

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.10.2012

Date of Reporting : 10.10.2012

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
34171	3601	37771	50.08	30354	2568	32921	49.98	773.2	82.18

* 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	51.14	12.35		63.49	68.29	67.24	-1.05	130.73	4.41
Haryana	63.50	0.68		64.18	52.84	51.94	-0.90	116.12	7.64
Rajasthan	90.73	0.07	1.38	92.19	64.49	64.33	-0.16	156.52	2.23
Delhi	28.61			28.61	49.31	44.86	-4.46	73.46	0.08
UP	91.37	10.59	2.40	104.36	96.08	102.07	5.99	206.44	65.35
Uttarakhand		15.03		15.03	13.64	14.77	1.13	29.80	0.64
HP		13.76		13.76	10.20	10.50	0.30	24.26	0.13
J & K		11.68	0.00	11.68	16.75	20.05	3.29	31.73	1.70
Chandigarh				0.00	4.61	4.18	-0.44	4.18	0.00
Total	325.36	64.16	3.78	393.30	376.22	379.93	3.71	773.23	82.18

* 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	6372	276	-121	797	4958	0	80	772	18.02	
Haryana	5040	478	-145	337	4184	439	-43	272	7.43	
Rajasthan	6612	4	68	1069	6574	9	247	826	22.05	
Delhi	3588	0	-124	-255	2533	0	-82	-768	-10.26	
UP	8026	2663	-266	93	8835	2120	-131	1761	14.21	
Uttarakhand	1555	80	196	129	1122	0	-44	192	3.86	
HP	1157	0	12	-464	880	0	22	-11	-4.75	
J&K	1601	100	251	-136	1141	0	130	-111	-2.82	
Chandigarh	220	0	-13	-10	127	0	-13	-15	0.06	
Total	34171	3601	-142	1561	30354	2568	166	2918	47.80	

* 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	1561	1563	34.83	1451	34.44	0.39
Rihand I STPS	1000	915	1001	999	22.03	918	21.96	0.07
Rihand II STPS	1000	970	1037	1040	23.45	977	23.28	0.17
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	796	854	623	16.92	705	16.76	0.16
Dadri II STPS	980	480	513	508	11.53	480	11.49	0.04
Unchahar I TPS	420	404	439	438	9.68	403	9.70	-0.02
Unchahar II TPS	420	401	440	438	9.63	401	9.62	0.01
Unchahar III TPS	210	201	220	218	4.83	201	4.82	0.00
ISTPP (Jhajjar)	1000	950	782	751	17.06	711	17.89	-0.84
Dadri GPS	830	801	627	533	14.00	583	14.08	-0.08
Anta GPS	419	395	272	218	5.77	240	5.55	0.22
Auraiya GPS	663	424	302	254	6.76	282	6.63	0.13
Sub Total (A)	10282	8172	8048	7583	176.48	7353	176.23	0.25
B. NPC								
NAPS	440	266	308	312	6.47	269	6.38	0.08
RAPS- B	440	412	452	454	9.80	409	9.89	-0.08
RAPS- C	440	430	467	465	9.97	415	10.32	-0.35
Sub Total (B)	1320	1108	1227	1231	26.24	1093	26.59	-0.35
C. NHPC								
Chamera I HPS	540	535	360	0	3.72	155	3.65	0.07
Chamera II HPS	300	300	255	0	2.90	121	3.00	-0.10
Chamera III HPS	231	231	156	0	2.25	94	2.25	0.00
Bairasuil HPS	180	182	100	0	1.33	55	1.35	-0.02
Salai-HPS	690	261	251	355	6.11	255	6.18	-0.08
Tanakpur-HPS	94	94	95	95	2.29	95	2.24	0.05
Uri-HPS	480	258	344	222	6.18	258	6.24	-0.06
Dhauliganga-HPS	280	280	279	5	2.86	119	2.79	0.06
Dulhasti-HPS	390	258	276	267	6.19	258	6.24	-0.05
Sewa-II HPS	120	80	79	0	0.66	27	0.65	0.01
Sub Total (C)	3305	2478	2195	944	34.48	1437	34.59	-0.12
D.NJPC								
Nathpa Jhakri	1500	1605	1349	0	14.74	614	14.46	0.28
Sub Total (D)	1500	1605	1349	0	14.74	614	14.46	0.28
E. THDC								
Tehri HPS	1000	1050	703	0	7.35	306	7.00	0.35
Koteswar HPS	400	280	283	0	1.33	56	2.20	-0.87
Sub Total (E)	1400	1330	986	0	8.68	362	9.20	-0.52
F. BBMB								
Bhakra HPS	1480	845	1100	570	20.77	865	20.27	0.50
Dehar HPS	990	325	495	290	8.25	344	7.80	0.45
Pong HPS	396	253	306	186	6.31	263	5.01	1.30
Sub Total (F)	2866	1422	1901	1046	35.33	1472	33.08	2.25
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	50	51	1.17	49	1.25	-0.07
KWHEP HPS(IPP)	1000	0	500	400	7.75	323	7.80	-0.05
Malana Stg-II HPS	100	0	29	29	0.64	27	0.59	0.05
Shree Cement TPS	300	0	144	286	5.93	247	6.52	-0.59
Budhil HPS(IPP)	70	0	15	20	0.48	20	0.49	-0.01
Sub Total (G)	1662	0	738	786	15.97	665	16.66	-0.68
H. Total Regional Entities (A-G)	22336	16116	16444	11590	311.92	12997	310.81	1.11

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	1249	1048	24.57	1024	
	Guru Nanak Dev TPS(Bhatinda)	440	314	232	6.06	252	
	Guru Hargobind Singh TPS(L.mbt)	920	968	742	20.52	855	
	Thermal (Total)	2620	2531	2022	51.14	2131	
	Total Hydro	1148	513	343	12.35	514	
	Total Punjab	3768	3044	2365	63.49	2645	
Haryana	Panipat TPS	1367	1076	991	25.68	1070	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	403	410	9.83	410	
	RGTPP (khedar) (IPP)	1200	802	390	17.10	712	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	477	414	10.90	454	
	Thermal (Total)	4944	2758	2205	63.50	2646	
	Total Hydro	62	25	26	0.68	29	
	Total Haryana	5006	2783	2231	64.18	2674	
Rajasthan	kota TPS	1240	1162	1156	27.25	1135	
	suratgarh TPS	1500	1346	1170	31.50	1313	
	Chabra TPS	500	448	367	9.22	384	
	Dholpur GPS	330	144	146	3.39	141	
	Ramgarh GPS	111	75	77	2.00	83	
	RAPS A (NPC)	300	177	177	4.06	169	
	Barsingar (NLC)	250	207	205	4.80	200	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	365	8.51	355	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3924	3663	90.73	3781	
	Total Hydro	550	0	0	0.07	3	
	Wind power	1843	23	97	0.67	28	
	Biomass	91	27	27	0.64	27	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	50	124	1.38	58	
	Total Rajasthan	7767	3974	3787	92.19	3841	
	UP	Anpara TPS	1630	1092	1049	22.60	942
		Obra TPS	1382	398	361	8.60	358
		Paricha TPS	890	558	352	10.40	433
Panki TPS		210	145	160	3.30	138	
Harduaganj TPS		665	0	0	0.00	0	
Tanda TPS (NTPC)		440	403	401	9.75	406	
Roza TPS (IPP)		1200	828	810	19.93	830	
Anpara-C (IPP)		1200	450	360	10.26	428	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	266	278	6.54	272	
Thermal (Total)		8067	4140	3771	91.37	3807	
Vishnuparyag HPS (IPP)		400	277	233	5.49	229	
Other Hydro		527	240	0	5.10	212	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4757	4104	104.36	4120	
Uttarakhand		Total Hydro	1303	670	648	15.03	626
	Total Uttarakhand	1303	670	648	15.03	626	
Delhi	Raighat TPS	135	53	49	1.16	48	
	Delhi Gas Turbine	282	74	74	1.90	79	
	Pragati Gas Turbine	330	298	270	7.15	298	
	Rithala GPS	108	21	0	0.27	11	
	Bawana GPS	677	227	226	5.31	221	
	Badarpur TPS (NTPC)	705	570	555	12.82	534	
	Thermal (Total)	2237	1243	1174	28.61	1192	
	Total Delhi	2237	1243	1174	28.61	1192	
HP	Baspa HPS (IPP)	330	55	64	2.60	108	
	Malana HPS (IPP)	86	26	26	0.60	25	
	Other Hydro	589	479	438	10.56	440	
	Total HP	1005	560	528	14	573	
J & K	Baglihar HPS (IPP)	450	290	288	6.95	290	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	475	498	11.68	487	
Total State Control Area Generation		32017	17506	15335	393.30	16159	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2121	4878	80.73	3364	
Total Regional Availability(Gross)		54353	36071	31803	785.96	32519	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7010	2470	102.79	4283
State Control Area Hydro	5368	2483	2043	64.16	2445
Total Regional Hydro	15731	9493	4513	166.95	6728

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	200	400	500	0	7.85	0.00	7.85		
Gwalior-Agra (D/C)	304	825	847	0	14.08	0.00	14.08		
Zerda-Kankroli	-74	101	145	180	0.00	0.92	-0.92		
Zerda-Bhinmal	-3	179	257	120	1.17	0.00	1.17		
Malanpur-Auraiya	-98	-47	0	115	0.00	1.64	-1.64		
Badod-Kota/Morak	-25	61	66	93	0.00	0.39	-0.39		
Mundra-Mohindergarh(HVDC)	249	243	247	0	5.88	0.00	5.88		
Sub Total WR	553	1762			28.98	2.95	26.03		
Pusauli Bypass	200	50	200	0	2.89	0.00	2.89		
MZP- GKP (D/C)	500	1079	1100	0	19.95	0.00	19.95		
Patna-Balia(D/C)	341	369	544	0	6.38	0.00	6.38		
B'Sharif-Balia (D/C)	328	535	647	0	11.21	0.00	11.21		
Barh - Balia(D/C)	0	441	450	0	5.04	0.00	5.04		
Pusauli-Balia	-40	182	182	48	0.94	0.00	0.94		
Gaya-Fatehpur (765 Kv)	123	322	398	0	5.84	0.00	5.84		
Pusauli-Sahupuri	158	174	185	0	3.42	0.00	3.42		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-42	-36	0	48	0.00	0.97	-0.97		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1568	3116			55.67	0.97	54.70		
Total IR Exch	2121	4878			84.65	3.92	80.73		

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
39.29	1.91	41.20	4.76	9.54	13.29	3.93	5.04	-5.02
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
64.29	13.04	77.33	54.70	26.03	80.73	-9.59	12.99	3.40

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	1.60	11.40	96.40	86.60	23.00	2.00

<----- 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				
50.37	12.03	49.40	5.47	49.89	0.37	0.16	50.33	49.71

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	414	0:00	405	15:20	0.0	0.0	0.0	0.0
Gorakhpur	400	431	20:57	409	2:28	0.0	0.0	32.5	2.7
Bareilly	400	421	21:31	360	14:36	0.1	0.1	0.1	0.0
Kanpur	400	421	21:31	401	9:12	0.0	0.0	0.0	0.0
Dadri	400	417	4:34	401	10:20	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	0:01	406	14:29	0.0	0.0	9.0	0.0
Bawana	400	421	4:33	405	14:30	0.0	0.0	1.3	0.0
Bassi	400	430	21:30	406	6:31	0.0	0.0	43.8	0.0
Hissar	400	412	4:32	396	11:14	0.0	0.0	0.0	0.0
Moga	400	416	1:58	400	11:07	0.0	0.0	0.0	0.0
Abdullapur	400	419	4:32	387	14:01	0.1	0.1	0.0	0.0
Nalagarh	400	422	4:02	403	11:11	0.0	0.0	3.4	0.0
Kishenpur	400	424	1:58	401	19:04	0.0	0.0	7.5	0.0
Wagoora	400	424	1:58	389	19:07	0.0	0.1	10.4	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
Koteswar	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 09.10.2012 :

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 : 09.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER