

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.11.2013
Date of Reporting : 08.11.2013

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
32331	1771	34102	50.19	24537	850	25387	50.37	679.1	28.62

* 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	25.06	10.03		35.09	46.34	47.39	1.06	82.48	0.00
Haryana	47.84	0.67		48.51	39.45	40.35	0.91	88.86	0.16
Rajasthan	81.23	3.46	11.02	95.71	69.09	60.95	-8.14	156.67	0.00
Delhi	16.96			16.96	42.86	42.83	-0.03	59.80	0.09
UP	124.97	3.32	1.20	129.50	76.56	76.95	0.38	206.44	25.50
Uttarakhand		8.30		8.30	18.93	20.50	1.57	28.80	1.37
HP		7.86		7.86	14.32	14.57	0.25	22.43	0.00
J & K		7.23	0.00	7.23	28.15	23.13	-5.02	30.36	1.50
Chandigarh				0.00	3.18	3.29	0.11	3.29	0.00
Total	296.07	40.87	12.22	349.16	338.87	329.97	-8.90	679.13	28.62

* 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	3778	0	-93	-277	3010	0	144	-2	-0.66	
Haryana	5089	16	65	-977	2969	0	47	-1006	-24.66	
Rajasthan	7267	0	-131	1280	5578	0	-511	1310	31.96	
Delhi	3184	0	-54	-716	1603	0	-69	-1137	-22.36	
UP	8698	1580	-388	-222	8564	850	294	-222	-6.42	
Uttarakhand	1496	75	50	278	1020	0	120	302	7.61	
HP	1105	0	-56	-275	692	0	112	32	0.41	
J&K	1532	100	-343	229	1015	0	-412	303	6.70	
Chandigarh	182	0	3	-18	87	0	-15	0	-0.15	
Total	32331	1771	-946	-699	24537	850	-290	-419	-7.57	

* 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	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1940	2073	1668	43.58	1816	43.03	0.55	
	Rihand I STPS	1000	818	996	732	18.21	759	18.17	0.04	
	Rihand II STPS	1000	826	1021	723	18.09	754	18.01	0.08	
	Rihand III STPS	1000	406	518	336	8.47	353	9.12	-0.66	
	Dadri I STPS	840	812	647	480	12.11	505	13.73	-1.62	
	Dadri II STPS	980	980	919	695	19.89	829	20.18	-0.28	
	Unchahar I TPS	420	405	312	317	7.80	325	7.85	-0.05	
	Unchahar II TPS	420	404	313	312	7.82	326	7.66	0.17	
	Unchahar III TPS	210	201	153	153	3.80	158	3.79	0.00	
	ISTPP (Jhajjar)	1500	1480	814	641	14.87	620	15.01	-0.14	
	Dadri GPS	830	811	593	480	12.74	531	12.89	-0.15	
	Anta GPS	419	413	259	254	6.22	259	6.18	0.04	
	Auraiya GPS	663	649	157	162	3.66	153	3.62	0.04	
	Sub Total (A)	11282	10145	8775	6953	177.26	7386	179.25	-1.98	
	B. NPC	NAPS	440	313	353	357	7.46	311	7.51	-0.05
		RAPS- B	440	414	456	461	9.92	413	9.94	-0.02
RAPS- C		440	425	478	478	10.18	424	10.20	-0.02	
Sub Total (B)		1320	1152	1287	1296	27.56	1148	27.65	-0.09	
C. NHPC	Chamera I HPS	540	540	540	0	2.09	87	2.45	-0.36	
	Chamera II HPS	300	300	302	0	1.87	78	1.77	0.10	
	Chamera III HPS	231	154	145	0	1.07	44	1.05	0.02	
	Bairasuil HPS	180	182	180	0	0.78	32	0.66	0.12	
	Salal-HPS	690	134	339	139	3.13	130	3.21	-0.08	
	Tanakpur-HPS	94	48	51	48	1.14	47	1.15	-0.01	
	Uri-HPS	480	125	202	102	3.03	126	3.19	-0.16	
	Uri-II HPS	120	77	123	35	1.84	77	1.87	-0.03	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	397	0	4.22	176	3.99	0.23	
	Sewa-II HPS	120	119	120	0	0.38	16	0.39	-0.01	
	Sub Total (C)	3425	2066	2399	324	19.54	814	19.73	-0.18	
	D. NJPC	Nathpa Jhakri	1500	1605	1605	0	11.24	468	11.20	0.04
Sub Total (D)		1500	1605	1605	0	11.24	468	11.20	0.04	
E. THDC	Tehri HPS	1000	1060	1063	0	7.16	298	7.00	0.16	
	Koteshwar HPS	400	92	102	87	2.21	92	2.20	0.01	
	Sub Total (E)	1400	1152	1165	87	9.37	390	9.20	0.17	
F. BBMB	Bhakra HPS	1497	633	1020	510	15.23	635	15.18	0.05	
	Dehar HPS	990	181	495	0	4.75	198	4.35	0.41	
	Pong HPS	396	262	306	180	6.32	263	6.28	0.04	
	Sub Total (F)	2883	1075	1821	690	26.30	1096	25.81	0.49	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	108	0	0.71	30	0.69	0.02	
	KWHEP HPS(IPP)	1000	0	671	0	6.02	251	6.00	0.03	
	Malana Stg-II HPS	100	0	91	0	0.12	5	0.24	-0.12	
	Shree Cement TPS	300	0	112	75	2.17	90	2.42	-0.25	
	Budhil HPS(IPP)	70	0	7	7	0.16	7	0.16	0.01	
	Sub Total (G)	1662	0	989	82	9.18	382	9.50	-0.32	
H. Total Regional Entities (A-G)	23472	17195	18041	9432	280.46	11686	282.33	-1.87		

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	620	600	13.79	574
	Guru Nanak Dev TPS(Bhatinda)	440	100	90	2.02	84
	Guru Hargobind Singh TPS(L.mbt)	920	440	344	9.25	386
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1160	1034	25.06	1044
	Total Hydro	1148	323	436	10.03	418
Total Punjab	3768	1483	1470	35.09	1462	
Haryana	Panipat TPS	1367	468	431	10.22	426
	DCRTPP (Yamuna nagar)	600	557	502	12.17	507
	Faridabad GPS (NTPC)	432	195	159	4.06	169
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1045	708	21.39	891
	Thermal (Total)	4944	2265	1800	47.84	1993
	Total Hydro	62	18	20	0.67	28
	Total Haryana	5006	2283	1820	48.51	2021
	Rajasthan	kota TPS	1240	1150	1078	26.26
suratgarh TPS		1500	939	754	20.80	867
Chabra TPS		500	394	381	9.60	400
Dholpur GPS		330	106	106	2.61	109
Ramgarh GPS		111	140	137	3.70	154
RAPS A (NPC)		300	179	179	4.05	169
Barsingsar (NLC)		250	112	112	2.56	107
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	479	440	11.66	486
Thermal (Total)		6956	3499	3187	81.23	3385
Total Hydro		550	36	100	3.46	144
Wind power		2191	291	523	10.10	421
Biomass		91	25	25	0.60	25
Solar		201	3	0	0.32	13
Renewable/Others (Total)		2483	316	548	11.02	459
Total Rajasthan		9989	3851	3835	95.71	3988
UP		Anpara TPS	1630	1235	1255	29.80
	Obra TPS	1288	471	392	11.10	463
	Paricha TPS	1140	665	657	15.90	663
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	428	405	10.60	442
	Tanda TPS (NTPC)	440	293	400	8.81	367
	Roza TPS (IPP)	1200	819	765	20.80	867
	Anpara-C (IPP)	1200	683	851	20.92	872
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	283	281	7.05	294
	Thermal (Total)	8223	4877	5006	124.97	5207
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	139	168	3.32	138
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5066	5224	129.50	5396
Uttarakhand	Total Hydro	1303	521	206	8.30	346
	Total Uttarakhand	1303	521	206	8.30	346
Delhi	Raighat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	83	83	2.00	83
	Pragati Gas Turbine	330	268	263	6.86	286
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	395	350	8.10	338
	Thermal (Total)	2232	746	696	16.96	707
Total Delhi	2232	746	696	16.96	707	
HP	Baspa HPS (IPP)	330	30	30	1.93	80
	Malana HPS (IPP)	86	75	0	0.31	13
	Other Hydro	589	214	183	5.62	234
	Total HP	1005	319	213	7.86	328
J & K	Baglihar HPS (IPP)	450	292	144	4.65	194
	Other Hydro	323	90	115	2.58	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	382	259	7.23	301
Total State Control Area Generation		34390	14651	13723	349.16	14548
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1913	2143	69.67	2903
Total Regional Availability(Gross)		57862	34605	25298	699.28	29137

IV. Total Hydro Generation:

Regional Entities Hydro	10500	7860	1101	73.30	3054
State Control Area Hydro	5368	1738	1402	40.87	1703
Total Regional Hydro	15868	9598	2503	114.17	4757

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	-400	-400	0	500	0.00	10.18	-10.18
Gwalior-Agra (D/C)	389	624	1318	0	20.91	0.00	20.91
Zerda-Kankroli	-33	-244	127	331	0.00	1.66	-1.66
Zerda-Bhinmal	-121	-345	0	389	0.00	4.29	-4.29
Malanpur-Auraiya	-121	-135	0	136	0.00	2.55	-2.55
Badod-Kota/Morak	-99	-214	0	285	0.00	3.91	-3.91
Mundra-Mohindergarh(HVDC)	1166	1163	1169	0	28.20	0.00	28.20
Sub Total WR	781	449			49.11	22.59	26.53
Pusauli Bypass	100	100	100	0	2.44	0.00	2.44
MZP- GKP (D/C)	405	789	1068	0	17.55	0.00	17.55
Patna-Balia(D/C)	440	488	826	0	13.39	0.00	13.39
B'Sharif-Balia (D/C)	414	492	837	0	12.93	0.00	12.93
Pusauli-Balia	72	105	222	0	2.91	0.00	2.91
Gaya-Fatehpur (765 Kv)	-436	-383	0	437	0.00	8.63	-8.63
Pusauli-Sahupuri	137	103	137	0	2.55	0.00	2.55
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	1132	1694			51.77	8.63	43.14
Total IR Exch	1913	2143			100.88	31.22	69.67

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
32.77	1.45	34.23	1.36	-28.32	8.72	4.09	2.92	-2.92

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
47.24	25.92	73.16	43.14	26.53	69.67	-4.09	0.60	-3.49

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	0.10	0.90	88.80	2.30	88.00	62.40	11.10

<----- 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)		
50.39	10.04	49.48	18.10	50.04	0.19	0.13	50.39	49.88

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	413	03:02	403	10:47	0.0	0.0	0.0	0.0
Gorakhpur	400	416	14:15	416	14:15	0.0	0.0	0.0	0.0
Bareilly	400	424	20:32	401	06:49	0.0	0.0	10.2	0.0
Kanpur	400	422	21:57	401	06:40	0.0	0.0	1.9	0.0
Dadri	400	426	03:02	407	09:25	0.0	0.0	22.1	0.0
Ballabgarh	400	435	03:02	412	09:19	0.0	0.0	51.9	17.4
Bawana	400	429	03:04	409	09:27	0.0	0.0	33.5	0.0
Bassi	400	431	20:50	396	08:55	0.0	0.0	22.0	0.0
Hissar	400	418	21:23	400	18:10	0.0	0.0	0.0	0.0
Moga	400	425	00:47	147	01:02	38.4	38.4	21.6	0.0
Abdullapur	400	427	23:59	406	05:50	0.0	0.0	22.6	0.0
Nalagarh	400	428	02:00	410	05:51	0.0	0.0	38.7	0.0
Kishenpur	400	434	02:27	401	18:10	0.0	0.0	26.3	2.3
Wagoora	400	430	02:28	380	18:16	0.0	8.4	16.2	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	762	21:26	724	09:53	2.9	46.4	0.0	0.0
Moga	765	801	03:07	759	09:27	0.0	0.0	0.0	0.0
Agra	765	808	02:42	757	06:51	0.0	0.0	21.6	0.0
Bhiwani	765	805	03:02	768	09:06	0.0	0.0	6.6	0.0
Unnao	765	780	20:54	743	09:27	0.0	0.0	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	510.82	1590.18	504.12	1272.20	242.93	353.17
Pong	426.72	384.05	419.91	889.22	419.55	861.93	72.63	362.54
Tehri	829.79	740.04	823.95	1086.79	818.65	982.26	55.12	137.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	67.05	60.01
Rihand	268.22	252.98	261.98	417.20	263.35	502.00	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	517.61	144.00	520.92	144.00	67.14	172.65

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 07.11.2013 :

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 : 07.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER