

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.11.2012

Date of Reporting : 28.11.2012

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
32394	3433	35827	50.05	26154	815	26969	50.30	686.1	60.60

* 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	45.88	9.26		55.14	31.17	31.29	0.12	86.43	3.99
Haryana	57.28	0.60		57.88	38.49	39.39	0.90	97.27	6.92
Rajasthan	91.92	5.84	2.04	99.80	61.60	63.34	1.73	163.14	0.00
Delhi	31.42			31.42	25.51	24.33	-1.17	55.75	0.09
UP	106.04	7.47	3.60	117.11	73.93	75.01	1.08	192.12	45.75
Uttarakhand		8.75		8.75	19.11	19.76	0.65	28.51	2.12
HP		5.79		5.79	15.81	17.20	1.39	22.99	0.03
J & K		7.44	0.00	7.44	27.43	29.07	1.65	36.52	1.70
Chandigarh				0.00	3.22	3.34	0.11	3.34	0.00
Total	332.53	45.17	5.64	383.33	296.28	302.73	6.46	686.07	60.60

* 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	4586	660	-13	-270	2947	0	92	156	-2.94	
Haryana	5106	206	59	109	3463	0	-53	94	3.55	
Rajasthan	7130	0	176	364	6590	0	-64	782	20.89	
Delhi	2953	6	-98	-1291	1443	0	55	-2112	-37.71	
UP	8100	2381	-147	-54	8365	815	149	339	-3.10	
Uttarakhand	1538	80	109	404	1081	0	-7	436	9.91	
HP	1138	0	33	75	727	0	74	280	4.59	
J&K	1658	100	-255	550	1447	0	70	489	10.53	
Chandigarh	186	0	-11	-15	91	0	11	-31	-0.35	
Total	32394	3433	-147	-128	26154	815	327	434	5.36	

* 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	1945	2083	2039	46.81	1950	46.50	0.31
Rihand I STPS	1000	460	514	488	11.03	459	10.94	0.08
Rihand II STPS	1000	470	520	500	11.37	474	11.19	0.18
Rihand III STPS	500	219	232	225	5.23	218	5.17	0.06
Dadri I STPS	840	810	866	803	18.58	774	18.92	-0.35
Dadri II STPS	980	975	1067	922	22.64	943	23.29	-0.65
Unchahar I TPS	420	402	444	411	9.35	389	9.54	-0.19
Unchahar II TPS	420	405	431	405	9.37	390	9.54	-0.17
Unchahar III TPS	210	202	219	197	4.67	195	4.81	-0.14
ISTPP (Jhajhar)	1500	692	860	387	13.14	548	13.62	-0.48
Dadri GPS	830	841	420	416	9.55	398	11.11	-1.56
Anta GPS	419	282	261	183	5.69	237	5.51	0.18
Auraiya GPS	663	659	308	276	7.15	298	7.98	-0.84
Sub Total (A)	10782	8362	8225	7252	174.58	7274	178.13	-3.56
B. NPC								
NAPS	440	281	317	322	6.64	276	6.74	-0.11
RAPS- B	440	420	459	467	10.03	418	10.08	-0.05
RAPS- C	440	430	462	473	10.07	420	10.32	-0.25
Sub Total (B)	1320	1131	1238	1262	26.74	1114	27.14	-0.40
C. NHPC								
Chamera I HPS	540	550	180	0	2.15	90	2.09	0.06
Chamera II HPS	300	303	189	0	1.47	61	1.40	0.06
Chamera III HPS	231	231	17	0	0.69	29	0.72	-0.03
Bairasuil HPS	180	182	50	0	0.59	25	0.52	0.07
Salai-HPS	690	113	215	120	3.01	125	2.64	0.37
Tanakpur-HPS	94	33	39	24	0.91	38	0.81	0.10
Uri-HPS	480	112	234	44	2.59	108	2.73	-0.14
Dhauliganga-HPS	280	288	137	0	1.11	46	1.07	0.04
Dulhasi-HPS	390	388	118	0	3.21	134	2.90	0.31
Sewa-II HPS	120	120	79	0	0.34	14	0.31	0.03
Sub Total (C)	3305	2320	1258	188	16.07	669	15.18	0.88
D.NJPC								
Nathpa Jhakri	1500	1605	957	0	7.80	325	7.80	0.00
Sub Total (D)	1500	1605	957	0	7.80	325	7.80	0.00
E. THDC								
Tehri HPS	1000	1050	960	0	8.22	343	8.00	0.22
Koteswar HPS	400	290	192	0	2.07	86	2.00	0.07
Sub Total (E)	1400	1340	1152	0	10.29	429	10.00	0.29
F. BBMB								
Bhakra HPS	1480	681	1102	415	16.53	689	16.35	0.18
Dehar HPS	990	140	495	0	3.50	146	3.35	0.15
Pong HPS	396	322	366	306	7.91	330	5.01	2.90
Sub Total (F)	2866	1143	1963	721	27.94	1164	24.71	3.23
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.58	24	0.65	-0.06
KWHEP HPS(IPP)	1000	0	150	0	4.19	175	4.25	-0.05
Malana Stg-II HPS	100	0	32	0	0.25	11	0.23	0.02
Shree Cement TPS	300	0	149	283	4.33	180	4.93	-0.61
Budhil HPS(IPP)	70	0	17	0	0.10	4	0.42	-0.32
Sub Total (G)	1662	0	348	283	9.46	394	10.48	-1.02
H. Total Regional Entities (A-G)	22836	15901	15141	9706	272.87	11369	273.45	-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	1267	1100	26.12	1088	
	Guru Nanak Dev TPS(Bhatinda)	440	225	215	4.77	199	
	Guru Hargobind Singh TPS(L.mbt)	920	743	559	14.98	624	
	Thermal (Total)	2620	2235	1874	45.88	1912	
	Total Hydro	1148	440	275	9.26	386	
	Total Punjab	3768	2675	2149	55.14	2297	
Haryana	Panipat TPS	1367	1042	958	24.45	1019	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	143	109	3.32	138	
	RGTPP (khedar) (IPP)	1200	827	889	20.30	846	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	581	303	9.20	383	
	Thermal (Total)	4944	2593	2259	57.28	2387	
	Total Hydro	62	26	20	0.60	25	
	Total Haryana	5006	2619	2279	57.88	2412	
Rajasthan	kota TPS	1240	1174	1127	27.57	1149	
	suratgarh TPS	1500	1128	1169	28.96	1207	
	Chabra TPS	500	445	383	9.97	415	
	Dholpur GPS	330	208	143	3.55	148	
	Ramgarh GPS	111	79	81	2.71	113	
	RAPS A (NPC)	300	179	179	4.33	180	
	Barsingar (NLC)	250	104	104	2.41	100	
	Giral LTPS	250	54	30	0.94	39	
	Rajwest LTPS (IPP)	540	486	486	11.48	478	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3857	3702	91.92	3830	
	Total Hydro	550	232	167	5.84	244	
	Wind power	2191	19	109	1.74	72	
	Biomass	91	34	34	0.16	7	
	Solar	201	4	0	0.15	6	
	Renewable/Others (Total)	2483	53	143	2.04	85	
	Total Rajasthan	8189	4142	4012	99.80	4158	
	UP	Anpara TPS	1630	805	812	19.30	804
		Obra TPS	1382	474	459	11.20	467
Paricha TPS		890	322	325	7.70	321	
Panki TPS		210	117	68	2.70	113	
Harduaganj TPS		665	254	241	5.90	246	
Tanda TPS (NTPC)		440	389	399	9.71	404	
Roza TPS (IPP)		1200	1107	1076	26.49	1104	
Anpara-C (IPP)		1200	624	815	17.82	743	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	243	202	5.23	218	
Thermal (Total)		8067	4335	4397	106.04	4418	
Vishnuparyag HPS (IPP)		400	109	104	2.59	108	
Other Hydro		527	234	206	4.88	203	
Cogeneration		981	150	150	3.60	150	
Total UP		9975	4828	4857	117.11	4772	
Uttarakhand		Total Hydro	1303	461	356	8.75	365
	Total Uttarakhand	1303	461	356	8.75	365	
Delhi	Raighat TPS	135	98	103	2.32	97	
	Delhi Gas Turbine	282	77	157	2.84	118	
	Pragati Gas Turbine	330	316	324	7.68	320	
	Rithala GPS	108	20	0	0.51	21	
	Bawana GPS	677	223	224	5.88	245	
	Badarpur TPS (NTPC)	705	595	495	12.19	508	
	Thermal (Total)	2237	1329	1303	31.42	1309	
	Total Delhi	2237	1329	1303	31.42	1309	
HP	Baspa HPS (IPP)	330	78	0	1.42	59	
	Malana HPS (IPP)	86	40	0	0.30	13	
	Other Hydro	589	182	129	4.08	170	
	Total HP	1005	300	129	6	241	
J & K	Baglihar HPS (IPP)	450	296	146	4.26	178	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	416	321	7.44	310	
Total State Control Area Generation		32439	16770	15406	383.33	15864	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1328	1382	36.42	1518	
Total Regional Availability(Gross)		55275	33239	26494	692.62	28751	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5512	909	67.12	2797
State Control Area Hydro	5368	2109	1474	45.17	1774
Total Regional Hydro	15731	7621	2383	112.29	4571

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	-350	-250	0	350	0.00	7.87	-7.87
Gwalior-Agra (D/C)	210	242	498	0	5.75	0.00	5.75
Zerda-Kankroli	-87	-134	0	176	0.00	2.61	-2.61
Zerda-Bhinmal	0	-28	72	99	0.00	0.21	-0.21
Malanpur-Auraiya	-161	-127	0	180	0.00	3.08	-3.08
Badod-Kota/Morak	-60	-90	0	185	0.00	2.60	-2.60
Mundra-Mohindergarh(HVDC)	372	368	372	0	8.90	0.00	8.90
Sub Total WR	-76	-19			14.65	16.37	-1.72
Pusauli Bypass	250	250	250	0	6.10	0.00	6.10
MZP- GKP (D/C)	340	316	480	0	8.36	0.00	8.36
Patna-Balia(D/C)	551	531	648	0	14.09	0.00	14.09
B'Sharif-Balia (D/C)	179	210	326	0	5.64	0.00	5.64
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-154	-106	0	203	0.00	1.62	-1.62
Gaya-Fatehpur (765 Kv)	138	113	236	0	3.58	0.00	3.58
Pusauli-Sahupuri	136	119	154	0	3.15	0.00	3.15
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	47	0.00	1.16	-1.16
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1404	1401			40.92	2.78	38.14
Total IR Exch	1328	1382			55.57	19.15	36.42

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
32.60	0.54	33.14	2.66	-16.33	-0.50	10.51	2.21	-2.14
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
37.52	-1.19	36.33	38.14	-1.72	36.42	0.62	-0.52	0.10

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	0.74	85.60	84.86	62.86	14.40
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.43	3.07	49.66	10.09	50.05	0.24	0.15	50.39	49.76

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	23:08	0	18:56	1.4	0.0	0.0	0.0
Gorakhpur	400	431	17:24	417	10:25	0.0	0.0	91.8	3.6
Bareilly	400	423	3:09	403	10:07	0.0	0.0	2.0	0.0
Kanpur	400	423	3:07	405	10:09	0.0	0.0	3.5	0.0
Dadri	400	429	3:08	411	10:04	0.0	0.0	39.0	0.0
Ballabhgarh	400	435	3:05	414	10:06	0.0	0.0	60.8	13.6
Bawana	400	433	3:03	414	10:09	0.0	0.0	50.1	4.8
Bassi	400	437	3:15	406	8:28	0.0	0.0	53.9	8.0
Hissar	400	421	3:07	402	10:09	0.0	0.0	0.6	0.0
Moga	400	422	3:02	401	10:17	0.0	0.0	3.3	0.0
Abdullapur	400	428	1:33	293	17:31	0.0	0.0	41.6	0.0
Nalagarh	400	427	23:08	409	12:04	0.0	0.0	31.8	0.0
Kishenpur	400	417	3:05	392	18:25	0.0	0.0	0.0	0.0
Wagoora	400	405	3:06	366	18:25	34.7	54.5	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	501.32	1153.36	507.97	1455.60	197.91	445.85
Pong	426.72	384.05	416.46	730.66	418.09	807.91	81.10	445.65
Tehri	829.79	740.04	822.20	1044.51	818.65	982.26	64.34	155.00
Koteswar	612.50	598.50	606.45	3.32	NA	NA	155.00	131.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.40	59.28
Rihand	268.22	252.98	262.83	500.10	264.57	617.70	NA	NA
RPS	352.80	343.81	348.91	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.39	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.62	NA	518.41	NA	66.63	84.33

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 27.11.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

1. 315 MVA ICT - I & II chaged first time from 400 KV side at 19.37 hrs & 20.04 hrs/27.11.2012 at Bhiwani (PG).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 27.11.2012

पारी प्रभासी अभियंता / SHIFT CHARGE ENGINEER