

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.10.2013
Date of Reporting : 01.11.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
33431	2682	36112	50.13	26907	1180	28087	50.22	710.2	37.02

* 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	26.25	9.74		35.99	49.63	51.63	2.00	87.62	0.00
Haryana	52.61	0.71		53.33	44.11	42.62	-1.48	95.95	0.93
Rajasthan	69.85	4.72	7.30	81.87	86.97	85.06	-1.91	166.93	0.57
Delhi	18.24			18.24	47.40	47.20	-0.20	65.43	0.01
UP	130.95	3.43	1.20	135.58	75.61	72.20	-3.42	207.77	32.45
Uttarakhand		9.50		9.50	17.65	19.38	1.72	28.88	1.38
HP		8.78		8.78	12.21	14.14	1.93	22.92	0.00
J & K		7.57	0.00	7.57	21.20	23.88	2.68	31.44	1.70
Chandigarh				0.00	3.45	3.29	-0.16	3.29	0.00
Total	297.89	44.47	8.50	350.86	358.23	359.39	1.16	710.25	37.02

* 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	4340	0	53	131	3186	0	6	210	3.30	
Haryana	4920	307	-95	-405	3425	0	-288	-439	-13.47	
Rajasthan	7453	0	-339	1654	6555	0	-125	1490	39.73	
Delhi	3278	0	-228	-661	1786	0	-76	-1320	-19.59	
UP	9126	2200	-253	-143	9280	1180	216	344	-1.15	
Uttarakhand	1424	75	16	329	1034	0	54	349	7.97	
HP	1110	0	45	-326	767	0	120	61	-0.14	
J&K	1605	100	59	236	780	0	-266	161	3.87	
Chandigarh	175	0	-4	-36	93	0	-10	-20	-0.36	
Total	33431	2682	-745	780	26907	1180	-367	836	20.17	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

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	2072	2075	46.18	1924	45.99	0.19
Rihand I STPS	1000	682	1005	676	16.30	679	15.87	0.42
Rihand II STPS	1000	701	1034	687	16.53	689	16.27	0.25
Rihand III STPS	1000	350	513	327	8.28	345	8.18	0.11
Dadri I STPS	840	811	807	625	16.97	707	16.76	0.20
Dadri II STPS	980	980	994	715	20.91	871	21.08	-0.16
Unchahar I TPS	420	211	220	195	4.65	194	4.75	-0.10
Unchahar II TPS	420	404	425	346	8.63	359	8.61	0.02
Unchahar III TPS	210	201	212	163	4.30	179	4.32	-0.02
ISTPP (Jhajjar)	1500	1480	635	703	14.68	612	14.91	-0.23
Dadri GPS	830	810	587	525	13.17	549	13.40	-0.23
Anta GPS	419	407	406	289	8.78	366	6.77	2.01
Auraiya GPS	663	644	156	160	3.65	152	3.69	-0.04
Sub Total (A)	11282	9619	9066	7486	183.02	7626	180.60	2.41
B. NPC								
NAPS	440	308	344	348	7.34	306	7.39	-0.05
RAPS- B	440	411	453	457	9.89	412	9.86	0.02
RAPS- C	440	425	475	478	10.12	422	10.20	-0.08
Sub Total (B)	1320	1144	1272	1283	27.35	1140	27.46	-0.10
C. NHPC								
Chamera I HPS	540	540	360	0	2.03	85	2.00	0.03
Chamera II HPS	300	300	100	0	1.72	72	1.71	0.01
Chamera III HPS	231	231	0	0	1.08	45	1.06	0.02
Bairasuil HPS	180	182	20	0	0.86	36	0.70	0.16
Salal-HPS	690	110	105	102	2.75	114	2.54	0.21
Tanakpur-HPS	94	55	63	55	1.31	55	1.31	-0.01
Uri-HPS	480	113	207	43	2.98	124	3.00	-0.03
Uri-II HPS	120	71	121	46	1.76	73	1.71	0.05
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	406	30	4.81	200	4.48	0.33
Sewa-II HPS	120	119	28	0	0.39	16	0.41	-0.01
Sub Total (C)	3425	2108	1410	276	19.68	820	18.92	0.76
D. NJPC								
Nathpa Jhakri	1500	1605	1257	164	12.64	527	12.38	0.26
Sub Total (D)	1500	1605	1257	164	12.64	527	12.38	0.26
E. THDC								
Tehri HPS	1000	1060	757	0	6.44	268	6.30	0.14
Koteshwar HPS	400	92	100	90	2.24	93	2.20	0.04
Sub Total (E)	1400	1152	857	90	8.67	361	8.50	0.17
F. BBMB								
Bhakra HPS	1497	485	1029	372	11.98	499	11.65	0.33
Dehar HPS	990	203	420	140	4.94	206	4.87	0.07
Pong HPS	396	289	312	252	7.09	295	6.93	0.16
Sub Total (F)	2883	977	1761	764	24.01	1000	23.44	0.57
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	26	27	0.77	32	0.75	0.03
KWHEP HPS(IPP)	1000	0	900	147	6.47	270	6.48	-0.01
Malana Stg-II HPS	100	0	70	0	0.34	14	0.37	-0.03
Shree Cement TPS	300	0	257	157	5.70	237	5.55	0.15
Budhil HPS(IPP)	70	0	9	9	0.19	8	0.20	-0.01
Sub Total (G)	1662	0	1262	340	13.47	561	13.34	0.13
H. Total Regional Entities (A-G)	23472	16605	16885	10403	288.84	12035	284.65	4.19

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	600	600	14.82	617	
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	2.23	93	
	Guru Hargobind Singh TPS(L.mbt)	920	500	344	9.20	383	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1180	1024	26.25	1094	
	Total Hydro	1148	425	260	9.74	406	
	Total Punjab	3768	1605	1284	35.99	1500	
Haryana	Panipat TPS	1367	409	513	11.15	465	
	DCRTPP (Yamuna nagar)	600	507	253	8.64	360	
	Faridabad GPS (NTPC)	432	159	161	4.15	173	
	RGTPP (khedar) (IPP)	1200	438	446	10.73	447	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	701	741	17.95	748	
	Thermal (Total)	4944	2214	2114	52.61	2192	
	Total Hydro	62	29	29	0.71	30	
		Total Haryana	5006	2243	2143	53.33	2222
	Rajasthan	kota TPS	1240	954	899	22.62	943
suratgarh TPS		1500	1042	957	24.67	1028	
Chabra TPS		500	423	392	10.35	431	
Dholpur GPS		330	106	106	2.33	97	
Ramgarh GPS		111	136	126	3.31	138	
RAPS A (NPC)		300	179	179	3.96	165	
Barsingsar (NLC)		250	112	111	2.60	108	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	0	0	0.00	0	
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	2952	2770	69.85	2910	
Total Hydro		550	187	187	4.72	197	
Wind power		2191	378	551	6.06	253	
Biomass		91	27	27	0.65	27	
Solar		201	0	0	0.59	25	
Renewable/Others (Total)		2483	405	578	7.30	304	
		Total Rajasthan	9989	3544	3535	81.87	3411
UP		Anpara TPS	1630	1363	1380	32.50	1354
	Obra TPS	1288	465	500	10.20	425	
	Paricha TPS	1140	657	625	15.80	658	
	Panki TPS	210	63	72	1.60	67	
	Harduaganj TPS	665	245	168	5.20	217	
	Tanda TPS (NTPC)	440	396	398	9.77	407	
	Roza TPS (IPP)	1200	788	1080	23.42	976	
	Anpara-C (IPP)	1200	1026	1044	25.02	1043	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	255	363	7.44	310	
	Thermal (Total)	8223	5258	5630	130.95	5456	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	171	195	3.43	143	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5479	5875	135.58	5649
	Uttarakhand	Total Hydro	1303	528	317	9.50	396
Total Uttarakhand		1303	528	317	9.50	396	
Delhi	Raighat TPS	135	54	52	1.25	52	
	Delhi Gas Turbine	282	78	80	1.89	79	
	Pragati Gas Turbine	330	260	264	6.62	276	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	395	410	8.48	353	
	Thermal (Total)	2232	787	806	18.24	760	
		Total Delhi	2232	787	806	18.24	760
HP	Baspa HPS (IPP)	330	98	33	2.11	88	
	Malana HPS (IPP)	86	85	0	0.39	16	
	Other Hydro	589	268	223	6.28	262	
		Total HP	1005	451	256	8.78	366
J & K	Baglihar HPS (IPP)	450	282	0	4.77	199	
	Other Hydro	323	110	116	2.80	117	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	392	116	7.57	315
Total State Control Area Generation		34390	15029	14332	350.86	14619	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3458	3805	92.17	3840	
Total Regional Availability(Gross)		57862	35372	28540	731.87	30495	

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6281	1468	72.58	3024
State Control Area Hydro	5368	2183	1360	44.47	1853
Total Regional Hydro	15868	8464	2828	117.05	4877

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	200	500	0.41	7.52	-7.10
Gwalior-Agra (D/C)	1067	1006	1378	0	22.40	0.00	22.40
Zerda-Kankroli	22	-123	68	156	0.00	1.07	-1.07
Zerda-Bhinmal	155	-20	216	80	1.70	0.00	1.70
Malanpur-Auraiya	-58	-64	0	149	0.00	1.72	-1.72
Badod-Kota/Morak	-68	-74	0	118	0.00	2.08	-2.08
Mundra-Mohindergarh(HVDC)	1498	1499	1504	0	34.19	0.00	34.19
Sub Total WR	2366	1724			58.71	12.39	46.32
Pusauli Bypass	-208	350	350	208	4.36	0.58	3.78
MZP- GKP (D/C)	424	555	852	0	13.84	0.00	13.84
Patna-Balia(D/C)	281	541	622	0	12.51	0.00	12.51
B'Sharif-Balia (D/C)	364	317	439	0	7.51	0.00	7.51
Pusauli-Balia	58	-45	98	74	0.32	0.00	0.32
Gaya-Fatehpur (765 Kv)	94	280	325	0	5.92	0.00	5.92
Pusauli-Sahupuri	114	116	170	0	2.82	0.00	2.82
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-33	0	37	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	1092	2081			47.28	1.43	45.85
Total IR Exch	3458	3805			105.99	13.82	92.17

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
32.45	1.85	34.30	8.76	-8.91	4.42	5.06	0.94	-0.94

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
48.43	40.20	88.62	45.85	46.32	92.17	-2.58	6.12	3.55

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	1.20	99.60	9.60	98.40	30.10	0.40

<----- 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				
50.25	9.03	49.61	16.51	49.93	0.16	0.11	50.28	49.89

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	410	07:11	407	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	419	04:03	404	12:09	0.0	0.0	0.0	0.0
Kanpur	400	418	04:07	401	10:45	0.0	0.0	0.0	0.0
Dadri	400	421	23:55	403	18:10	0.0	0.0	0.5	0.0
Ballabgarh	400	429	23:57	410	12:55	0.0	0.0	3.9	0.0
Bawana	400	427	04:01	407	18:11	0.0	0.0	26.8	0.0
Bassi	400	427	04:02	396	07:33	0.0	0.0	16.6	0.0
Hissar	400	419	04:01	399	12:12	0.0	0.0	0.0	0.0
Moga	400	425	02:01	400	18:23	0.0	0.0	7.3	0.0
Abdullapur	400	425	02:00	403	18:20	0.0	0.0	22.3	0.0
Nalagarh	400	429	23:59	405	18:24	0.0	0.0	26.3	0.0
Kishenpur	400	441	02:35	397	18:22	0.0	0.0	17.6	6.9
Wagoora	400	431	01:12	377	18:22	3.7	12.9	11.7	1.0

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	773	04:03	738	13:53	0.0	3.0	0.0	0.0
Balia	765	766	05:02	728	17:55	0.0	30.5	0.0	0.0
Moga	765	800	02:01	756	18:12	0.0	0.0	0.0	0.0
Agra	765	809	04:06	757	10:47	0.0	0.0	12.7	0.0
Bhiwani	765	809	04:01	769	11:05	0.0	0.0	15.8	0.0
Unnao	765	758	04:03	728	16:23	0.0	28.3	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	510.91	1590.18	504.13	1272.20	257.57	301.66
Pong	426.72	384.05	420.15	889.22	419.77	875.55	68.33	405.21
Tehri	829.79	740.04	824.10	1089.96	818.65	982.26	75.18	140.00
Koteshwar	612.50	598.50	611.80	4.95	599.95	0.45	140.00	148.00
Chamera-I	760.00	748.75	753.91	NA	NA	NA	67.49	55.18
Rihand	268.22	252.98	261.98	417.20	263.41	506.00	NA	217.56
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	517.86	144.00	521.01	144.00	83.82	115.79

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 31.10.2013 :

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 :

1. 315 MVA ICT-III Charged first time at Nallagarh substation at 19:22 hrs.

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 Mar, 2014 .

Report for : 31.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER