

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.10.2013
Date of Reporting : 08.10.2013

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
36489	3209	39698	50.11	32312	1590	33902	50.33	806.8	62.76

* 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	51.07	13.00		64.07	78.86	81.47	2.60	145.54	0.00
Haryana	58.04	0.58		58.62	65.04	67.28	2.24	125.89	1.85
Rajasthan	68.71	1.59	4.23	74.53	80.04	76.80	-3.24	151.33	0.00
Delhi	18.01			18.01	64.25	67.93	3.68	85.94	0.07
UP	109.66	5.48	1.70	116.84	89.39	89.28	-0.10	206.13	57.64
Uttarakhand		15.89		15.89	13.30	18.09	4.79	33.97	1.41
HP		15.02		15.02	7.92	9.08	1.16	24.11	0.08
J & K		13.29	0.00	13.29	15.22	15.98	0.76	29.28	1.70
Chandigarh				0.00	4.54	4.65	0.11	4.65	0.00
Total	305.49	64.85	5.93	376.27	418.55	430.56	12.01	806.83	62.76

* 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	6301	0	-25	293	5749	0	88	629	17.74
Haryana	5537	489	-92	-433	5079	0	165	-474	-10.87
Rajasthan	7080	0	3	1473	5957	0	-101	1469	35.27
Delhi	3961	31	126	-213	2928	0	-161	-556	-8.51
UP	9027	2505	-45	158	9503	1590	-85	1650	9.27
Uttarakhand	1603	80	77	236	1248	0	232	107	4.10
HP	1119	4	-56	-708	802	0	163	-330	-8.60
J&K	1632	100	59	-32	900	0	0	-299	-2.97
Chandigarh	230	0	-16	-35	146	0	-5	-5	-0.01
Total	36489	3209	30	741	32312	1590	296	2191	35.42

* 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	1940	2081	1983	46.28	1928	46.37	-0.09
	Rihand I STPS	1000	920	996	958	21.34	889	22.08	-0.74
	Rihand II STPS	1000	478	522	507	11.46	477	11.47	-0.02
	Rihand III STPS	500	399	515	382	9.27	386	9.35	-0.08
	Dadri I STPS	840	600	655	517	13.82	576	14.08	-0.26
	Dadri II STPS	980	975	935	960	21.70	904	22.35	-0.65
	Unchahar I TPS	420	201	221	187	4.57	191	4.69	-0.11
	Unchahar II TPS	420	360	442	376	7.79	324	8.15	-0.36
	Unchahar III TPS	210	200	217	174	4.34	181	4.41	-0.07
	ISTPP (Jhajjar)	1500	1480	953	672	17.09	712	17.45	-0.36
	Dadri GPS	830	802	389	400	9.15	381	9.37	-0.22
	Anta GPS	419	401	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	630	154	156	3.56	148	3.66	-0.11
	Sub Total (A)	10782	9385	8080	7272	170.37	7099	173.44	-3.07
B. NPC	NAPS	440	297	333	338	7.09	295	7.13	-0.04
	RAPS- B	440	395	443	445	9.54	398	9.48	0.06
	RAPS- C	440	410	467	470	9.93	414	9.53	0.39
	Sub Total (B)	1320	1102	1243	1253	26.55	1106	26.14	0.41
C. NHPC	Chamera I HPS	540	538	540	0	4.30	179	4.20	0.10
	Chamera II HPS	300	300	278	0	3.56	148	3.52	0.03
	Chamera III HPS	231	231	76	0	2.41	100	2.35	0.06
	Bairasuil HPS	180	182	120	10	1.19	49	1.15	0.04
	Salal-HPS	690	386	511	308	9.64	401	9.27	0.37
	Tanakpur-HPS	94	85	90	91	2.15	90	2.05	0.10
	Uri-HPS	480	181	239	79	4.30	179	4.29	0.01
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	401	166	9.26	386	9.21	0.05
	Sewa-II HPS	120	119	80	0	0.67	28	0.64	0.03
	Sub Total (C)	3305	2410	2335	654	37.46	1561	36.67	0.78
D. NJPC	Nathpa Jhakri	1500	1605	1532	407	19.18	799	18.50	0.67
	Sub Total (D)	1500	1605	1532	407	19.18	799	18.50	0.67
E. THDC	Tehri HPS	1000	1060	1065	0	8.75	365	8.50	0.25
	Koteshwar HPS	400	150	302	98	2.92	122	2.85	0.07
	Sub Total (E)	1400	1210	1367	98	11.67	486	11.35	0.32
F. BBMB	Bhakra HPS	1497	714	1362	519	17.48	728	17.14	0.34
	Dehar HPS	990	389	660	305	9.90	413	9.33	0.58
	Pong HPS	396	280	372	192	6.98	291	6.71	0.27
	Sub Total (F)	2883	1382	2394	1016	34.36	1432	33.18	1.18
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	95	27	1.48	62	1.30	0.18
	KWHEP HPS(IPP)	1000	0	897	250	10.02	417	10.10	-0.08
	Malana Stg-II HPS	100	0	0	0	1.15	48	1.13	0.02
	Shree Cement TPS	300	0	265	254	6.81	284	6.38	0.43
	Budhil HPS(IPP)	70	0	35	30	0.69	29	0.59	0.10
	Sub Total (G)	1662	0	1292	561	20.14	839	19.49	0.66
H. Total Regional Entities (A-G)	22852	17094	18243	11261	319.73	13322	318.77	0.96	

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	1046	1160	23.77	991	
	Guru Nanak Dev TPS(Bhatinda)	440	342	342	7.20	300	
	Guru Hargobind Singh TPS(L.mbt)	920	844	943	20.10	838	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2232	2445	51.07	2128	
	Total Hydro	1148	600	499	13.00	542	
	Total Punjab	3768	2832	2944	64.07	2670	
Haryana	Panipat TPS	1367	430	444	9.56	399	
	DCRTPP (Yamuna nagar)	600	572	554	13.10	546	
	Faridabad GPS (NTPC)	432	197	198	4.72	197	
	RGTPP (khedar) (IPP)	1200	565	541	13.96	582	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	549	714	16.69	696	
	Thermal (Total)	4944	2313	2451	58.04	2418	
	Total Hydro	62	23	24	0.58	24	
		Total Haryana	5006	2336	2475	58.62	2442
	Rajasthan	kota TPS	1240	940	887	22.32	930
suratgarh TPS		1500	854	771	19.57	815	
Chabra TPS		500	222	189	4.92	205	
Dholpur GPS		330	84	113	2.29	95	
Ramgarh GPS		111	65	58	1.60	67	
RAPS A (NPC)		300	179	201	4.03	168	
Barsingsar (NLC)		250	111	112	2.44	102	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	509	520	11.53	480	
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	2964	2851	68.71	2863	
Total Hydro		550	0	49	1.59	66	
Wind power		2191	28	222	1.74	73	
Biomass		91	28	28	0.68	28	
Solar		201	0	0	1.81	75	
Renewable/Others (Total)		2483	56	250	4.23	176	
		Total Rajasthan	9989	3020	3150	74.53	3105
UP		Anpara TPS	1630	1270	1323	28.00	1167
	Obra TPS	1288	428	487	9.80	408	
	Paricha TPS	1140	788	635	15.20	633	
	Panki TPS	210	0	0	0.00	0	
	Harduaganj TPS	665	470	406	8.00	333	
	Tanda TPS (NTPC)	440	298	296	7.30	304	
	Roza TPS (IPP)	1200	536	531	13.01	542	
	Anpara-C (IPP)	1200	904	611	18.77	782	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	404	403	9.58	399	
	Thermal (Total)	8223	5098	4692	109.66	4569	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	268	273	5.48	228	
	Cogeneration	981	70	70	1.70	71	
		Total UP	10131	5436	5035	116.84	4868
Uttarakhand	Total Hydro	1303	732	602	15.89	662	
	Total Uttarakhand	1303	732	602	15.89	662	
Delhi	Raighat TPS	135	35	0	0.16	7	
	Delhi Gas Turbine	282	111	80	2.55	106	
	Pragati Gas Turbine	330	191	263	6.35	265	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	28	0	0.82	34	
	Badarpur TPS (NTPC)	705	355	490	8.13	339	
	Thermal (Total)	2232	720	833	18.01	750	
	Total Delhi	2232	720	833	18.01	750	
HP	Baspa HPS (IPP)	330	195	0	3.65	152	
	Malana HPS (IPP)	86	76	12	1.14	47	
	Other Hydro	589	457	495	10.23	426	
		Total HP	1005	728	507	15.02	626
J & K	Baglihar HPS (IPP)	450	436	434	10.47	436	
	Other Hydro	323	100	128	2.83	118	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	536	562	13.29	554
Total State Control Area Generation		34390	16340	16108	376.27	15678	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3913	5698	123.20	5133	
Total Regional Availability(Gross)		57242	38496	33067	819.20	34133	

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8620	2452	115.31	4805
State Control Area Hydro	5368	2887	2516	64.85	2702
Total Regional Hydro	15748	11507	4968	180.16	7507

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	150	450	50	3.34	0.31	3.03
Gwalior-Agra (D/C)	743	1580	1774	0	30.50	0.00	30.50
Zerda-Kankroli	47	54	117	36	0.58	0.00	0.58
Zerda-Bhinmal	106	89	190	2	1.99	0.00	1.99
Malanpur-Auraiya	-121	-30	0	121	0.00	1.39	-1.39
Badod-Kota/Morak	48	56	108	0	1.58	0.00	1.58
Mundra-Mohindergarh(HVDC)	1501	1500	1504	0	36.26	0.00	36.26
Sub Total WR	2274	3399			74.26	1.70	72.56
Pusauli Bypass	100	100	100	0	2.42	0.00	2.42
MZP- GKP (D/C)	470	870	910	0	17.78	0.00	17.78
Patna-Balia(D/C)	499	557	616	0	12.62	0.00	12.62
B'Sharif-Balia (D/C)	369	409	492	0	9.59	0.00	9.59
Pusauli-Balia	2	16	75	7	0.48	0.00	0.48
Gaya-Fatehpur (765 Kv)	110	234	390	0	5.85	0.00	5.85
Pusauli-Sahupuri	126	149	149	0	2.74	0.00	2.74
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	38	0.00	0.85	-0.85
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	1639	2299			51.49	0.85	50.64
Total IR Exch	3913	5698			125.74	2.55	123.20

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
39.47	2.86	42.33	4.28	-0.30	4.73	9.79	0.54	-0.54

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
51.88	60.57	112.45	50.64	72.56	123.20	-1.25	11.99	10.74

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	0.30	2.30	91.10	3.40	88.80	57.50	8.60

<----- 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)		
50.36	13.03	49.34	19.09	50.01	0.19	0.14	50.35	49.78

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	414	04:01	403	15:59	0.0	0.0	0.0	0.0
Gorakhpur	400	420	19:29	412	18:28	0.0	0.0	0.0	0.0
Barailly	400	418	17:21	399	13:36	0.0	0.0	0.0	0.0
Kanpur	400	419	05:04	401	16:41	0.0	0.0	0.0	0.0
Dadri	400	415	06:06	400	10:25	0.0	0.0	0.0	0.0
Ballabgarh	400	426	04:02	408	16:40	0.0	0.0	28.8	0.0
Bawana	400	421	04:01	404	10:26	0.0	0.0	2.4	0.0
Bassi	400	423	06:00	403	09:52	0.0	0.0	3.5	0.0
Hissar	400	414	04:01	398	10:26	0.0	0.0	0.0	0.0
Moga	400	417	17:19	400	09:22	0.0	0.0	0.0	0.0
Abdullapur	400	420	04:28	399	12:42	0.0	0.0	0.0	0.0
Nalagarh	400	423	02:22	405	19:09	0.0	0.0	15.3	0.0
Kishenpur	400	424	03:00	404	19:07	0.0	0.0	14.6	0.0
Wagoora	400	424	04:02	394	18:36	0.0	0.0	8.5	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	762	17:21	730	09:29	0.0	32.2	0.0	0.0
Balia	765	757	05:04	730	10:27	0.0	31.2	0.0	0.0
Moga	765	796	17:17	757	19:09	0.0	0.0	0.0	0.0
Agra	765	805	17:20	600	12:57	0.2	0.2	2.9	0.0
Bhiwani	765	802	04:03	770	10:26	0.0	0.0	0.3	0.0
Unnao	765	765	21:43	731	16:32	0.0	30.0	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	510.78	1590.18	504.48	1285.56	429.11	484.22
Pong	426.72	384.05	422.22	990.81	422.11	990.81	171.43	390.46
Tehri	829.79	740.04	824.80	1103.72	818.65	982.26	144.20	189.00
Koteshwar	612.50	598.50	610.55	4.80	NA	NA	240.00	192.00
Chamera-I	760.00	748.75	753.66	NA	NA	NA	126.99	116.43
Rihand	268.22	252.98	260.91	355.50	264.08	550.20	NA	NA
RPS	352.80	343.81	352.77	NA	NA	NA	195.18	364.83
Jawahar Sagar	298.70	295.78	298.19	NA	NA	NA	416.71	345.16
RSD	527.91	487.91	518.85	144.00	520.87	144.00	139.69	123.01

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 07.10.2013 :

1. Normal Weather in NR.

XIII. Synchronisation of new generating units :

0.00

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 : 07.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER