

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.11.2012

Date of Reporting : 15.11.2012

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
31666	1950	33616	50.24	27667	73	27741	50.20	680.3	30.34

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	41.48	5.88		47.36	30.79	30.55	-0.24	77.91	1.80
Haryana	55.29	0.73		56.01	44.91	44.69	-0.22	100.70	0.00
Rajasthan	83.23	3.78	5.24	92.25	61.96	59.89	-2.07	152.14	0.55
Delhi	28.25			28.25	28.90	23.44	-5.46	51.69	0.00
UP	121.39	6.79	1.68	129.86	85.54	86.09	0.55	215.95	26.29
Uttarakhand		8.13		8.13	17.76	17.28	-0.48	25.41	0.00
HP		6.79		6.79	9.65	10.04	0.38	16.83	0.00
J & K		9.58	0.00	9.58	24.99	27.17	2.18	36.75	1.70
Chandigarh				0.00	3.27	2.98	-0.30	2.98	0.00
Total	329.63	41.68	6.92	378.23	307.77	302.12	-5.65	680.35	30.34

* 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	4400	600	-46	-329	2792	0	57	-692	-5.17	
Haryana	5028	0	-97	19	3552	0	83	-25	0.03	
Rajasthan	5992	0	-176	246	6432	73	122	811	21.14	
Delhi	2677	0	-245	-917	1763	0	-93	-2122	-31.81	
UP	9299	1250	-37	628	10226	0	69	1431	10.76	
Uttarakhand	1396	0	-34	385	887	0	-132	359	8.85	
HP	972	0	-9	-288	460	0	33	27	-0.15	
J&K	1732	100	-202	354	1467	0	109	264	6.53	
Chandigarh	169	0	-22	-20	89	0	0	-31	-0.35	
Total	31666	1950	-867	79	27667	73	248	22	9.82	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1691	1515	1961	39.09	1629	39.91	-0.82
Rihand I STPS	1000	460	480	438	10.26	428	10.64	-0.38
Rihand II STPS	1000	975	1021	921	21.31	888	22.44	-1.13
Rihand III STPS	500	0	0	0	0.00	0	0	0.00
Dadri I STPS	840	810	830	848	16.61	692	16.97	-0.36
Dadri II STPS	980	975	819	790	20.44	852	21.90	-1.46
Unchahar I TPS	420	402	363	403	8.13	339	8.32	-0.20
Unchahar II TPS	420	405	369	374	7.40	308	7.66	-0.26
Unchahar III TPS	210	202	187	209	3.93	164	3.95	-0.02
ISTPP (Jhajhar)	1500	940	696	655	14.64	610	13.86	0.78
Dadri GPS	830	835	405	603	11.82	492	11.74	0.07
Anta GPS	419	409	169	224	4.87	203	4.95	-0.08
Auraiya GPS	663	656	273	329	6.92	288	6.79	0.13
Sub Total (A)	10782	8759	7127	7755	165.40	6892	169.12	-3.73
B. NPC								
NAPS	440	275	318	320	6.74	281	6.60	0.14
RAPS- B	440	417	462	463	10.04	418	10.01	0.03
RAPS- C	440	440	472	476	10.18	424	10.56	-0.38
Sub Total (B)	1320	1132	1252	1259	26.96	1123	27.17	-0.21
C. NHPC								
Chamera I HPS	540	545	540	0	2.45	102	2.62	-0.18
Chamera II HPS	300	303	302	0	1.74	73	1.89	-0.14
Chamera III HPS	231	231	60	0	1.04	43	1.12	-0.08
Bairasuil HPS	180	182	20	0	0.58	24	0.73	-0.15
Salai-HPS	690	254	308	319	5.65	236	5.44	0.21
Tanakpur-HPS	94	46	57	38	1.09	45	1.11	-0.01
Uri-HPS	480	127	216	39	2.58	108	2.90	-0.32
Dhauliganga-HPS	280	288	248	0	1.59	66	1.67	-0.08
Dulhasti-HPS	390	388	404	0	3.52	147	3.67	-0.15
Sewa-II HPS	120	120	77	0	0.23	10	0.27	-0.04
Sub Total (C)	3305	2483	2232	396	28.45	853	21.42	-0.94
D.NJPC								
Nathpa Jhakri	1500	1605	1249	0	8.99	375	9.31	-0.31
Sub Total (D)	1500	1605	1249	0	8.99	375	9.31	-0.31
E. THDC								
Tehri HPS	1000	1050	1007	0	4.56	190	4.50	0.06
Koteswar HPS	400	310	312	0	1.31	55	1.35	-0.04
Sub Total (E)	1400	1360	1319	0	5.88	245	5.85	0.03
F. BBMB								
Bhakra HPS	1480	654	1149	413	15.93	664	15.69	0.24
Dehar HPS	990	168	495	0	4.44	185	4.03	0.41
Pong HPS	396	337	366	306	8.08	337	5.01	3.07
Sub Total (F)	2866	1158	2010	719	28.45	1185	24.72	3.73
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.64	27	0.65	0.00
KWHEP HPS(IPP)	1000	0	437	0	4.71	196	4.92	-0.21
Malana Stg-II HPS	100	0	0	13	0.13	5	0.26	-0.13
Shree Cement TPS	300	0	278	258	6.08	253	6.15	-0.07
Budhil HPS(IPP)	70	0	9	9	0.22	9	0.42	-0.20
Sub Total (G)	1662	0	724	280	11.79	491	12.40	-0.61
H. Total Regional Entities (A-G)	22836	16498	15913	10409	267.94	11164	269.98	-2.04

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	1263	1020	25.57	1065	
	Guru Nanak Dev TPS(Bhatinda)	440	120	120	2.58	108	
	Guru Hargobind Singh TPS(L.mbt)	920	753	540	13.33	556	
	Thermal (Total)	2620	2136	1680	41.48	1728	
	Total Hydro	1148	262	285	5.88	245	
	Total Punjab	3768	2398	1965	47.36	1973	
Haryana	Panipat TPS	1367	918	903	21.79	908	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	177	172	4.03	168	
	RGTPP (kheadar) (IPP)	1200	839	740	18.98	791	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	617	378	10.49	437	
	Thermal (Total)	4944	2551	2193	55.29	2304	
	Total Hydro	62	25	31	0.73	30	
	Total Haryana	5006	2576	2224	56.01	2334	
Rajasthan	kota TPS	1240	1105	1162	26.62	1109	
	suratgarh TPS	1500	947	1102	24.37	1015	
	Chabra TPS	500	380	380	9.39	391	
	Dholpur GPS	330	138	138	3.42	142	
	Ramgarh GPS	111	73	73	1.91	80	
	RAPS A (NPC)	300	172	172	4.22	176	
	Barsingar (NLC)	250	104	106	2.44	102	
	Giral LTPS	250	48	51	1.22	51	
	Rajwest LTPS (IPP)	540	478	365	9.64	402	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3445	3549	83.23	3468	
	Total Hydro	550	82	145	3.78	158	
	Wind power	2191	28	38	0.89	37	
	Biomass	91	19	19	0.45	19	
	Solar	201	1	0	0.12	5	
	Renewable/Others (Total)	2483	47	57	5.24	218	
		Total Rajasthan	8189	3574	3751	92.25	3844
	UP	Anpara TPS	1630	1369	1409	33.00	1375
Obra TPS		1382	491	508	11.90	496	
Paricha TPS		890	361	420	9.30	388	
Panki TPS		210	140	158	3.30	138	
Harduaganj TPS		665	202	151	4.30	179	
Tanda TPS (NTPC)		440	393	398	9.66	403	
Roza TPS (IPP)		1200	1068	1080	24.26	1011	
Anpara-C (IPP)		1200	921	862	20.93	872	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	202	203	4.74	197	
Thermal (Total)		8067	5147	5189	121.39	5058	
Vishnuparyag HPS (IPP)		400	118	118	2.81	117	
Other Hydro		527	214	127	3.98	166	
Cogeneration		981	70	70	1.68	70	
		Total UP	9975	5549	5504	129.86	5294
Uttarakhand		Total Hydro	1303	434	341	8.13	339
	Total Uttarakhand	1303	434	341	8.13	339	
Delhi	Raighat TPS	135	96	103	2.22	92	
	Delhi Gas Turbine	282	85	158	3.14	131	
	Pragati Gas Turbine	330	263	304	6.84	285	
	Rithala GPS	108	0	9	0.04	2	
	Bawana GPS	677	223	272	5.60	233	
	Badarpur TPS (NTPC)	705	420	580	10.41	434	
	Thermal (Total)	2237	1087	1426	28.25	1177	
		Total Delhi	2237	1087	1426	28.25	1177
HP	Baspa HPS (IPP)	330	60	0	1.59	66	
	Malana HPS (IPP)	86	47	12	0.24	10	
	Other Hydro	589	242	214	4.96	207	
		Total HP	1005	349	226	7	283
J & K	Baglihar HPS (IPP)	450	254	288	6.40	267	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	374	463	9.58	399
Total State Control Area Generation		32439	16341	15900	378.23	15643	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			103	3030	46.50	1937	
Total Regional Availability(Gross)		55275	32357	29339	692.66	28744	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7247	1128	69.28	2886
State Control Area Hydro	5368	1740	1618	41.68	1620
Total Regional Hydro	15731	8987	2746	110.96	4506

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	Import	Export	
Vindhychal B/B	-500	-300	0	500	0.00	8.81	0.00	8.81	-8.81
Gwalior-Agra (D/C)	-223	495	538	223	6.05	0.00	6.05	0.00	6.05
Zerda-Kankroli	-235	15	25	235	0.00	2.03	2.03	0.00	-2.03
Zerda-Bhinmal	-174	135	190	206	0.41	0.00	0.41	0.00	0.41
Malanpur-Auraiya	-209	-99	0	209	0.00	3.14	3.14	0.00	-3.14
Badod-Kota/Morak	-170	-41	0	201	0.00	2.16	2.16	0.00	-2.16
Mundra-Mohindergarh(HVDC)	843	844	851	0	20.29	0.00	20.29	0.00	20.29
Sub Total WR	-668	1049			26.75	16.14	10.61	10.61	
Pusauli Bypass	250	250	250	0	6.05	0.00	6.05	0.00	6.05
MZP- GKP (D/C)	96	540	556	0	8.88	0.00	8.88	0.00	8.88
Patna-Balia(D/C)	147	324	344	0	6.17	0.00	6.17	0.00	6.17
B'Sharif-Balia (D/C)	-14	280	306	14	4.41	0.00	4.41	0.00	4.41
Barh - Balia(D/C)	175	324	347	0	6.95	0.00	6.95	0.00	6.95
Pusauli-Balia	0	0	50	90	0.00	2.04	2.04	0.00	-2.04
Gaya-Fatehpur (765 Kv)	22	138	213	0	2.80	0.00	2.80	0.00	2.80
Pusauli-Sahupuri	135	159	175	0	3.62	0.00	3.62	0.00	3.62
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	0.95	0.00	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	771	1981			38.88	2.99	35.89	35.89	
Total IR Exch	103	3030			65.63	19.13	46.50	46.50	

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
29.46	0.71	30.17	7.43	-15.97	-4.62	12.36	2.64	-2.56
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
35.62	16.66	52.28	35.89	10.61	46.50	0.26	-6.05	-5.79

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	72.50	72.50	84.60	27.50

<----- 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				
50.58	14.10	49.72	17.55	50.13	0.33	0.13	50.58	50.01

VII. Voltage profile

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	417	15:07	407	5:42	0.0	0.0	0.0	0.0
Gorakhpur	400	436	15:17	417	5:58	0.0	0.0	91.1	11.7
Bareilly	400	424	16:07	407	18:08	0.0	0.0	2.3	0.0
Kanpur	400	425	16:08	407	5:43	0.0	0.0	18.0	0.0
Dadri	400	427	23:41	415	18:09	0.0	0.0	78.0	0.0
Ballabhgarh	400	432	3:39	419	18:12	0.0	0.0	99.0	3.3
Bawana	400	428	3:32	416	17:55	0.0	0.0	85.8	0.0
Bassi	400	432	15:07	408	5:46	0.0	0.0	70.8	0.6
Hissar	400	420	23:57	405	17:57	0.0	0.0	0.0	0.0
Moga	400	428	23:43	411	18:07	0.0	0.0	40.9	0.0
Abdullapur	400	427	1:58	242	11:45	0.0	0.0	82.3	0.0
Nalagarh	400	433	23:51	419	17:36	0.0	0.0	95.0	11.1
Kishenpur	400	425	1:53	398	18:26	0.0	0.0	18.4	0.0
Wagoora	400	415	4:08	379	18:24	0.5	22.8	0.0	0.0

VIII. 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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	502.93	1219.07	509.06	1500.16	194.68	447.72
Pong	426.72	384.05	418.15	807.91	419.36	861.93	55.25	470.48
Tehri	829.79	740.04	823.50	1080.00	818.65	982.26	64.97	131.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	70.59	70.59
Rihand	268.22	252.98	NA	500.10	264.96	617.70	NA	NA
RPS	352.80	343.81	351.34	NA	350.67	NA	NA	257.26
Jawahar Sagar	298.70	295.78	297.79	NA	297.67	NA	NA	241.63
RSD	527.91	487.91	520.87	NA	521.76	NA	70.79	78.83

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.11.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 14.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER