

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.10.2012

Date of Reporting : 09.10.2012

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
33701	3706	37408	50.24	31085	1650	32735	50.00	772.9	84.67

* 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	53.04	10.65		63.69	71.14	70.93	-0.21	134.61	1.80
Haryana	60.96	0.66		61.62	53.64	54.05	0.40	115.67	8.30
Rajasthan	89.13	0.11	1.85	91.10	60.90	62.53	1.63	153.62	6.99
Delhi	30.12			30.12	48.17	44.78	-3.39	74.90	0.04
UP	96.96	10.70	2.40	110.05	94.04	96.26	2.22	206.31	64.80
Uttarakhand		14.81		14.81	12.78	15.20	2.42	30.01	0.72
HP		13.49		13.49	10.50	10.72	0.22	24.21	0.31
J & K		15.28	0.00	15.28	15.92	14.01	-1.91	29.29	1.70
Chandigarh				0.00	4.77	4.27	-0.50	4.27	0.00
Total	330.20	65.69	4.25	400.15	371.86	372.74	0.88	772.89	84.67

* 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	6318	150	27	1025	5239	0	26	924	25.45	
Haryana	5225	460	35	338	4521	130	101	259	7.93	
Rajasthan	6095	315	101	714	6360	0	-49	1117	19.13	
Delhi	3661	22	-137	-362	2560	0	-248	-746	-10.42	
UP	8034	2478	-421	118	9497	1460	142	1724	13.98	
Uttarakhand	1619	80	258	128	996	60	-51	94	3.60	
HP	1057	102	72	-464	779	0	-60	-15	-4.48	
J&K	1476	100	-6	-143	1002	0	-109	-119	-2.97	
Chandigarh	217	0	-22	11	131	0	-17	0	0.41	
Total	33701	3706	-93	1365	31085	1650	-265	3238	52.63	

* 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	1435	1517	1551	34.80	1450	34.44	0.36
Rihand I STPS	1000	915	1001	1001	22.09	920	21.93	0.16
Rihand II STPS	1000	970	1033	1042	23.40	975	23.28	0.12
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	642	805	648	14.71	613	14.99	-0.28
Dadri II STPS	980	480	497	501	11.15	465	11.21	-0.05
Unchahar I TPS	420	404	427	397	9.33	389	9.34	-0.01
Unchahar II TPS	420	394	432	366	8.78	366	8.83	-0.04
Unchahar III TPS	210	201	213	198	4.60	192	4.62	-0.02
ISTPP (Jhajjar)	1000	950	821	782	17.68	737	18.37	-0.69
Dadri GPS	830	801	573	507	13.21	551	13.43	-0.22
Anta GPS	419	395	221	195	5.39	225	5.42	-0.03
Auraiya GPS	663	424	278	257	6.61	275	6.63	-0.02
Sub Total (A)	10282	8010	7818	7445	171.75	7156	172.49	-0.73
B. NPC								
NAPS	440	266	310	312	6.51	271	6.38	0.12
RAPS- B	440	406	452	454	9.83	410	9.74	0.09
RAPS- C	440	430	467	464	9.96	415	10.32	-0.36
Sub Total (B)	1320	1102	1229	1230	26.30	1096	26.45	-0.15
C. NHPC								
Chamera I HPS	540	535	360	0	3.68	153	3.70	-0.02
Chamera II HPS	300	300	199	0	3.31	138	3.34	-0.03
Chamera III HPS	231	154	173	0	2.13	89	2.07	0.06
Bairasuil HPS	180	182	120	0	1.23	51	1.22	0.01
Salai-HPS	690	338	429	326	7.81	325	8.11	-0.31
Tanakpur-HPS	94	94	95	95	2.29	95	2.24	0.05
Uri-HPS	480	262	352	240	6.55	273	6.38	0.17
Dhauliganga-HPS	280	280	278	5	3.12	130	3.06	0.05
Dulhasti-HPS	390	258	278	245	6.11	254	5.97	0.13
Sewa-II HPS	120	80	79	0	0.63	26	0.64	-0.01
Sub Total (C)	3305	2482	2363	911	36.85	1535	36.74	0.11
D.NJPC								
Nathpa Jhakri	1500	1605	1514	0	14.73	614	14.89	-0.16
Sub Total (D)	1500	1605	1514	0	14.73	614	14.89	-0.16
E. THDC								
Tehri HPS	1000	1050	920	0	4.17	174	4.00	0.17
Koteswar HPS	400	280	283	0	1.33	56	1.30	0.03
Sub Total (E)	1400	1330	1203	0	5.50	229	5.30	0.20
F. BBMB								
Bhakra HPS	1480	836	1100	571	20.42	851	20.05	0.37
Dehar HPS	990	343	600	330	8.99	375	8.24	0.75
Pong HPS	396	252	306	186	6.26	261	5.01	1.25
Sub Total (F)	2866	1431	2006	1087	35.67	1486	33.30	2.37
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	47	50	1.20	50	1.39	-0.19
KWHEP HPS(IPP)	1000	0	500	400	7.89	329	7.92	-0.03
Malana Stg-II HPS	100	0	26	30	0.65	27	0.60	0.05
Shree Cement TPS	300	0	291	288	6.91	288	7.07	-0.16
Budhil HPS(IPP)	70	0	22	25	0.70	29	0.64	0.05
Sub Total (G)	1662	0	886	793	17.35	723	17.63	-0.28
H. Total Regional Entities (A-G)	22336	15960	17019	11466	308.15	12839	306.79	1.36

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	1052	1261	27.29	1137	
	Guru Nanak Dev TPS(Bhatinda)	440	208	208	4.43	185	
	Guru Hargobind Singh TPS(L.mbt)	920	971	965	21.31	888	
	Thermal (Total)	2620	2231	2434	53.04	2210	
	Total Hydro	1148	498	344	10.65	444	
	Total Punjab	3768	2729	2778	63.69	2654	
Haryana	Panipat TPS	1367	978	875	21.80	908	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	402	410	9.85	410	
	RGTPP (khedar) (IPP)	1200	811	785	18.42	768	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	529	353	10.88	453	
	Thermal (Total)	4944	2720	2423	60.96	2540	
	Total Hydro	62	27	25	0.66	28	
	Total Haryana	5006	2747	2448	61.62	2567	
Rajasthan	kota TPS	1240	1152	1178	26.89	1120	
	suratgarh TPS	1500	1328	1359	31.12	1296	
	Chabra TPS	500	440	372	9.51	396	
	Dholpur GPS	330	146	137	3.37	141	
	Ramgarh GPS	111	75	70	1.88	79	
	RAPS A (NPC)	300	177	177	4.12	172	
	Barsingar (NLC)	250	206	216	3.72	155	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	369	342	8.52	355	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3893	3851	89.13	3714	
	Total Hydro	550	0	0	0.11	5	
	Wind power	1843	24	2	0.75	31	
	Biomass	91	30	30	0.73	30	
	Solar	128	0	0	0.26	11	
	Renewable/Others (Total)	2062	54	32	1.85	77	
	Total Rajasthan	7767	3947	3883	91.10	3796	
	UP	Anpara TPS	1630	862	854	18.10	754
		Obra TPS	1382	359	511	10.10	421
		Paricha TPS	890	541	317	9.80	408
Panki TPS		210	155	75	3.20	133	
Harduaganj TPS		665	0	206	1.60	67	
Tanda TPS (NTPC)		440	398	400	9.79	408	
Roza TPS (IPP)		1200	1108	1098	26.25	1094	
Anpara-C (IPP)		1200	446	449	10.56	440	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	315	315	7.56	315	
Thermal (Total)		8067	4184	4225	96.96	4040	
Vishnuparyag HPS (IPP)		400	257	247	5.82	242	
Other Hydro		527	204	0	4.88	203	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4745	4572	110.05	4343	
Uttarakhand		Total Hydro	1303	619	636	14.81	617
	Total Uttarakhand	1303	619	636	14.81	617	
Delhi	Raighat TPS	135	51	66	1.17	49	
	Delhi Gas Turbine	282	74	115	2.41	100	
	Pragati Gas Turbine	330	299	305	7.38	308	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	291	227	6.34	264	
	Badarpur TPS (NTPC)	705	570	585	12.82	534	
	Thermal (Total)	2237	1285	1298	30.12	1255	
	Total Delhi	2237	1285	1298	30.12	1255	
HP	Baspa HPS (IPP)	330	30	59	2.58	108	
	Malana HPS (IPP)	86	28	25	0.69	29	
	Other Hydro	589	460	386	10.22	426	
	Total HP	1005	518	470	13	562	
J & K	Baglihar HPS (IPP)	450	442	440	10.55	440	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	650	15.28	637	
Total State Control Area Generation		32017	17217	16735	400.15	16431	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1927	4411	81.39	3391	
Total Regional Availability(Gross)		54353	36163	32612	789.68	32661	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7659	2478	102.49	4270
State Control Area Hydro	5368	2493	2125	65.69	2495
Total Regional Hydro	15731	10152	4603	168.18	6765

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	0	500	500	0	6.58	0.00	6.58		
Gwalior-Agra (D/C)	364	842	864	0	15.47	0.00	15.47		
Zerda-Kankroli	-77	120	148	115	0.21	0.00	0.21		
Zerda-Bhinmal	-22	193	252	109	2.17	0.00	2.17		
Malanpur-Auraiya	-114	-23	0	118	0.00	1.49	-1.49		
Badod-Kota/Morak	14	78	78	52	0.04	0.00	0.04		
Mundra-Mohindergarh(HVDC)	132	132	605	0	3.22	0.00	3.22		
Sub Total WR	297	1842			27.69	1.49	26.20		
Pusauli Bypass	50	50	50	0	1.27	0.00	1.27		
MZP- GKP (D/C)	574	994	1036	0	20.28	0.00	20.28		
Patna-Balia(D/C)	0	315	328	0	2.51	0.00	2.51		
B'Sharif-Balia (D/C)	312	468	531	0	10.17	0.00	10.17		
Barh - Balia(D/C)	412	377	751	0	11.66	0.00	11.66		
Pusauli-Balia	-5	-60	81	60	0.94	0.00	0.94		
Gaya-Fatehpur (765 Kv)	164	303	372	0	5.96	0.00	5.96		
Pusauli-Sahupuri	168	160	183	0	3.44	0.00	3.44		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-45	-38	0	48	0.00	1.04	-1.04		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1630	2569			56.23	1.04	55.19		
Total IR Exch	1927	4411			83.92	2.53	81.39		

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
34.92	2.13	37.05	4.76	10.64	19.11	0.90	2.90	-2.90
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
63.82	13.07	76.89	55.19	26.20	81.39	-8.64	13.13	4.50

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	0.17	9.48	98.93	89.62	52.53	0.90
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.45	4.06	49.46	17.21	50.00	0.20	0.11	50.31	49.78

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	418	21:45	404	9:26	0.0	0.0	0.0	0.0
Gorakhpur	400	433	20:57	411	9:21	0.0	0.0	40.3	6.5
Bareilly	400	418	20:08	394	9:17	0.0	0.0	0.0	0.0
Kanpur	400	421	20:46	401	9:16	0.0	0.0	1.3	0.0
Dadri	400	416	4:16	400	12:17	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	4:06	405	9:18	0.0	0.0	16.3	0.0
Bawana	400	420	4:16	404	12:18	0.0	0.0	0.0	0.0
Bassi	400	432	4:06	408	6:33	0.0	0.0	58.1	0.8
Hissar	400	411	21:43	394	12:18	0.0	0.0	0.0	0.0
Moga	400	414	4:02	399	12:11	0.0	0.0	0.0	0.0
Abdullapur	400	418	4:05	403	12:11	0.0	0.0	0.0	0.0
Nalagarh	400	421	3:00	402	12:14	0.0	0.0	0.7	0.0
Kishenpur	400	419	4:06	399	19:07	0.0	0.0	0.0	0.0
Wagoora	400	422	4:02	385	19:10	0.0	3.8	1.0	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	504.48	1285.56	511.17	1605.30	390.06	587.43
Pong	426.72	384.05	422.11	990.81	422.97	1035.89	136.23	313.13
Tehri	829.79	740.04	524.70	1100.00	818.65	982.26	132.96	98.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	130.77	99.96
Rihand	268.22	252.98	264.14	554.30	265.45	645.80	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	106.75
RSD	527.91	487.91	520.63	NA	522.92	NA	108.93	163.95

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.10.2012 :

1: Normal weather 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 : 08.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER