

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.10.2012

Date of Reporting : 11.10.2012

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
34156	3466	37622	50.14	31390	2546	33936	50.15	773.0	79.01

* 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	54.94	11.64		66.58	62.63	63.35	0.73	129.93	4.08
Haryana	62.98	0.72		63.70	46.16	47.18	1.02	110.88	9.14
Rajasthan	90.01	0.09	1.48	91.59	62.57	63.61	1.04	155.19	2.50
Delhi	30.34			30.34	46.19	43.89	-2.29	74.23	0.15
UP	98.42	10.35	2.40	111.17	100.27	101.20	0.93	212.37	61.30
Uttarakhand		14.75		14.75	13.54	15.39	1.85	30.14	0.00
HP		13.05		13.05	11.73	11.43	-0.29	24.48	0.14
J & K		9.87	0.00	9.87	18.86	21.76	2.90	31.63	1.70
Chandigarh				0.00	4.17	4.20	0.02	4.20	0.00
Total	336.69	60.46	3.88	401.04	366.11	372.01	5.91	773.05	79.01

* 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	6266	276	-12	764	5042	0	-39	754	18.13	
Haryana	4701	733	53	385	4406	84	20	135	5.10	
Rajasthan	6452	0	-234	1198	6135	142	32	802	20.36	
Delhi	3665	0	-126	-286	2439	0	-182	-746	-11.49	
UP	8610	2357	-179	84	9969	2320	217	2255	20.70	
Uttarakhand	1477	0	176	57	1129	0	48	40	1.13	
HP	1251	0	-75	-620	860	0	61	-44	-4.57	
J&K	1515	100	19	-126	1281	0	154	-102	-2.58	
Chandigarh	219	0	-13	-31	129	0	5	-15	-0.15	
Total	34156	3466	-390	1424	31390	2546	315	3080	46.63	

* 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	1568	34.53	1439	34.44	0.09
Rihand I STPS	1000	915	1006	1008	22.10	921	21.96	0.14
Rihand II STPS	1000	970	1045	1045	23.42	976	23.28	0.14
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	803	840	763	17.56	732	17.67	-0.11
Dadri II STPS	980	482	503	509	11.44	477	11.56	-0.11
Unchahar I TPS	420	404	429	429	9.55	398	9.69	-0.14
Unchahar II TPS	420	402	406	435	9.53	397	9.63	-0.10
Unchahar III TPS	210	201	200	215	4.79	200	4.81	-0.03
ISTPP (Jhajhar)	1000	950	813	877	19.73	822	20.24	-0.51
Dadri GPS	830	803	582	571	13.98	582	14.06	-0.08
Anta GPS	419	395	248	239	6.05	252	6.10	-0.06
Auraiya GPS	663	435	362	303	7.56	315	7.48	0.08
Sub Total (A)	10282	8195	7995	7962	180.23	7510	180.93	-0.69
B. NPC								
NAPS	440	266	305	306	6.42	267	6.38	0.03
RAPS- B	440	412	449	456	9.83	410	9.89	-0.06
RAPS- C	440	430	468	467	10.03	418	10.32	-0.29
Sub Total (B)	1320	1108	1222	1229	26.27	1095	26.59	-0.32
C. NHPC								
Chamera I HPS	540	535	534	0	3.63	151	3.64	-0.01
Chamera II HPS	300	300	248	0	2.92	122	2.97	-0.05
Chamera III HPS	231	231	233	0	1.76	73	1.83	-0.07
Bairasuil HPS	180	182	182	0	1.06	44	1.26	-0.20
Salai-HPS	690	243	372	228	5.71	238	5.93	-0.22
Tanakpur-HPS	94	90	95	93	2.21	92	2.16	0.05
Uri-HPS	480	247	304	205	5.61	234	5.65	-0.04
Dhauliganga-HPS	280	280	208	5	2.60	108	2.59	0.01
Dulhasti-HPS	390	258	277	264	6.13	255	6.16	-0.03
Sewa-II HPS	120	80	81	0	0.57	24	0.59	-0.02
Sub Total (C)	3305	2445	2534	795	32.20	1342	32.78	-0.58
D.NJPC								
Nathpa Jhakri	1500	1605	1260	0	12.86	536	13.40	-0.54
Sub Total (D)	1500	1605	1260	0	12.86	536	13.40	-0.54
E. THDC								
Tehri HPS	1000	1050	920	0	7.24	302	7.00	0.24
Koteshwar HPS	400	280	283	0	2.24	93	2.20	0.04
Sub Total (E)	1400	1330	1203	0	9.48	395	9.20	0.28
F. BBMB								
Bhakra HPS	1480	822	1102	570	19.95	831	19.72	0.23
Dehar HPS	990	309	495	300	7.76	323	7.42	0.35
Pong HPS	396	221	306	186	5.68	237	5.01	0.67
Sub Total (F)	2866	1352	1903	1056	33.39	1391	32.14	1.25
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	49	54	1.15	48	1.25	-0.09
KWHEP HPS(IPP)	1000	0	250	450	7.20	300	7.20	0.00
Malana Stg-II HPS	100	0	29	29	0.64	27	0.49	0.15
Shree Cement TPS	300	0	123	125	3.38	141	4.25	-0.87
Budhil HPS(IPP)	70	0	10	17	0.48	20	0.55	-0.07
Sub Total (G)	1662	0	461	675	12.85	535	13.73	-0.88
H. Total Regional Entities (A-G)	22336	16035	16578	11717	307.28	12803	308.77	-1.49

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	1268	1260	27.55	1148	
	Guru Nanak Dev TPS(Bhatinda)	440	308	306	6.10	254	
	Guru Hargobind Singh TPS(L.mbt)	920	961	970	21.28	887	
	Thermal (Total)	2620	2537	2536	54.94	2289	
	Total Hydro	1148	660	341	11.64	485	
	Total Punjab	3768	3197	2877	66.58	2774	
Haryana	Panipat TPS	1367	1149	1161	28.01	1167	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	399	402	9.58	399	
	RGTPP (kheadar) (IPP)	1200	459	766	15.80	658	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	446	358	9.58	399	
	Thermal (Total)	4944	2453	2687	62.98	2624	
	Total Hydro	62	32	27	0.72	30	
	Total Haryana	5006	2485	2714	63.70	2654	
Rajasthan	kota TPS	1240	1148	952	25.67	1070	
	suratgarh TPS	1500	1343	1356	31.71	1321	
	Chabra TPS	500	412	372	9.47	394	
	Dholpur GPS	330	204	149	3.63	151	
	Ramgarh GPS	111	75	77	2.00	84	
	RAPS A (NPC)	300	177	177	4.18	174	
	Barsingar (NLC)	250	207	207	4.87	203	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	353	353	8.49	354	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3919	3643	90.01	3750	
	Total Hydro	550	0	0	0.09	4	
	Wind power	1843	16	11	0.44	18	
	Biomass	91	30	30	0.72	30	
	Solar	128	0	0	0.24	10	
	Renewable/Others (Total)	2062	46	41	1.48	62	
	Total Rajasthan	7767	3965	3684	91.59	3816	
	UP	Anpara TPS	1630	1004	1015	23.40	975
		Obra TPS	1382	491	361	11.00	458
		Paricha TPS	890	572	555	12.00	500
Panki TPS		210	117	122	2.90	121	
Harduaganj TPS		665	226	0	2.90	121	
Tanda TPS (NTPC)		440	401	401	9.77	407	
Roza TPS (IPP)		1200	828	824	19.82	826	
Anpara-C (IPP)		1200	456	455	10.55	439	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	282	266	6.09	254	
Thermal (Total)		8067	4377	3999	98.42	4101	
Vishnuparyag HPS (IPP)		400	218	223	5.23	218	
Other Hydro		527	221	0	5.11	213	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4916	4322	111.17	4414	
Uttarakhand		Total Hydro	1303	634	616	14.75	615
		Total Uttarakhand	1303	634	616	14.75	615
Delhi	Raighat TPS	135	106	53	1.97	82	
	Delhi Gas Turbine	282	75	74	1.92	80	
	Pragati Gas Turbine	330	297	296	6.95	290	
	Rithala GPS	108	20	21	0.51	21	
	Bawana GPS	677	290	228	5.81	242	
	Badarpur TPS (NTPC)	705	630	580	13.18	549	
	Thermal (Total)	2237	1418	1252	30.34	1264	
	Total Delhi	2237	1418	1252	30.34	1264	
HP	Baspa HPS (IPP)	330	123	76	2.37	99	
	Malana HPS (IPP)	86	26	26	0.57	24	
	Other Hydro	589	456	402	10.11	421	
	Total HP	1005	605	504	13	544	
J & K	Baglihar HPS (IPP)	450	296	292	6.88	287	
	Other Hydro	323	102	210	2.99	125	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	398	502	9.87	411	
Total State Control Area Generation		32017	17618	16471	401.04	16492	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1982	4183	78.79	3283	
Total Regional Availability(Gross)		54353	36178	32371	787.11	32578	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7228	2384	96.92	4038
State Control Area Hydro	5368	2550	1990	60.46	2301
Total Regional Hydro	15731	9778	4374	157.38	6339

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	200	100	200	0	3.66	0.00	3.66
Gwalior-Agra (D/C)	246	737	780	0	13.22	0.00	13.22
Zerda-Kankroli	-130	77	108	211	0.00	1.33	-1.33
Zerda-Bhinmal	-52	165	224	135	0.82	0.00	0.82
Malanpur-Auraiya	-156	-32	0	164	0.00	1.85	-1.85
Badod-Kota/Morak	-29	10	29	85	0.00	0.62	-0.62
Mundra-Mohindergarh(HVDC)	310	307	396	0	7.61	0.00	7.61
Sub Total WR	389	1364			25.31	3.80	21.51
Pusauli Bypass	50	200	200	0	2.46	0.00	2.46
MZP- GKP (D/C)	632	954	1016	0	21.11	0.00	21.11
Patna-Balia(D/C)	203	334	334	0	6.06	0.00	6.06
B'Sharif-Balia (D/C)	196	523	702	0	11.62	0.00	11.62
Barh - Balia(D/C)	246	401	403	0	7.22	0.00	7.22
Pusauli-Balia	-68	72	232	137	1.27	0.00	1.27
Gaya-Fatehpur (765 Kv)	202	193	296	0	5.02	0.00	5.02
Pusauli-Sahupuri	174	178	180	0	3.49	0.00	3.49
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	1593	2819			58.25	0.97	57.28
Total IR Exch	1982	4183			83.56	4.77	78.79

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
30.70	1.73	32.42	5.39	8.16	14.93	4.78	6.13	-6.08
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
58.87	11.06	69.93	57.28	21.51	78.79	-1.59	10.45	8.87

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	2.50	97.00	94.50	39.70	3.00

<----- 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				
50.34	17.02	49.55	1.19	49.96	0.13	0.19	50.32	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	412	5:11	405	10:59	0.0	0.0	0.0	0.0
Gorakhpur	400	428	17:16	409	12:34	0.0	0.0	35.4	0.0
Bareilly	400	420	21:31	397	1:18	0.0	0.0	0.0	0.0
Kanpur	400	419	17:01	404	11:21	0.0	0.0	0.0	0.0
Dadri	400	420	3:07	401	11:04	0.0	0.0	0.0	0.0
Ballabhgarh	400	426	3:11	406	11:04	0.0	0.0	14.1	0.0
Bawana	400	423	3:08	405	11:05	0.0	0.0	2.2	0.0
Bassi	400	432	3:05	405	5:48	0.0	0.0	39.5	1.1
Hissar	400	413	3:04	397	11:36	0.0	0.0	0.0	0.0
Moga	400	419	3:05	401	18:36	0.0	0.0	0.0	0.0
Abdullapur	400	421	3:08	294	5:14	0.0	0.0	0.6	0.0
Nalagarh	400	426	3:08	407	10:43	0.0	0.0	13.0	0.0
Kishenpur	400	423	3:02	400	19:05	0.0	0.0	9.2	0.0
Wagoora	400	424	17:19	384	19:06	0.0	1.2	5.5	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
Koteshwar	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 10.10.2012 :

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 : 10.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER