

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.11.2012

Date of Reporting : 09.11.2012

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
32116	2785	34901	50.12	26606	2026	28631	50.13	702.2	61.94

* 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	53.73	9.08		62.81	30.72	30.76	0.04	93.57	2.61
Haryana	54.82	0.76		55.58	47.98	47.52	-0.46	103.10	0.98
Rajasthan	86.48	4.76	7.81	99.04	58.84	58.72	-0.12	157.76	4.98
Delhi	30.94			30.94	29.67	28.31	-1.36	59.25	0.78
UP	100.43	7.19	1.68	109.30	85.92	88.00	2.09	197.30	48.74
Uttarakhand		9.40		9.40	17.50	19.53	2.03	28.93	2.15
HP		7.30		7.30	15.54	16.51	0.96	23.81	0.00
J & K		7.42	0.00	7.42	27.36	27.66	0.29	35.08	1.70
Chandigarh				0.00	3.45	3.37	-0.09	3.37	0.00
Total	326.40	45.91	9.49	381.80	316.99	320.37	3.38	702.17	61.94

* 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	4730	600	-55	-365	3364	0	-34	-794	-8.59	
Haryana	4815	406	24	129	3816	0	88	114	1.89	
Rajasthan	6828	99	14	725	5981	541	80	563	17.56	
Delhi	3033	0	-164	-1302	1493	0	-164	-2246	-39.69	
UP	8210	1500	-483	-30	8592	1485	-18	877	5.92	
Uttarakhand	1531	80	127	386	1029	0	11	312	8.52	
HP	1083	0	-41	79	797	0	42	259	2.75	
J&K	1703	100	-288	504	1439	0	-45	419	8.91	
Chandigarh	184	0	-26	-5	95	0	5	-30	-0.30	
Total	32116	2785	-891	123	26606	2026	-35	-527	-3.04	

* 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	1930	2065	2062	45.73	1905	46.32	-0.59
Rihand I STPS	1000	460	504	503	11.14	464	11.04	0.10
Rihand II STPS	1000	970	1035	1034	23.36	973	23.28	0.08
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	867	855	19.10	796	19.44	-0.34
Dadri II STPS	980	975	1027	1012	23.07	961	23.32	-0.26
Unchahar I TPS	420	402	431	391	9.38	391	9.58	-0.20
Unchahar II TPS	420	326	437	197	7.63	318	7.70	-0.07
Unchahar III TPS	210	202	219	177	4.66	194	4.77	-0.11
ISTPP (Jhajhar)	1000	850	337	320	17.57	732	17.46	0.11
Dadri GPS	830	834	600	605	13.91	580	14.64	-0.73
Anta GPS	419	409	272	249	6.41	267	6.80	-0.38
Auraiya GPS	663	656	317	326	7.51	313	9.05	-1.54
Sub Total (A)	10282	8824	8111	7731	189.45	7894	193.40	-3.94
B. NPC								
NAPS	440	276	313	319	6.66	277	6.62	0.03
RAPS- B	440	417	460	463	10.12	422	10.01	0.11
RAPS- C	440	440	464	473	9.98	416	10.56	-0.58
Sub Total (B)	1320	1133	1237	1255	26.76	1115	27.19	-0.44
C. NHPC								
Chamera I HPS	540	545	180	0	2.61	109	2.64	-0.03
Chamera II HPS	300	303	273	0	1.87	78	1.78	0.08
Chamera III HPS	231	231	206	0	1.15	48	1.10	0.05
Bairasuil HPS	180	120	0	0	0.78	32	0.77	0.00
Salai-HPS	690	186	327	210	4.70	196	4.67	0.03
Tanakpur-HPS	94	49	55	50	1.21	50	1.18	0.02
Uri-HPS	480	146	234	88	3.06	128	3.22	-0.15
Dhauliganga-HPS	280	288	209	0	1.86	78	1.84	0.02
Dulhasti-HPS	390	388	260	10	4.19	175	4.08	0.12
Sewa-II HPS	120	120	78	0	0.29	12	0.29	0.00
Sub Total (C)	3305	2376	1822	358	21.71	904	21.57	0.13
D.NJPC								
Nathpa Jhakri	1500	1605	1015	0	9.85	411	9.88	-0.03
Sub Total (D)	1500	1605	1015	0	9.85	411	9.88	-0.03
E. THDC								
Tehri HPS	1000	613	922	0	4.91	204	4.75	0.16
Koteshwar HPS	400	240	49	0	1.04	43	1.25	-0.21
Sub Total (E)	1400	853	971	0	5.95	248	6.00	-0.05
F. BBMB								
Bhakra HPS	1480	633	1139	409	15.68	653	15.18	0.50
Dehar HPS	990	181	495	165	4.62	193	4.36	0.27
Pong HPS	396	280	306	246	6.90	288	5.01	1.89
Sub Total (F)	2866	1094	1940	820	27.20	1133	24.54	2.66
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.72	30	0.69	0.02
KWHEP HPS(IPP)	1000	0	470	0	5.53	231	5.52	0.01
Malana Stg-II HPS	100	0	35	13	0.31	13	0.28	0.02
Shree Cement TPS	300	0	285	235	6.68	278	6.60	0.09
Budhil HPS(IPP)	70	0	0	0	0.27	11	0.42	-0.16
Sub Total (G)	1662	0	790	248	13.50	563	13.51	-0.01
H. Total Regional Entities (A-G)	22336	15884	15886	10412	294.42	12268	296.10	-1.68

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	1262	1162	28.16	1173	
	Guru Nanak Dev TPS(Bhatinda)	440	225	205	4.17	174	
	Guru Hargobind Singh TPS(L.mbt)	920	959	971	21.40	891	
	Thermal (Total)	2620	2446	2338	53.73	2239	
	Total Hydro	1148	413	303	9.08	378	
	Total Punjab	3768	2859	2641	62.81	2617	
Haryana	Panipat TPS	1367	942	916	22.81	950	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	398	282	9.28	387	
	RGTPP (khedar) (IPP)	1200	547	492	13.17	549	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	453	375	9.56	398	
	Thermal (Total)	4944	2340	2065	54.82	2284	
	Total Hydro	62	27	34	0.76	32	
	Total Haryana	5006	2367	2099	55.58	2316	
Rajasthan	kota TPS	1240	1162	1153	27.74	1156	
	suratgarh TPS	1500	1326	1339	29.06	1211	
	Chabra TPS	500	417	378	9.55	398	
	Dholpur GPS	330	142	142	3.58	149	
	Ramgarh GPS	111	72	73	1.89	79	
	RAPS A (NPC)	300	173	173	4.19	175	
	Barsingar (NLC)	250	193	195	4.15	173	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	297	365	6.34	264	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3782	3818	86.48	3603	
	Total Hydro	550	228	143	4.76	198	
	Wind power	2191	95	0	2.51	104	
	Biomass	91	21	21	0.41	17	
	Solar	201	5	0	0.14	6	
	Renewable/Others (Total)	2483	116	21	7.81	325	
	Total Rajasthan	8189	4126	3982	99.04	4127	
	UP	Anpara TPS	1630	1285	1268	26.40	1100
		Obra TPS	1382	401	394	8.70	363
		Paricha TPS	890	449	449	7.90	329
Panki TPS		210	145	130	2.70	113	
Harduaganj TPS		665	201	132	3.90	163	
Tanda TPS (NTPC)		440	398	397	9.74	406	
Roza TPS (IPP)		1200	1076	1062	26.34	1097	
Anpara-C (IPP)		1200	383	414	9.48	395	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	243	243	5.28	220	
Thermal (Total)		8067	4581	4489	100.43	4185	
Vishnuparyag HPS (IPP)		400	108	124	3.02	126	
Other Hydro		527	134	229	4.17	174	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	4893	4912	109.30	4428	
Uttarakhand		Total Hydro	1303	438	395	9.40	392
	Total Uttarakhand	1303	438	395	9.40	392	
Delhi	Raighat TPS	135	106	105	2.66	111	
	Delhi Gas Turbine	282	157	155	3.95	165	
	Pragati Gas Turbine	330	305	267	7.45	311	
	Rithala GPS	108	21	21	0.48	20	
	Bawana GPS	677	35	220	4.52	188	
	Badarpur TPS (NTPC)	705	535	530	11.89	495	
	Thermal (Total)	2237	1159	1298	30.94	1289	
	Total Delhi	2237	1159	1298	30.94	1289	
HP	Baspa HPS (IPP)	330	0	28	1.46	61	
	Malana HPS (IPP)	86	38	0	0.35	15	
	Other Hydro	589	271	177	5.50	229	
	Total HP	1005	309	205	7	304	
J & K	Baglihar HPS (IPP)	450	294	146	4.24	177	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	414	321	7.42	309	
Total State Control Area Generation		32439	16565	15853	381.80	15783	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			678	1295	38.05	1585	
Total Regional Availability(Gross)		54775	33129	27560	714.27	29636	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6253	1191	71.26	2969
State Control Area Hydro	5368	1963	1630	45.91	1787
Total Regional Hydro	15731	8216	2821	117.18	4757

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	-200	0	400	0.00	5.75	-5.75		
Gwalior-Agra (D/C)	-192	94	315	218	2.03	0.00	2.03		
Zerda-Kankroli	-220	-202	0	345	0.00	4.95	-4.95		
Zerda-Bhinmal	-110	-97	99	272	0.00	2.15	-2.15		
Malanpur-Auraiya	-187	-154	0	248	0.00	4.09	-4.09		
Badod-Kota/Morak	-194	-187	45	139	0.00	2.58	-2.58		
Mundra-Mohindergarh(HVDC)	742	742	746	0	17.82	0.00	17.82		
Sub Total WR	-361	-4			19.85	19.52	0.33		
Pusauli Bypass	50	50	50	0	1.28	0.00	1.28		
MZP- GKP (D/C)	286	438	564	0	10.58	0.00	10.58		
Patna-Balia(D/C)	145	0	215	0	2.64	0.00	2.64		
B'Sharif-Balia (D/C)	174	308	468	0	7.62	0.00	7.62		
Barh - Balia(D/C)	175	298	355	0	8.71	0.00	8.71		
Pusauli-Balia	-35	-28	41	80	0.68	0.00	0.68		
Gaya-Fatehpur (765 Kv)	154	145	257	0	4.22	0.00	4.22		
Pusauli-Sahupuri	130	122	162	0	2.95	0.00	2.95		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	-0.95		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1039	1299			38.67	0.95	37.72		
Total IR Exch	678	1295			58.52	20.47	38.05		

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
32.98	0.96	33.93	8.71	-20.31	-3.84	0.32	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
41.74	-6.23	35.51	37.72	0.33	38.05	-4.02	6.56	2.54

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	3.40	97.20	93.80	46.00	2.80
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.40	18.02	49.57	5.55	49.97	0.20	0.14	50.27	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	415	8:10	0	8:06	0.7	0.0	0.0	0.0
Gorakhpur	400	431	20:54	419	10:49	0.0	0.0	93.3	2.8
Bareilly	400	422	20:50	405	10:26	0.0	0.0	1.8	0.0
Kanpur	400	422	8:09	408	5:52	0.0	0.0	1.4	0.0
Dadri	400	423	21:39	409	10:26	0.0	0.0	30.4	0.0
Ballabhgarh	400	429	1:08	414	10:20	0.0	0.0	56.7	0.0
Bawana	400	427	3:06	412	10:26	0.0	0.0	48.8	0.0
Bassi	400	433	1:09	407	5:54	0.0	0.0	50.9	0.8
Hissar	400	416	4:32	400	10:53	0.0	0.0	0.0	0.0
Moga	400	423	3:13	405	9:57	0.0	0.0	8.4	0.0
Abdullapur	400	426	21:57	404	9:49	0.0	0.0	23.3	0.0
Nalagarh	400	425	1:41	411	11:11	0.0	0.0	35.6	0.0
Kishenpur	400	423	2:51	397	18:26	0.0	0.0	6.4	0.0
Wagoora	400	416	13:01	378	18:26	1.9	22.9	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 08.11.2012 :

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 : 08.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER