

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.11.2012

Date of Reporting : 11.11.2012

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
32190	2536	34727	50.17	26677	935	27612	50.17	711.0	47.33

* 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	53.23	9.55		62.77	29.30	30.18	0.87	92.95	2.57
Haryana	53.25	0.79		54.03	48.64	48.26	-0.38	102.30	0.57
Rajasthan	86.78	4.98	8.32	100.08	62.50	63.58	1.08	163.66	4.16
Delhi	32.72			32.72	27.41	23.51	-3.89	56.23	0.04
UP	112.79	6.43	1.68	120.90	85.14	81.96	-3.18	202.86	35.64
Uttarakhand		8.87		8.87	17.94	19.35	1.41	28.22	2.65
HP		7.49		7.49	15.44	16.60	1.16	24.09	0.00
J & K		9.27	0.00	9.27	27.24	28.11	0.86	37.37	1.70
Chandigarh				0.00	3.40	3.33	-0.07	3.33	0.00
Total	338.76	47.38	10.00	396.13	317.01	314.88	-2.13	711.01	47.33

* 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	4595	600	39	-454	3150	0	76	-571	-8.60	
Haryana	4902	129	-159	132	3750	0	77	108	1.94	
Rajasthan	6990	52	-63	697	6338	80	56	642	21.12	
Delhi	2827	0	-386	-1286	1541	0	-129	-2220	-38.86	
UP	8328	1475	-306	-30	8634	855	-157	1005	7.93	
Uttarakhand	1457	180	34	405	986	0	-12	361	8.88	
HP	1230	0	83	79	784	0	29	248	2.65	
J&K	1674	100	-297	451	1404	0	41	381	8.55	
Chandigarh	187	0	-19	0	91	0	0	-30	-0.37	
Total	32190	2536	-1074	-7	26677	935	-18	-77	3.25	

* 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), UI: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1935	2076	2070	46.67	1945	46.44	0.23
Rihand I STPS	1000	460	502	506	11.06	461	11.04	0.02
Rihand II STPS	1000	970	1017	1041	23.30	971	23.28	0.01
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	862	833	18.94	789	19.29	-0.36
Dadri II STPS	980	975	1005	974	22.89	954	23.31	-0.42
Unchahar I TPS	420	402	436	316	9.10	379	9.27	-0.17
Unchahar II TPS	420	405	430	340	9.20	383	9.33	-0.13
Unchahar III TPS	210	202	213	175	4.64	193	4.71	-0.07
ISTPP (Jhajhar)	1000	916	784	650	17.14	714	17.42	-0.28
Dadri GPS	830	834	530	424	12.78	532	13.02	-0.25
Anta GPS	419	409	238	184	5.66	236	5.78	-0.12
Auraiya GPS	663	657	313	261	7.24	302	7.49	-0.26
Sub Total (A)	10282	8976	8406	7774	188.61	7859	190.39	-1.78
B. NPC								
NAPS	440	276	312	315	6.69	279	6.62	0.06
RAPS- B	440	416	458	463	10.00	417	9.98	0.02
RAPS- C	440	440	473	473	10.15	423	10.56	-0.41
Sub Total (B)	1320	1132	1243	1251	26.83	1118	27.17	-0.34
C. NHPC								
Chamera I HPS	540	545	180	0	2.34	97	2.35	-0.01
Chamera II HPS	300	303	267	0	1.87	78	1.83	0.04
Chamera III HPS	231	231	146	0	1.11	46	1.09	0.01
Bairasuil HPS	180	136	120	0	0.73	31	0.81	-0.08
Salai-HPS	690	154	220	133	3.54	148	3.76	-0.22
Tanakpur-HPS	94	51	54	46	1.16	48	1.22	-0.06
Uri-HPS	480	126	229	88	2.88	120	3.04	-0.15
Dhauliganga-HPS	280	288	137	0	1.45	60	1.41	0.04
Dulhasi-HPS	390	388	235	0	4.10	171	3.94	0.16
Sewa-II HPS	120	120	69	0	0.29	12	0.29	0.00
Sub Total (C)	3305	2340	1657	267	19.47	811	19.72	-0.26
D. NJPC								
Nathpa Jhakri	1500	1605	754	0	9.77	407	9.59	0.18
Sub Total (D)	1500	1605	754	0	9.77	407	9.59	0.18
E. THDC								
Tehri HPS	1000	634	960	0	4.95	206	5.00	-0.05
Koteshwar HPS	400	240	75	0	1.35	56	0.95	0.40
Sub Total (E)	1400	874	1035	0	6.30	263	5.95	0.35
F. BBMB								
Bhakra HPS	1480	652	1152	417	16.07	670	15.64	0.43
Dehar HPS	990	186	495	165	4.71	196	4.46	0.25
Pong HPS	396	276	366	180	6.90	288	5.01	1.89
Sub Total (F)	2866	1113	2013	762	27.68	1153	25.11	2.57
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.72	30	0.69	0.03
KWHEP HPS(IPP)	1000	0	449	0	5.16	215	5.16	0.00
Malana Stg-II HPS	100	0	35	13	0.31	13	0.28	0.03
Shree Cement TPS	300	0	281	277	6.76	282	6.77	-0.01
Budhil HPS(IPP)	70	0	10	10	0.24	10	0.42	-0.18
Sub Total (G)	1662	0	775	300	13.18	549	13.33	-0.15
H. Total Regional Entities (A-G)	22336	16041	15883	10354	291.83	12160	291.26	0.58

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	1263	1142	27.88	1162	
	Guru Nanak Dev TPS(Bhatinda)	440	105	225	4.18	174	
	Guru Hargobind Singh TPS(L.mbt)	920	958	959	21.17	882	
	Thermal (Total)	2620	2326	2326	53.23	2218	
	Total Hydro	1148	402	283	9.55	398	
	Total Punjab	3768	2728	2609	62.77	2615	
Haryana	Panipat TPS	1367	941	841	21.67	903	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	409	283	8.17	340	
	RGTPP (khedar) (IPP)	1200	561	457	13.14	548	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	501	377	10.26	428	
	Thermal (Total)	4944	2412	1958	53.25	2219	
	Total Hydro	62	28	35	0.79	33	
	Total Haryana	5006	2440	1993	54.03	2251	
Rajasthan	kota TPS	1240	1168	1166	27.94	1164	
	suratgarh TPS	1500	1327	1250	29.03	1210	
	Chabra TPS	500	409	401	9.57	399	
	Dholpur GPS	330	148	143	3.49	145	
	Ramgarh GPS	111	72	73	1.89	79	
	RAPS A (NPC)	300	173	173	4.24	177	
	Barsingar (NLC)	250	104	105	2.40	100	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	357	357	8.22	343	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3758	3668	86.78	3616	
	Total Hydro	550	227	220	4.98	208	
	Wind power	2191	55	134	2.57	107	
	Biomass	91	27	27	0.66	27	
	Solar	201	3	0	0.11	4	
	Renewable/Others (Total)	2483	82	161	8.32	347	
	Total Rajasthan	8189	4067	4049	100.08	4170	
	UP	Anpara TPS	1630	1419	1371	33.30	1388
		Obra TPS	1382	366	376	8.80	367
		Paricha TPS	890	587	591	14.00	583
Panki TPS		210	135	131	3.10	129	
Harduaganj TPS		665	132	138	3.40	142	
Tanda TPS (NTPC)		440	398	399	9.75	406	
Roza TPS (IPP)		1200	900	1080	25.21	1050	
Anpara-C (IPP)		1200	411	465	10.41	434	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	203	4.82	201	
Thermal (Total)		8067	4551	4754	112.79	4700	
Vishnuparyag HPS (IPP)		400	129	119	2.94	122	
Other Hydro		527	92	114	3.49	146	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	4842	5057	120.90	4915	
Uttarakhand		Total Hydro	1303	449	318	8.87	370
	Total Uttarakhand	1303	449	318	8.87	370	
Delhi	Raighat TPS	135	112	108	2.51	105	
	Delhi Gas Turbine	282	155	157	3.91	163	
	Pragati Gas Turbine	330	307	314	7.48	312	
	Rithala GPS	108	21	0	0.35	15	
	Bawana GPS	677	275	222	6.22	259	
	Badarpur TPS (NTPC)	705	585	490	12.24	510	
	Thermal (Total)	2237	1455	1291	32.72	1363	
	Total Delhi	2237	1455	1291	32.72	1363	
HP	Baspa HPS (IPP)	330	0	29	1.56	65	
	Malana HPS (IPP)	86	33	15	0.34	14	
	Other Hydro	589	280	168	5.59	233	
	Total HP	1005	313	212	7	312	
J & K	Baglihar HPS (IPP)	450	294	146	6.09	254	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	414	321	9.27	386	
Total State Control Area Generation		32439	16708	15850	396.13	16383	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			674	1626	31.46	1311	
Total Regional Availability(Gross)		54775	33265	27830	719.42	29854	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5943	1042	69.40	2892
State Control Area Hydro	5368	1925	1503	47.38	1852
Total Regional Hydro	15731	7868	2545	116.78	4743

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	-200	0	500	0.00	9.34	0.00	9.34	-9.34
Gwalior-Agra (D/C)	-79	0	353	360	0.18	0.00	0.00	0.18	0.18
Zerda-Kankroli	-200	-151	0	363	0.00	4.70	0.00	4.70	-4.70
Zerda-Bhinmal	-112	-40	79	229	0.00	1.96	0.00	1.96	-1.96
Malanpur-Auraiya	-227	-175	0	264	0.00	4.38	0.00	4.38	-4.38
Badod-Kota/Morak	-141	-213	0	253	0.00	3.77	0.00	3.77	-3.77
Mundra-Mohindergarh(HVDC)	740	742	742	0	17.88	0.00	17.88	0.00	17.88
Sub Total WR	-319	-37			18.06	24.15			-6.09
Pusauli Bypass	250	250	250	0	6.06	0.00	6.06	0.00	6.06
MZP- GKP (D/C)	152	472	556	0	9.38	0.00	9.38	0.00	9.38
Patna-Balia(D/C)	177	183	232	0	4.59	0.00	4.59	0.00	4.59
B'Sharif-Balia (D/C)	191	301	464	0	7.21	0.00	7.21	0.00	7.21
Barh - Balia(D/C)	176	220	277	0	5.24	0.00	5.24	0.00	5.24
Pusauli-Balia	-74	-39	0	90	0.00	0.93	0.00	0.93	-0.93
Gaya-Fatehpur (765 Kv)	23	162	271	0	3.41	0.00	3.41	0.00	3.41
Pusauli-Sahupuri	138	148	158	0	3.55	0.00	3.55	0.00	3.55
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	993	1663			39.44	1.88			37.55
Total IR Exch	674	1626			57.50	26.04			31.46

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
33.13	0.73	33.86	9.00	-17.91	-0.84	1.16	2.93	-2.86
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
44.94	-4.65	40.29	37.55	-6.09	31.46	-7.39	-1.44	-8.83

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	1.95	94.10	92.15	70.54	5.90
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.51	20.57	49.69	8.42	50.08	0.25	0.11	50.34	49.82

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	2:00	405	23:22	0.1	0.1	0.0	0.0
Gorakhpur	400	434	6:39	419	9:22	0.0	0.0	79.9	8.7
Bareilly	400	423	20:56	403	11:44	0.0	0.0	0.6	0.0
Kanpur	400	423	20:56	406	8:38	0.0	0.0	2.9	0.0
Dadri	400	424	2:03	410	10:53	0.0	0.0	23.2	0.0
Ballabhgarh	400	429	1:57	413	8:38	0.0	0.0	58.2	0.0
Bawana	400	427	1:53	413	11:26	0.0	0.0	59.6	0.0
Bassi	400	431	20:53	407	5:53	0.0	0.0	46.2	0.1
Hissar	400	416	1:52	399	18:25	0.0	0.0	0.0	0.0
Moga	400	423	1:52	402	11:05	16.9	16.9	11.1	0.0
Abdullapur	400	424	2:00	401	15:29	0.1	0.1	23.7	0.0
Nalagarh	400	428	3:30	410	18:13	0.0	0.0	30.1	0.0
Kishenpur	400	423	3:53	391	18:23	0.0	0.0	3.9	0.0
Wagoora	400	412	3:53	367	18:23	14.3	47.7	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	503.59	1245.57	509.44	1515.08	215.09	417.53
Pong	426.72	384.05	418.84	834.92	419.90	889.22	91.35	404.73
Tehri	829.79	740.04	824.00	1086.79	818.65	982.26	71.08	106.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	70.59	70.59
Rihand	268.22	252.98	NA	500.10	264.96	617.70	NA	NA
RPS	352.80	343.81	351.34	NA	350.67	NA	NA	257.26
Jawahar Sagar	298.70	295.78	297.79	NA	297.67	NA	NA	241.63
RSD	527.91	487.91	520.87	NA	521.76	NA	70.79	78.83

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.11.2012 :

Normal

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 : 10.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER