

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.12.2013
Date of Reporting : 11.12.2013

I. Regional Availability/Demand:

Evening Peak (19:00 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
35608	1670	37278	50.09	28679	0	28679	50.19	764.5	29.74

* 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	40.58	9.66		50.24	45.90	47.88	1.98	98.12	0.00
Haryana	60.45	0.44		60.89	45.17	46.58	1.41	107.47	0.00
Rajasthan	99.25	5.57	4.10	108.93	76.73	73.98	-2.75	182.91	0.00
Delhi	17.55			17.55	42.60	40.88	-1.72	58.43	0.00
UP	127.36	3.71	4.80	135.87	87.13	84.07	-3.06	219.94	25.94
Uttarakhand		10.00		10.00	19.42	20.55	1.14	30.55	2.10
HP		5.61		5.61	18.55	18.63	0.08	24.24	0.00
J & K		5.90	0.00	5.90	30.03	33.59	3.56	39.50	1.70
Chandigarh				0.00	3.26	3.35	0.09	3.35	0.00
Total	345.20	40.88	8.90	394.98	368.79	369.53	0.74	764.51	29.74

* 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 (19:00 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	4895	0	-15	-212	3067	0	102	-409	-2.01	
Haryana	5543	0	222	-732	3855	0	135	-761	-22.10	
Rajasthan	7964	0	-639	378	6898	0	-182	508	29.36	
Delhi	3097	0	-53	-697	1372	0	-123	-1229	-22.56	
UP	9293	1495	-263	230	9966	0	40	1052	6.21	
Uttarakhand	1628	75	84	423	1043	0	2	367	8.84	
HP	1211	0	41	198	733	0	-14	320	6.60	
J&K	1800	100	137	555	1659	0	167	461	9.34	
Chandigarh	178	0	-3	0	88	0	-1	-10	-0.13	
Total	35608	1670	-490	143	28679	0	127	299	13.56	

* 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	1924	2094	2049	46.70	1946	46.19	0.51
Rihand I STPS	1000	859	997	800	20.27	845	20.00	0.27
Rihand II STPS	1000	925	1049	764	21.85	910	21.26	0.58
Rihand III STPS	1000	460	519	470	10.96	457	10.73	0.23
Dadri I STPS	840	815	660	495	13.27	553	13.22	0.05
Dadri II STPS	980	985	1027	702	21.43	893	21.61	-0.18
Unchahar I TPS	420	405	440	335	9.08	378	9.05	0.03
Unchahar II TPS	420	402	432	308	8.72	363	8.80	-0.09
Unchahar III TPS	210	201	219	154	4.37	182	4.38	-0.01
ISTPP (Jhajjar)	1500	1480	894	636	14.90	621	15.05	-0.15
Dadri GPS	830	830	379	323	8.63	359	8.67	-0.05
Anta GPS	419	425	265	236	6.25	260	6.33	-0.08
Auraiya GPS	663	663	160	168	3.74	156	3.81	-0.07
Sub Total (A)	11282	10375	9135	7440	190.15	7923	189.09	1.06
B. NPC								
NAPS	440	359	355	360	7.70	321	8.62	-0.92
RAPS- B	440	420	463	462	10.04	418	10.08	-0.04
RAPS- C	440	430	474	476	10.20	425	10.32	-0.12
Sub Total (B)	1320	1209	1292	1298	27.94	1164	29.02	-1.08
C. NHPC								
Chamera I HPS	540	360	236	0	1.60	67	1.65	-0.05
Chamera II HPS	300	300	236	0	1.30	54	1.22	0.08
Chamera III HPS	231	231	68	0	0.72	30	0.69	0.03
Bairasuil HPS	180	182	10	0	0.51	21	0.50	0.01
Salal-HPS	690	113	110	147	2.61	109	2.80	-0.20
Tanakpur-HPS	94	31	32	32	0.78	32	0.74	0.04
Uri-HPS	480	88	212	38	2.45	102	2.40	0.05
Uri-II HPS	120	65	120	35	1.60	67	1.55	0.05
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	258	267	0	2.16	90	3.03	-0.87
Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
Sub Total (C)	3425	1628	1291	252	13.72	572	14.58	-0.86
D. NJPC								
Nathpa Jhakri	1500	1080	1084	0	8.89	370	8.74	0.15
Sub Total (D)	1500	1080	1084	0	8.89	370	8.74	0.15
E. THDC								
Tehri HPS	1000	1060	1004	0	6.54	272	6.40	0.13
Koteshwar HPS	400	92	90	90	2.23	93	2.20	0.03
Sub Total (E)	1400	1152	1094	90	8.76	365	8.60	0.16
F. BBMB								
Bhakra HPS	1497	762	987	479	18.43	768	18.30	0.13
Dehar HPS	990	121	330	0	2.95	123	2.91	0.05
Pong HPS	396	313	372	180	7.76	323	7.51	0.25
Sub Total (F)	2883	1196	1689	659	29.14	1214	28.71	0.43
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.48	20	0.46	0.02
KWHEP HPS(IPP)	1000	0	210	0	4.80	200	4.81	-0.01
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	300	0	281	154	5.54	231	5.60	-0.06
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1662	0	491	154	10.83	451	10.88	-0.05
H. Total Regional Entities (A-G)	23472	16640	16076	9893	289.42	12059	289.60	-0.18

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	950	780	18.51	771	
	Guru Nanak Dev TPS(Bhatinda)	440	160	160	3.41	142	
	Guru Hargobind Singh TPS(L.mbt)	920	968	661	18.66	778	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2078	1601	40.58	1691	
	Total Hydro	1148	447	429	9.66	402	
	Total Punjab	3768	2525	2030	50.24	2093	
Haryana	Panipat TPS	1367	821	784	19.28	803	
	DCRTPP (Yamuna nagar)	600	279	251	6.31	263	
	Faridabad GPS (NTPC)	432	0	166	0.90	38	
	RGTPP (khedar) (IPP)	1200	557	503	12.78	533	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	891	744	21.18	882	
	Thermal (Total)	4944	2548	2448	60.45	2519	
	Total Hydro	62	15	18	0.44	18	
	Total Haryana	5006	2563	2466	60.89	2537	
	Rajasthan	kota TPS	1240	1154	1083	26.71	1113
		suratgarh TPS	1500	1092	1017	25.50	1063
Chabra TPS		500	516	475	11.71	488	
Dholpur GPS		330	105	105	2.60	108	
Ramgarh GPS		111	140	157	2.98	124	
RAPS A (NPC)		300	175	175	4.08	170	
Barsingsar (NLC)		250	220	219	5.08	212	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	372	316	8.30	346	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	481	479	12.30	513	
Thermal (Total)		6956	4255	4026	99.25	4136	
Total Hydro		550	243	166	5.57	232	
Wind power		2191	19	193	3.13	131	
Biomass		91	21	21	0.49	21	
Solar		201	5	0	0.47	20	
Renewable/Others (Total)		2483	40	214	4.10	171	
Total Rajasthan		9989	4538	4406	108.93	4539	
UP		Anpara TPS	1630	1274	1246	29.80	1242
	Obra TPS	1288	311	307	7.50	313	
	Paricha TPS	1140	598	725	15.10	629	
	Panki TPS	210	72	59	1.50	63	
	Harduaganj TPS	665	439	456	10.80	450	
	Tanda TPS (NTPC)	440	407	402	9.81	409	
	Roza TPS (IPP)	1200	843	711	19.15	798	
	Anpara-C (IPP)	1200	1065	1019	25.28	1053	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	403	402	8.42	351	
	Thermal (Total)	8223	5412	5327	127.36	5307	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	163	162	3.71	155	
	Cogeneration	981	200	200	4.80	200	
	Total UP	10131	5775	5689	135.87	5661	
	Uttarakhand	Total Hydro	1303	560	305	10.00	416
Total Uttarakhand		1303	560	305	10.00	416	
Delhi	Raighat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	82	81	1.91	80	
	Pragati Gas Turbine	330	316	264	6.99	291	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	420	365	8.65	361	
	Thermal (Total)	2232	818	710	17.55	731	
	Total Delhi	2232	818	710	17.55	731	
HP	Baspa HPS (IPP)	330	80	30	1.48	62	
	Malana HPS (IPP)	86	0	0	0.28	12	
	Other Hydro	589	212	120	3.85	160	
	Total HP	1005	292	150	5.61	234	
J & K	Baglihar HPS (IPP)	450	246	118	3.46	144	
	Other Hydro	323	90	116	2.44	102	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	336	234	5.90	246	
Total State Control Area Generation		34390	17407	15990	394.98	16458	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3175	3491	87.73	3655	
Total Regional Availability(Gross)		57862	36658	29374	772.13	32172	

IV. Total Hydro Generation:

Regional Entities Hydro	10500	5368	1001	65.79	2741
State Control Area Hydro	5368	2056	1464	40.88	1703
Total Regional Hydro	15868	7424	2465	106.67	4445

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-300	50	200	300	0.83	2.02	-1.19
Gwalior-Agra (D/C)	1147	927	1545	0	23.93	0.00	23.93
Zerda-Kankroli	-77	-220	32	323	0.00	1.92	-1.92
Zerda-Bhinmal	43	-109	181	268	0.77	0.00	0.77
Malanpur-Auraiya	-117	-94	0	150	0.00	2.66	-2.66
Badod-Kota/Morak	-107	-75	0	229	0.00	4.45	-4.45
Mundra-Mohindergarh(HVDC)	1601	1701	1703	0	40.05	0.00	40.05
Sub Total WR	2190	2180			65.58	11.05	54.53
Pusauli Bypass	200	200	200	0	4.85	0.00	4.85
MZP- GKP (D/C)	99	329	488	0	5.76	0.00	5.76
Patna-Balia(D/C)	449	502	753	0	12.69	0.00	12.69
B'Sharif-Balia (D/C)	212	147	481	0	5.19	0.00	5.19
Pusauli-Balia	-55	-58	28	117	0.00	1.01	-1.01
Gaya-Fatehpur (765 Kv)	-7	112	277	29	3.12	0.00	3.12
Pusauli-Sahupuri	119	109	200	0	3.44	0.00	3.44
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-30	0	37	0.00	0.84	-0.84
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	985	1311			35.05	1.85	33.20
Total IR Exch	3175	3491			100.63	12.90	87.73

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
33.12	0.63	33.75	17.03	-16.46	4.73	1.40	4.11	-4.11

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
59.62	37.90	97.52	33.20	54.53	87.73	-26.43	16.63	-9.80

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	1.50	95.20	4.90	93.70	42.60	4.80

<----- 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)		
50.35	16.03	49.54	17.42	49.98	0.16	0.12	50.29	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	415	00:00	405	13:16	0.0	0.0	0.0	0.0
Gorakhpur	400	426	21:57	409	12:47	0.0	0.0	31.6	0.0
Barailly	400	423	20:01	394	15:29	0.0	0.0	2.3	0.0
Kanpur	400	423	04:02	400	09:18	0.0	0.0	11.9	0.0
Dadri	400	424	04:01	404	09:46	0.0	0.0	15.1	0.0
Ballabgarh	400	432	04:02	405	09:18	0.0	0.0	45.5	0.8
Bawana	400	427	04:02	406	09:18	0.0	0.0	30.4	0.0
Bassi	400	424	04:02	389	10:18	0.0	0.2	2.5	0.0
Hissar	400	414	04:01	392	09:18	0.0	0.0	0.0	0.0
Moga	400	421	23:59	393	11:43	0.0	0.0	0.1	0.0
Abdullapur	400	425	20:59	404	10:25	0.0	0.0	3.5	0.0
Nalagarh	400	426	20:47	400	09:18	0.0	0.0	10.8	0.0
Kishenpur	400	420	23:25	388	11:43	0.0	0.3	0.0	0.0
Wagoora	400	409	13:02	366	11:43	17.9	58.2	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	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Balia	765	767	20:04	721	14:47	10.0	35.6	0.0	0.0
Moga	765	788	23:59	739	11:43	0.0	1.1	0.0	0.0
Agra	765	814	04:03	761	09:18	0.0	0.0	21.2	0.0
Bhiwani	765	798	04:03	754	09:18	0.0	0.0	0.0	0.0
Unnao	765	763	23:58	731	09:20	0.0	24.0	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	506.18	1367.40	498.31	1029.80	171.85	563.11
Pong	426.72	384.05	415.37	693.24	413.83	633.63	66.37	468.13
Tehri	829.79	740.04	818.40	970.25	818.65	982.26	48.62	146.00
Koteshwar	612.50	598.50	608.15	4.55	NA	NA	146.00	148.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	55.46	48.42
Rihand	268.22	252.98	261.52	390.50	262.65	457.50	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	514.28	144.00	520.13	144.00	63.74	122.36

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 10.12.2013 :

1. Dense Fog reported in some part of punjab near Patiala , Malerkotla , Amritshar, Rest is Normal.

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 Mar, 2014 .