

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.11.2013
Date of Reporting : 12.11.2013

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
32910	2090	35000	50.27	25029	1190	26219	50.22	688.0	44.52

* 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	14.72	10.86		25.58	46.84	49.16	2.32	74.74	0.00
Haryana	54.31	0.67		54.98	41.69	43.06	1.37	98.04	0.00
Rajasthan	86.91	5.38	4.04	96.33	75.55	72.55	-3.00	168.89	0.00
Delhi	14.27			14.27	42.44	42.83	0.38	57.10	0.00
UP	120.68	3.08	1.20	124.95	74.73	73.54	-1.19	198.49	41.03
Uttarakhand		8.57		8.57	18.80	19.94	1.14	28.51	1.88
HP		7.60		7.60	13.73	14.89	1.16	22.49	0.01
J & K		7.09	0.00	7.09	27.83	29.42	1.60	36.52	1.60
Chandigarh				0.00	3.02	3.26	0.24	3.26	0.00
Total	290.89	43.25	5.24	339.38	344.63	348.65	4.01	688.03	44.52

* 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	3888	0	52	-371	2750	0	45	56	-2.79	
Haryana	5181	0	-158	-985	3479	0	231	-1041	-25.28	
Rajasthan	7553	0	-204	813	6157	0	-233	986	28.32	
Delhi	3164	0	10	-640	1426	0	-127	-1220	-19.64	
UP	8586	1880	-317	-203	8098	1190	-92	-222	-6.39	
Uttarakhand	1485	110	38	352	968	0	-20	337	8.46	
HP	1143	0	-7	-271	656	0	80	61	0.37	
J&K	1736	100	-87	276	1396	0	112	309	7.18	
Chandigarh	174	0	0	0	99	0	17	-5	-0.06	
Total	32910	2090	-673	-1029	25029	1190	13	-739	-9.82	

* 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	2066	2087	46.57	1941	46.56	0.01
	Rihand I STPS	1000	389	515	412	9.42	392	9.27	0.14
	Rihand II STPS	1000	740	1030	746	17.88	745	17.65	0.23
	Rihand III STPS	1000	391	508	400	9.31	388	9.38	-0.06
	Dadri I STPS	840	812	642	472	12.94	539	13.18	-0.23
	Dadri II STPS	980	980	860	708	20.65	860	20.83	-0.18
	Unchahar I TPS	420	405	332	336	8.77	365	8.82	-0.05
	Unchahar II TPS	420	345	176	311	7.16	298	7.39	-0.23
	Unchahar III TPS	210	201	154	154	4.24	177	4.25	-0.02
	ISTPP (Jhajjar)	1500	1480	643	634	14.72	613	14.96	-0.24
	Dadri GPS	830	818	598	506	13.22	551	13.52	-0.30
	Anta GPS	419	414	252	253	6.33	264	6.41	-0.09
	Auraiya GPS	663	638	321	322	7.59	316	7.69	-0.10
	Sub Total (A)	11282	9552	8097	7341	178.79	7450	179.90	-1.11
B. NPC	NAPS	440	317	349	359	7.58	316	7.61	-0.03
	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	1162	1287	1295	27.82	1159	27.89	-0.07
C. NHPC	Chamera I HPS	540	540	540	0	2.67	111	2.60	0.07
	Chamera II HPS	300	300	292	0	1.77	74	1.75	0.02
	Chamera III HPS	231	183	147	0	1.11	46	1.10	0.01
	Bairasuil HPS	180	182	20	0	0.74	31	0.70	0.04
	Salal-HPS	690	156	230	145	3.84	160	3.74	0.10
	Tanakpur-HPS	94	44	50	45	1.10	46	1.06	0.04
	Uri-HPS	480	125	212	48	3.30	137	3.16	0.14
	Uri-II HPS	120	79	106	46	1.98	82	1.89	0.09
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	391	0	4.10	171	3.92	0.18
	Sewa-II HPS	120	119	91	0	0.38	16	0.39	-0.01
	Sub Total (C)	3425	2115	2079	284	20.98	874	20.31	0.67
D. NJPC	Nathpa Jhakri	1500	1605	1613	0	11.16	465	11.01	0.15
	Sub Total (D)	1500	1605	1613	0	11.16	465	11.01	0.15
E. THDC	Tehri HPS	1000	1060	1064	0	6.53	272	6.40	0.13
	Koteshwar HPS	400	92	101	92	2.23	93	2.20	0.03
	Sub Total (E)	1400	1152	1165	92	8.76	365	8.60	0.16
F. BBMB	Bhakra HPS	1497	618	984	390	15.09	629	14.83	0.26
	Dehar HPS	990	178	290	0	4.69	195	4.28	0.41
	Pong HPS	396	266	312	180	6.51	271	6.37	0.14
	Sub Total (F)	2883	1062	1586	570	26.29	1095	25.48	0.81
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	22	0	0.76	32	0.59	0.17
	KWHEP HPS(IPP)	1000	0	748	0	5.69	237	5.76	-0.08
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	124	85	2.64	110	2.65	-0.02
	Budhil HPS(IPP)	70	0	10	7	0.11	5	0.00	0.11
	Sub Total (G)	1662	0	904	92	9.19	383	9.00	0.19
H. Total Regional Entities (A-G)	23472	16647	16731	9674	282.99	11791	282.19	0.80	

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	330	480	2.29	95	
	Guru Nanak Dev TPS(Bhatinda)	440	120	98	2.28	95	
	Guru Hargobind Singh TPS(L.mbt)	920	506	342	10.15	423	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	956	920	14.72	613	
	Total Hydro	1148	453	404	10.86	453	
	Total Punjab	3768	1409	1324	25.58	1066	
Haryana	Panipat TPS	1367	221	210	5.15	215	
	DCRTPP (Yamuna nagar)	600	513	501	12.07	503	
	Faridabad GPS (NTPC)	432	167	158	4.16	173	
	RGTPP (khedar) (IPP)	1200	552	430	11.56	482	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	1049	703	21.38	891	
	Thermal (Total)	4944	2502	2002	54.31	2263	
	Total Hydro	62	28	27	0.67	28	
		Total Haryana	5006	2530	2029	54.98	2291
	Rajasthan	kota TPS	1240	1157	1088	27.15	1131
suratgarh TPS		1500	1095	975	25.33	1056	
Chabra TPS		500	207	198	5.62	234	
Dholpur GPS		330	139	107	3.06	127	
Ramgarh GPS		111	151	153	3.96	165	
RAPS A (NPC)		300	180	180	4.03	168	
Barsingsar (NLC)		250	219	207	4.94	206	
Giral LTPS		250	0	0	0.04	2	
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	582	432	12.79	533	
Thermal (Total)		6956	3730	3340	86.91	3621	
Total Hydro		550	284	128	5.38	224	
Wind power		2191	151	117	3.31	138	
Biomass		91	11	11	0.25	11	
Solar		201	0	0	0.48	20	
Renewable/Others (Total)		2483	162	128	4.04	168	
		Total Rajasthan	9989	4176	3596	96.33	4014
UP		Anpara TPS	1630	804	810	19.10	796
	Obra TPS	1288	477	427	11.00	458	
	Paricha TPS	1140	543	393	10.70	446	
	Panki TPS	210	72	77	1.80	75	
	Harduaganj TPS	665	453	468	11.00	458	
	Tanda TPS (NTPC)	440	401	400	9.78	408	
	Roza TPS (IPP)	1200	797	1080	24.62	1026	
	Anpara-C (IPP)	1200	1070	999	24.94	1039	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	223	404	7.73	322	
	Thermal (Total)	8223	4840	5058	120.68	5028	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	128	123	3.08	128	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5018	5231	124.95	5206
	Uttarakhand	Total Hydro	1303	469	300	8.57	357
Total Uttarakhand		1303	469	300	8.57	357	
Delhi	Raighat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	83	83	1.94	81	
	Pragati Gas Turbine	330	314	264	6.46	269	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	270	255	5.87	245	
	Thermal (Total)	2232	667	602	14.27	595	
		Total Delhi	2232	667	602	14.27	595
HP	Baspa HPS (IPP)	330	30	40	1.88	78	
	Malana HPS (IPP)	86	9	0	0.34	14	
	Other Hydro	589	201	182	5.38	224	
		Total HP	1005	240	222	7.60	316
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	14893	13563	339.38	14141	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2573	2929	81.23	3385	
Total Regional Availability(Gross)		57862	34197	26166	703.60	29317	

IV. Total Hydro Generation:

Regional Entities Hydro	10500	7213	946	73.63	3068
State Control Area Hydro	5368	1986	1463	43.25	1802
Total Regional Hydro	15868	9199	2409	116.88	4870

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	-110	-500	0	500	0.00	7.97	-7.97
Gwalior-Agra (D/C)	379	551	1075	0	16.20	0.00	16.20
Zerda-Kankroli	-122	-136	82	275	0.00	2.72	-2.72
Zerda-Bhinmal	-10	1	259	138	0.58	0.43	0.15
Malanpur-Auraiya	-156	-160	0	163	0.00	3.57	-3.57
Badod-Kota/Morak	-3	-114	0	165	0.00	1.74	-1.74
Mundra-Mohindergarh(HVDC)	1500	1200	1504	0	34.71	0.00	34.71
Sub Total WR	1478	842			51.48	16.42	35.06
Pusauli Bypass	100	300	300	0	5.52	0.00	5.52
MZP- GKP (D/C)	358	595	751	0	13.44	0.00	13.44
Patna-Balia(D/C)	302	475	732	0	11.38	0.00	11.38
B'Sharif-Balia (D/C)	154	396	590	0	8.01	0.00	8.01
Pusauli-Balia	-4	6	112	37	0.84	0.00	0.84
Gaya-Fatehpur (765 Kv)	77	215	348	0	4.57	0.00	4.57
Pusauli-Sahupuri	108	100	137	0	2.42	0.00	2.42
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	1095	2087			46.17	0.00	46.17
Total IR Exch	2573	2929			97.66	16.42	81.23

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
36.76	1.32	38.08	1.40	-28.53	9.41	1.82	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
51.84	28.28	80.12	46.17	35.06	81.23	-5.66	6.78	1.12

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	3.78	99.03	4.98	95.25	58.33	0.97

<----- 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				
50.33	17.31	49.56	6.50	50.03	0.17	0.10	50.30	49.74

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	412	00:00	412	09:00	0.0	0.0	0.0	0.0
Gorakhpur	400	425	22:00	409	09:00	0.0	0.0	0.0	0.0
Barailly	400	420	02:59	398	06:51	0.0	0.0	0.0	0.0
Kanpur	400	424	21:53	401	06:46	0.0	0.0	8.3	0.0
Dadri	400	423	21:53	407	08:27	0.0	0.0	12.3	0.0
Ballabgarh	400	435	03:03	411	09:30	0.0	0.0	26.1	17.4
Bawana	400	430	03:05	410	06:49	0.0	0.0	38.3	0.0
Bassi	400	424	04:03	391	06:25	0.0	0.0	5.6	0.0
Hissar	400	416	21:54	401	18:11	0.0	0.0	0.0	0.0
Moga	400	427	02:59	404	06:23	0.0	0.0	27.5	0.0
Abdullapur	400	427	03:00	410	19:00	0.0	0.0	0.0	0.0
Nalagarh	400	429	00:53	409	06:51	0.0	0.0	34.5	0.0
Kishenpur	400	428	02:59	398	18:13	0.0	0.0	17.6	0.0
Wagoora	400	413	03:26	376	18:24	4.4	19.9	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	22:15	743	17:40	0.0	0.0	0.0	0.0
Balia	765	765	22:15	729	06:49	0.0	19.8	0.0	0.0
Moga	765	795	23:42	761	18:13	0.0	0.0	0.0	0.0
Agra	765	811	03:11	760	06:49	0.0	0.0	27.7	0.0
Bhiwani	765	795	20:49	770	18:13	0.0	0.0	0.0	0.0
Unnao	765	768	21:54	731	06:51	0.0	15.8	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	510.02	1545.02	503.22	1232.31	247.21	423.53
Pong	426.72	384.05	418.90	848.35	377.24	821.34	110.86	377.24
Tehri	829.79	740.04	822.95	1065.64	818.65	982.26	71.76	142.00
Koteshwar	612.50	598.50	611.60	5.50	NA	NA	142.00	146.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	64.37	72.29
Rihand	268.22	252.98	261.85	410.00	263.07	484.00	NA	NA
RPS	352.80	343.81	351.55	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.61	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.68	144.00	520.83	144.00	90.81	156.54

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 11.11.2013 :

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 : 11.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER