

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.10.2012

Date of Reporting : 13.10.2012

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
34358	2564	36921	50.21	31542	1965	33507	50.15	774.4	62.24

* 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	55.82	12.52		68.33	56.37	56.99	0.62	125.32	4.53
Haryana	60.03	0.82		60.84	57.46	57.08	-0.37	117.93	0.11
Rajasthan	90.81	0.40	12.74	103.95	57.29	52.50	-4.78	156.46	0.94
Delhi	30.77			30.77	46.28	43.16	-3.13	73.92	0.01
UP	98.77	10.45	2.40	111.61	101.45	102.33	0.87	213.94	54.23
Uttarakhand		14.26		14.26	13.15	15.34	2.19	29.60	0.74
HP		11.65		11.65	11.47	11.29	-0.19	22.93	0.00
J & K		11.56	0.00	11.56	19.37	18.77	-0.61	30.32	1.70
Chandigarh				0.00	4.37	4.00	-0.36	4.00	0.00
Total	336.19	61.64	15.14	412.97	367.21	361.45	-5.76	774.42	62.24

* 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	5863	240	33	395	4990	0	22	387	9.34	
Haryana	5253	47	61	293	4691	0	-93	348	7.75	
Rajasthan	6496	0	-475	815	6417	0	-170	738	16.24	
Delhi	3783	0	-28	-270	2447	0	-137	-451	-9.97	
UP	8585	2083	-309	118	10117	1965	513	1209	19.67	
Uttarakhand	1512	80	238	124	1047	0	-16	162	3.60	
HP	1120	14	-170	-226	786	0	29	-20	-4.64	
J&K	1531	100	-24	-111	927	0	-211	-86	-2.22	
Chandigarh	215	0	-17	-10	120	0	-13	0	0.28	
Total	34358	2564	-690	1128	31542	1965	-76	2286	40.05	

* 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	1411	1551	1533	34.50	1438	33.87	0.63
Rihand I STPS	1000	930	1003	1020	22.41	934	22.32	0.10
Rihand II STPS	1000	970	1039	1039	23.47	978	23.28	0.19
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	809	846	846	18.07	753	18.19	-0.12
Dadri II STPS	980	485	1345	1251	12.39	516	10.93	1.47
Unchahar I TPS	420	405	440	386	9.53	397	9.67	-0.13
Unchahar II TPS	420	403	434	388	9.50	396	9.58	-0.08
Unchahar III TPS	210	202	216	189	4.74	197	4.79	-0.05
ISTPP (Jhajjar)	1000	950	706	715	16.44	685	16.37	0.07
Dadri GPS	830	804	588	598	13.58	566	14.15	-0.57
Anta GPS	419	395	245	240	5.95	248	5.99	-0.04
Auraiya GPS	663	479	309	320	7.28	303	7.69	-0.41
Sub Total (A)	10282	8241	8722	8525	177.87	7411	176.83	1.05
B. NPC								
NAPS	440	268	301	311	6.46	269	6.43	0.03
RAPS- B	440	411	455	457	9.90	412	9.86	0.03
RAPS- C	440	430	468	469	10.03	418	10.32	-0.29
Sub Total (B)	1320	1109	1224	1237	26.38	1099	26.62	-0.23
C. NHPC								
Chamera I HPS	540	535	540	0	3.28	137	3.51	-0.23
Chamera II HPS	300	300	271	0	2.88	120	2.89	-0.01
Chamera III HPS	231	231	233	0	1.87	78	1.85	0.02
Bairasuil HPS	180	182	182	0	1.17	49	1.16	0.02
Salai-HPS	690	243	321	160	5.47	228	5.82	-0.35
Tanakpur-HPS	94	86	93	87	2.07	86	2.06	0.01
Uri-HPS	480	226	306	209	5.37	224	5.35	0.02
Dhauliganga-HPS	280	280	269	5	2.87	120	2.76	0.10
Duihasti-HPS	390	387	191	137	6.70	279	6.80	-0.10
Sewa-II HPS	120	80	81	0	0.64	27	0.63	0.00
Sub Total (C)	3305	2549	2487	598	32.32	1347	32.82	-0.51
D.NJPC								
Nathpa Jhakri	1500	1605	1435	0	13.45	561	13.20	0.25
Sub Total (D)	1500	1605	1435	0	13.45	561	13.20	0.25
E. THDC								
Tehri HPS	1000	1050	984	0	6.20	258	6.00	0.20
Koteswar HPS	400	285	286	0	2.03	85	2.00	0.03
Sub Total (E)	1400	1335	1270	0	8.23	343	8.00	0.23
F. BBMB								
Bhakra HPS	1480	732	943	569	17.87	745	17.56	0.31
Dehar HPS	990	308	495	280	7.55	315	7.38	0.17
Pong HPS	396	216	306	186	5.34	223	5.01	0.33
Sub Total (F)	2866	1255	1744	1035	30.76	1282	29.95	0.81
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	78	54	1.07	45	1.03	0.04
KWHEP HPS(IPP)	1000	0	400	360	7.28	303	7.27	0.00
Malana Stg-II HPS	100	0	24	24	0.52	22	0.51	0.01
Shree Cement TPS	300	0	127	126	3.08	128	3.08	0.00
Budhil HPS(IPP)	70	0	59	59	0.61	25	0.61	0.00
Sub Total (G)	1662	0	688	623	12.56	523	12.50	0.05
H. Total Regional Entities (A-G)	22336	16094	17570	12018	301.57	12565	299.92	1.65

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	1259	1259	28.12	1172	
	Guru Nanak Dev TPS(Bhatinda)	440	326	219	6.47	270	
	Guru Hargobind Singh TPS(L.mbt)	920	959	965	21.23	885	
	Thermal (Total)	2620	2544	2443	55.82	2326	
	Total Hydro	1148	564	444	12.52	522	
	Total Punjab	3768	3108	2887	68.33	2847	
Haryana	Panipat TPS	1367	1033	1042	25.35	1056	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	192	283	6.22	259	
	RGTPP (kheadar) (IPP)	1200	872	867	20.07	836	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	353	299	8.38	349	
	Thermal (Total)	4944	2450	2491	60.03	2501	
	Total Hydro	62	33	31	0.82	34	
	Total Haryana	5006	2483	2522	60.84	2535	
Rajasthan	kota TPS	1240	1061	1159	27.00	1125	
	suratgarh TPS	1500	1169	1345	30.18	1258	
	Chabra TPS	500	372	376	9.80	408	
	Dholpur GPS	330	192	139	3.52	146	
	Ramgarh GPS	111	76	77	1.86	77	
	RAPS A (NPC)	300	175	177	4.21	175	
	Barsingar (NLC)	250	207	207	4.80	200	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	478	365	9.45	394	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3730	3845	90.81	3784	
	Total Hydro	550	0	0	0.40	17	
	Wind power	1843	385	290	11.46	477	
	Biomass	91	27	27	0.65	27	
	Solar	128	0	0	0.24	10	
	Renewable/Others (Total)	2062	412	317	12.74	531	
	Total Rajasthan	7767	4142	4162	103.95	4331	
	UP	Anpara TPS	1630	1150	1005	24.40	1017
		Obra TPS	1382	480	500	11.80	492
		Paricha TPS	890	400	446	10.20	425
Panki TPS		210	135	140	3.10	129	
Harduaganj TPS		665	181	193	4.60	192	
Tanda TPS (NTPC)		440	397	402	9.78	408	
Roza TPS (IPP)		1200	810	810	19.86	827	
Anpara-C (IPP)		1200	448	436	10.65	444	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	185	180	4.38	182	
Thermal (Total)		8067	4186	4112	98.77	4115	
Vishnuparyag HPS (IPP)		400	217	204	4.89	204	
Other Hydro		527	261	0	5.56	231	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4764	4416	111.61	4447	
Uttarakhand		Total Hydro	1303	577	591	14.26	594
	Total Uttarakhand	1303	577	591	14.26	594	
Delhi	Raighat TPS	135	107	108	2.47	103	
	Delhi Gas Turbine	282	78	75	1.84	77	
	Pragati Gas Turbine	330	298	267	6.37	265	
	Rithala GPS	108	37	21	0.75	31	
	Bawana GPS	677	295	226	5.93	247	
	Badarpur TPS (NTPC)	705	645	570	13.40	558	
	Thermal (Total)	2237	1460	1267	30.77	1282	
	Total Delhi	2237	1460	1267	30.77	1282	
HP	Baspa HPS (IPP)	330	150	106	2.28	95	
	Malana HPS (IPP)	86	31	36	0.56	23	
	Other Hydro	589	369	363	8.81	367	
	Total HP	1005	550	505	12	485	
J & K	Baglihar HPS (IPP)	450	294	292	7.01	292	
	Other Hydro	323	178	201	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	472	493	11.56	482	
Total State Control Area Generation		32017	17556	16843	412.97	17003	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2386	4572	87.54	3648	
Total Regional Availability(Gross)		54353	37512	33433	802.08	33216	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7438	2071	93.63	3901
State Control Area Hydro	5368	2457	2064	61.64	2365
Total Regional Hydro	15731	9895	4135	155.27	6266

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	400	500	0	6.21	0.00	6.21
Gwalior-Agra (D/C)	286	704	775	0	14.52	0.00	14.52
Zerda-Kankroli	-48	15	34	181	0.00	1.32	-1.32
Zerda-Bhinmal	-27	32	143	190	0.00	0.41	-0.41
Malanpur-Auraiya	-125	-76	0	125	0.00	1.44	-1.44
Badod-Kota/Morak	-63	3	3	100	0.00	1.00	-1.00
Mundra-Mohindergarh(HVDC)	617	619	622	0	14.92	0.00	14.92
Sub Total WR	790	1697			35.65	4.18	31.47
Pusauli Bypass	100	50	100	0	1.42	0.00	1.42
MZP- GKP (D/C)	528	1072	1170	0	20.46	0.00	20.46
Patna-Balia(D/C)	0	253	311	0	3.11	0.00	3.11
B'Sharif-Balia (D/C)	340	598	642	0	10.89	0.00	10.89
Barh - Balia(D/C)	438	301	731	0	11.23	0.00	11.23
Pusauli-Balia	-75	199	199	75	1.11	0.00	1.11
Gaya-Fatehpur (765 Kv)	163	268	356	0	5.24	0.00	5.24
Pusauli-Sahupuri	144	170	179	0	3.60	0.00	3.60
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	1596	2875			57.04	0.97	56.07
Total IR Exch	2386	4572			92.69	5.15	87.54

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
32.94	3.07	36.00	3.37	4.18	11.79	8.47	8.01	-7.97
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
59.16	20.79	79.95	56.07	31.47	87.54	-3.09	10.68	7.59

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	1.60	96.40	94.80	35.40	3.60

<----- 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				
50.39	18.02	49.60	22.46	49.95	17.55	0.13	50.27	49.87

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	20:54	404	8:50	0.0	0.0	0.0	0.0
Gorakhpur	400	428	17:49	404	2:10	0.0	0.0	36.6	0.0
Bareilly	400	420	20:54	395	2:00	0.0	0.0	0.0	0.0
Kanpur	400	420	21:47	400	5:58	0.0	0.0	0.0	0.0
Dadri	400	416	20:35	401	19:00	0.0	0.0	0.0	0.0
Ballabhgarh	400	422	21:46	407	9:24	0.0	0.0	2.5	0.0
Bawana	400	420	20:53	407	11:04	0.0	0.0	0.0	0.0
Bassi	400	427	21:46	404	5:52	0.0	0.0	17.5	0.0
Hissar	400	409	3:05	397	11:35	0.0	0.0	0.0	0.0
Moga	400	414	2:58	400	11:35	0.0	0.0	0.0	0.0
Abdullapur	400	417	2:58	404	11:04	0.0	0.0	0.0	0.0
Nalagarh	400	421	3:11	405	11:35	0.0	0.0	0.1	0.0
Kishenpur	400	421	3:13	400	19:05	0.0	0.0	0.0	0.0
Wagoora	400	420	2:53	382	19:08	0.0	2.8	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	503.92	1258.87	510.44	1575.10	533.72	487.33
Pong	426.72	384.05	421.74	975.89	422.67	1020.81	116.98	302.31
Tehri	829.79	740.04	824.76	1100.00	818.65	982.26	118.10	134.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	104.73	88.90
Rihand	268.22	252.98	264.05	548.10	265.51	650.20	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 12.10.2012 :

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 : 12.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER