

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.10.2012

Date of Reporting : 14.10.2012

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
33429	3375	36804	50.14	30817	1519	32336	50.04	760.0	64.41

* 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	55.55	9.88		65.43	60.03	60.30	0.28	125.73	1.91
Haryana	57.16	0.81		57.97	56.07	55.51	-0.55	113.48	0.03
Rajasthan	90.29	0.06	6.54	96.88	53.54	55.35	1.81	152.23	3.09
Delhi	27.45			27.45	46.29	44.13	-2.16	71.58	0.09
UP	93.52	10.80	2.40	106.72	103.51	104.33	0.82	211.05	56.43
Uttarakhand		14.24		14.24	12.01	15.07	3.06	29.31	1.00
HP		11.46		11.46	11.52	11.54	0.02	23.00	0.16
J & K		11.57	0.00	11.57	18.80	18.30	-0.50	29.88	1.70
Chandigarh				0.00	4.32	3.77	-0.55	3.77	0.00
Total	323.97	58.82	8.94	391.73	366.09	368.32	2.22	760.04	64.41

* 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	6121	150	-49	580	4839	0	67	389	16.99	
Haryana	4946	12	-175	245	4434	0	-9	344	7.58	
Rajasthan	6447	0	-98	666	6034	354	60	417	11.61	
Delhi	3565	0	22	-93	2487	0	-45	-634	-11.16	
UP	7917	3033	-133	118	10121	1165	157	1774	22.08	
Uttarakhand	1531	80	199	129	1010	0	102	76	2.26	
HP	1163	0	-79	-203	779	0	-7	-130	-4.52	
J&K	1538	100	-46	-104	1002	0	-85	-86	-2.20	
Chandigarh	201	0	-35	15	111	0	-21	0	0.31	
Total	33429	3375	-394	1352	30817	1519	219	2150	42.95	

* 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	1428	1550	1562	34.64	1443	34.27	0.38
Rihand I STPS	1000	927	1013	1024	22.39	933	22.25	0.14
Rihand II STPS	1000	970	1032	1038	23.50	979	23.28	0.22
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	857	643	17.68	737	17.62	0.06
Dadri II STPS	980	485	498	481	11.54	481	11.57	-0.03
Unchahar I TPS	420	405	435	437	9.55	398	9.67	-0.12
Unchahar II TPS	420	404	437	441	9.63	401	9.61	0.01
Unchahar III TPS	210	202	215	216	4.80	200	4.82	-0.01
ISTPP (Jhajhar)	1000	950	944	659	16.55	690	16.68	-0.13
Dadri GPS	830	803	584	555	13.46	561	13.82	-0.36
Anta GPS	419	395	249	245	6.15	256	6.02	0.13
Auraiya GPS	663	479	306	316	7.28	303	7.60	-0.32
Sub Total (A)	10282	8258	8120	7617	177.17	7382	177.21	-0.04
B. NPC								
NAPS	440	270	304	308	6.43	268	6.48	-0.05
RAPS- B	440	412	455	459	9.92	413	9.89	0.03
RAPS- C	440	430	468	469	10.03	418	10.32	-0.29
Sub Total (B)	1320	1112	1227	1236	26.37	1099	26.69	-0.32
C. NHPC								
Chamera I HPS	540	535	540	0	3.28	137	3.21	0.07
Chamera II HPS	300	300	299	0	2.80	117	2.65	0.15
Chamera III HPS	231	231	233	0	2.01	84	1.85	0.15
Bairasuil HPS	180	182	20	0	1.18	49	1.08	0.10
Salai-HPS	690	231	331	204	5.57	232	5.52	0.05
Tanakpur-HPS	94	82	92	80	2.00	83	1.97	0.03
Uri-HPS	480	208	304	149	4.87	203	4.66	0.21
Dhauliganga-HPS	280	280	257	5	2.46	102	2.51	-0.05
Dulhasi-HPS	390	361	283	0	6.13	255	6.25	-0.12
Sewa-II HPS	120	80	80	0	0.57	24	0.52	0.05
Sub Total (C)	3305	2489	2439	438	30.86	1286	30.22	0.64
D.NJPC								
Nathpa Jhakri	1500	1605	1477	0	13.53	564	13.01	0.53
Sub Total (D)	1500	1605	1477	0	13.53	564	13.01	0.53
E. THDC								
Tehri HPS	1000	1050	1003	0	6.28	262	6.00	0.28
Koteshwar HPS	400	285	290	0	2.03	85	2.00	0.03
Sub Total (E)	1400	1335	1293	0	8.31	346	8.00	0.31
F. BBMB								
Bhakra HPS	1480	753	944	571	18.44	768	18.06	0.38
Dehar HPS	990	308	495	290	7.46	311	7.38	0.08
Pong HPS	396	210	306	120	5.19	216	5.01	0.18
Sub Total (F)	2866	1270	1745	981	31.09	1295	30.45	0.64
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	76	0	0.98	41	0.95	0.03
KWHEP HPS(IPP)	1000	0	402	300	7.45	310	7.43	0.02
Malana Stg-II HPS	100	0	29	19	0.52	22	0.40	0.12
Shree Cement TPS	300	0	128	126	3.10	129	3.08	0.02
Budhil HPS(IPP)	70	0	10	10	0.38	16	0.51	-0.14
Sub Total (G)	1662	0	645	455	12.42	518	12.37	0.05
H. Total Regional Entities (A-G)	22336	16070	16946	10727	299.76	12490	297.95	1.81

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	1265	1263	28.34	1181	
	Guru Nanak Dev TPS(Bhatinda)	440	312	220	5.87	245	
	Guru Hargobind Singh TPS(L.mbt)	920	960	963	21.35	889	
	Thermal (Total)	2620	2537	2446	55.55	2315	
	Total Hydro	1148	342	278	9.88	412	
	Total Punjab	3768	2879	2724	65.43	2726	
Haryana	Panipat TPS	1367	1077	1008	25.38	1058	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	195	193	4.49	187	
	RGTPP (kheldar) (IPP)	1200	840	781	19.88	828	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	275	307	7.41	309	
	Thermal (Total)	4944	2387	2289	57.16	2382	
	Total Hydro	62	33	34	0.81	34	
	Total Haryana	5006	2420	2323	57.97	2415	
Rajasthan	kota TPS	1240	1057	1059	24.47	1020	
	suratgarh TPS	1500	1329	1340	31.81	1325	
	Chabra TPS	500	441	370	9.53	397	
	Dholpur GPS	330	140	140	3.50	146	
	Ramgarh GPS	111	77	76	1.91	79	
	RAPS A (NPC)	300	173	175	4.20	175	
	Barsingar (NLC)	250	207	207	4.50	187	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	480	420	10.37	432	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3904	3787	90.29	3762	
	Total Hydro	550	0	0	0.06	3	
	Wind power	1843	86	392	5.60	233	
	Biomass	91	26	26	0.64	26	
	Solar	128	0	0	0.24	10	
	Renewable/Others (Total)	2062	112	418	6.54	272	
	Total Rajasthan	7767	4016	4205	96.88	4037	
	UP	Anpara TPS	1630	1032	1120	25.60	1067
		Obra TPS	1382	453	494	11.30	471
		Paricha TPS	890	368	385	9.20	383
Panki TPS		210	63	122	2.60	108	
Harduaganj TPS		665	208	158	4.70	196	
Tanda TPS (NTPC)		440	393	403	9.78	407	
Roza TPS (IPP)		1200	554	833	17.82	743	
Anpara-C (IPP)		1200	0	436	7.67	320	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	207	184	4.86	202	
Thermal (Total)		8067	3278	4135	93.52	3897	
Vishnuparyag HPS (IPP)		400	202	203	4.75	198	
Other Hydro		527	260	0	6.05	252	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	3840	4438	106.72	4249	
Uttarakhand		Total Hydro	1303	604	529	14.24	593
	Total Uttarakhand	1303	604	529	14.24	593	
Delhi	Raighat TPS	135	106	109	2.49	104	
	Delhi Gas Turbine	282	75	75	1.86	77	
	Pragati Gas Turbine	330	297	296	7.26	302	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	267	225	5.87	245	
	Badarpur TPS (NTPC)	705	355	505	9.97	416	
	Thermal (Total)	2237	1100	1210	27.45	1144	
	Total Delhi	2237	1100	1210	27.45	1144	
HP	Baspa HPS (IPP)	330	0	144	2.26	94	
	Malana HPS (IPP)	86	13	35	0.51	21	
	Other Hydro	589	342	356	8.69	362	
	Total HP	1005	355	535	11	478	
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	15688	16453	391.73	16124	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3226	5030	91.85	3827	
Total Regional Availability(Gross)		54353	35860	32210	783.33	32441	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7461	1738	92.74	3864
State Control Area Hydro	5368	2068	1865	58.82	2253
Total Regional Hydro	15731	9529	3603	151.56	6117

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	300	400	500	0	7.89	0.00	7.89		
Gwalior-Agra (D/C)	498	800	892	0	14.68	0.00	14.68		
Zerda-Kankroli	14	-2	69	125	0.00	0.63	-0.63		
Zerda-Bhinmal	78	53	208	88	0.90	0.00	0.90		
Malanpur-Auraiya	-39	-19	0	48	0.00	1.39	-1.39		
Badod-Kota/Morak	9	4	43	57	0.00	0.56	-0.56		
Mundra-Mohinderghar(HVDC)	616	615	621	0	14.83	0.00	14.83		
Sub Total WR	1476	1851			38.30	2.58	35.72		
Pusauli Bypass	100	100	100	100	1.31	0.27	1.04		
MZP- GKP (D/C)	520	1080	1080	0	18.99	0.00	18.99		
Patna-Balia(D/C)	0	284	292	0	2.43	0.00	2.43		
B'Sharif-Balia (D/C)	328	563	627	0	10.63	0.00	10.63		
Barh - Balia(D/C)	589	682	699	0	14.37	0.00	14.37		
Pusauli-Balia	-38	122	174	47	1.03	0.00	1.03		
Gaya-Fatehpur (765 Kv)	147	259	273	0	5.02	0.00	5.02		
Pusauli-Sahupuri	146	125	180	0	3.59	0.00	3.59		
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	1750	3179			57.37	1.24	56.13		
Total IR Exch	3226	5030			95.66	3.82	91.85		

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
31.42	2.66	34.08	3.14	3.86	12.34	11.62	8.55	-8.52
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
58.11	22.83	80.94	56.13	35.72	91.85	-1.98	12.89	10.91

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	4.10	98.10	94.00	24.70	1.80
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX	MIN
Freq	Time	Freq	Time				(Hz)	(Hz)
50.34	17.06	49.60	5.44	49.92	0.17	0.12	50.31	49.83

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	19:56	401	15:16	0.0	0.0	0.0	0.0
Gorakhpur	400	427	7:37	406	5:14	0.0	0.0	41.6	0.0
Bareilly	400	423	20:59	395	2:22	0.0	0.0	1.1	0.0
Kanpur	400	421	20:59	399	10:26	0.0	0.0	0.1	0.0
Dadri	400	416	20:58	402	11:14	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	20:57	407	10:21	0.0	0.0	2.4	0.0
Bawana	400	421	21:02	408	11:11	0.0	0.0	0.1	0.0
Bassi	400	427	20:58	406	18:37	0.0	0.0	22.0	0.0
Hissar	400	411	21:02	396	18:38	0.0	0.0	0.0	0.0
Moga	400	414	3:04	398	18:35	0.0	0.0	0.0	0.0
Abdullapur	400	419	20:59	250	12:00	0.2	0.2	0.0	0.0
Nalagarh	400	421	2:47	0	10:46	25.8	25.8	3.7	0.0
Kishenpur	400	425	3:04	396	18:35	0.0	0.0	8.2	0.0
Wagoora	400	425	3:41	381	19:03	0.0	5.8	10.0	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	510.39	1560.04	323.55	500.60
Pong	426.72	384.05	421.68	961.02	422.04	1020.81	114.65	291.55
Tehri	829.79	740.04	824.75	1107.95	818.65	982.26	109.01	136.00
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 13.10.2012 :

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 : 13.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER