

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.10.2012

Date of Reporting : 29.10.2012

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
30367	2198	32565	50.17	26904	750	27654	50.11	675.2	52.45

* 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	45.17	5.58		50.75	40.64	40.59	-0.06	91.34	6.21
Haryana	44.63	0.82		45.45	47.85	49.28	1.43	94.72	4.44
Rajasthan	90.29	3.32	4.91	98.51	54.77	56.01	1.24	154.52	1.89
Delhi	21.42			21.42	32.85	30.36	-2.49	51.78	0.09
UP	110.41	7.25	2.40	120.06	78.91	75.44	-3.47	195.49	36.40
Uttarakhand		10.26		10.26	14.98	16.80	1.82	27.05	0.92
HP		8.22		8.22	12.24	13.35	1.11	21.57	0.81
J & K		9.42	0.00	9.42	28.34	26.40	-1.94	35.82	1.70
Chandigarh				0.00	3.48	2.91	-0.57	2.91	0.00
Total	311.92	44.86	7.31	364.08	314.05	311.11	-2.93	675.20	52.45

* 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	4369	334	-3	-464	3262	0	21	317	1.38	
Haryana	4256	595	298	378	3696	0	81	328	5.62	
Rajasthan	6300	0	-159	281	6434	0	-168	609	11.32	
Delhi	2709	19	-55	-1224	1550	0	-108	-1595	-32.47	
UP	8260	1150	-458	83	8681	750	-10	218	2.24	
Uttarakhand	1499	0	159	262	1023	0	75	138	4.87	
HP	1135	0	88	-184	785	0	74	66	-1.98	
J&K	1677	100	-233	309	1383	0	-91	348	7.96	
Chandigarh	162	0	-25	-25	90	0	-29	-10	-0.27	
Total	30367	2198	-388	-585	26904	750	-154	418	-1.34	

* 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	1925	2066	2076	46.64	1943	46.20	0.44
Rihand I STPS	1000	917	1022	1014	22.10	921	22.02	0.08
Rihand II STPS	1000	970	1034	1039	23.39	974	23.28	0.11
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	702	640	622	15.01	625	15.08	-0.08
Dadri II STPS	980	962	994	1015	21.26	886	22.31	-1.05
Unchahar I TPS	420	405	431	363	9.01	375	9.47	-0.46
Unchahar II TPS	420	405	434	326	9.33	389	9.37	-0.04
Unchahar III TPS	210	202	217	177	4.67	195	4.71	-0.04
ISTPP (Jhajjar)	1000	470	412	465	10.21	426	11.05	-0.84
Dadri GPS	830	824	564	494	12.07	503	12.17	-0.10
Anta GPS	419	405	233	210	5.34	222	5.26	0.07
Auraiya GPS	663	657	316	328	7.02	292	7.14	-0.12
Sub Total (A)	10282	8844	8363	8129	186.04	7752	188.07	-2.02
B. NPC								
NAPS	440	277	315	313	6.64	277	6.65	-0.01
RAPS- B	440	416	460	460	10.00	417	9.98	0.01
RAPS- C	440	440	471	472	10.10	421	10.56	-0.46
Sub Total (B)	1320	1133	1246	1245	26.74	1114	27.19	-0.45
C. NHPC								
Chamera I HPS	540	535	540	0	3.04	127	3.04	0.00
Chamera II HPS	300	303	135	0	2.10	88	1.96	0.14
Chamera III HPS	231	154	77	0	1.36	57	1.43	-0.07
Bairasuil HPS	180	182	10	0	0.81	34	0.79	0.02
Salai-HPS	690	182	241	230	4.65	194	4.39	0.26
Tanakpur-HPS	94	60	59	60	1.45	60	1.43	0.02
Uri-HPS	480	165	237	130	3.94	164	3.95	-0.01
Dhauliganga-HPS	280	288	285	0	2.04	85	2.07	-0.03
Dulhasi-HPS	390	387	173	10	4.91	205	5.06	-0.15
Sewa-II HPS	120	80	84	0	0.37	15	0.35	0.01
Sub Total (C)	3305	2335	1841	430	24.66	1027	24.46	0.20
D. NJPC								
Nathpa Jhakri	1500	1605	1522	0	11.15	465	11.25	-0.10
Sub Total (D)	1500	1605	1522	0	11.15	465	11.25	-0.10
E. THDC								
Tehri HPS	1000	656	1050	0	5.14	214	5.00	0.14
Koteshwar HPS	400	240	237	0	1.40	58	1.35	0.05
Sub Total (E)	1400	896	1287	0	6.54	272	6.35	0.19
F. BBMB								
Bhakra HPS	1480	346	571	303	8.36	348	8.31	0.05
Dehar HPS	990	214	495	145	5.59	233	5.14	0.45
Pong HPS	396	286	366	246	7.16	298	5.01	2.15
Sub Total (F)	2866	847	1432	694	21.11	880	18.46	2.65
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	42	0	0.85	35	0.79	0.05
KWHEP HPS(IPP)	1000	0	500	160	5.99	250	6.01	-0.01
Malana Stg-II HPS	100	0	17	17	0.41	17	0.38	0.03
Shree Cement TPS	300	0	268	220	5.49	229	5.28	0.21
Budhil HPS(IPP)	70	0	34	0	0.34	14	0.38	-0.04
Sub Total (G)	1662	0	861	397	13.08	545	12.84	0.24
H. Total Regional Entities (A-G)	22336	15660	16552	10895	289.31	12055	288.61	0.70

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	839	750	20.05	835	
	Guru Nanak Dev TPS(Bhatinda)	440	202	185	4.83	201	
	Guru Hargobind Singh TPS(L.mbt)	920	961	832	20.29	845	
	Thermal (Total)	2620	2002	1767	45.17	1882	
	Total Hydro	1148	237	237	5.58	233	
Total Punjab	3768	2239	2004	50.75	2115		
Haryana	Panipat TPS	1367	969	926	23.09	962	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	414	285	9.23	384	
	RGTPP (khedar) (IPP)	1200	513	457	12.31	513	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1896	1668	44.63	1860	
	Total Hydro	62	32	35	0.82	34	
	Total Haryana	5006	1928	1703	45.45	1894	
Rajasthan	kota TPS	1240	1159	1170	27.66	1153	
	suratgarh TPS	1500	1272	1332	31.01	1292	
	Chabra TPS	500	453	446	9.69	404	
	Dholpur GPS	330	95	95	2.26	94	
	Ramgarh GPS	111	81	82	2.08	87	
	RAPS A (NPC)	300	173	173	4.01	167	
	Barsingar (NLC)	250	201	207	4.97	207	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	365	8.61	359	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3799	3870	90.29	3762	
	Total Hydro	550	66	215	3.32	138	
	Wind power	1843	0	81	0.73	30	
	Biomass	91	29	29	0.71	29	
	Solar	128	4	0	0.15	6	
	Renewable/Others (Total)	2062	29	110	4.91	204	
	Total Rajasthan	7767	3894	4195	98.51	4105	
	UP	Anpara TPS	1630	1212	1109	28.00	1167
		Obra TPS	1382	439	474	11.30	471
Paricha TPS		890	399	437	10.20	425	
Panki TPS		210	81	95	1.80	75	
Harduaganj TPS		665	221	221	5.30	221	
Tanda TPS (NTPC)		440	399	400	9.88	412	
Roza TPS (IPP)		1200	863	1062	24.12	1005	
Anpara-C (IPP)		1200	444	879	13.22	551	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	176	324	6.59	275	
Thermal (Total)		8067	4234	5001	110.41	4600	
Vishnuparyag HPS (IPP)		400	153	143	3.43	143	
Other Hydro		527	121	0	3.81	159	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4608	5244	120.06	4859	
Uttarakhand		Total Hydro	1303	442	453	10.26	427
	Total Uttarakhand	1303	442	453	10.26	427	
Delhi	Raighat TPS	135	110	113	2.45	102	
	Delhi Gas Turbine	282	84	84	1.92	80	
	Pragati Gas Turbine	330	300	267	7.00	292	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	490	425	10.05	419	
	Thermal (Total)	2237	984	889	21.42	892	
	Total Delhi	2237	984	889	21.42	892	
HP	Baspa HPS (IPP)	330	0	85	1.65	69	
	Malana HPS (IPP)	86	45	0	0.41	17	
	Other Hydro	589	262	230	6.17	257	
	Total HP	1005	307	315	8	343	
J & K	Baglihar HPS (IPP)	450	294	232	5.87	245	
	Other Hydro	323	140	175	3.55	148	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	434	407	9.42	393	
Total State Control Area Generation		32017	14836	15210	364.08	15027	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			185	1066	27.82	1159	
Total Regional Availability(Gross)		54353	31573	27171	681.22	28241	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6641	1301	70.71	2946
State Control Area Hydro	5368	1639	1662	44.86	1726
Total Regional Hydro	15731	8280	2963	115.57	4672

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	-450	-200	0	450	0.00	8.13	-8.13		
Gwalior-Agra (D/C)	0	162	358	160	3.43	0.00	3.43		
Zerda-Kankroli	-199	-136	0	246	0.00	3.99	-3.99		
Zerda-Bhinmal	-112	-30	99	190	0.00	1.41	-1.41		
Malanpur-Auraiya	-190	-148	0	191	0.00	3.32	-3.32		
Badod-Kota/Morak	-128	-159	0	209	0.00	3.64	-3.64		
Mundra-Mohindergarh(HVDC)	414	432	919	0	17.65	0.00	17.65		
Sub Total WR	-665	-79			21.08	20.48	0.60		
Pusauli Bypass	-100	-100	0	100	0.00	2.40	-2.40		
MZP- GKP (D/C)	446	500	652	0	11.12	0.00	11.12		
Patna-Balia(D/C)	225	156	457	0	5.38	0.00	5.38		
B'Sharif-Balia (D/C)	98	130	213	0	3.40	0.00	3.40		
Barh - Balia(D/C)	242	469	517	0	8.58	0.00	8.58		
Pusauli-Balia	-150	-135	0	221	0.00	1.35	-1.35		
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Sahupuri	129	159	181	0	3.40	0.00	3.40		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-40	-34	0	46	0.00	0.92	-0.92		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	850	1145			31.89	4.67	27.22		
Total IR Exch	185	1066			52.97	25.14	27.82		

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
35.75	1.16	36.91	-2.93	-2.63	-0.82	-7.17	-4.15	4.22
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
29.01	8.22	37.23	27.22	0.60	27.82	-1.80	-7.61	-9.41

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	2.30	96.90	94.60	36.90	3.10
<----- 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				
50.40	9.03	49.56	7.33	49.96	0.18	0.13	50.32	49.84

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	410	05:18	403	18:06	0.0	0.0	0.0	0.0
Gorakhpur	400	433	21:17	414	12:28	0.0	0.0	70.2	15.3
Bareilly	400	425	21:41	401	11:06	0.0	0.0	5.7	0.0
Kanpur	400	420	21:37	403	11:05	0.0	0.0	0.0	0.0
Dadri	400	424	21:35	409	18:28	0.0	0.0	6.4	0.0
Ballabhgarh	400	429	21:27	412	11:05	0.0	0.0	47.5	0.0
Bawana	400	427	21:27	411	18:05	0.0	0.0	33.4	0.0
Bassi	400	432	21:38	407	09:24	0.0	0.0	33.7	1.0
Hissar	400	419	20:50	400	12:38	0.0	0.0	0.0	0.0
Moga	400	423	21:30	403	08:47	0.0	0.0	1.4	0.0
Abdullapur	400	425	21:29	295	01:33	0.0	0.0	7.2	0.0
Nalagarh	400	427	21:29	410	18:32	0.0	0.0	10.6	0.0
Kishenpur	400	417	02:41	397	08:46	0.0	0.0	0.0	0.0
Wagoora	400	409	03:06	378	18:27	1.0	44.2	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	504.08	1272.20	510.12	1560.04	259.16	223.70
Pong	426.72	384.05	420.14	889.22	421.37	946.20	88.18	409.40
Tehri	829.79	740.04	824.75	1100.00	818.65	982.26	75.32	111.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	80.65	81.53
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 28.10.2012 :

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 : 28.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER