

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.10.2012

Date of Reporting : 17.10.2012

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
32184	4095	36279	50.12	27351	750	28101	50.12	705.0	76.77

* 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	53.08	5.84		58.92	42.65	43.11	0.46	102.03	1.80
Haryana	50.30	0.80		51.10	44.29	44.74	0.45	95.84	6.41
Rajasthan	86.97	1.95	4.23	93.15	52.10	54.71	2.61	147.86	11.26
Delhi	31.06			31.06	42.54	38.33	-4.21	69.39	0.12
UP	93.26	9.81	2.40	105.46	104.42	104.30	-0.12	209.76	52.43
Uttarakhand		12.56		12.56	12.22	15.30	3.07	27.86	2.31
HP		9.50		9.50	11.94	12.75	0.81	22.25	0.73
J & K		11.57	0.00	11.57	17.55	14.72	-2.83	26.29	1.70
Chandigarh				0.00	3.95	3.72	-0.23	3.72	0.00
Total	314.67	52.03	6.63	373.32	331.66	331.67	0.01	704.99	76.77

* 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	5309	150	-22	378	3429	0	-65	381	11.58	
Haryana	4469	605	-82	261	3250	0	-56	348	7.56	
Rajasthan	6479	558	165	527	5659	0	-202	767	12.10	
Delhi	3488	0	-161	-209	2247	0	-44	-772	-13.60	
UP	8164	2483	50	118	10015	750	203	1729	23.59	
Uttarakhand	1578	80	276	122	1020	0	189	89	2.69	
HP	935	118	-14	-221	803	0	87	11	-2.84	
J&K	1567	100	-32	-103	819	0	-236	-69	-1.82	
Chandigarh	196	0	-9	15	109	0	-7	0	0.30	
Total	32184	4095	171	887	27351	750	-130	2483	39.55	

* 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), UI: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1435	1544	1571	34.40	1433	34.03	0.37
Rihand I STPS	1000	651	505	1017	15.25	635	15.30	-0.05
Rihand II STPS	1000	970	1041	1035	23.13	964	22.94	0.19
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	870	632	17.14	714	17.19	-0.06
Dadri II STPS	980	485	510	502	10.84	452	10.90	-0.06
Unchahar I TPS	420	404	431	357	9.01	375	9.21	-0.20
Unchahar II TPS	420	403	435	338	8.74	364	8.77	-0.03
Unchahar III TPS	210	202	220	158	4.45	185	4.49	-0.04
ISTPP (Jhajhar)	1000	918	459	679	9.87	411	12.02	-2.14
Dadri GPS	830	805	599	476	12.86	536	13.19	-0.33
Anta GPS	419	399	234	223	5.88	245	5.95	-0.07
Auraiya GPS	663	479	289	271	6.90	288	7.07	-0.16
Sub Total (A)	10282	7961	7137	7259	158.46	6603	161.05	-2.58
B. NPC								
NAPS	440	272	305	318	6.53	272	6.53	0.00
RAPS- B	440	412	454	459	9.88	412	9.89	-0.01
RAPS- C	440	430	464	470	9.97	415	10.32	-0.36
Sub Total (B)	1320	1114	1223	1247	26.37	1099	26.74	-0.37
C. NHPC								
Chamera I HPS	540	535	540	0	3.03	126	3.06	-0.03
Chamera II HPS	300	300	300	0	2.78	116	2.71	0.08
Chamera III HPS	231	154	138	0	1.86	77	1.82	0.03
Bairasuil HPS	180	182	30	50	1.06	44	0.97	0.09
Salai-HPS	690	303	331	317	7.19	300	7.23	-0.03
Tanakpur-HPS	94	77	79	87	1.81	76	1.80	0.01
Uri-HPS	480	188	251	162	4.53	189	4.37	0.16
Dhauliganga-HPS	280	284	138	5	2.83	118	2.84	-0.01
Dulhasi-HPS	390	387	397	11	5.89	245	5.83	0.06
Sewa-II HPS	120	80	84	0	0.47	20	0.47	0.00
Sub Total (C)	3305	2488	2288	632	31.45	1311	31.11	0.35
D.NJPC								
Natpha Jhakri	1500	1605	1524	198	13.03	543	12.78	0.25
Sub Total (D)	1500	1605	1524	198	13.03	543	12.78	0.25
E. THDC								
Tehri HPS	1000	1050	950	0	5.20	217	5.00	0.20
Koteswar HPS	400	190	192	0	1.68	70	1.60	0.08
Sub Total (E)	1400	1240	1142	0	6.88	287	6.60	0.28
F. BBMB								
Bhakra HPS	1480	378	780	355	9.20	383	9.08	0.12
Dehar HPS	990	287	495	280	7.07	295	6.88	0.19
Pong HPS	396	273	306	246	6.79	283	5.01	1.78
Sub Total (F)	2866	938	1581	881	23.06	961	20.97	2.10
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	75	0	0.99	41	0.95	0.04
KWHEP HPS(IPP)	1000	0	176	180	6.82	284	6.86	-0.04
Malana Stg-II HPS	100	0	22	22	0.50	21	0.47	0.03
Shree Cement TPS	300	0	265	108	5.95	248	5.97	-0.03
Budhil HPS(IPP)	70	0	10	35	0.50	21	0.53	-0.03
Sub Total (G)	1662	0	548	345	14.76	615	14.79	-0.03
H. Total Regional Entities (A-G)	22336	15346	15443	10562	274.02	11417	274.02	-0.01

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	1267	1106	27.56	1148	
	Guru Nanak Dev TPS(Bhatinda)	440	282	185	4.82	201	
	Guru Hargobind Singh TPS(L.mbt)	920	964	960	20.71	863	
	Thermal (Total)	2620	2513	2251	53.08	2212	
	Total Hydro	1148	350	228	5.84	243	
	Total Punjab	3768	2863	2479	58.92	2455	
Haryana	Panipat TPS	1367	794	747	18.82	784	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	178	138	3.78	157	
	RGTPP (kheadar) (IPP)	1200	868	770	19.63	818	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	364	282	8.07	336	
	Thermal (Total)	4944	2204	1937	50.30	2096	
	Total Hydro	62	32	32	0.80	33	
	Total Haryana	5006	2236	1969	51.10	2129	
Rajasthan	kota TPS	1240	1161	1052	26.93	1122	
	suratgarh TPS	1500	1338	1132	30.20	1258	
	Chabra TPS	500	412	374	9.31	388	
	Dholpur GPS	330	175	132	3.53	147	
	Ramgarh GPS	111	78	78	1.86	78	
	RAPS A (NPC)	300	173	173	4.15	173	
	Barsingar (NLC)	250	109	110	2.24	93	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	365	8.75	365	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3811	3416	86.97	3624	
	Total Hydro	550	177	0	1.95	81	
	Wind power	1843	4	148	1.70	71	
	Biomass	91	24	24	0.59	24	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	28	172	4.23	176	
	Total Rajasthan	7767	4016	3588	93.15	3881	
	UP	Anpara TPS	1630	1203	1263	27.20	1133
		Obra TPS	1382	505	542	11.20	467
		Paricha TPS	890	417	433	9.30	388
Panki TPS		210	155	155	3.30	138	
Harduaganj TPS		665	237	176	4.30	179	
Tanda TPS (NTPC)		440	398	399	9.78	407	
Roza TPS (IPP)		1200	279	540	11.78	491	
Anpara-C (IPP)		1200	446	448	10.78	449	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	234	234	5.62	234	
Thermal (Total)		8067	3874	4190	93.26	3886	
Vishnuparyag HPS (IPP)		400	183	187	4.36	182	
Other Hydro		527	252	0	5.45	227	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4409	4477	105.46	4213	
Uttarakhand		Total Hydro	1303	629	412	12.56	523
		Total Uttarakhand	1303	629	412	12.56	523
Delhi	Raighat TPS	135	106	108	2.49	104	
	Delhi Gas Turbine	282	157	158	3.84	160	
	Pragati Gas Turbine	330	298	264	7.05	294	
	Rithala GPS	108	20	20	0.42	17	
	Bawana GPS	677	226	29	4.43	185	
	Badarpur TPS (NTPC)	705	595	580	12.84	535	
	Thermal (Total)	2237	1402	1159	31.06	1294	
	Total Delhi	2237	1402	1159	31.06	1294	
HP	Baspa HPS (IPP)	330	33	33	2.26	94	
	Malana HPS (IPP)	86	10	38	0.51	21	
	Other Hydro	589	199	258	6.72	280	
	Total HP	1005	242	329	9	396	
J & K	Baglihar HPS (IPP)	450	414	360	7.03	293	
	Other Hydro	323	178	201	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	592	561	11.57	482	
Total State Control Area Generation		32017	16389	14974	373.32	15374	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2798	3674	75.19	3133	
Total Regional Availability(Gross)		54353	34630	29210	722.53	29924	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6808	1913	82.74	3447
State Control Area Hydro	5368	2274	1562	52.03	1986
Total Regional Hydro	15731	9082	3475	134.76	5433

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	500	100	500	0	8.10	0.00	8.10	0.00	8.10
Gwalior-Agra (D/C)	324	463	883	0	11.67	0.00	11.67	0.00	11.67
Zerda-Kankroli	85	44	94	118	0.79	0.00	0.79	0.00	0.79
Zerda-Bhinmal	15	45	208	53	1.60	0.00	1.60	0.00	1.60
Malanpur-Auraiya	-152	-41	0	191	0.00	1.88	-1.88	0.00	-1.88
Badod-Kota/Morak	-165	-39	46	165	0.00	1.25	-1.25	0.00	-1.25
Mundra-Mohindergarh(HVDC)	581	615	582	0	7.65	0.00	7.65	0.00	7.65
Sub Total WR	1188	1187			29.81	3.13	26.68		
Pusauli Bypass	-300	0	0	300	0.00	4.79	-4.79	0.00	-4.79
MZP- GKP (D/C)	708	1120	1120	0	23.18	0.00	23.18	0.00	23.18
Patna-Balia(D/C)	527	394	666	0	12.52	0.00	12.52	0.00	12.52
B'Sharif-Balia (D/C)	159	326	357	0	6.46	0.00	6.46	0.00	6.46
Barh - Balia(D/C)	321	394	435	0	8.66	0.00	8.66	0.00	8.66
Pusauli-Balia	90	124	206	0	0.07	0.00	0.07	0.00	0.07
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Sahupuri	150	163	168	0	3.39	0.00	3.39	0.00	3.39
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-45	-34	0	48	0.00	0.97	-0.97	0.00	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1610	2487			54.27	5.76	48.51		
Total IR Exch	2798	3674			84.08	8.89	75.19		

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
29.48	1.84	31.33	1.39	1.67	6.88	15.32	8.76	-8.73
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
48.36	20.19	68.55	48.51	26.68	75.19	0.14	6.49	6.64

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	5.00	97.90	93.20	37.60	1.80
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.30	9.04	49.43	10.14	49.95	0.21	0.14	50.27	49.81

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	19:58	401	10:37	0.0	0.0	0.0	0.0
Gorakhpur	400	427	20:00	413	23:44	0.0	0.0	53.0	0.0
Bareilly	400	419	19:31	389	10:39	0.0	0.0	0.0	0.0
Kanpur	400	416	19:57	397	10:37	0.0	0.0	0.0	0.0
Dadri	400	420	0:00	401	10:37	0.0	0.0	0.0	0.0
Ballabhgarh	400	426	0:00	403	10:39	0.0	0.0	26.3	0.0
Bawana	400	423	0:00	406	11:06	0.0	0.0	18.8	0.0
Bassi	400	427	3:05	402	9:49	0.0	0.0	40.4	0.0
Hissar	400	414	0:00	397	11:08	0.0	0.0	0.0	0.0
Moga	400	417	0:59	400	11:40	0.0	0.0	0.0	0.0
Abdullapur	400	421	3:18	243	9:59	0.2	0.2	2.2	0.0
Nalagarh	400	423	0:59	409	11:22	0.0	0.0	26.5	0.0
Kishenpur	400	424	4:01	397	18:21	0.0	0.0	10.1	0.0
Wagoora	400	428	3:35	382	19:10	0.0	6.3	18.3	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 16.10.2012 :

1: Scattered rains in Punjab, Haryana, Rajasthan and J&K.

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 : 16.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER