

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.11.2013
Date of Reporting : 19.11.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 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
32984	1760	34744	50.18	25735	750	26485	50.21	719.3	34.91

* 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	42.92	9.90		52.81	31.26	34.06	2.80	86.87	0.00
Haryana	64.08	0.67		64.75	35.90	35.40	-0.50	100.15	0.00
Rajasthan	97.63	4.62	5.36	107.61	69.39	64.18	-5.21	171.79	0.00
Delhi	14.65			14.65	42.12	42.99	0.87	57.64	0.02
UP	135.49	2.10	1.20	138.79	71.50	69.84	-1.66	208.63	32.35
Uttarakhand		9.65		9.65	20.16	20.46	0.29	30.11	0.84
HP		7.10		7.10	15.52	16.45	0.93	23.56	0.00
J & K		6.67	0.00	6.67	27.78	30.60	2.81	37.26	1.70
Chandigarh				0.00	3.09	3.25	0.16	3.25	0.00
Total	354.77	40.70	6.56	402.03	316.72	317.22	0.50	719.25	34.91

* 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	4356	0	28	-476	2960	0	217	-473	-11.57	
Haryana	5096	0	-250	-999	3524	0	110	-1060	-25.87	
Rajasthan	7552	0	-244	745	6418	0	-180	1519	33.99	
Delhi	3095	0	103	-647	1509	0	15	-983	-18.63	
UP	8137	1580	-954	-237	7983	750	234	-256	-7.20	
Uttarakhand	1577	80	5	466	950	0	-188	396	9.71	
HP	1195	0	8	-24	749	0	47	251	4.20	
J&K	1799	100	8	368	1555	0	135	312	7.14	
Chandigarh	177	0	2	0	87	0	-6	-10	-0.03	
Total	32984	1760	-1294	-803	25735	750	383	-305	-8.24	

* 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	1942	2095	1754	46.06	1919	45.42	0.64
	Rihand I STPS	1000	774	862	645	17.90	746	17.67	0.24
	Rihand II STPS	1000	788	1042	637	18.03	751	17.72	0.31
	Rihand III STPS	1000	413	516	372	9.64	402	9.63	0.01
	Dadri I STPS	840	814	655	451	13.19	549	13.27	-0.09
	Dadri II STPS	980	985	973	711	21.23	884	21.35	-0.13
	Unchahar I TPS	420	405	432	355	9.14	381	9.25	-0.11
	Unchahar II TPS	420	223	197	159	4.61	192	4.74	-0.13
	Unchahar III TPS	210	201	198	153	4.24	177	4.31	-0.07
	ISTPP (Jhajjar)	1500	1480	685	689	14.72	613	14.87	-0.15
	Dadri GPS	830	817	596	503	13.03	543	13.23	-0.20
	Anta GPS	419	409	269	254	6.26	261	6.32	-0.06
	Auraiya GPS	663	494	156	159	3.64	152	3.69	-0.05
	Sub Total (A)	11282	9745	8676	6842	181.69	7570	181.47	0.22
B. NPC	NAPS	440	317	356	359	7.64	319	7.61	0.04
	RAPS- B	440	419	460	463	10.06	419	10.06	0.00
	RAPS- C	440	430	474	477	10.22	426	10.32	-0.11
	Sub Total (B)	1320	1166	1290	1299	27.92	1163	27.98	-0.07
C. NHPC	Chamera I HPS	540	540	360	0	2.18	91	2.10	0.08
	Chamera II HPS	300	300	273	0	1.34	56	1.23	0.11
	Chamera III HPS	231	231	145	0	0.89	37	0.93	-0.04
	Bairasuil HPS	180	182	122	10	0.68	28	0.61	0.06
	Salal-HPS	690	139	307	150	3.42	142	3.33	0.09
	Tanakpur-HPS	94	39	41	40	0.95	40	0.94	0.01
	Uri-HPS	480	124	205	45	3.10	129	3.03	0.07
	Uri-II HPS	120	71	63	50	1.69	70	1.71	-0.02
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	209	0	3.62	151	3.23	0.39
	Sewa-II HPS	120	119	112	0	0.36	15	0.38	-0.02
	Sub Total (C)	3425	2132	1837	295	18.20	758	17.48	0.72
	D. NJPC	Nathpa Jhakri	1500	1605	1487	0	9.81	409	9.29
Sub Total (D)		1500	1605	1487	0	9.81	409	9.29	0.52
E. THDC	Tehri HPS	1000	1060	753	0	6.41	267	6.20	0.21
	Koteshwar HPS	400	92	101	91	2.02	84	2.00	0.02
	Sub Total (E)	1400	1152	854	91	8.43	351	8.20	0.23
F. BBMB	Bhakra HPS	1497	599	1077	372	15.02	626	14.39	0.63
	Dehar HPS	990	160	330	0	3.94	164	3.85	0.09
	Pong HPS	396	229	372	192	5.75	240	5.50	0.25
	Sub Total (F)	2883	989	1779	564	24.71	1030	23.73	0.98
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	72	0	0.65	27	0.68	-0.03
	KWHEP HPS(IPP)	1000	0	300	0	5.16	215	5.16	0.00
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	124	80	2.81	117	2.84	-0.03
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	496	80	8.62	359	8.68	-0.05
H. Total Regional Entities (A-G)	23472	16788	16419	9171	279.38	11641	276.83	2.56	

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	870	750	19.80	825
	Guru Nanak Dev TPS(Bhatinda)	440	170	170	4.15	173
	Guru Hargobind Singh TPS(L.mbt)	920	955	662	18.96	790
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1995	1582	42.92	1788
	Total Hydro	1148	394	442	9.90	412
Total Punjab	3768	2389	2024	52.81	2201	
Haryana	Panipat TPS	1367	470	431	10.38	433
	DCRTPP (Yamuna nagar)	600	559	501	12.36	515
	Faridabad GPS (NTPC)	432	401	166	5.57	232
	RGTPP (khedar) (IPP)	1200	504	483	11.97	499
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	744	23.79	991
	Thermal (Total)	4944	3048	2325	64.08	2670
	Total Hydro	62	29	27	0.67	28
	Total Haryana	5006	3077	2352	64.75	2698
	Rajasthan	kota TPS	1240	1141	1095	26.78
suratgarh TPS		1500	1104	989	24.57	1024
Chabra TPS		500	401	389	9.79	408
Dholpur GPS		330	104	170	2.72	113
Ramgarh GPS		111	162	151	3.77	157
RAPS A (NPC)		300	175	173	3.96	165
Barsingsar (NLC)		250	110	44	2.10	87
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	451	254	9.32	388
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	691	554	14.63	609
Thermal (Total)		6956	4339	3819	97.63	4068
Total Hydro		550	295	127	4.62	193
Wind power		2191	36	450	3.97	165
Biomass		91	28	28	0.68	28
Solar		201	0	0	0.71	30
Renewable/Others (Total)		2483	64	478	5.36	223
Total Rajasthan		9989	4698	4424	107.61	4484
UP		Anpara TPS	1630	1408	1405	30.20
	Obra TPS	1288	374	472	9.60	400
	Paricha TPS	1140	680	682	14.80	617
	Panki TPS	210	80	80	1.70	71
	Harduaganj TPS	665	497	487	10.70	446
	Tanda TPS (NTPC)	440	393	399	9.81	409
	Roza TPS (IPP)	1200	815	891	22.56	940
	Anpara-C (IPP)	1200	1408	1405	30.20	1258
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	255	254	5.92	247
	Thermal (Total)	8223	5910	6075	135.49	5646
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	116	75	2.10	88
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6076	6200	138.79	5783
Uttarakhand	Total Hydro	1303	491	356	9.65	402
	Total Uttarakhand	1303	491	356	9.65	402
Delhi	Raighat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	83	81	1.77	74
	Pragati Gas Turbine	330	315	263	7.21	300
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	160	217	5.67	236
	Thermal (Total)	2232	558	561	14.65	610
	Total Delhi	2232	558	561	14.65	610
HP	Baspa HPS (IPP)	330	29	59	1.65	69
	Malana HPS (IPP)	86	0	0	0.39	16
	Other Hydro	589	231	188	5.07	211
	Total HP	1005	260	247	7.10	296
J & K	Baglihar HPS (IPP)	450	294	126	4.19	175
	Other Hydro	323	86	119	2.48	103
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	380	245	6.67	278
Total State Control Area Generation		34390	17929	16409	402.03	16751
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2421	2042	62.40	2600
Total Regional Availability(Gross)		57862	36769	27622	743.82	30992

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6329	950	66.97	2790
State Control Area Hydro	5368	1965	1519	40.70	1696
Total Regional Hydro	15868	8294	2469	107.67	4486

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	-500	0	500	0.00	10.50	-10.50
Gwalior-Agra (D/C)	776	854	1244	0	14.61	0.00	14.61
Zerda-Kankroli	-252	-278	0	341	0.00	6.19	-6.19
Zerda-Bhinmal	-173	-170	14	269	0.00	3.52	-3.52
Malanpur-Auraiya	-136	-108	0	166	0.00	3.06	-3.06
Badod-Kota/Morak	-155	-146	0	209	0.00	3.82	-3.82
Mundra-Mohindergarh(HVDC)	1502	1001	1504	0	32.34	0.00	32.34
Sub Total WR	1262	653			46.95	27.09	19.86
Pusauli Bypass	300	300	300	0	7.21	0.00	7.21
MZP- GKP (D/C)	292	355	696	0	10.73	0.00	10.73
Patna-Balia(D/C)	234	368	573	0	10.30	0.00	10.30
B'Sharif-Balia (D/C)	172	230	410	0	7.69	0.00	7.69
Pusauli-Balia	-76	-33	82	76	0.00	0.17	-0.17
Gaya-Fatehpur (765 Kv)	130	88	397	0	4.62	0.00	4.62
Pusauli-Sahupuri	142	113	134	0	3.12	0.00	3.12
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.96	-0.96
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	1159	1389			43.67	1.13	42.54
Total IR Exch	2421	2042			90.62	28.22	62.40

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
33.37	1.03	34.40	4.67	-29.18	9.28	1.27	2.95	-2.95

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
51.30	5.72	57.02	42.54	19.86	62.40	-8.76	14.14	5.38

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	1.70	88.30	5.50	86.60	54.00	11.70

<----- 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				
50.45	3.09	49.60	9.19	50.02	0.23	0.15	50.40	49.82

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	00:00	403	09:22	0.1	0.1	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Barailly	400	427	03:06	400	09:17	0.0	0.0	17.5	0.0
Kanpur	400	425	20:38	405	09:57	0.6	0.6	18.1	0.0
Dadri	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Ballabgarh	400	412	09:40	412	09:40	0.0	0.0	0.0	0.0
Bawana	400	427	20:58	409	11:07	0.0	0.0	27.5	0.0
Bassi	400	412	00:00	412	00:00	0.0	0.0	0.0	0.0
Hissar	400	420	03:05	396	09:18	0.0	0.0	0.0	0.0
Moga	400	425	03:06	401	08:31	0.0	0.0	16.2	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	430	00:00	406	09:13	0.0	0.0	31.1	0.0
Kishenpur	400	423	00:00	397	07:15	0.0	0.0	2.8	0.0
Wagoora	400	414	00:00	377	19:36	26.2	39.1	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	766	03:08	732	09:18	0.0	26.0	0.0	0.0
Moga	765	792	20:58	760	18:08	0.0	0.0	0.0	0.0
Agra	765	820	03:08	758	06:26	0.0	0.0	39.5	0.0
Bhiwani	765	801	20:58	764	09:47	0.0	0.0	0.2	0.0
Unnao	765	771	03:03	731	06:29	0.0	15.6	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	509.42	1515.08	502.38	1192.70	241.46	417.79
Pong	426.72	384.05	418.46	821.32	417.48	781.19	77.73	312.79
Tehri	829.79	740.04	822.25	1050.00	818.65	982.26	79.47	137.00
Koteshwar	612.50	598.50	610.50	4.50	NA	NA	137.00	148.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.37	63.65
Rihand	268.22	252.98	261.82	407.50	262.98	478.20	NA	NA
RPS	352.80	343.81	352.88	NA	NA	NA	243.01	12.15
Jawahar Sagar	298.70	295.78	298.61	NA	NA	NA	253.41	163.81
RSD	527.91	487.91	516.48	144.00	520.95	144.00	86.28	222.34

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 18.11.2013 :

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 Mar, 2014 .

Report for : 18.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER