

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.11.2013
Date of Reporting : 09.11.2013

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
32899	1755	34654	50.30	24329	750	25079	50.19	679.1	32.71

* 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	23.21	10.30		33.50	45.49	47.45	1.96	80.95	0.00
Haryana	49.43	0.69		50.12	39.82	42.58	2.76	92.70	0.47
Rajasthan	80.69	5.15	12.88	98.71	67.87	63.62	-4.25	162.33	0.00
Delhi	16.42			16.42	41.80	40.42	-1.38	56.84	0.03
UP	126.50	2.82	1.20	130.52	71.25	67.04	-4.21	197.56	29.34
Uttarakhand		8.13		8.13	18.40	20.18	1.78	28.31	1.34
HP		8.00		8.00	14.14	14.14	0.04	22.18	0.03
J & K		6.74	0.00	6.74	28.08	28.21	0.13	34.95	1.50
Chandigarh				0.00	3.16	3.30	0.13	3.30	0.00
Total	296.24	41.82	14.08	352.14	330.00	326.97	-3.03	679.11	32.71

* 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	4192	0	240	-381	2540	0	143	18	0.00	
Haryana	5456	0	235	-970	3134	0	247	-1004	-26.40	
Rajasthan	7105	0	-487	1217	6277	0	27	868	28.27	
Delhi	3088	0	-222	-640	1554	0	-54	-1143	-20.37	
UP	8588	1580	-434	-222	7808	750	-266	-222	-6.42	
Uttarakhand	1441	75	87	294	985	0	120	309	7.80	
HP	1103	0	-117	-246	672	0	26	62	0.35	
J&K	1748	100	-70	229	1266	0	40	303	6.70	
Chandigarh	178	0	-4	0	93	0	-8	-5	-0.07	
Total	32899	1755	-773	-718	24329	750	275	-813	-10.15	

* 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	1611	1541	2069	37.64	1568	37.63	0.02
	Rihand I STPS	1000	775	926	723	17.62	734	17.40	0.22
	Rihand II STPS	1000	782	1033	635	17.48	728	17.29	0.19
	Rihand III STPS	1000	412	510	436	9.60	400	9.50	0.11
	Dadri I STPS	840	812	620	482	12.97	540	12.79	0.18
	Dadri II STPS	980	980	793	713	19.92	830	20.08	-0.16
	Unchahar I TPS	420	405	341	307	8.01	334	8.15	-0.15
	Unchahar II TPS	420	404	346	310	8.10	337	8.11	-0.01
	Unchahar III TPS	210	201	178	153	4.04	168	4.04	-0.01
	ISTPP (Jhajjar)	1500	1480	817	643	14.87	620	15.28	-0.41
	Dadri GPS	830	811	598	500	13.00	542	13.32	-0.32
	Anta GPS	419	413	272	256	6.30	263	6.47	-0.16
	Auraiya GPS	663	649	296	160	5.68	237	6.00	-0.32
	Sub Total (A)	11282	9737	8271	7387	175.24	7301	176.06	-0.82
B. NPC	NAPS	440	313	353	351	7.53	314	7.51	0.02
	RAPS- B	440	413	456	461	9.92	413	7.55	2.37
	RAPS- C	440	425	478	478	10.18	424	10.20	-0.02
	Sub Total (B)	1320	1151	1287	1290	27.63	1151	25.26	2.37
C. NHPC	Chamera I HPS	540	540	540	0	2.46	103	2.40	0.06
	Chamera II HPS	300	300	241	0	1.75	73	1.70	0.05
	Chamera III HPS	231	154	138	0	1.15	48	1.09	0.06
	Bairasuil HPS	180	182	30	0	0.87	36	0.74	0.13
	Salal-HPS	690	149	242	240	3.62	151	3.59	0.04
	Tanakpur-HPS	94	41	51	44	1.01	42	0.98	0.03
	Uri-HPS	480	134	207	24	3.32	138	3.19	0.14
	Uri-II HPS	120	74	62	46	1.90	79	1.90	0.00
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	381	0	4.12	172	4.17	-0.05
	Sewa-II HPS	120	119	122	0	0.34	14	0.38	-0.04
	Sub Total (C)	3425	2081	2014	354	20.55	856	20.14	0.41
	D. NJPC	Nathpa Jhakri	1500	1605	1628	0	11.36	473	11.10
Sub Total (D)		1500	1605	1628	0	11.36	473	11.10	0.26
E. THDC	Tehri HPS	1000	1060	1045	0	6.49	270	6.40	0.09
	Koteshwar HPS	400	92	101	90	2.21	92	2.20	0.01
	Sub Total (E)	1400	1152	1146	90	8.70	363	8.60	0.10
F. BBMB	Bhakra HPS	1497	624	1022	517	15.17	632	14.97	0.20
	Dehar HPS	990	181	495	0	4.85	202	4.35	0.51
	Pong HPS	396	268	306	240	6.40	267	6.43	-0.03
	Sub Total (F)	2883	1073	1823	757	26.42	1101	25.74	0.68
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	49	0	0.68	28	0.65	0.04
	KWHEP HPS(IPP)	1000	0	588	0	6.12	255	5.76	0.36
	Malana Stg-II HPS	100	0	0	0	0.19	8	0.17	0.02
	Shree Cement TPS	300	0	112	75	2.17	90	2.42	-0.25
	Budhil HPS(IPP)	70	0	10	7	0.11	5	0.16	-0.04
	Sub Total (G)	1662	0	759	82	9.28	386	9.15	0.13
H. Total Regional Entities (A-G)	23472	16798	16928	9960	279.17	11632	276.05	3.12	

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	630	450	11.29	470
	Guru Nanak Dev TPS(Bhatinda)	440	120	90	2.13	89
	Guru Hargobind Singh TPS(L.mbt)	920	509	342	9.79	408
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1259	882	23.21	967
	Total Hydro	1148	454	427	10.30	429
	Total Punjab	3768	1713	1309	33.50	1396
Haryana	Panipat TPS	1367	462	433	10.39	433
	DCRTPP (Yamuna nagar)	600	549	505	12.14	506
	Faridabad GPS (NTPC)	432	191	159	4.05	169
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	744	22.85	952
	Thermal (Total)	4944	2316	1841	49.43	2060
	Total Hydro	62	26	29	0.69	29
	Total Haryana	5006	2342	1870	50.12	2088
	Rajasthan	kota TPS	1240	901	887	22.01
suratgarh TPS		1500	958	947	23.80	992
Chabra TPS		500	394	397	10.15	423
Dholpur GPS		330	107	108	2.63	109
Ramgarh GPS		111	106	146	3.13	130
RAPS A (NPC)		300	180	179	4.01	167
Barsingsar (NLC)		250	111	111	2.62	109
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	467	449	12.33	514
Thermal (Total)		6956	3224	3224	80.69	3362
Total Hydro		550	215	221	5.15	214
Wind power		2191	348	694	11.53	481
Biomass		91	23	23	0.55	23
Solar		201	0	0	0.80	33
Renewable/Others (Total)		2483	371	717	12.88	537
Total Rajasthan		9989	3810	4162	98.71	4113
UP		Anpara TPS	1630	1210	1206	28.80
	Obra TPS	1288	473	481	11.50	479
	Paricha TPS	1140	756	714	17.60	733
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	462	427	10.60	442
	Tanda TPS (NTPC)	440	399	298	8.28	345
	Roza TPS (IPP)	1200	806	815	20.60	858
	Anpara-C (IPP)	1200	770	856	22.43	935
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	281	281	6.70	279
	Thermal (Total)	8223	5157	5078	126.50	5271
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	113	156	2.82	117
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5320	5284	130.52	5438
Uttarakhand	Total Hydro	1303	450	191	8.13	339
	Total Uttarakhand	1303	450	191	8.13	339
Delhi	Raighat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	83	83	1.95	81
	Pragati Gas Turbine	330	314	264	6.80	283
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	390	335	7.67	319
	Thermal (Total)	2232	787	682	16.42	684
	Total Delhi	2232	787	682	16.42	684
HP	Baspa HPS (IPP)	330	30	40	1.80	75
	Malana HPS (IPP)	86	52	0	0.41	17
	Other Hydro	589	249	223	5.80	242
	Total HP	1005	331	263	8.00	334
J & K	Baglihar HPS (IPP)	450	292	144	4.16	173
	Other Hydro	323	90	115	2.58	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	382	259	6.74	281
Total State Control Area Generation		34390	15135	14020	352.14	14673
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2029	1896	67.51	2813
Total Regional Availability(Gross)		57862	34092	25876	698.82	29118

IV. Total Hydro Generation:

Regional Entities Hydro	10500	7248	1201	74.02	3084
State Control Area Hydro	5368	1971	1546	41.82	1743
Total Regional Hydro	15868	9219	2747	115.85	4827

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	-200	-350	0	500	0.00	8.59	-8.59
Gwalior-Agra (D/C)	402	346	1048	0	14.37	0.00	14.37
Zerda-Kankroli	-150	-290	0	326	0.00	4.63	-4.63
Zerda-Bhinmal	-72	-197	104	266	0.00	2.05	-2.05
Malanpur-Auraiya	-159	-122	0	181	0.00	3.22	-3.22
Badod-Kota/Morak	-72	-194	0	218	0.00	3.63	-3.63
Mundra-Mohindergarh(HVDC)	1501	1201	1504	0	33.71	0.00	33.71
Sub Total WR	1250	394			48.08	22.12	25.95
Pusauli Bypass	100	100	100	0	2.43	0.00	2.43
MZP- GKP (D/C)	398	739	968	0	17.06	0.00	17.06
Patna-Balia(D/C)	310	461	812	0	12.94	0.00	12.94
B'Sharif-Balia (D/C)	260	365	789	0	11.10	0.00	11.10
Pusauli-Balia	21	74	214	0	2.38	0.00	2.38
Gaya-Fatehpur (765 Kv)	-444	-346	111	462	0.00	7.10	-7.10
Pusauli-Sahupuri	134	109	134	0	2.75	0.00	2.75
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	779	1502			48.66	7.10	41.56
Total IR Exch	2029	1896			96.73	29.23	67.51

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
34.93	1.48	36.41	1.79	-28.32	9.56	0.62	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
50.68	20.05	70.73	41.56	25.95	67.51	-9.12	5.90	-3.22

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	1.10	89.50	4.40	89.50	60.80	10.50

<----- 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			
50.41	17.02	49.59	5.42	50.03	0.20	0.14	50.35	49.87

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	21:27	405	14:39	0.0	0.0	0.0	0.0
Gorakhpur	400	427	20:56	412	13:57	0.0	0.0	41.6	0.0
Barilly	400	425	20:24	402	07:36	0.0	0.0	16.5	0.0
Kanpur	400	423	20:59	404	07:35	0.0	0.0	12.0	0.0
Dadri	400	424	04:03	407	07:38	0.0	0.0	28.6	0.0
Ballabgarh	400	433	20:56	412	12:18	0.0	0.0	56.2	8.3
Bawana	400	428	03:30	410	12:19	0.0	0.0	46.1	0.0
Bassi	400	429	20:55	397	07:35	0.0	0.0	19.2	0.0
Hissar	400	421	04:00	399	12:24	0.0	0.0	0.2	0.0
Moga	400	426	01:31	406	10:18	0.0	0.0	36.5	0.0
Abdullapur	400	427	00:00	406	18:12	0.0	0.0	16.3	0.0
Nalagarh	400	431	04:00	409	12:52	0.0	0.0	42.7	0.2
Kishenpur	400	428	01:29	400	18:26	0.0	0.0	19.6	0.0
Wagoora	400	414	03:57	380	18:28	0.0	13.5	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	779	21:53	738	13:56	0.0	0.2	0.0	0.0
Balia	765	764	20:55	739	07:35	0.0	4.4	0.0	0.0
Moga	765	798	04:00	762	10:18	0.0	0.0	0.0	0.0
Agra	765	816	20:55	793	18:28	0.0	0.0	70.2	0.0
Bhiwani	765	806	04:03	772	07:36	0.0	0.0	9.3	0.0
Unnao	765	779	21:30	745	07:36	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	510.30	1560.04	503.59	1245.57	276.20	413.96
Pong	426.72	384.05	419.28	861.93	418.84	834.82	136.26	371.32
Tehri	829.79	740.04	823.25	1070.93	818.65	982.26	58.06	141.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	72.79	66.63
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 08.11.2013 :

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 : 08.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER