

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.10.2012

Date of Reporting : 18.10.2012

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
32290	3881	36171	50.04	29776	2113	31889	50.14	723.7	91.09

* 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)] Consumption Shortages *	
	Thermal	Hydro	Renewable/others \$	Total				(Net MU)	(MU)
Punjab	56.07	6.37		62.44	45.94	44.74	-1.21	107.18	2.10
Haryana	51.31	0.84		52.14	51.47	51.43	-0.04	103.57	8.22
Rajasthan	85.53	1.76	3.99	91.27	52.17	56.79	4.62	148.06	14.31
Delhi	31.75			31.75	40.87	38.27	-2.60	70.02	0.33
UP	94.29	9.16	2.40	105.85	102.64	102.69	0.05	208.54	60.45
Uttarakhand		12.47		12.47	11.95	14.85	2.90	27.31	3.05
HP		9.79		9.79	12.27	13.23	0.96	23.02	0.93
J & K		11.50	0.00	11.50	18.76	20.76	2.00	32.26	1.70
Chandigarh				0.00	3.80	3.73	-0.07	3.73	0.00
Total	318.94	51.88	6.39	377.21	339.86	346.48	6.62	723.69	91.09

* 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	5194	150	-225	378	4168	0	60	381	9.26	
Haryana	4700	590	41	249	4130	34	-38	205	4.72	
Rajasthan	5757	532	106	-18	6476	339	498	656	11.33	
Delhi	3532	49	-13	-465	2283	0	-226	-894	-14.57	
UP	8404	2378	8	167	9586	1690	104	1724	22.68	
Uttarakhand	1697	80	337	98	975	50	31	86	2.91	
HP	1157	2	-8	-206	819	0	116	-13	-2.37	
J&K	1643	100	25	-72	1234	0	119	-34	-1.00	
Chandigarh	206	0	-2	-11	105	0	-4	-5	0.15	
Total	32290	3881	268	122	29776	2113	660	2106	33.11	

* 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
							Net MU	Net MU	
A. NTPC									
Singrauli STPS	2000	1435	1559	1565	34.77	1449	34.44	0.33	
Rihand I STPS	1000	450	504	499	10.90	454	10.80	0.10	
Rihand II STPS	1000	970	1040	1046	23.51	980	23.28	0.23	
Rihand III STPS	500	0	0	0	0.00	0		0.00	
Dadri I STPS	840	810	852	860	19.23	801	19.38	-0.15	
Dadri II STPS	980	485	514	509	11.60	483	11.64	-0.04	
Unchahar I TPS	420	404	434	424	9.57	399	9.60	-0.03	
Unchahar II TPS	420	384	438	327	9.02	376	9.07	-0.06	
Unchahar III TPS	210	202	221	217	4.80	200	4.80	-0.01	
ISTPP (Jhajhar)	1000	950	776	659	17.70	738	18.67	-0.97	
Dadri GPS	830	805	651	610	14.48	603	14.97	-0.49	
Anta GPS	419	399	260	252	6.17	257	6.59	-0.42	
Auraiya GPS	663	479	316	320	7.41	309	7.79	-0.38	
Sub Total (A)	10282	7773	7565	7288	169.16	7048	171.04	-1.88	
B. NPC									
NAPS	440	267	306	315	6.51	271	6.41	0.11	
RAPS- B	440	412	454	458	9.88	412	9.89	-0.01	
RAPS- C	440	430	466	463	9.93	414	10.32	-0.39	
Sub Total (B)	1320	1109	1226	1236	26.32	1097	26.62	-0.29	
C. NHPC									
Chamera I HPS	540	535	540	0	3.15	131	3.13	0.02	
Chamera II HPS	300	300	302	0	2.61	109	2.61	0.00	
Chamera III HPS	231	154	158	0	1.71	71	1.72	-0.02	
Bairasuil HPS	180	182	181	0	1.09	45	0.95	0.14	
Salai-HPS	690	216	318	315	5.21	217	5.15	0.07	
Tanakpur-HPS	94	78	72	74	1.89	79	1.86	0.03	
Uri-HPS	480	186	306	160	4.49	187	4.23	0.26	
Dhauliganga-HPS	280	288	282	5	2.59	108	2.52	0.07	
Dulhasi-HPS	390	387	385	11	5.90	246	5.74	0.16	
Sewa-II HPS	120	80	58	0	0.56	23	0.53	0.03	
Sub Total (C)	3305	2405	2602	565	29.19	1216	28.44	0.75	
D. NJPC									
Nathpa Jhakri	1500	1605	1504	0	13.00	542	13.00	0.00	
Sub Total (D)	1500	1605	1504	0	13.00	542	13.00	0.00	
E. THDC									
Tehri HPS	1000	1050	252	0	5.23	218	5.00	0.23	
Koteswar HPS	400	190	196	0	1.63	68	1.60	0.03	
Sub Total (E)	1400	1240	448	0	6.87	286	6.60	0.27	
F. BBMB									
Bhakra HPS	1480	377	730	357	9.17	382	9.04	0.13	
Dehar HPS	990	278	495	145	6.73	280	6.66	0.07	
Pong HPS	396	282	306	246	7.05	294	5.01	2.04	
Sub Total (F)	2866	936	1531	748	22.95	956	20.70	2.25	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	76	0	0.98	41	0.95	0.04	
KWHEP HPS(IPP)	1000	0	180	160	6.95	290	7.08	-0.13	
Malana Stg-II HPS	100	0	23	25	0.52	22	0.49	0.03	
Shree Cement TPS	300	0	270	278	6.51	271	6.43	0.07	
Budhil HPS(IPP)	70	0	10	10	0.35	15	0.57	-0.22	
Sub Total (G)	1662	0	559	473	15.31	638	15.52	-0.21	
H. Total Regional Entities (A-G)	22336	15068	15435	10310	282.80	11783	281.92	0.88	

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	1268	1264	28.30	1179	
	Guru Nanak Dev TPS(Bhatinda)	440	318	310	6.74	281	
	Guru Hargobind Singh TPS(L.mbt)	920	972	965	21.02	876	
	Thermal (Total)	2620	2558	2539	56.07	2336	
	Total Hydro	1148	343	231	6.37	265	
	Total Punjab	3768	2901	2770	62.44	2602	
Haryana	Panipat TPS	1367	666	770	16.46	686	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	166	162	3.96	165	
	RGTPP (kheldar) (IPP)	1200	768	802	19.27	803	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	590	354	11.62	484	
	Thermal (Total)	4944	2190	2088	51.31	2138	
	Total Hydro	62	31	35	0.84	35	
	Total Haryana	5006	2221	2123	52.14	2173	
Rajasthan	kota TPS	1240	1053	1154	26.87	1120	
	suratgarh TPS	1500	1122	1284	29.18	1216	
	Chabra TPS	500	451	381	9.61	401	
	Dholpur GPS	330	174	133	3.46	144	
	Ramgarh GPS	111	76	77	1.98	82	
	RAPS A (NPC)	300	173	173	4.19	175	
	Barsingar (NLC)	250	96	51	1.73	72	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	357	357	8.51	355	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3502	3610	85.53	3564	
	Total Hydro	550	70	76	1.76	73	
	Wind power	1843	36	91	1.62	68	
	Biomass	91	25	25	0.61	25	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	61	116	3.99	166	
	Total Rajasthan	7767	3633	3802	91.27	3803	
	UP	Anpara TPS	1630	1153	1152	27.20	1133
		Obra TPS	1382	487	446	11.20	467
		Paricha TPS	890	377	391	9.40	392
Panki TPS		210	122	131	3.00	125	
Harduaganj TPS		665	180	167	4.60	192	
Tanda TPS (NTPC)		440	400	399	9.78	407	
Roza TPS (IPP)		1200	536	509	12.80	533	
Anpara-C (IPP)		1200	449	447	10.74	447	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	236	234	5.58	233	
Thermal (Total)		8067	3940	3876	94.29	3929	
Vishnuparyag HPS (IPP)		400	187	178	4.26	177	
Other Hydro		527	247	0	4.90	204	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4474	4154	105.85	4233	
Uttarakhand		Total Hydro	1303	713	578	12.47	519
		Total Uttarakhand	1303	713	578	12.47	519
Delhi	Raighat TPS	135	106	110	2.54	106	
	Delhi Gas Turbine	282	157	157	3.79	158	
	Pragati Gas Turbine	330	300	264	6.96	290	
	Rithala GPS	108	20	21	0.49	20	
	Bawana GPS	677	226	227	4.15	173	
	Badarpur TPS (NTPC)	705	680	585	13.82	576	
	Thermal (Total)	2237	1489	1364	31.75	1323	
	Total Delhi	2237	1489	1364	31.75	1323	
HP	Baspa HPS (IPP)	330	30	90	1.95	81	
	Malana HPS (IPP)	86	10	42	0.53	22	
	Other Hydro	589	352	278	7.31	305	
	Total HP	1005	392	410	10	408	
J & K	Baglihar HPS (IPP)	450	388	264	6.96	290	
	Other Hydro	323	178	201	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	566	465	11.50	479	
Total State Control Area Generation		32017	16389	15666	377.21	15540	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			894	4812	75.58	3149	
Total Regional Availability(Gross)		54353	32718	30788	735.59	30472	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6364	1498	80.47	3353
State Control Area Hydro	5368	2362	1795	51.88	1984
Total Regional Hydro	15731	8726	3293	132.34	5337

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	100	400	400	0	6.95	0.00	6.95
Gwalior-Agra (D/C)	-215	626	829	215	9.93	0.00	9.93
Zerda-Kankroli	-244	49	85	244	0.00	1.11	-1.11
Zerda-Bhinmal	-155	143	239	198	1.01	0.00	1.01
Malanpur-Auraiya	-183	-49	0	209	0.00	2.31	-2.31
Badod-Kota/Morak	-50	16	52	68	0.00	0.15	-0.15
Mundra-Mohindergarh(HVDC)	869	885	885	0	21.00	0.00	21.00
Sub Total WR	122	2070			38.89	3.56	35.32
Pusauli Bypass	-300	-200	0	300	0.00	6.54	-6.54
MZP- GKP (D/C)	456	1244	1244	0	19.26	0.00	19.26
Patna-Balia(D/C)	294	624	638	0	11.82	0.00	11.82
B'Sharif-Balia (D/C)	34	383	391	0	5.67	0.00	5.67
Barh - Balia(D/C)	180	383	388	0	7.63	0.00	7.63
Pusauli-Balia	1	236	236	0	0.22	0.00	0.22
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	149	106	170	0	3.16	0.00	3.16
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	772	2742			47.76	7.50	40.26
Total IR Exch	894	4812			86.65	11.07	75.58

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
34.25	1.45	35.71	1.22	-0.84	5.11	12.50	7.15	-6.99
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
49.18	19.80	68.99	40.26	35.32	75.58	-8.92	15.52	6.60

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	0.30	12.00	99.10	87.40	25.90	0.60
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.29	17.03	49.37	18.10	49.90	0.32	0.15	50.20	49.75

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	412	17:18	404	11:08	0.0	0.0	0.0	0.0
Gorakhpur	400	433	20:50	409	2:51	0.0	0.0	53.6	1.7
Bareilly	400	425	20:47	396	11:34	0.0	0.0	1.5	0.0
Kanpur	400	421	20:47	402	11:12	0.0	0.0	0.2	0.0
Dadri	400	421	3:01	400	11:11	0.0	0.0	1.3	0.0
Ballabgarh	400	427	3:03	407	11:12	0.0	0.0	32.8	0.0
Bawana	400	426	3:04	405	11:33	0.0	0.0	17.6	0.0
Bassi	400	432	20:47	404	8:09	0.0	0.0	42.0	1.1
Hissar	400	415	3:05	396	11:12	0.0	0.0	0.0	0.0
Moga	400	420	3:02	402	10:18	0.0	0.0	0.0	0.0
Abdullapur	400	427	3:11	403	11:12	0.0	0.0	10.1	0.0
Nalagarh	400	430	3:03	406	11:11	0.0	0.0	19.8	0.0
Kishenpur	400	423	3:13	395	18:35	0.0	0.0	4.9	0.0
Wagoora	400	419	3:02	378	18:31	0.9	7.4	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	503.72	1258.87	510.32	1560.04	282.40	480.59
Pong	426.72	384.05	421.83	975.89	422.53	1005.78	116.78	335.81
Tehri	829.79	740.04	824.70	1100.00	818.65	982.26	101.95	122.00
Koteshwar	612.50	598.50	608.70	3.98	NA	NA	122.00	121.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	105.76	89.93
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	520.58	NA	522.35	NA	80.00	29.99

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.10.2012 :

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 : 17.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER