

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.10.2012

Date of Reporting : 24.10.2012

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
31533	2253	33786	50.35	29418	1065	30483	50.13	721.6	46.56

* 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	45.08	8.11		53.19	39.44	39.96	0.52	93.15	8.43
Haryana	53.53	0.90		54.43	52.48	52.66	0.18	107.09	0.50
Rajasthan	89.25	2.12	6.41	97.78	58.76	59.94	1.18	157.72	0.00
Delhi	26.43			26.43	37.33	34.83	-2.50	61.27	0.00
UP	109.60	8.20	2.40	120.20	93.58	94.37	0.79	214.57	33.80
Uttarakhand		11.03		11.03	13.82	16.16	2.35	27.20	2.13
HP		9.28		9.28	13.07	12.97	-0.11	22.25	0.00
J & K		10.19	0.00	10.19	20.74	24.69	3.95	34.88	1.70
Chandigarh				0.00	3.76	3.53	-0.23	3.53	0.00
Total	323.90	49.82	8.81	382.54	332.98	339.11	6.13	721.65	46.56

* 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	4427	178	-75	-63	3637	0	1	127	0.73	
Haryana	4919	0	41	205	4103	0	15	334	6.39	
Rajasthan	6113	0	-162	572	6678	0	267	1000	23.80	
Delhi	3102	0	-176	-436	1960	0	-40	-1352	-18.36	
UP	8631	1825	225	103	9874	1065	-1	1719	12.61	
Uttarakhand	1174	150	-28	116	1028	0	93	186	4.11	
HP	1123	0	-36	-157	725	0	44	-14	-0.78	
J&K	1853	100	-4	77	1311	0	195	17	1.02	
Chandigarh	191	0	-29	-5	103	0	-4	0	0.21	
Total	31533	2253	-244	412	29418	1065	569	2018	29.73	

* 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	1910	2010	2059	44.90	1871	44.95	-0.05
Rihand I STPS	1000	450	500	510	10.78	449	9.34	1.44
Rihand II STPS	1000	970	1016	1042	23.04	960	20.53	2.51
Rihand III STPS	500	0	0	0	0.00	0	0.00	0.00
Dadri I STPS	840	810	729	634	16.48	687	16.71	-0.23
Dadri II STPS	980	485	484	504	11.59	483	11.27	0.32
Unchahar I TPS	420	394	376	397	8.85	369	9.29	-0.44
Unchahar II TPS	420	404	404	380	9.09	379	9.29	-0.21
Unchahar III TPS	210	202	203	189	4.47	186	4.64	-0.18
ISTPP (Jhajjar)	1000	950	327	315	15.38	641	14.92	0.46
Dadri GPS	830	816	458	568	12.83	534	12.94	-0.12
Anta GPS	419	405	173	228	5.54	231	5.65	-0.12
Auraiya GPS	663	644	329	433	10.17	424	10.11	0.06
Sub Total (A)	10282	8441	7009	7259	173.10	7212	169.64	3.45
B. NPC								
NAPS	440	273	309	315	6.59	275	6.55	0.04
RAPS- B	440	414	453	458	9.87	411	9.94	-0.06
RAPS- C	440	430	469	472	10.23	426	10.32	-0.09
Sub Total (B)	1320	1117	1231	1245	26.69	1112	26.81	-0.12
C. NHPC								
Chamera I HPS	540	535	540	0	2.07	86	2.31	-0.25
Chamera II HPS	300	303	236	0	2.14	89	2.39	-0.25
Chamera III HPS	231	154	84	50	1.69	71	1.74	-0.04
Bairasuil HPS	180	182	0	0	0.88	37	0.90	-0.03
Salai-HPS	690	196	214	265	4.63	193	4.68	-0.05
Tanakpur-HPS	94	69	73	65	1.52	63	1.64	-0.12
Uri-HPS	480	182	285	134	4.42	184	4.32	0.10
Dhauliganga-HPS	280	288	277	0	1.96	82	1.98	-0.02
Dulhasi-HPS	390	387	372	10	4.84	202	4.92	-0.08
Sewa-II HPS	120	80	79	0	0.34	14	0.38	-0.04
Sub Total (C)	3305	2374	2160	524	24.48	1020	25.24	-0.77
D.NJPC								
Natpha Jhakri	1500	1605	1225	0	11.22	467	11.60	-0.38
Sub Total (D)	1500	1605	1225	0	11.22	467	11.60	-0.38
E. THDC								
Tehri HPS	1000	1050	500	0	4.72	196	4.71	0.00
Koteswar HPS	400	255	258	0	2.04	85	2.30	-0.26
Sub Total (E)	1400	1305	758	0	6.75	281	7.01	-0.26
F. BBMB								
Bhakra HPS	1480	355	574	309	8.70	363	8.52	0.18
Dehar HPS	990	244	495	145	6.18	258	5.86	0.32
Pong HPS	396	256	306	246	6.11	255	5.01	1.10
Sub Total (F)	2866	855	1375	700	20.99	875	19.38	1.61
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	73	0	0.91	38	0.87	0.03
KWHEP HPS(IPP)	1000	0	700	160	5.80	242	5.99	-0.19
Malana Stg-II HPS	100	0	18	18	0.44	18	0.40	0.04
Shree Cement TPS	300	0	262	264	6.29	262	6.23	0.05
Budhil HPS(IPP)	70	0	34	11	0.39	16	0.43	-0.04
Sub Total (G)	1662	0	1087	453	13.82	576	13.93	-0.10
H. Total Regional Entities (A-G)	22336	15697	14845	10181	277.05	11544	273.62	3.43

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	774	836	19.10	796
	Guru Nanak Dev TPS(Bhatinda)	440	266	205	5.23	218
	Guru Hargobind Singh TPS(L.mbt)	920	916	971	20.76	865
	Thermal (Total)	2620	1956	2012	45.08	1878
	Total Hydro	1148	282	244	8.11	338
Total Punjab	3768	2238	2256	53.19	2216	
Haryana	Panipat TPS	1367	989	906	22.81	950
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	165	150	3.88	162
	RGTPP (khedar) (IPP)	1200	801	676	17.70	738
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	359	352	9.15	381
	Thermal (Total)	4944	2314	2084	53.53	2231
	Total Hydro	62	37	36	0.90	37
Total Haryana	5006	2351	2120	54.43	2268	
Rajasthan	kota TPS	1240	1068	1171	26.54	1106
	suratgarh TPS	1500	1159	1336	29.76	1240
	Chabra TPS	500	380	379	9.70	404
	Dholpur GPS	330	138	138	3.51	146
	Ramgarh GPS	111	77	78	1.81	75
	RAPS A (NPC)	300	173	173	4.14	173
	Barsingar (NLC)	250	213	108	4.35	181
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	365	365	9.45	394
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3573	3748	89.25	3719
	Total Hydro	550	76	76	2.12	88
	Wind power	1843	271	113	3.70	154
	Biomass	91	21	21	0.51	21
	Solar	128	0	0	0.08	3
	Renewable/Others (Total)	2062	292	134	6.41	267
	Total Rajasthan	7767	3941	3958	97.78	4074
	UP	Anpara TPS	1630	1336	1325	28.50
Obra TPS		1382	503	494	11.00	458
Paricha TPS		890	512	509	11.00	458
Panki TPS		210	55	65	2.30	96
Harduaganj TPS		665	234	224	5.00	208
Tanda TPS (NTPC)		440	386	399	9.57	399
Roza TPS (IPP)		1200	1049	1080	25.18	1049
Anpara-C (IPP)		1200	333	458	10.29	429
Bajaj Energy Pvt.Ltd(IPP) TPS		450	275	302	6.77	282
Thermal (Total)		8067	4683	4856	109.60	4567
Vishnuparyag HPS (IPP)		400	157	158	3.71	155
Other Hydro		527	156	0	4.49	187
Cogeneration		981	100	100	2.40	100
Total UP		9975	5096	5114	120.20	4854
Uttarakhand	Total Hydro	1303	467	412	11.03	460
	Total Uttarakhand	1303	467	412	11.03	460
Delhi	Raighat TPS	135	98	105	2.76	115
	Delhi Gas Turbine	282	83	82	1.98	82
	Pragati Gas Turbine	330	263	260	5.36	223
	Rithala GPS	108	21	20	0.52	22
	Bawana GPS	677	219	225	5.54	231
	Badarpur TPS (NTPC)	705	425	495	10.28	428
	Thermal (Total)	2237	1109	1187	26.43	1101
Total Delhi	2237	1109	1187	26.43	1101	
HP	Baspa HPS (IPP)	330	30	80	1.81	75
	Malana HPS (IPP)	86	45	0	0.45	19
	Other Hydro	589	322	301	7.03	293
	Total HP	1005	397	381	9	387
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	16183	15857	382.54	15785
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2051	3638	73.86	3077
Total Regional Availability(Gross)		54353	33079	29676	733.45	30406

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6309	1402	70.59	2941
State Control Area Hydro	5368	1999	1578	49.82	1921
Total Regional Hydro	15731	8308	2980	120.41	4863

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	-100	-100	50	100	0.48	1.45		-0.98	
Gwalior-Agra (D/C)	-218	486	636	340	5.95	0.00	5.95		
Zerda-Kankroli	-254	-61	41	348	0.00	3.28		-3.28	
Zerda-Bhinmal	200	30	167	266	0.00	1.13		-1.13	
Malanpur-Auraiya	-208	-115	0	273	0.00	3.25		-3.25	
Badod-Kota/Morak	-101	-68	1	121	0.00	2.36		-2.36	
Mundra-Mohindergarh(HVDC)	926	923	926	0	22.15	0.00	22.15		
Sub Total WR	245	1095			28.58	11.47		17.10	
Pusauli Bypass	150	150	150	0	3.59	0.00	3.59		
MZP- GKP (D/C)	456	800	800	0	16.67	0.00	16.67		
Patna-Balia(D/C)	281	264	372	0	7.04	0.00	7.04		
B'Sharif-Balia (D/C)	325	397	518	0	9.79	0.00	9.79		
Barh - Balia(D/C)	336	635	683	0	11.52	0.00	11.52		
Pusauli-Balia	34	-123	0	139	0.14	0.00	0.14		
Gaya-Fatehpur (765 Kv)	105	296	392	0	5.32	0.00	5.32		
Pusauli-Sahupuri	161	158	170	0	3.65	0.00	3.65		
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	1806	2543			57.72	0.97		56.76	
Total IR Exch	2051	3638			86.30	12.44		73.86	

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
36.97	1.42	38.39	4.57	1.86	11.28	-1.26	8.86	-8.83

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
63.11	8.40	71.52	56.76	17.10	73.86	-6.36	8.70	2.34

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	0.40	85.10	84.70	62.50	14.90

<----- 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				
50.48	15.05	49.62	5.53	50.05	0.22	0.14	50.43	49.89

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	415	19:43	410	1:04	31.9	31.9	0.0	0.0
Gorakhpur	400	432	5:32	414	1:02	0.0	0.0	58.8	5.4
Bareilly	400	424	19:00	404	1:17	0.0	0.0	4.9	0.0
Kanpur	400	423	17:31	405	7:35	0.0	0.0	5.7	0.0
Dadri	400	424	21:43	407	10:19	0.0	0.0	16.9	0.0
Ballabhgarh	400	430	21:48	412	7:38	0.0	0.0	55.1	0.0
Bawana	400	427	21:41	411	11:05	0.0	0.0	42.1	0.0
Bassi	400	433	19:41	406	7:35	0.0	0.0	64.1	6.2
Hissar	400	422	19:40	9999	0:00	0.0	0.0	0.0	0.0
Moga	400	421	19:52	403	7:32	0.0	0.0	0.1	0.0
Abdullapur	400	425	23:48	403	7:51	0.0	0.0	24.8	0.0
Nalagarh	400	428	23:24	412	5:37	0.0	0.0	40.1	0.0
Kishenpur	400	417	17:04	396	7:37	0.0	0.0	0.0	0.0
Wagoora	400	416	17:07	380	7:24	0.0	21.3	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	503.99	1258.87	510.28	1560.04	269.32	228.83
Pong	426.72	384.05	420.70	916.71	421.95	975.89	69.12	355.55
Tehri	829.79	740.04	824.86	1100.00	818.65	982.26	89.50	102.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	62.34	66.80
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 23.10.2012 :

Scattered rains in NR.

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 : 23.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER