

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.11.2013
Date of Reporting : 11.11.2013

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
30528	2205	32733	50.21	25820	750	26570	50.20	671.2	37.12

* 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	22.95	10.71		33.65	44.57	46.32	1.75	79.97	0.00
Haryana	49.43	0.64		50.07	37.75	38.70	0.95	88.77	0.00
Rajasthan	83.51	4.16	9.06	96.73	73.40	68.22	-5.17	164.95	0.00
Delhi	14.35			14.35	40.02	39.47	-0.55	53.83	0.00
UP	116.65	2.98	1.20	120.83	76.99	73.41	-3.59	194.24	34.42
Uttarakhand		9.07		9.07	19.62	19.15	-0.47	28.22	1.02
HP		7.44		7.44	13.29	14.02	0.73	21.46	0.08
J & K		7.09	0.00	7.09	28.73	29.81	1.08	36.90	1.60
Chandigarh				0.00	2.81	2.91	0.10	2.91	0.00
Total	286.89	42.10	10.26	339.24	337.17	332.01	-5.16	671.25	37.12

* 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	
Punjab	3793	0	-111	-368	2921	0	211	-86	-1.53
Haryana	4566	0	-579	-1027	3444	0	296	-1032	-25.07
Rajasthan	7113	0	-348	792	6301	0	-317	1293	31.08
Delhi	2851	0	-99	-822	1472	0	-11	-1288	-23.26
UP	7781	2030	-258	-229	8433	750	-154	-229	-6.60
Uttarakhand	1416	75	-5	350	1041	0	-49	361	8.81
HP	1079	0	-60	-283	711	0	75	62	-0.44
J&K	1769	100	-71	278	1406	0	108	311	7.25
Chandigarh	160	0	1	-5	91	0	7	-5	-0.11
Total	30528	2205	-1528	-1314	25820	750	166	-614	-9.86

* 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	2083	1702	44.74	1864	44.70	0.04
	Rihand I STPS	1000	470	509	518	11.20	467	11.28	-0.08
	Rihand II STPS	1000	782	1035	694	18.09	754	18.14	-0.04
	Rihand III STPS	1000	413	514	424	9.85	411	9.89	-0.04
	Dadri I STPS	840	812	640	490	12.71	530	12.97	-0.26
	Dadri II STPS	980	980	920	930	21.84	910	22.21	-0.37
	Unchahar I TPS	420	405	329	354	8.45	352	8.55	-0.10
	Unchahar II TPS	420	404	313	309	8.09	337	8.05	0.04
	Unchahar III TPS	210	201	153	154	3.97	166	3.98	-0.01
	ISTPP (Jhajjar)	1500	1480	631	624	15.26	636	14.21	1.05
	Dadri GPS	830	815	602	476	12.67	528	12.75	-0.08
	Anta GPS	419	414	229	212	5.89	246	5.85	0.04
	Auraiya GPS	663	651	298	322	7.48	312	7.50	-0.01
	Sub Total (A)	11282	9767	8256	7209	180.25	7510	180.08	0.17
	B. NPC	NAPS	440	313	350	353	7.50	312	7.51
RAPS- B		440	415	461	458	10.00	417	9.96	0.04
RAPS- C		440	430	477	478	10.24	427	10.32	-0.08
Sub Total (B)		1320	1158	1288	1289	27.74	1156	27.79	-0.05
C. NHPC	Chamera I HPS	540	540	540	0	2.64	110	2.60	0.04
	Chamera II HPS	300	300	299	0	1.86	77	1.76	0.10
	Chamera III HPS	231	154	148	0	1.11	46	1.09	0.02
	Bairasuil HPS	180	182	182	0	0.79	33	0.73	0.06
	Salal-HPS	690	149	230	226	3.57	149	3.59	-0.02
	Tanakpur-HPS	94	45	62	42	1.13	47	1.07	0.06
	Uri-HPS	480	137	147	43	3.20	133	3.33	-0.13
	Uri-II HPS	120	79	81	62	1.99	83	1.86	0.12
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	381	0	4.33	180	4.32	0.00
	Sewa-II HPS	120	119	118	0	0.37	16	0.37	0.00
	Sub Total (C)	3425	2092	2188	373	20.98	874	20.72	0.25
	D. NJPC	Nathpa Jhakri	1500	1605	1595	0	11.31	471	11.01
Sub Total (D)		1500	1605	1595	0	11.31	471	11.01	0.30
E. THDC	Tehri HPS	1000	1060	1062	0	6.52	272	6.40	0.12
	Koteshwar HPS	400	92	72	92	2.21	92	2.20	0.01
	Sub Total (E)	1400	1152	1134	92	8.73	364	8.60	0.13
F. BBMB	Bhakra HPS	1497	617	1001	390	15.03	626	14.82	0.21
	Dehar HPS	990	181	495	0	4.68	195	4.35	0.34
	Pong HPS	396	250	306	180	6.00	250	6.00	0.00
	Sub Total (F)	2883	1048	1802	570	25.71	1071	25.16	0.55
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	108	0	0.74	31	0.70	0.04
	KWHEP HPS(IPP)	1000	0	750	0	6.14	256	6.24	-0.11
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	79	86	2.36	98	2.42	-0.05
	Budhil HPS(IPP)	70	0	10	7	0.11	5	0.00	0.11
	Sub Total (G)	1662	0	947	93	9.35	390	9.36	-0.01
H. Total Regional Entities (A-G)	23472	16822	17210	9626	284.07	11836	282.72	1.34	

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	450	615	11.80	491	
	Guru Nanak Dev TPS(Bhatinda)	440	100	100	2.15	89	
	Guru Hargobind Singh TPS(L.mbt)	920	365	504	9.01	375	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	915	1219	22.95	956	
	Total Hydro	1148	427	547	10.71	446	
	Total Punjab	3768	1342	1766	33.65	1402	
Haryana	Panipat TPS	1367	228	427	7.77	324	
	DCRTPP (Yamuna nagar)	600	559	502	12.03	501	
	Faridabad GPS (NTPC)	432	185	159	4.09	170	
	RGTPP (kheadar) (IPP)	1200	560	0	5.03	209	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	1114	744	20.51	855	
	Thermal (Total)	4944	2646	1832	49.43	2060	
	Total Hydro	62	23	24	0.64	27	
	Total Haryana	5006	2669	1856	50.07	2086	
	Rajasthan	kota TPS	1240	1148	1110	26.69	1112
suratgarh TPS		1500	1046	986	24.26	1011	
Chabra TPS		500	0	385	6.81	284	
Dholpur GPS		330	106	106	2.63	110	
Ramgarh GPS		111	151	149	3.90	162	
RAPS A (NPC)		300	180	180	4.00	167	
Barsingsar (NLC)		250	112	111	2.84	118	
Giral LTPS		250	0	55	0.19	8	
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	578	457	12.20	508	
Thermal (Total)		6956	3321	3539	83.51	3480	
Total Hydro		550	253	124	4.16	173	
Wind power		2191	247	648	7.88	328	
Biomass		91	15	15	0.37	15	
Solar		201	0	0	0.81	34	
Renewable/Others (Total)		2483	262	663	9.06	377	
Total Rajasthan		9989	3836	4326	96.73	4030	
UP		Anpara TPS	1630	799	804	19.10	796
		Obra TPS	1288	468	445	11.00	458
	Paricha TPS	1140	0	815	12.90	538	
	Panki TPS	210	77	72	1.80	75	
	Harduaganj TPS	665	498	463	11.40	475	
	Tanda TPS (NTPC)	440	335	396	9.47	395	
	Roza TPS (IPP)	1200	815	1071	21.13	881	
	Anpara-C (IPP)	1200	732	1045	22.81	950	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	278	277	7.03	293	
	Thermal (Total)	8223	4002	5388	116.65	4860	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	137	122	2.98	124	
	Cogeneration	981	50	50	1.20	50	
	Total UP	10131	4189	5560	120.83	5035	
	Uttarakhand	Total Hydro	1303	458	333	9.07	378
Total Uttarakhand		1303	458	333	9.07	378	
Delhi	Raighat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	84	83	1.93	81	
	Pragati Gas Turbine	330	266	289	6.39	266	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	290	270	6.03	251	
	Thermal (Total)	2232	640	642	14.35	598	
	Total Delhi	2232	640	642	14.35	598	
HP	Baspa HPS (IPP)	330	29	39	1.66	69	
	Malana HPS (IPP)	86	46	0	0.37	15	
	Other Hydro	589	233	213	5.41	225	
	Total HP	1005	308	252	7.44	310	
J & K	Baglihar HPS (IPP)	450	294	144	4.52	188	
	Other Hydro	323	90	115	2.58	107	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	384	259	7.09	296	
Total State Control Area Generation		34390	13826	14994	339.24	14135	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2106	2360	70.38	2932	
Total Regional Availability(Gross)		57862	33142	26980	693.68	28903	

IV. Total Hydro Generation:

Regional Entities Hydro	10500	7577	1035	73.60	3067
State Control Area Hydro	5368	1990	1661	42.10	1754
Total Regional Hydro	15868	9567	2696	115.70	4821

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	-500	-500	0	500	0.00	12.18	-12.18
Gwalior-Agra (D/C)	441	299	1056	0	12.22	0.00	12.22
Zerda-Kankroli	-45	-261	46	262	0.00	3.30	-3.30
Zerda-Bhinmal	53	-176	212	223	0.00	0.43	-0.43
Malanpur-Auraiya	-164	-159	0	176	0.00	3.80	-3.80
Badod-Kota/Morak	-79	-200	0	225	0.00	3.27	-3.27
Mundra-Mohindergarh(HVDC)	1502	1502	1505	0	35.95	0.00	35.95
Sub Total WR	1208	505			48.17	22.96	25.20
Pusaui Bypass	300	300	300	0	7.21	0.00	7.21
MZP- GKP (D/C)	262	583	880	0	13.26	0.00	13.26
Patna-Balia(D/C)	217	431	790	0	10.59	0.00	10.59
B'Sharif-Balia (D/C)	84	265	637	0	7.34	0.00	7.34
Pusaui-Balia	-68	-25	122	70	0.09	0.00	0.09
Gaya-Fatehpur (765 Kv)	-21	191	354	37	4.25	0.00	4.25
Pusaui-Sahupuri	124	110	127	0	2.44	0.00	2.44
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
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	898	1855			45.18	0.00	45.18
Total IR Exch	2106	2360			93.34	22.96	70.38

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
32.43	1.32	33.75	1.42	-28.86	10.27	0.73	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
48.39	23.01	71.40	45.18	25.20	70.38	-3.22	2.19	-1.03

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	97.43	4.20	97.43	69.11	2.57

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.40	6.02	49.72	7.55	50.06	0.18	0.09	50.32	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	416	04:05	409	06:36	0.0	0.0	0.0	0.0
Gorakhpur	400	427	05:05	417	00:39	0.0	0.0	50.3	0.0
Barilly	400	425	21:50	402	07:49	0.0	0.0	7.0	0.0
Kanpur	400	426	04:04	403	08:35	0.0	0.0	12.2	0.0
Dadri	400	424	03:00	409	10:00	0.0	0.0	0.0	0.0
Ballabgarh	400	436	04:05	413	08:39	0.0	0.0	71.7	14.6
Bawana	400	430	04:04	412	08:37	0.0	0.0	51.1	0.0
Bassi	400	430	20:47	390	07:15	0.0	0.0	15.2	0.0
Hissar	400	419	04:00	403	11:00	0.0	0.0	0.0	0.0
Moga	400	428	04:05	407	08:39	0.0	0.0	25.0	0.0
Abdullapur	400	426	22:00	412	19:00	0.0	0.0	0.0	0.0
Nalagarh	400	432	21:39	412	05:31	0.0	0.0	55.2	1.1
Kishenpur	400	428	04:04	400	18:19	0.0	0.0	16.6	0.0
Wagoora	400	413	13:03	379	18:27	0.2	14.1	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	776	22:00	744	08:00	0.0	0.0	0.0	0.0
Balia	765	763	04:05	731	09:29	0.0	23.3	0.0	0.0
Moga	765	795	03:00	764	06:00	0.0	0.0	0.0	0.0
Agra	765	818	04:04	767	07:48	0.0	0.0	35.1	0.0
Bhiwani	765	798	03:00	764	09:00	0.0	0.0	0.0	0.0
Unnao	765	769	04:05	735	07:49	0.0	10.5	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	510.12	1560.04	503.33	1232.31	249.27	403.57
Pong	426.72	384.05	419.19	848.35	418.59	821.34	113.89	348.95
Tehri	829.79	740.04	823.05	1065.64	818.65	982.26	73.35	142.00
Koteshwar	612.50	598.50	616.95	5.46	NA	NA	142.00	146.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	69.82	71.58
Rihand	268.22	252.98	261.88	411.80	263.10	486.00	NA	NA
RPS	352.80	343.81	351.63	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.49	NA	NA	NA	NA	NA
RSD	527.91	487.91	517.00	144.00	520.88	144.00	96.31	130.80

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 10.11.2013 :

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 : 10.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER