

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.11.2012

Date of Reporting : 25.11.2012

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
30986	3370	34356	50.13	26838	630	27468	50.23	694.4	51.82

* 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	46.68	8.92		55.60	31.03	30.92	-0.11	86.52	6.96
Haryana	62.15	0.59		62.74	35.62	35.72	0.10	98.45	1.32
Rajasthan	89.12	5.18	3.51	97.81	66.87	64.11	-2.76	161.92	0.00
Delhi	32.50			32.50	26.71	22.71	-4.01	55.21	0.10
UP	112.53	7.09	1.68	121.30	81.38	78.37	-3.01	199.66	39.39
Uttarakhand		8.73		8.73	18.97	20.29	1.33	29.03	2.04
HP		5.36		5.36	16.22	17.60	1.38	22.96	0.31
J & K		7.51	0.00	7.51	27.29	29.85	2.56	37.36	1.70
Chandigarh				0.00	3.33	3.26	-0.07	3.26	0.00
Total	342.98	43.37	5.19	391.55	307.41	302.82	-4.59	694.37	51.82

* 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	4606	600	-45	-375	2998	0	-53	113	-4.73	
Haryana	4554	527	-90	253	3533	0	-15	246	4.64	
Rajasthan	6202	0	-717	505	6748	0	-42	1096	27.30	
Delhi	2769	0	-337	-1278	1467	0	-202	-2251	-38.31	
UP	8324	2056	-74	432	8683	630	-162	628	7.03	
Uttarakhand	1541	80	88	406	1071	0	65	411	9.96	
HP	1116	8	38	75	779	0	85	306	4.40	
J&K	1694	100	-353	532	1468	0	98	464	10.09	
Chandigarh	180	0	-18	-12	92	0	8	-31	-0.35	
Total	30986	3370	-1508	539	26838	630	-219	982	20.00	

* 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	1945	2062	2075	46.55	1939	46.68	-0.13	
Rihand I STPS	1000	460	508	491	11.09	462	11.04	0.05	
Rihand II STPS	1000	975	1041	1043	23.55	981	23.40	0.15	
Rihand III STPS	500	-11	0	0	0.00	0	-0.26	0.26	
Dadri I STPS	840	810	860	847	18.93	789	19.22	-0.29	
Dadri II STPS	980	975	995	889	22.37	932	23.28	-0.91	
Unchahar I TPS	420	350	338	410	8.13	339	8.27	-0.15	
Unchahar II TPS	420	405	429	419	9.30	387	9.42	-0.13	
Unchahar III TPS	210	202	215	219	4.68	195	4.71	-0.03	
ISTPP (Jhajhar)	1500	470	425	307	8.41	351	8.27	0.14	
Dadri GPS	830	837	384	428	9.33	389	10.72	-1.39	
Anta GPS	419	282	265	205	6.02	251	5.99	0.03	
Auraiya GPS	663	660	306	296	7.25	302	7.72	-0.47	
Sub Total (A)	10782	8359	7828	7629	175.58	7316	178.45	-2.87	
B. NPC									
NAPS	440	281	314	317	6.71	280	6.74	-0.03	
RAPS- B	440	418	458	463	10.03	418	10.03	-0.01	
RAPS- C	440	430	469	472	10.18	424	10.32	-0.14	
Sub Total (B)	1320	1129	1241	1252	26.91	1121	27.10	-0.19	
C. NHPC									
Chamera I HPS	540	550	360	0	2.19	91	2.17	0.02	
Chamera II HPS	300	303	198	0	1.54	64	1.50	0.03	
Chamera III HPS	231	231	150	0	0.94	39	0.91	0.03	
Bairasuil HPS	180	182	20	0	0.59	25	0.63	-0.04	
Salai-HPS	690	146	143	120	3.41	142	3.51	-0.10	
Tanakpur-HPS	94	39	29	40	0.98	41	0.94	0.04	
Uri-HPS	480	108	233	39	2.64	110	2.62	0.02	
Dhauliganga-HPS	280	288	200	0	1.42	59	1.38	0.04	
Dulhasi-HPS	390	388	298	0	3.50	146	3.08	0.42	
Sewa-II HPS	120	120	79	0	0.31	13	0.28	0.03	
Sub Total (C)	3305	2355	1710	199	17.50	729	17.01	0.49	
D.NJPC									
Nathpa Jhakri	1500	1605	1160	0	8.72	363	8.51	0.21	
Sub Total (D)	1500	1605	1160	0	8.72	363	8.51	0.21	
E. THDC									
Tehri HPS	1000	1050	920	0	7.10	296	7.00	0.10	
Koteshwar HPS	400	281	274	0	1.98	83	2.00	-0.02	
Sub Total (E)	1400	1331	1194	0	9.08	378	9.00	0.08	
F. BBMB									
Bhakra HPS	1480	677	1102	415	16.36	682	16.24	0.12	
Dehar HPS	990	153	495	0	3.82	159	3.68	0.15	
Pong HPS	396	302	366	180	7.44	310	5.01	2.43	
Sub Total (F)	2866	1132	1963	595	27.62	1151	24.93	2.69	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.63	26	0.65	-0.02	
KWHEP HPS(IPP)	1000	0	150	0	4.60	192	4.56	0.04	
Malana Stg-II HPS	100	0	35	12	0.24	10	0.25	-0.02	
Shree Cement TPS	300	0	146	141	3.49	146	3.56	-0.07	
Budhil HPS(IPP)	70	0	5	6	0.15	6	0.42	-0.27	
Sub Total (G)	1662	0	336	159	9.11	380	9.44	-0.33	
H. Total Regional Entities (A-G)	22836	15911	15432	9834	274.53	11439	274.44	0.09	

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	1269	1145	27.52	1147	
	Guru Nanak Dev TPS(Bhatinda)	440	225	113	3.76	157	
	Guru Hargobind Singh TPS(L.mbt)	920	749	627	15.40	642	
	Thermal (Total)	2620	2243	1885	46.68	1945	
	Total Hydro	1148	465	268	8.92	372	
	Total Punjab	3768	2708	2153	55.60	2317	
Haryana	Panipat TPS	1367	1129	1003	25.48	1062	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	141	99	3.14	131	
	RGTPP (kheadar) (IPP)	1200	871	851	22.23	926	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	615	423	11.30	471	
	Thermal (Total)	4944	2756	2376	62.15	2590	
	Total Hydro	62	29	22	0.59	24	
	Total Haryana	5006	2785	2398	62.74	2614	
Rajasthan	kota TPS	1240	1071	1075	26.63	1110	
	suratgarh TPS	1500	1153	1149	28.62	1193	
	Chabra TPS	500	416	382	9.37	390	
	Dholpur GPS	330	151	144	3.57	149	
	Ramgarh GPS	111	76	83	1.93	80	
	RAPS A (NPC)	300	179	179	4.30	179	
	Barsingar (NLC)	250	104	108	2.53	105	
	Giral LTPS	250	31	46	0.52	21	
	Rajwest LTPS (IPP)	540	486	486	11.66	486	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3667	3652	89.12	3713	
	Total Hydro	550	231	209	5.18	216	
	Wind power	2191	84	198	2.53	105	
	Biomass	91	35	35	0.83	35	
	Solar	201	4	0	0.15	6	
	Renewable/Others (Total)	2483	119	233	3.51	146	
	Total Rajasthan	8189	4017	4094	97.81	4075	
	UP	Anpara TPS	1630	1090	1597	28.40	1183
		Obra TPS	1382	511	509	10.90	454
Paricha TPS		890	415	376	8.30	346	
Panki TPS		210	155	135	3.00	125	
Harduaganj TPS		665	46	42	2.50	104	
Tanda TPS (NTPC)		440	396	397	9.71	404	
Roza TPS (IPP)		1200	1040	797	24.70	1029	
Anpara-C (IPP)		1200	843	846	20.21	842	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	203	4.82	201	
Thermal (Total)		8067	4699	4902	112.53	4689	
Vishnuparyag HPS (IPP)		400	109	109	2.62	109	
Other Hydro		527	119	230	4.47	186	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	4997	5311	121.30	4945	
Uttarakhand		Total Hydro	1303	478	293	8.73	364
	Total Uttarakhand	1303	478	293	8.73	364	
Delhi	Raighat TPS	135	101	106	2.80	116	
	Delhi Gas Turbine	282	158	131	3.68	153	
	Pragati Gas Turbine	330	310	325	7.45	310	
	Rithala GPS	108	20	20	0.46	19	
	Bawana GPS	677	271	276	6.57	274	
	Badarpur TPS (NTPC)	705	575	510	11.56	482	
	Thermal (Total)	2237	1435	1368	32.50	1354	
	Total Delhi	2237	1435	1368	32.50	1354	
HP	Baspa HPS (IPP)	330	29	0	0.22	9	
	Malana HPS (IPP)	86	40	0	1.33	56	
	Other Hydro	589	163	130	3.81	159	
	Total HP	1005	232	130	5	223	
J & K	Baglihar HPS (IPP)	450	298	148	4.33	180	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	418	323	7.51	313	
Total State Control Area Generation		32439	17070	16070	391.55	16205	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			904	1687	37.68	1570	
Total Regional Availability(Gross)		55275	33406	27591	703.75	29214	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6212	806	68.39	2849
State Control Area Hydro	5368	1972	1475	43.37	1698
Total Regional Hydro	15731	8184	2281	111.76	4548

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	-500	-300	100	500	0.32	4.75	-4.43
Gwalior-Agra (D/C)	396	395	688	0	5.72	0.00	5.72
Zerda-Kankroli	-177	-62	6	177	0.00	2.46	-2.46
Zerda-Bhinmal	-83	28	121	177	0.00	0.33	-0.33
Malanpur-Auraiya	-170	-107	0	162	0.00	3.17	-3.17
Badod-Kota/Morak	-160	-55	14	110	0.00	2.41	-2.41
Mundra-Mohindergarh(HVDC)	371	365	371	0	8.89	0.00	8.89
Sub Total WR	-323	264			14.93	13.12	1.81
Pusauli Bypass	100	-50	200	50	2.56	0.44	2.12
MZP- GKP (D/C)	200	400	526	0	8.83	0.00	8.83
Patna-Balia(D/C)	518	518	666	0	12.36	0.00	12.36
B'Sharif-Balia (D/C)	223	258	413	0	6.41	0.00	6.41
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-32	13	34	87	0.00	0.41	-0.41
Gaya-Fatehpur (765 Kv)	113	184	240	0	4.23	0.00	4.23
Pusauli-Sahupuri	145	134	159	0	3.29	0.00	3.29
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1227	1423			37.67	1.80	35.87
Total IR Exch	904	1687			52.60	14.92	37.68

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
27.08	0.50	27.57	6.86	-12.56	-0.31	18.74	3.18	-3.11
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
37.31	11.22	48.53	35.87	1.81	37.68	-1.44	-9.42	-10.85

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	1.10	88.60	87.50	55.20	11.40
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.38	20.45	49.52	16.27	50.02	0.20	0.14	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	17:29	0	17:58	6.7	0.0	0.0	0.0
Gorakhpur	400	430	18:32	411	11:45	0.0	0.0	70.2	0.0
Bareilly	400	421	4:04	400	11:18	0.0	0.0	0.1	0.0
Kanpur	400	421	4:03	401	10:15	0.0	0.0	0.1	0.0
Dadri	400	424	3:08	406	10:23	0.0	0.0	18.6	0.0
Ballabhgarh	400	432	4:02	410	10:27	0.0	0.0	49.1	0.5
Bawana	400	429	4:02	410	10:15	0.0	0.0	39.6	0.0
Bassi	400	439	4:02	409	8:44	0.0	0.0	59.5	13.1
Hissar	400	417	4:02	398	10:27	0.0	0.0	0.0	0.0
Moga	400	420	4:02	398	10:25	0.0	0.0	0.0	0.0
Abdullapur	400	427	4:02	402	9:59	0.0	0.0	29.0	0.0
Nalagarh	400	427	0:01	410	10:26	0.0	0.0	31.0	0.0
Kishenpur	400	416	3:24	393	7:29	0.0	0.0	0.0	0.0
Wagoora	400	401	3:05	368	7:29	42.4	68.2	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	501.32	1153.36	507.97	1455.60	197.91	445.85
Pong	426.72	384.05	416.46	730.36	418.09	807.91	81.10	445.65
Tehri	829.79	740.04	822.20	1044.51	818.65	982.26	64.34	155.00
Koteshwar	612.50	598.50	607.10	3.32	NA	NA	155.00	131.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.40	59.28
Rihand	268.22	252.98	262.83	500.10	264.57	617.70	NA	NA
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	520.59	NA	518.23	NA	83.31	77.08

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 24.11.2012 :

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 : 24.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER