Goindwal(GVK)		0	0 0 0	0.00	0
	Thermal (Total)	2620	2542	2340	55.54	2314
	Total Hydro	1148	788	565	17.63	735
	Total Punjab	3768	3330	2905	73.18	3049
Haryana	Panipat TPS	1367	885	803	20.43	851
	DCRTPP (Yamuna nagar)	600	280	571	9.03	376
	Faridabad GPS (NTPC)	432	362	198	5.92	247
	RGTPP (kheadar) (IPP)	1200	1131	1045	23.49	979
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	581	524	13.75	573
	Thermal (Total)	4944	3239	3141	88.08	3670
	Total Hydro	62	18	18	0.63	26
	Total Haryana	5006	3257	3159	88.71	3696
	Rajasthan	kota TPS	1240	867	904	21.09
suratgarh TPS		1500	774	956	22.65	944
Chabra TPS		500	379	224	6.35	264
Dholpur GPS		330	79	28	1.56	65
Ramgarh GPS		111	23	26	0.73	30
RAPS A (NPC)		300	180	180	4.02	168
Barsingsar (NLC)		250	180	174	4.07	170
Giral LTPS		250	34	53	1.13	47
Rajwest LTPS (IPP)		1080	699	850	18.77	782
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	488	575	12.97	541
Thermal (Total)		6956	3703	3970	93.34	3889
Total Hydro		550	24	69	0.65	27
Wind power		2191	333	80	5.21	217
Biomass		91	30	30	0.72	30
Solar		201	0	0	1.85	77
Renewable/Others (Total)		2483	363	110	7.78	324
Total Rajasthan		9989	4090	4149	101.76	4240
UP		Anpara TPS	1630	1188	1170	28.00
	Obra TPS	1288	446	425	10.60	442
	Paricha TPS	1140	780	761	18.70	779
	Panki TPS	210	131	126	3.10	129
	Harduaganj TPS	665	355	371	8.70	363
	Tanda TPS (NTPC)	440	294	299	7.33	306
	Roza TPS (IPP)	1200	640	797	18.20	759
	Anpara-C (IPP)	1200	751	556	21.47	895
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	238	365	6.87	286
	Thermal (Total)	8223	4823	4870	122.98	5124
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	191	164	3.50	146
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	5054	5074	127.48	5312
	Uttarakhand	Total Hydro	1303	738	584	15.62
Total Uttarakhand		1303	738	584	15.62	651
Delhi	Rajghat TPS	135	90	90	2.18	91
	Delhi Gas Turbine	282	160	159	3.75	156
	Pragati Gas Turbine	330	299	262	6.80	283
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	275	281	6.64	276
	Badarpur TPS (NTPC)	705	635	525	13.25	552
	Thermal (Total)	2232	1459	1317	32.62	1359
	Total Delhi	2232	1459	1317	32.62	1359
HP	Baspa HPS (IPP)	330	244	169	4.21	175
	Malana HPS (IPP)	86	72	51	1.17	49
	Other Hydro	589	552	513	11.98	499
	Total HP	1005	868	733	17.36	723
J & K	Baglihar HPS (IPP)	450	438	436	10.49	437
	Other Hydro	323	126	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	564	564	13.63	568
Total State Control Area Generation		34390	19360	18485	470.36	19598
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5033	7515	143.40	5975
Total Regional Availability(Gross)		57242	41930	40328	948.64	39527

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8463	5462	131.81	5492
State Control Area Hydro	5368	3191	2697	69.03	2876
Total Regional Hydro	15748	11654	8159	200.83	8368

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	250	500	500	0	11.50	0.00	11.50
Gwalior-Agra (D/C)	1479	2100	2100	0	31.85	0.00	31.85
Zerda-Kankroli	-23	60	62	195	0.00	1.68	-1.68
Zerda-Bhinmal	30	123	166	161	0.00	0.01	-0.01
Malanpur-Auraiya	-64	-11	0	82	0.00	0.92	-0.92
Badod-Kota/Morak	63	168	168	45	1.55	0.00	1.55
Mundra-Mohindergarh(HVDC)	1435	1433	1437	0	34.41	0.00	34.41
Sub Total WR	3170	4373			79.31	2.60	76.71
Pusauli Bypass	-39	101	197	187	1.01	0.76	0.25
MZP- GKP (D/C)	599	972	1021	0	19.80	0.00	19.80
Patna-Balia(D/C)	583	803	1022	0	19.92	0.00	19.92
B'Sharif-Balia (D/C)	389	819	819	0	16.15	0.00	16.15
Pusauli-Balia	38	150	173	0	2.58	0.00	2.58
Gaya-Fatehpur (765 Kv)	182	284	345	0	5.41	0.00	5.41
Pusauli-Sahupuri	148	49	148	0	3.22	0.00	3.22
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	1863	3142			68.09	1.40	66.69
Total IR Exch	5033	7515			147.40	4.00	143.40

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
39.36	2.73	42.09	5.65	25.97	22.29	7.04	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
74.13	80.02	154.15	66.69	76.71	143.40	-7.44	-3.31	-10.75

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	0.00	81.53	0.17	81.53	83.19	18.47

<----- 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				
50.46	10.00	49.77	10.49	50.11	0.25	0.11	50.37	49.90

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	408	19:59	401	00:16	0.0	0.0	0.0	0.0
Gorakhpur	400	424	20:13	403	01:29	0.4	0.4	2.2	0.0
Barailly	400	418	08:32	393	00:27	0.0	0.0	0.0	0.0
Kanpur	400	420	17:42	404	00:16	0.0	0.0	0.0	0.0
Dadri	400	415	07:12	400	00:22	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:03	407	00:16	0.0	0.0	3.4	0.0
Bawana	400	419	07:05	405	00:27	0.0	0.0	0.0	0.0
Bassi	400	429	17:16	397	00:22	0.0	0.0	22.0	0.0
Hissar	400	410	07:18	397	00:32	0.0	0.0	0.0	0.0
Moga	400	412	08:03	396	18:54	0.0	0.0	0.0	0.0
Abdullapur	400	416	06:09	403	19:13	0.0	0.0	0.0	0.0
Nalagarh	400	419	07:04	406	19:12	0.0	0.0	0.0	0.0
Kishenpur	400	418	08:04	401	18:53	0.0	0.0	0.0	0.0
Wagoora	400	413	01:59	386	19:05	0.0	6.6	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	779	17:42	745	00:21	0.0	0.0	0.0	0.0
Balia	765	762	20:03	726	00:46	1.2	28.3	0.0	0.0
Moga	765	782	08:02	755	18:56	0.0	0.0	0.0	0.0
Agra	765	807	20:02	771	00:21	0.0	0.0	9.8	0.0
Bhiwani	765	794	07:18	768	00:27	0.0	0.0	0.0	0.0
Unnao	765	769	18:06	739	00:31	0.0	2.9	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	511.52	1620.46	504.61	1298.95	519.61	585.73
Pong	426.72	384.05	423.58	1066.19	422.24	990.91	154.92	349.20
Tehri	829.79	740.04	822.55	982.26	818.65	982.26	183.18	182.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	168.15	200.46
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 20.09.2013 :

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 : 20.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER