

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.10.2012

Date of Reporting : 15.10.2012

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
31629	2973	34602	50.18	30366	825	31191	50.11	735.9	59.45

* 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 *
Punjab	56.21	7.51		63.72	56.64	56.00	-0.64	119.71	1.80
Haryana	56.28	0.82		57.10	51.95	51.79	-0.16	108.90	0.06
Rajasthan	87.87	0.59	4.17	92.63	57.30	60.60	3.29	153.22	1.36
Delhi	29.35			29.35	42.54	39.23	-3.31	68.58	0.00
UP	87.80	10.39	2.40	100.59	106.02	99.91	-6.11	200.50	53.77
Uttarakhand		13.09		13.09	12.91	14.18	1.27	27.26	0.76
HP		9.23		9.23	12.55	12.50	-0.05	21.73	0.00
J & K		11.57	0.00	11.57	21.47	21.05	-0.42	32.63	1.70
Chandigarh				0.00	3.82	3.41	-0.42	3.41	0.00
Total	317.50	53.20	6.57	377.27	365.21	358.67	-6.54	735.93	59.45

* 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	5773	150	-30	838	4685	0	90	389	16.23	
Haryana	4672	0	-258	101	4377	0	-28	241	4.10	
Rajasthan	6195	0	-336	557	6330	0	354	561	16.18	
Delhi	3366	0	-49	-93	2437	0	-187	-720	-11.28	
UP	7474	2643	-884	118	9465	750	-237	1774	21.72	
Uttarakhand	1385	80	80	199	937	75	-34	86	3.35	
HP	1039	0	-102	-206	818	0	75	-32	-3.28	
J&K	1542	100	-97	-5	1198	0	-4	13	0.20	
Chandigarh	183	0	-35	15	119	0	-7	0	0.16	
Total	31629	2973	-1711	1524	30366	825	22	2313	47.39	

* 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	1543	1562	34.80	1450	34.44	0.36
Rihand I STPS	1000	935	1009	1022	22.47	936	22.38	0.09
Rihand II STPS	1000	970	1032	1038	23.35	973	23.25	0.10
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	506	847	17.83	743	17.99	-0.16
Dadri II STPS	980	485	388	651	11.05	461	11.16	-0.10
Unchahar I TPS	420	374	303	428	8.69	362	8.77	-0.08
Unchahar II TPS	420	404	355	439	9.21	384	9.26	-0.06
Unchahar III TPS	210	202	184	217	4.64	193	4.70	-0.06
ISTPP (Jhajjar)	1000	950	401	422	16.80	700	16.89	-0.09
Dadri GPS	830	804	536	610	13.53	564	13.99	-0.47
Anta GPS	419	399	241	270	6.13	255	6.18	-0.05
Auraiya GPS	663	479	303	317	7.27	303	7.72	-0.45
Sub Total (A)	10282	8246	6801	7823	175.76	7323	176.73	-0.98
B. NPC								
NAPS	440	270	305	311	6.53	272	6.48	0.05
RAPS- B	440	412	456	459	9.90	412	9.89	0.01
RAPS- C	440	430	475	472	9.99	416	10.32	-0.33
Sub Total (B)	1320	1112	1236	1242	26.42	1101	26.69	-0.27
C. NHPC								
Chamera I HPS	540	535	540	0	3.20	134	3.17	0.04
Chamera II HPS	300	300	300	0	2.99	124	3.05	-0.07
Chamera III HPS	231	231	231	0	2.12	89	2.08	0.04
Bairasuil HPS	180	182	80	0	1.18	49	1.10	0.09
Salai-HPS	690	237	252	147	5.38	224	5.67	-0.29
Tanakpur-HPS	94	82	83	82	1.92	80	1.95	-0.04
Uri-HPS	480	207	305	126	4.73	197	5.10	-0.37
Dhauliganga-HPS	280	284	40	5	1.96	82	2.16	-0.20
Dulhasi-HPS	390	380	392	30	6.24	260	6.22	0.02
Sewa-II HPS	120	80	83	0	0.63	26	0.62	0.01
Sub Total (C)	3305	2517	2306	390	30.35	1265	31.13	-0.78
D. NJPC								
Nathpa Jhakri	1500	1605	1509	0	13.75	573	13.52	0.23
Sub Total (D)	1500	1605	1509	0	13.75	573	13.52	0.23
E. THDC								
Tehri HPS	1000	1050	1053	0	6.15	256	6.00	0.15
Koteswar HPS	400	263	182	0	2.05	85	2.00	0.05
Sub Total (E)	1400	1313	1235	0	8.20	342	8.00	0.20
F. BBMB								
Bhakra HPS	1480	710	1103	573	17.20	717	17.04	0.16
Dehar HPS	990	272	495	280	6.50	271	6.52	-0.02
Pong HPS	396	219	306	120	5.52	230	5.01	0.51
Sub Total (F)	2866	1201	1904	973	29.22	1218	28.56	0.66
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	75	41	0.98	41	0.95	0.03
KWHEP HPS(IPP)	1000	0	0	220	7.47	311	7.44	0.02
Malana Stg-II HPS	100	0	22	20	0.14	6	0.45	-0.31
Shree Cement TPS	300	0	123	130	3.13	130	3.08	0.05
Budhil HPS(IPP)	70	0	0	34	0.26	11	0.47	-0.21
Sub Total (G)	1662	0	220	445	11.98	499	12.39	-0.42
H. Total Regional Entities (A-G)	22336	15994	15211	10873	295.67	12320	297.03	-1.35

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	1114	1264	28.09	1170	
	Guru Nanak Dev TPS(Bhatinda)	440	295	316	6.74	281	
	Guru Hargobind Singh TPS(L.mbt)	920	963	964	21.38	891	
	Thermal (Total)	2620	2372	2544	56.21	2342	
	Total Hydro	1148	297	256	7.51	313	
	Total Punjab	3768	2669	2800	63.72	2655	
Haryana	Panipat TPS	1367	1081	1053	25.46	1061	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	167	182	4.14	173	
	RGTPP (khedar) (IPP)	1200	869	792	19.96	832	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	287	295	6.73	280	
	Thermal (Total)	4944	2404	2322	56.28	2345	
	Total Hydro	62	31	33	0.82	34	
	Total Haryana	5006	2435	2355	57.10	2379	
Rajasthan	kota TPS	1240	962	866	22.63	943	
	suratgarh TPS	1500	1298	1280	30.20	1258	
	Chabra TPS	500	417	369	9.23	385	
	Dholpur GPS	330	138	140	3.44	143	
	Ramgarh GPS	111	77	77	1.97	82	
	RAPS A (NPC)	300	173	173	4.20	175	
	Barsingar (NLC)	250	207	210	4.85	202	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	486	486	11.34	473	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3758	3601	87.87	3661	
	Total Hydro	550	33	0	0.59	25	
	Wind power	1843	92	213	2.62	109	
	Biomass	91	30	30	0.72	30	
	Solar	128	0	0	0.24	10	
	Renewable/Others (Total)	2062	122	243	4.17	174	
	Total Rajasthan	7767	3913	3844	92.63	3859	
	UP	Anpara TPS	1630	1178	1143	24.40	1017
		Obra TPS	1382	496	473	10.70	446
Paricha TPS		890	441	431	9.10	379	
Panki TPS		210	155	120	3.00	125	
Harduaganj TPS		665	0	232	2.90	121	
Tanda TPS (NTPC)		440	296	402	9.45	394	
Roza TPS (IPP)		1200	536	549	13.11	546	
Anpara-C (IPP)		1200	445	414	9.88	412	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	225	225	5.26	219	
Thermal (Total)		8067	3772	3989	87.80	3658	
Vishnuparyag HPS (IPP)		400	198	192	4.59	191	
Other Hydro		527	261	0	5.79	241	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4331	4281	100.59	4000	
Uttarakhand		Total Hydro	1303	520	578	13.09	545
	Total Uttarakhand	1303	520	578	13.09	545	
Delhi	Raighat TPS	135	102	89	2.42	101	
	Delhi Gas Turbine	282	76	75	1.94	81	
	Pragati Gas Turbine	330	297	299	7.46	311	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	221	229	5.59	233	
	Badarpur TPS (NTPC)	705	610	425	11.94	498	
	Thermal (Total)	2237	1306	1117	29.35	1223	
	Total Delhi	2237	1306	1117	29.35	1223	
HP	Baspa HPS (IPP)	330	28	104	1.87	78	
	Malana HPS (IPP)	86	18	33	0.48	20	
	Other Hydro	589	327	258	6.88	287	
	Total HP	1005	373	395	9	385	
J & K	Baglihar HPS (IPP)	450	296	288	7.03	293	
	Other Hydro	323	178	201	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	474	489	11.57	482	
Total State Control Area Generation		32017	16021	15859	377.27	15528	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2499	4827	88.16	3673	
Total Regional Availability(Gross)		54353	33731	31559	761.10	31521	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7051	1644	90.12	3755
State Control Area Hydro	5368	1989	1751	53.20	2025
Total Regional Hydro	15731	9040	3395	143.31	5780

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	250	500	500	0	9.07	0.00	9.07	0.00	9.07
Gwalior-Agra (D/C)	357	909	909	0	14.46	0.00	14.46	0.00	14.46
Zerda-Kankroli	-42	197	197	72	0.58	0.00	0.58	0.00	0.58
Zerda-Bhinmal	20	69	312	43	2.39	0.00	2.39	0.00	2.39
Malanpur-Auraiya	-140	-44	0	140	0.00	1.73	-1.73	0.00	-1.73
Badod-Kota/Morak	-38	20	40	52	0.00	0.16	-0.16	0.00	-0.16
Mundra-Mohindergarh(HVDC)	616	605	621	0	14.91	0.00	14.91	0.00	14.91
Sub Total WR	1023	2256			41.42	1.89	39.53		
Pusauli Bypass	0	-100	100	0	0.00	1.52	-1.52	0.00	-1.52
MZP- GKP (D/C)	538	1018	1018	0	19.29	0.00	19.29	0.00	19.29
Patna-Balia(D/C)	0	327	327	0	3.07	0.00	3.07	0.00	3.07
B'Sharif-Balia (D/C)	318	512	567	0	10.76	0.00	10.76	0.00	10.76
Barh - Balia(D/C)	293	391	485	0	8.88	0.00	8.88	0.00	8.88
Pusauli-Balia	42	9	61	0	0.14	0.00	0.14	0.00	0.14
Gaya-Fatehpur (765 Kv)	182	320	320	0	5.78	0.00	5.78	0.00	5.78
Pusauli-Sahupuri	145	130	160	0	3.21	0.00	3.21	0.00	3.21
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-42	-36	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	1476	2571			51.12	2.49	48.63		
Total IR Exch	2499	4827			92.54	4.38	88.16		

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
30.03	2.13	32.16	3.12	3.98	10.82	17.61	8.53	-8.49
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
54.63	26.14	80.76	48.63	39.53	88.16	-5.99	13.39	7.40

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	1.80	95.70	93.90	40.90	4.30
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.46	18.02	49.62	11.03	49.98	0.18	0.13	50.39	49.86

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	20:12	401	1:20	0.0	0.0	0.0	0.0
Gorakhpur	400	422	0:00	422	0:00	0.0	0.0	100.0	0.0
Bareilly	400	423	20:50	400	11:08	0.0	0.0	2.2	0.0
Kanpur	400	421	20:44	402	8:38	0.0	0.0	0.9	0.0
Dadri	400	419	20:15	406	10:17	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	20:48	411	8:44	0.0	0.0	11.5	0.0
Bawana	400	423	20:54	411	10:18	0.0	0.0	7.7	0.0
Bassi	400	428	18:01	403	8:41	0.0	0.0	41.4	0.0
Hissar	400	413	20:50	399	8:44	0.0	0.0	0.0	0.0
Moga	400	416	15:09	404	8:51	0.0	0.0	0.0	0.0
Abdullapur	400	422	20:54	400	10:05	0.1	0.1	2.6	0.0
Nalagarh	400	424	3:43	412	10:18	0.0	0.0	24.6	0.0
Kishenpur	400	422	3:34	392	18:56	0.0	0.0	5.3	0.0
Wagoora	400	420	2:47	383	19:06	0.0	8.0	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	503.81	1258.87	510.35	1560.04	333.80	480.59
Pong	426.72	384.05	421.68	961.02	422.60	1005.78	108.91	311.09
Tehri	829.79	740.04	824.70	1090.00	818.65	982.26	98.54	133.00
Koteshwar	612.50	598.50	608.90	3.98	NA	NA	133.00	136.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	109.55	86.68
Rihand	268.22	252.98	263.96	542.00	265.48	648.00	NA	NA
RPS	352.80	343.81	352.74	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.06	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.44	NA	522.36	NA	109.19	33.90

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.10.2012 :

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 : 14.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER