

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.10.2012

Date of Reporting : 19.10.2012

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
32963	3421	36384	49.93	29282	2442	31724	50.17	740.8	72.03

* 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	54.63	8.07		62.70	44.48	44.53	0.05	107.23	1.80
Haryana	56.28	0.82		57.10	53.78	53.72	-0.06	110.82	2.08
Rajasthan	82.26	1.30	4.57	88.14	61.38	64.97	3.58	153.11	9.78
Delhi	31.85			31.85	40.44	38.12	-2.32	69.96	0.09
UP	102.69	9.13	2.40	114.22	101.92	99.74	-2.18	213.96	53.66
Uttarakhand		11.70		11.70	13.18	15.66	2.48	27.35	2.61
HP		10.35		10.35	11.77	12.69	0.92	23.04	0.31
J & K		10.19	0.00	10.19	19.31	21.49	2.17	31.68	1.70
Chandigarh				0.00	4.01	3.67	-0.34	3.67	0.00
Total	327.71	51.56	6.97	386.25	350.28	354.57	4.29	740.82	72.03

* 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	5094	150	76	373	4030	0	-84	371	8.98	
Haryana	4828	450	-105	227	4085	33	-91	306	6.45	
Rajasthan	6320	604	32	266	6317	479	127	951	20.51	
Delhi	3354	20	-172	-498	2230	0	-143	-962	-16.58	
UP	8745	2003	-218	118	9446	1930	95	1729	20.95	
Uttarakhand	1524	80	266	208	1096	0	130	184	4.29	
HP	1141	14	44	-306	779	0	80	-14	-2.88	
J&K	1754	100	76	-69	1192	0	88	-33	-0.98	
Chandigarh	203	0	-14	0	107	0	-3	0	0.34	
Total	32963	3421	-13	318	29282	2442	199	2532	41.08	

* 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	1563	1545	34.58	1441	34.43	0.15
Rihand I STPS	1000	706	1023	508	17.09	712	16.94	0.15
Rihand II STPS	1000	880	523	1044	21.01	876	21.11	-0.10
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	810	869	839	19.23	801	19.34	-0.11
Dadri II STPS	980	485	516	504	11.54	481	11.63	-0.09
Unchahar I TPS	420	402	430	436	9.58	399	9.58	0.01
Unchahar II TPS	420	404	441	432	9.64	402	9.57	0.07
Unchahar III TPS	210	202	219	222	4.82	201	4.80	0.02
ISTPP (Jhajhar)	1000	950	849	808	18.23	760	18.50	-0.26
Dadri GPS	830	805	620	608	14.81	617	15.26	-0.45
Anta GPS	419	401	259	251	6.09	254	6.21	-0.12
Auraiya GPS	663	504	302	309	7.07	295	7.74	-0.67
Sub Total (A)	10282	7984	7614	7506	173.69	7237	175.11	-1.42
B. NPC								
NAPS	440	272	305	310	6.53	272	6.53	0.00
RAPS- B	440	412	453	458	9.89	412	9.89	0.00
RAPS- C	440	430	466	463	9.93	414	10.32	-0.39
Sub Total (B)	1320	1114	1224	1231	26.34	1098	26.74	-0.39
C. NHPC								
Chamera I HPS	540	535	540	0	3.29	137	3.33	-0.04
Chamera II HPS	300	300	298	0	2.55	106	2.63	-0.08
Chamera III HPS	231	146	108	0	1.59	66	1.56	0.03
Bairasuil HPS	180	182	120	0	1.00	41	0.91	0.08
Salai-HPS	690	225	113	109	5.42	226	5.35	0.07
Tanakpur-HPS	94	73	72	74	1.89	79	1.75	0.15
Uri-HPS	480	180	304	86	4.44	185	4.42	0.03
Dhauliganga-HPS	280	288	285	6	2.55	106	2.48	0.07
Dulhasti-HPS	390	387	403	10	5.46	228	5.53	-0.07
Sewa-II HPS	120	80	85	0	0.49	21	0.48	0.02
Sub Total (C)	3305	2396	2328	285	28.68	1195	28.42	0.26
D.NJPC								
Nathpa Jhakri	1500	1605	1528	0	12.94	539	13.00	-0.06
Sub Total (D)	1500	1605	1528	0	12.94	539	13.00	-0.06
E. THDC								
Tehri HPS	1000	1050	77	0	4.32	180	4.00	0.32
Koteswar HPS	400	190	196	0	1.63	68	1.30	0.33
Sub Total (E)	1400	1240	273	0	5.95	248	5.30	0.65
F. BBMB								
Bhakra HPS	1480	367	573	357	8.99	375	8.80	0.19
Dehar HPS	990	263	498	140	6.56	273	6.31	0.25
Pong HPS	396	288	306	246	7.15	298	5.01	2.14
Sub Total (F)	2866	917	1377	743	22.70	946	20.12	2.58
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	76	48	1.03	43	0.99	0.04
KWHEP HPS(IPP)	1000	0	360	150	6.99	291	6.96	0.02
Malana Stg-II HPS	100	0	20	23	0.31	13	0.47	-0.16
Shree Cement TPS	300	0	133	271	5.70	238	6.47	-0.77
Budhil HPS(IPP)	70	0	10	10	0.41	17	0.46	-0.05
Sub Total (G)	1662	0	599	502	14.43	601	15.35	-0.92
H. Total Regional Entities (A-G)	22336	15256	14943	10267	284.74	11864	284.03	0.71

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	1260	1261	27.77	1157	
	Guru Nanak Dev TPS(Bhatinda)	440	210	325	5.66	236	
	Guru Hargobind Singh TPS(L.mbt)	920	966	970	21.20	883	
	Thermal (Total)	2620	2436	2556	54.63	2276	
	Total Hydro	1148	286	241	8.07	336	
	Total Punjab	3768	2722	2797	62.70	2613	
Haryana	Panipat TPS	1367	1007	734	22.02	918	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	189	145	3.99	166	
	RGTPP (khedar) (IPP)	1200	815	798	20.20	842	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	445	363	10.06	419	
	Thermal (Total)	4944	2456	2040	56.28	2345	
	Total Hydro	62	34	33	0.82	34	
	Total Haryana	5006	2490	2073	57.10	2379	
Rajasthan	kota TPS	1240	1057	1057	25.35	1056	
	suratgarh TPS	1500	1148	1126	26.77	1115	
	Chabra TPS	500	448	380	9.64	401	
	Dholpur GPS	330	209	138	3.49	145	
	Ramgarh GPS	111	77	78	1.98	83	
	RAPS A (NPC)	300	173	173	4.19	175	
	Barsingar (NLC)	250	104	104	2.31	96	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	365	8.54	356	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3581	3421	82.26	3428	
	Total Hydro	550	51	43	1.30	54	
	Wind power	1843	24	185	2.73	114	
	Biomass	91	25	25	0.30	13	
	Solar	128	0	0	0.24	10	
	Renewable/Others (Total)	2062	49	210	4.57	191	
	Total Rajasthan	7767	3681	3674	88.14	3672	
	UP	Anpara TPS	1630	1171	1100	27.60	1150
		Obra TPS	1382	454	498	11.10	463
		Paricha TPS	890	399	381	9.40	392
Panki TPS		210	122	126	3.00	125	
Harduaganj TPS		665	204	207	4.00	167	
Tanda TPS (NTPC)		440	399	398	9.81	409	
Roza TPS (IPP)		1200	986	604	21.32	888	
Anpara-C (IPP)		1200	456	435	10.75	448	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	231	235	5.73	239	
Thermal (Total)		8067	4422	3984	102.69	4279	
Vishnuparyag HPS (IPP)		400	183	173	4.20	175	
Other Hydro		527	246	0	4.93	205	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4951	4257	114.22	4584	
Uttarakhand		Total Hydro	1303	492	496	11.70	487
		Total Uttarakhand	1303	492	496	11.70	487
Delhi	Raighat TPS	135	58	104	2.00	83	
	Delhi Gas Turbine	282	156	157	3.88	162	
	Pragati Gas Turbine	330	301	269	7.01	292	
	Rithala GPS	108	21	20	0.43	18	
	Bawana GPS	677	227	226	5.02	209	
	Badarpur TPS (NTPC)	705	680	600	13.51	563	
	Thermal (Total)	2237	1443	1376	31.85	1327	
	Total Delhi	2237	1443	1376	31.85	1327	
HP	Baspa HPS (IPP)	330	29	96	2.15	89	
	Malana HPS (IPP)	86	10	31	0.52	22	
	Other Hydro	589	323	341	7.69	320	
	Total HP	1005	362	468	10	431	
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	16725	15570	386.25	15919	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1542	3969	80.94	3372	
Total Regional Availability(Gross)		54353	33210	29806	751.92	31155	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5962	1249	78.60	3275
State Control Area Hydro	5368	2055	1710	51.56	1974
Total Regional Hydro	15731	8017	2959	130.16	5249

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	150	100	500	0	6.51	0.00	6.51
Gwalior-Agra (D/C)	-123	640	775	123	10.10	0.00	10.10
Zerda-Kankroli	-155	10	71	203	0.00	1.32	-1.32
Zerda-Bhinmal	-68	88	175	143	0.68	0.00	0.68
Malanpur-Auraiya	-195	-45	0	204	0.00	2.31	-2.31
Badod-Kota/Morak	-145	-30	71	145	0.00	1.76	-1.76
Mundra-Mohindergarh(HVDC)	746	919	919	0	19.14	0.00	19.14
Sub Total WR	210	1682			36.43	5.39	31.04
Pusauli Bypass	-100	-300	100	300	1.40	2.60	-1.20
MZP- GKP (D/C)	540	980	1024	0	17.81	0.00	17.81
Patna-Balia(D/C)	170	448	458	0	7.70	0.00	7.70
B'Sharif-Balia (D/C)	254	587	596	0	10.01	0.00	10.01
Barh - Balia(D/C)	203	365	398	0	7.85	0.00	7.85
Pusauli-Balia	-51	91	97	117	1.76	0.00	1.76
Gaya-Fatehpur (765 Kv)	209	0	342	0	3.70	0.00	3.70
Pusauli-Sahupuri	149	150	160	0	3.23	0.00	3.23
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	1332	2287			53.46	3.57	49.90
Total IR Exch	1542	3969			89.89	8.96	80.94

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
34.35	1.57	35.93	-0.64	1.05	10.21	15.76	8.46	-8.37
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
53.96	23.43	77.39	49.90	31.04	80.94	-4.07	7.61	3.54

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	6.20	99.20	93.30	22.40	0.50
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.23	10.02	49.40	7.19	49.89	0.28	0.13	50.22	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	413	19:58	401	11:13	0.0	0.0	0.0	0.0
Gorakhpur	400	431	18:22	410	12:24	0.0	0.0	44.8	1.1
Bareilly	400	421	20:44	399	11:10	0.0	0.0	0.6	0.0
Kanpur	400	419	20:46	400	13:54	0.0	0.0	0.0	0.0
Dadri	400	421	20:46	401	11:08	0.0	0.0	0.1	0.0
Ballabhgarh	400	426	3:06	405	9:47	0.0	0.0	23.9	0.0
Bawana	400	424	3:10	407	11:04	0.0	0.0	23.1	0.0
Bassi	400	428	20:44	400	9:25	0.0	0.0	18.0	0.0
Hissar	400	415	20:44	396	11:08	0.0	0.0	0.0	0.0
Moga	400	419	2:24	399	12:15	0.0	0.0	0.0	0.0
Abdullapur	400	421	1:41	294	17:45	0.0	0.0	0.5	0.0
Nalagarh	400	424	0:58	405	11:17	0.0	0.0	10.9	0.0
Kishenpur	400	422	2:52	397	18:42	0.0	0.0	3.8	0.0
Wagoora	400	419	3:06	384	18:35	0.0	8.6	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	503.84	1258.87	510.34	1560.04	296.73	241.06
Pong	426.72	384.05	421.23	946.20	422.29	990.81	92.28	403.97
Tehri	829.79	740.04	824.76	1102.66	818.65	982.26	90.37	93.00
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	520.64	NA	522.18	NA	72.86	73.17

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.10.2012 :

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 : 18.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER