

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.10.2012

Date of Reporting : 01.11.2012

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
31957	3305	35262	50.22	26906	1220	28126	50.17	697.5	64.59

* 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	55.56	7.02		62.58	35.13	34.73	-0.40	97.31	2.65
Haryana	54.17	0.73		54.90	46.19	47.57	1.38	102.47	3.82
Rajasthan	79.39	4.47	5.87	89.73	61.25	63.55	2.31	153.28	8.73
Delhi	28.29			28.29	33.79	29.61	-4.19	57.89	0.34
UP	98.17	8.17	2.40	108.74	89.80	89.84	0.04	198.58	44.09
Uttarakhand		9.18		9.18	16.21	17.36	1.15	26.53	2.29
HP		8.16		8.16	12.86	14.18	1.32	22.35	0.79
J & K		9.39	0.00	9.39	23.41	26.24	2.83	35.63	1.90
Chandigarh				0.00	3.85	3.50	-0.35	3.50	0.00
Total	315.58	47.12	8.27	370.97	322.50	326.58	4.08	697.55	64.59

* 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	4788	315	-8	-201	3202	0	-74	-281	-1.58	
Haryana	4677	545	-56	258	3944	0	69	204	4.27	
Rajasthan	6499	615	-4	573	6415	30	172	1193	18.53	
Delhi	3091	0	-261	-884	1568	0	-176	-1596	-29.43	
UP	8397	1650	-91	118	8560	1110	247	227	4.41	
Uttarakhand	1439	80	77	343	920	80	-24	189	6.48	
HP	1168	0	99	-179	780	0	83	135	-0.84	
J&K	1708	100	-95	241	1422	0	194	125	3.41	
Chandigarh	190	0	-14	0	95	0	-18	0	0.25	
Total	31957	3305	-353	269	26906	1220	472	198	5.50	

* 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)	Schedule Net MU	UI [OG:(+ve), UG: (-ve)]	
								UI Net MU	UI Net MU
A. NTPC									
Singrauli STPS	2000	1854	1978	2059	44.70	1863	44.50	0.20	
Rihand I STPS	1000	894	913	1019	21.45	894	21.45	0.01	
Rihand II STPS	1000	970	1042	1035	23.35	973	23.28	0.07	
Rihand III STPS	500	0	0	0	0.00	0			
Dadri I STPS	840	810	855	630	17.55	731	17.73	-0.19	
Dadri II STPS	980	879	995	673	20.09	837	20.38	-0.30	
Unchahar I TPS	420	405	430	428	9.31	388	9.48	-0.17	
Unchahar II TPS	420	405	419	430	9.19	383	9.29	-0.10	
Unchahar III TPS	210	202	212	214	4.61	192	4.67	-0.05	
ISTPP (Jhajhar)	1000	350	314	332	6.92	288	8.28	-1.37	
Dadri GPS	830	829	581	596	13.41	559	13.52	-0.11	
Anta GPS	419	409	339	333	7.75	323	7.72	0.03	
Auraiya GPS	663	654	313	318	7.37	307	8.36	-0.99	
Sub Total (A)	10282	8661	8391	8067	185.71	7738	188.68	-2.97	
B. NPC									
NAPS	440	277	311	313	6.59	275	6.65	-0.06	
RAPS- B	440	417	455	462	9.83	410	10.01	-0.18	
RAPS- C	440	440	473	477	9.85	410	10.56	-0.71	
Sub Total (B)	1320	1134	1239	1252	26.27	1095	27.22	-0.95	
C. NHPC									
Chamera I HPS	540	540	360	0	3.03	126	3.05	-0.02	
Chamera II HPS	300	303	301	0	2.06	86	1.96	0.09	
Chamera III HPS	231	231	222	0	1.42	59	1.41	0.01	
Bairasuil HPS	180	120	20	0	0.78	32	0.73	0.05	
Salai-HPS	690	186	329	213	4.59	191	4.41	0.18	
Tanakpur-HPS	94	54	51	57	1.33	56	1.31	0.03	
Uri-HPS	480	155	238	90	3.59	150	3.69	-0.11	
Dhauliganga-HPS	280	216	210	0	1.85	77	1.84	0.01	
Dulhasti-HPS	390	387	272	9	4.14	173	4.28	-0.14	
Sewa-II HPS	120	80	84	0	0.33	14	0.32	0.01	
Sub Total (C)	3305	2271	2087	369	23.11	963	23.00	0.11	
D.NJPC									
Nathpa Jhakri	1500	1605	1021	0	10.70	446	10.50	0.19	
Sub Total (D)	1500	1605	1021	0	10.70	446	10.50	0.19	
E. THDC									
Tehri HPS	1000	656	1050	0	5.14	214	5.00	0.14	
Koteshwar HPS	400	240	231	0	1.51	63	1.50	0.01	
Sub Total (E)	1400	896	1281	0	6.64	277	6.50	0.14	
F. BBMB									
Bhakra HPS	1480	342	618	306	8.39	350	8.21	0.18	
Dehar HPS	990	214	495	165	5.10	213	5.14	-0.04	
Pong HPS	396	282	306	246	6.94	289	5.01	1.93	
Sub Total (F)	2866	838	1419	717	20.43	851	18.36	2.07	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	40	0	0.77	32	0.77	0.00	
KWHEP HPS(IPP)	1000	0	400	160	5.80	242	5.81	-0.01	
Malana Stg-II HPS	100	0	40	16	0.37	15	0.33	0.03	
Shree Cement TPS	300	0	288	196	6.26	261	6.00	0.26	
Budhil HPS(IPP)	70	0	10	0	0.35	15	0.46	-0.10	
Sub Total (G)	1662	0	778	372	13.55	564	13.37	0.18	
H. Total Regional Entities (A-G)	22336	15406	16216	10777	286.40	11933	287.62	-1.22	

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	1265	1110	27.66	1153	
	Guru Nanak Dev TPS(Bhatinda)	440	328	292	6.84	285	
	Guru Hargobind Singh TPS(L.mbt)	920	965	856	21.06	878	
	Thermal (Total)	2620	2558	2258	55.56	2315	
	Total Hydro	1148	281	237	7.02	293	
	Total Punjab	3768	2839	2495	62.58	2608	
Haryana	Panipat TPS	1367	966	967	23.38	974	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	410	284	9.41	392	
	RGTPP (khedar) (IPP)	1200	459	381	10.91	455	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	605	358	10.47	436	
	Thermal (Total)	4944	2440	1990	54.17	2257	
	Total Hydro	62	32	31	0.73	30	
	Total Haryana	5006	2472	2021	54.90	2288	
Rajasthan	kota TPS	1240	1159	1164	27.77	1157	
	suratgarh TPS	1500	1222	1110	29.58	1232	
	Chabra TPS	500	0	0	0.00	0	
	Dholpur GPS	330	149	96	2.56	107	
	Ramgarh GPS	111	80	80	2.10	87	
	RAPS A (NPC)	300	173	173	4.12	172	
	Barsingar (NLC)	250	172	206	4.75	198	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	290	8.51	355	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3320	3119	79.39	3308	
	Total Hydro	550	195	152	4.47	186	
	Wind power	2191	1	48	0.78	32	
	Biomass	91	24	24	0.57	24	
	Solar	201	1	0	0.05	2	
	Renewable/Others (Total)	2483	25	72	5.87	245	
	Total Rajasthan	8189	3540	3343	89.73	3739	
	UP	Anpara TPS	1630	1233	1276	27.70	1154
		Obra TPS	1382	417	355	8.50	354
Paricha TPS		890	614	573	10.40	433	
Panki TPS		210	50	0	0.60	25	
Harduaganj TPS		665	187	231	4.00	167	
Tanda TPS (NTPC)		440	403	400	9.86	411	
Roza TPS (IPP)		1200	810	810	19.71	821	
Anpara-C (IPP)		1200	539	531	12.63	526	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	202	4.78	199	
Thermal (Total)		8067	4456	4378	98.17	4090	
Vishnuparyag HPS (IPP)		400	148	138	3.29	137	
Other Hydro		527	139	0	4.89	204	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4843	4616	108.74	4394	
Uttarakhand		Total Hydro	1303	466	420	9.18	382
	Total Uttarakhand	1303	466	420	9.18	382	
Delhi	Raighat TPS	135	114	110	2.49	104	
	Delhi Gas Turbine	282	119	121	2.85	119	
	Pragati Gas Turbine	330	305	263	6.07	253	
	Rithala GPS	108	21	21	0.49	21	
	Bawana GPS	677	225	225	5.41	225	
	Badarpur TPS (NTPC)	705	500	480	10.97	457	
	Thermal (Total)	2237	1284	1220	28.29	1179	
	Total Delhi	2237	1284	1220	28.29	1179	
HP	Baspa HPS (IPP)	330	31	31	1.77	74	
	Malana HPS (IPP)	86	45	0	0.42	17	
	Other Hydro	589	294	214	5.98	249	
	Total HP	1005	370	245	8	340	
J & K	Baglihar HPS (IPP)	450	234	232	5.84	243	
	Other Hydro	323	140	175	3.55	148	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	374	407	9.39	391	
Total State Control Area Generation		32439	16188	14767	370.97	15320	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1459	2295	50.59	2108	
Total Regional Availability(Gross)		54775	33863	27839	707.95	29361	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6288	1262	67.81	2825
State Control Area Hydro	5368	1857	1492	47.12	1827
Total Regional Hydro	15731	8145	2754	114.93	4652

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	-200	-200	0	200	0.00	4.91	-4.91		
Gwalior-Agra (D/C)	428	375	0	827	8.65	0.00	8.65		
Zerda-Kankroli	-125	22	63	236	0.00	2.01	-2.01		
Zerda-Bhinmal	-26	129	219	170	0.45	0.00	0.45		
Malanpur-Auraiya	-159	-117	0	159	0.00	2.43	-2.43		
Badod-Kota/Morak	-111	-63	32	110	0.00	2.54	-2.54		
Mundra-Mohindergarh(HVDC)	825	825	825	0	19.77	0.00	19.77		
Sub Total WR	632	971			28.87	11.89	16.98		
Pusauli Bypass	-200	-200	50	300	0.05	2.60	-2.55		
MZP- GKP (D/C)	336	524	622	0	12.08	0.00	12.08		
Patna-Balia(D/C)	195	242	338	0	6.17	0.00	6.17		
B'Sharif-Balia (D/C)	183	159	338	0	4.97	0.00	4.97		
Barh - Balia(D/C)	216	496	611	0	10.95	0.00	10.95		
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00		
Gaya-Fatehpur (765 Kv)	0	0	184	0	0.00	0.40	-0.40		
Pusauli-Sahupuri	137	137	168	0	3.34	0.00	3.34		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-40	-34	0	46	0.00	0.97	-0.97		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	827	1324			37.57	3.97	33.60		
Total IR Exch	1459	2295			66.44	15.85	50.59		

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
35.68	1.13	36.82	-2.58	-6.77	-1.13	3.42	-2.48	2.61
Total IR Schedule (MU)								
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
30.62	16.69	47.32	33.60	16.98	50.59	2.98	0.29	3.27

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	2.05	94.44	92.39	67.07	5.56
Frequency (Hz) <----->								
Maximum		Minimum		Average Frequency (Hz)	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Freq	Time	Freq	Time				MAX (Hz)	MIN (Hz)
50.44	13.00	49.60	10.14	50.07	0.24	0.11	50.34	0.00

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	411	21:30	402	02:00	1.1	1.1	0.0	0.0
Gorakhpur	400	431	16:04	413	11:38	0.0	0.0	60.8	0.8
Bareilly	400	424	17:32	403	10:16	0.0	0.0	4.4	0.0
Kanpur	400	421	03:46	404	10:14	0.0	0.0	0.5	0.0
Dadri	400	424	03:43	408	10:15	0.0	0.0	12.4	0.0
Ballabhgarh	400	432	03:41	414	10:08	0.0	0.0	77.7	2.4
Bawana	400	428	03:38	412	10:15	0.0	0.0	55.3	0.0
Bassi	400	431	16:04	404	07:09	0.0	0.0	56.8	0.3
Hissar	400	418	03:43	401	10:09	0.0	0.0	0.0	0.0
Moga	400	424	03:48	403	10:13	0.0	0.0	8.7	0.0
Abdullapur	400	426	21:28	409	11:14	0.0	0.0	18.9	0.0
Nalagarh	400	426	03:47	409	10:13	0.0	0.0	27.7	0.0
Kishenpur	400	420	02:52	400	07:09	0.0	0.0	0.0	0.0
Wagoora	400	413	16:02	380	18:43	0.0	18.4	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	504.10	1272.20	510.08	1545.02	262.75	227.36
Pong	426.72	384.05	420.01	889.22	421.22	946.20	90.42	411.64
Tehri	829.79	740.04	824.70	1095.00	818.65	982.26	73.91	113.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	78.47	86.38
Rihand	268.22	252.98	263.65	522.00	265.24	630.80	NA	NA
RPS	352.80	343.81	352.49	NA	NA	NA	NA	102.11
Jawahar Sagar	298.70	295.78	297.21	NA	NA	NA	NA	132.81
RSD	527.91	487.91	520.65	NA	521.69	NA	71.19	83.79

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 31.10.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

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

- 1: 3*110 MVAR (330MVAR) Line Reactor of 765kV Fatehpur-Gaya - II first time charged at 19.19hrs dt 31.10.2012 at Fatehpur (PG).
- 2: 3*110 MVAR(330MVAR) Line Reactor of 765kV Fatehpur-Gaya - II first time charged at 23.15 hrs dt 31.10.2012 at Fatehpur (PG).
- 3: 3*80 MVAR (240MVAR) Line Reactor of 765kV Bhiwani-Meerut first time charged at 19.00 hrs dt 31.10.2012 at Bhiwani (PG).
- 4: 3*80 MVAR (240MVAR) BUs Reactor of 765kV first time charged at 20.25 hrs dt 31.10.2012 at Bhiwani (PG).
- 5: 125 MVAR BUs Reactor of 400kV first time charged at 19.59 hrs dt 31.10.2012 at Allahabad(PG).
- 6: 125 MVAR BUs Reactor of 400kV first time charged at 23.40 hrs dt 31.10.2012 at Kankroli(PG).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER