

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.10.2012

Date of Reporting : 23.10.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
32611	2773	35384	50.34	29288	1522	30809	50.28	731.5	52.93

* 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	46.57	8.31		54.88	40.57	41.72	1.15	96.60	8.20
Haryana	55.77	0.83		56.60	51.93	52.35	0.42	108.95	1.16
Rajasthan	87.58	2.79	6.25	96.62	61.72	62.62	0.90	159.24	0.96
Delhi	26.09			26.09	42.90	38.88	-4.02	64.97	0.04
UP	106.04	8.37	2.40	116.80	99.53	97.26	-2.27	214.06	38.35
Uttarakhand		11.84		11.84	14.45	15.88	1.43	27.72	2.50
HP		9.72		9.72	13.31	12.89	-0.43	22.60	0.03
J & K		10.19	0.00	10.19	20.99	23.62	2.63	33.81	1.70
Chandigarh				0.00	3.94	3.54	-0.40	3.54	0.00
Total	322.04	52.05	8.65	382.74	349.34	348.75	-0.59	731.48	52.93

* 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	4707	767	93	-68	3749	0	-9	-65	-0.16	
Haryana	4604	322	-191	234	4179	0	24	173	4.21	
Rajasthan	6560	0	30	328	6525	0	-28	950	18.95	
Delhi	3337	0	-403	-327	1896	2	-216	-1052	-15.02	
UP	8942	1500	-325	608	9796	1520	329	1440	17.84	
Uttarakhand	1466	80	191	117	1027	0	-4	185	4.12	
HP	1141	4	-7	-240	722	0	8	36	-1.26	
J&K	1659	100	-168	10	1290	0	184	-41	0.17	
Chandigarh	196	0	-23	-16	104	0	-5	0	0.24	
Total	32611	2773	-802	648	29288	1522	284	1625	29.10	

* 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	1910	2032	2007	45.65	1902	45.84	-0.19	
Rihand I STPS	1000	903	1001	959	21.43	893	21.67	-0.24	
Rihand II STPS	1000	970	1007	1001	23.06	961	23.28	-0.22	
Rihand III STPS	500	0	0	0	0.00	0	0	0.00	
Dadri I STPS	840	810	816	627	16.37	682	16.61	-0.24	
Dadri II STPS	980	485	505	418	10.68	445	10.90	-0.23	
Unchahar I TPS	420	404	393	383	8.85	369	9.62	-0.77	
Unchahar II TPS	420	403	419	366	8.92	372	9.52	-0.60	
Unchahar III TPS	210	202	204	192	4.49	187	4.77	-0.28	
ISTPP (Jhajhar)	1000	950	320	310	17.08	712	16.18	0.90	
Dadri GPS	830	816	482	515	12.71	530	12.92	-0.21	
Anta GPS	419	405	161	241	5.60	233	5.66	-0.07	
Auraiya GPS	663	644	403	313	8.56	357	9.14	-0.58	
Sub Total (A)	10282	8903	7743	7332	183.40	7641	186.11	-2.72	
B. NPC									
NAPS	440	271	307	316	6.53	272	6.50	0.02	
RAPS- B	440	413	456	458	9.90	413	9.91	-0.01	
RAPS- C	440	430	466	473	10.01	417	10.32	-0.31	
Sub Total (B)	1320	1114	1229	1247	26.44	1102	26.74	-0.29	
C. NHPC									
Chamera I HPS	540	535	540	0	5.89	245	3.10	2.79	
Chamera II HPS	300	303	255	0	1.85	77	2.42	-0.57	
Chamera III HPS	231	154	154	0	1.50	63	1.74	-0.24	
Bairasuil HPS	180	182	30	20	0.88	37	0.98	-0.10	
Salai-HPS	690	243	284	244	5.04	210	5.77	-0.73	
Tanakpur-HPS	94	69	65	70	1.57	65	1.68	-0.11	
Uri-HPS	480	188	285	164	4.61	192	4.40	0.21	
Dhauliganga-HPS	280	288	285	5	1.88	78	2.06	-0.19	
Dulhasi-HPS	390	387	342	0	4.85	202	4.90	-0.05	
Sewa-II HPS	120	80	79	0	0.34	14	0.40	-0.06	
Sub Total (C)	3305	2428	2319	503	28.41	1184	27.46	0.95	
D.NJPC									
Nathpa Jhakri	1500	1605	1514	0	11.55	481	11.62	-0.06	
Sub Total (D)	1500	1605	1514	0	11.55	481	11.62	-0.06	
E. THDC									
Tehri HPS	1000	1050	410	417	4.01	167	4.00	0.01	
Koteshwar HPS	400	281	258	0	2.04	85	2.00	0.04	
Sub Total (E)	1400	1331	668	417	6.05	252	6.00	0.05	
F. BBMB									
Bhakra HPS	1480	355	567	308	8.81	367	8.52	0.29	
Dehar HPS	990	244	495	165	6.07	253	5.86	0.22	
Pong HPS	396	270	306	180	6.62	276	5.01	1.61	
Sub Total (F)	2866	869	1368	653	21.50	896	19.38	2.12	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	72	42	0.99	41	0.91	0.08	
KWHEP HPS(IPP)	1000	0	699	150	6.21	259	6.24	-0.03	
Malana Stg-II HPS	100	0	18	18	0.46	19	0.40	0.06	
Shree Cement TPS	300	0	267	257	6.31	263	6.38	-0.07	
Budhil HPS(IPP)	70	0	34	10	0.40	17	0.43	-0.03	
Sub Total (G)	1662	0	1090	477	14.37	599	14.37	0.00	
H. Total Regional Entities (A-G)	22336	16250	15931	10629	291.72	12155	291.67	0.05	

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	841	1050	20.58	857	
	Guru Nanak Dev TPS(Bhatinda)	440	210	210	4.42	184	
	Guru Hargobind Singh TPS(L.mbt)	920	970	966	21.57	899	
	Thermal (Total)	2620	2021	2226	46.57	1940	
	Total Hydro	1148	405	244	8.31	346	
	Total Punjab	3768	2426	2470	54.88	2287	
Haryana	Panipat TPS	1367	959	934	23.41	975	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	160	152	3.85	160	
	RGTPP (kheadar) (IPP)	1200	746	840	19.38	807	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	350	356	9.14	381	
	Thermal (Total)	4944	2215	2282	55.77	2324	
	Total Hydro	62	36	31	0.83	35	
	Total Haryana	5006	2251	2313	56.60	2358	
Rajasthan	kota TPS	1240	1166	1167	27.67	1153	
	suratgarh TPS	1500	1296	1293	30.54	1272	
	Chabra TPS	500	454	373	9.52	397	
	Dholpur GPS	330	206	139	3.49	145	
	Ramgarh GPS	111	78	77	1.99	83	
	RAPS A (NPC)	300	173	173	4.18	174	
	Barsingar (NLC)	250	0	103	1.83	76	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	365	8.36	349	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3738	3690	87.58	3649	
	Total Hydro	550	119	76	2.79	116	
	Wind power	1843	176	181	2.72	113	
	Biomass	91	27	27	0.66	27	
	Solar	128	0	0	0.08	3	
	Renewable/Others (Total)	2062	203	208	6.25	260	
	Total Rajasthan	7767	4060	3974	96.62	4026	
	UP	Anpara TPS	1630	1312	1311	28.20	1175
		Obra TPS	1382	526	325	7.70	321
		Paricha TPS	890	496	498	10.80	450
Panki TPS		210	105	125	2.50	104	
Harduaganj TPS		665	223	203	4.50	188	
Tanda TPS (NTPC)		440	401	406	9.78	408	
Roza TPS (IPP)		1200	1086	1080	25.56	1065	
Anpara-C (IPP)		1200	344	449	10.56	440	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	283	281	6.44	268	
Thermal (Total)		8067	4776	4678	106.04	4418	
Vishnuparyag HPS (IPP)		400	162	158	3.77	157	
Other Hydro		527	182	0	4.60	192	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	5220	4936	116.80	4710	
Uttarakhand		Total Hydro	1303	534	469	11.84	493
		Total Uttarakhand	1303	534	469	11.84	493
Delhi	Raighat TPS	135	108	104	2.84	118	
	Delhi Gas Turbine	282	158	158	3.54	147	
	Pragati Gas Turbine	330	290	263	6.92	288	
	Rithala GPS	108	20	0	0.28	12	
	Bawana GPS	677	225	0	1.66	69	
	Badarpur TPS (NTPC)	705	480	495	10.86	453	
	Thermal (Total)	2237	1281	1020	26.09	1087	
	Total Delhi	2237	1281	1020	26.09	1087	
HP	Baspa HPS (IPP)	330	31	82	2.07	86	
	Malana HPS (IPP)	86	34	0	0.48	20	
	Other Hydro	589	327	301	7.17	299	
	Total HP	1005	392	383	10	405	
J & K	Baglihar HPS (IPP)	450	444	254	6.64	277	
	Other Hydro	323	140	175	3.55	148	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	584	429	10.19	425	
Total State Control Area Generation		32017	16748	15994	382.74	15790	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1979	3541	73.78	3074	
Total Regional Availability(Gross)		54353	34658	30164	748.24	31020	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6658	1783	75.18	3132
State Control Area Hydro	5368	2252	1632	52.05	2012
Total Regional Hydro	15731	8910	3415	127.23	5144

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	-250	-100	0	250	0.00	4.21	-4.21
Gwalior-Agra (D/C)	146	497	550	0	8.50	0.00	8.50
Zerda-Kankroli	-162	-80	0	168	0.00	2.52	-2.52
Zerda-Bhinmal	-96	5	152	131	0.00	0.06	-0.06
Malanpur-Auraiya	-186	-71	0	214	0.00	2.90	-2.90
Badod-Kota/Morak	-292	-83	5	129	0.00	2.95	-2.95
Mundra-Mohindergarh(HVDC)	885	913	913	0	21.84	0.00	21.84
Sub Total WR	45	1081			30.34	12.63	17.71
Pusauli Bypass	150	50	150	0	2.56	0.00	2.56
MZP- GKP (D/C)	470	780	860	0	16.17	0.00	16.17
Patna-Balia(D/C)	206	423	463	0	7.36	0.00	7.36
B'Sharif-Balia (D/C)	279	377	485	0	8.57	0.00	8.57
Barh - Balia(D/C)	666	519	519	0	12.89	0.00	12.89
Pusauli-Balia	-52	17	66	52	0.26	0.00	0.26
Gaya-Fatehpur (765 Kv)	95	171	364	0	5.59	0.00	5.59
Pusauli-Sahupuri	162	157	178	0	3.64	0.00	3.64
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-34	0	46	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1934	2460			57.03	0.97	56.07
Total IR Exch	1979	3541			87.37	13.60	73.78

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
37.26	1.31	38.57	2.65	-0.20	11.03	1.83	8.26	-8.18
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
60.52	9.53	70.05	56.07	17.71	73.78	-4.45	8.18	3.73

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	84.80	84.80	79.10	15.20
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.41	20.55	49.72	18.08	50.09	0.20	0.11	50.40	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	411	4:09	402	9:31	10.9	10.9	0.0	0.0
Gorakhpur	400	432	5:08	414	0:00	0.0	0.0	61.0	2.8
Bareilly	400	423	21:24	403	9:25	0.0	0.0	1.3	0.0
Kanpur	400	421	20:55	403	9:24	0.0	0.0	0.5	0.0
Dadri	400	422	21:26	404	10:19	0.0	0.0	1.7	0.0
Ballabhgarh	400	427	3:07	409	9:25	0.0	0.0	38.9	0.0
Bawana	400	425	4:03	409	10:18	0.0	0.0	29.5	0.0
Bassi	400	432	20:55	405	9:36	0.0	0.0	46.3	1.0
Hissar	400	413	3:02	400	10:19	0.0	0.0	0.0	0.0
Moga	400	420	2:23	400	9:55	1.1	1.1	0.0	0.0
Abdullapur	400	422	2:23	408	10:46	0.3	0.3	12.5	0.0
Nalagarh	400	428	2:17	411	11:17	0.0	0.0	29.4	0.0
Kishenpur	400	421	3:10	395	18:25	0.0	0.0	0.2	0.0
Wagoora	400	417	1:29	375	18:25	3.0	20.5	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	503.94	1258.87	510.32	1560.04	270.43	229.93
Pong	426.72	384.05	420.91	931.43	422.07	990.81	82.77	369.19
Tehri	829.79	740.04	824.85	1100.00	818.65	982.26	82.90	88.00
Koteshwar	612.50	598.50	607.10	3.10	NA	NA	88.00	129.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	83.82	80.30
Rihand	268.22	252.98	263.93	540.00	265.48	648.00	NA	NA
RPS	352.80	343.81	352.89	NA	350.35	NA	NA	50.23
Jawahar Sagar	298.70	295.78	297.79	NA	298.64	NA	NA	86.71
RSD	527.91	487.91	520.64	NA	522.18	NA	72.86	73.17

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.10.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 22.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER