

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.10.2011
Date of Reporting : 28.10.2011

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
28767	1408	30175	50.00	26832	0	26832	50.10	648.6	21.71

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Energy 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)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others	Total					
Punjab	50.66	6.85		57.51	41.97	41.74	-0.24	99.24	5.40
Haryana	41.03	1.20		42.24	35.99	49.66	13.67	91.90	0.27
Rajasthan	77.51	2.84	3.50	83.85	32.52	39.13	6.61	122.98	0.44
Delhi	21.83			21.83	43.21	33.37	-9.84	55.20	0.00
UP	84.58	14.78	1.20	100.56	106.08	105.95	-0.13	206.50	14.41
Uttarakhand		12.24		12.24	11.56	10.79	-0.77	23.03	0.00
HP		8.51		8.51	10.68	6.29	-4.39	14.80	0.00
J & K		9.34	0.00	9.34	20.80	22.56	1.76	31.90	1.20
Chandigarh				0.00	3.55	3.04	-0.50	3.04	0.00
Total	275.60	55.77	4.70	336.07	306.35	312.51	6.15	648.58	21.71

* Shortage furnished by the respective constituent.

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	
Punjab	4291	300	-616	-185	3989	0	80	-105	-3.20
Haryana	4417	158	720	104	3495	0	297	87	1.94
Rajasthan	5158	0	55	-170	5357	0	431	-202	-4.65
Delhi	2868	0	-320	-80	2025	0	-561	11	-2.11
UP	8161	950	-43	743	9420	0	729	843	18.62
Uttarakhand	1311	0	161	50	810	0	-138	50	1.20
HP	888	0	-107	-622	451	0	-197	30	-2.06
J&K	1498	0	-9	22	1191	0	84	54	1.10
Chandigarh	175	0	-17	18	94	0	-26	18	0.43
Total	28767	1408	-176	-120	26832	0	699	786	11.27

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

A. NTPC	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
	Singrauli STPS	2000	1800	1961	1989	43.65	1819	43.19	0.45
	Rihand I STPS	1000	960	1035	1048	23.09	962	22.99	0.09
	Rihand II STPS	1000	970	1031	1029	23.33	972	23.24	0.09
	Dadri I STPS	840	769	683	628	13.65	569	13.71	-0.06
	Dadri II STPS	980	921	951	726	17.21	717	17.43	-0.23
	Unchahar I TPS	440	385	427	424	9.11	380	9.17	-0.06
	Unchahar II TPS	440	385	423	412	9.00	375	9.06	-0.05
	Unchahar III TPS	210	193	219	199	4.50	188	4.54	-0.04
	ISTPP (Jhajihar)	500	432	506	467	9.70	404	10.24	-0.54
	Dadri GPS	830	804	567	646	13.25	552	13.39	-0.14
	Anta GPS	419	390	250	257	6.08	253	5.96	0.12
	Auraiya GPS	663	619	423	443	9.91	413	9.94	-0.03
	Sub Total (A)	9322	8628	8476	8268	182.47	7603	182.86	-0.39
B. NPC	NAPS	440	195	233	242	4.82	201	4.68	0.14
	RAPS- B	440	407	453	456	9.87	411	9.77	0.11
	RAPS- C	440	420	474	476	10.23	426	10.08	0.15
	Sub Total (B)	1320	1022	1160	1174	24.93	1039	24.53	0.40
C. NHPC	Chamera I HPS	540	534	450	0	2.30	96	2.78	-0.48
	Chamera II HPS	300	297	289	14	2.43	101	2.41	0.02
	Bairasuil HPS	180	179	179	0	0.85	35	1.06	-0.21
	Salal-HPS	690	211	230	150	4.62	193	5.04	-0.42
	Tanakpur-HPS	94	65	67	56	1.50	63	1.55	-0.05
	Uri-HPS	480	155	240	118	4.04	168	4.14	-0.10
	Dhauliganga-HPS	280	277	278	0	2.01	84	1.97	0.04
	Dulhasti-HPS	390	387	414	0	5.46	228	5.74	-0.28
	Sewa-II HPS	120	119	120	0	0.54	23	0.53	0.01
	Sub Total (C)	3074	2223	2267	338	23.77	990	25.22	-1.46
D.NJPC	Nathpa Jhakri	1500	1600	1539	164	12.56	523	13.00	-0.44
	Sub Total (D)	1500	1600	1539	164	12.56	523	13.00	-0.44
E. THDC	Tehri HPS	1000	1050	1047	0	7.00	292	7.00	0.00
	Koteshwar HPS	100	187	187	91	2.06	86	2.00	0.06
	Sub Total (E)	1100	1237	1234	91	9.06	378	9.00	0.06
F. BBMB	Bhakra HPS	1480	532	784	411	13.52	563	12.78	0.74
	Dehar HPS	990	237	495	165	5.93	247	5.68	0.25
	Pong HPS	396	280	306	246	7.01	292	6.73	0.28
	Sub Total (F)	2866	1049	1585	822	26.46	1103	25.19	1.27
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	1	0	0.62	26	0.69	-0.07
	KWHEP HPS(IPP)	1000	0	400	212	7.20	300	7.20	0.00
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	0	0	0.00	0	2.44	-2.44
	Sub Total (G)	1442	0	400.7	212	7.82	326	10.33	-2.51
H. Total Regional Entities (A-G)		20625	15759	16662	11069	287.07	11961	290.13	-3.06

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	1050.00	1050.00	23.02	959
	Guru Nanak Dev TPS(Bhatinda)	440	295.00	297.00	6.19	258
	Guru Hargobind Singh TPS(L.mbt)	920	965.00	973.00	21.46	894
	Thermal (Total)	2620	2310.00	2320.00	50.66	2111
	Total Hydro	1148	281.00	281.00	6.85	285
	Total Punjab	3768	2591	2601	57.51	2396
Haryana	Panipat TPS	1360	970.00	980.00	23.23	968
	DCRTPP (Yamuna nagar)	600	0.00	0.00	0.00	0
	Faridabad GPS (NTPC)	432	392.00	399.00	9.83	409
	RGTPP (khedar) (IPP)	1200	468.00	426.00	7.98	333
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	1830.00	1805.00	41.03	1710
	Total Hydro	62	47.00	47.00	1.20	50
	Total Haryana	3679	1877	1852	42.24	1760
	Rajasthan	kota TPS	1240	1165.00	1170.00	27.03
suratgarh TPS		1500	1140.00	1160.00	25.94	1081
Chabra TPS		500	205.00	217.00	4.95	206
Dholpur GPS		330	273.00	282.00	6.55	273
Ramgarh GPS		113	65.00	65.00	1.64	68
RAPS A (NPC)		300	172.00	174.00	4.33	180
Barsingsar (NLC)		250	82.00	79.00	2.10	88
Giral LTPS (IPP)		250	0.00	0.00	0.00	0
Rajwest LTPS (IPP)		135	242.00	244.00	4.98	207
VSLP LTPS (IPP)		135	0.00	0.00	0.00	0
Thermal (Total)		4753	3344.00	3391.00	77.51	3230
Total Hydro		550	68.00	124.00	2.84	119
Wind power		1294	35.00	253.00	2.82	118
Biomass		71	30.00	30.00	0.68	28
Renewable/Others (Total)		1365	65	283	3.50	146
Total Rajasthan		6668	3477	3798	83.85	3494
UP		Anpara TPS	1630	1456	1429	31.80
	Obra TPS	1442	489	676	12.70	529
	Paricha TPS	640	385	400	8.60	358
	Panki TPS	210	168	170	3.60	150
	Harduaganj TPS	375	36	162	3.90	163
	Tanda TPS (NTPC)	440	398	396	10.43	435
	Roza TPS (IPP)	600	278	277	6.66	278
	Anpara-C (IPP)	600	279	217	6.52	272
	Thermal (Total)	5937	3489	3727	84.58	3524
	Vishnuparyag HPS (IPP)	400	193	178	4.27	178
	Other Hydro	527	77	0	10.51	438
	Cogeneration	951	50	50	1.20	50
	Total UP	7815	3809	3955	100.56	4012
	Uttarakhand	Total Hydro	1303	579	539	12.24
Total Uttarakhand		1303	579	539	12.24	510
Delhi	Rajghat TPS	135	106	100	2.48	103
	Delhi Gas Turbine	282	114	191	3.90	162
	Pragati Gas Turbine	330	304	312	7.33	305
	Rithala GPS	108	27	29	0.64	27
	Bawana GPS	440	0	0	1.72	72
	Badarpur TPS (NTPC)	705	195	365	5.77	240
	Thermal (Total)	2000	746	997	21.83	909
	Total Delhi	2000	746	997	21.83	909
HP	Baspa HPS (IPP)	330	118	59	2.05	85
	Malana HPS (IPP)	101	3	0	0.45	19
	Other Hydro	571	261	225	6.01	250
	Total HP	1002	382	284	9	355
J & K	Baglihar HPS (IPP)	450	254	252	5.64	235
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	384	413	9.34	389
Total State Control Area Generation		27191	13845	14439	336.07	13825
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			444	2387	42.18	1758
Total Regional Availability(Gross)		47816	30951	27895	665.32	27544

IV. Total Hydro Generation:

Regional Entities Hydro	9983	7026	1627	79.67	3320
State Control Area Hydro	5365	1818	1688	51.50	2146
Total Regional Hydro	15347	8844	3315	131.17	5465

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	-400	-500	0	500	0.00	5.24	-5.24
Gwalior-Agra (D/C)	554	1230	1428	0	23.09	0.00	23.09
Zerda-Kankroli	-106	18	108	229	0.00	1.23	-1.23
Zerda-Bhinmal	-33	77	209	158	0.91	0.00	0.91
Malanpur-Auraiya	-71	10	0	78	0.00	0.41	-0.41
Badod-Kota/Morak	-32	-30	14	77	0.00	0.83	-0.83
Sub Total WR	-88	805			24.00	7.71	16.29
Pusauli Bypass	-178	13	109	178	0.50	1.20	-0.70
MZP- GKP (D/C)	216	818	874	0	10.66	0.00	10.66
Patna-Balia(D/C)	201	129	344	0	4.40	0.00	4.40
B'Sharif-Balia (D/C)	155	305	403	0	6.16	0.00	6.16
Barh - balia(D/C)	0	218	340	0	3.24	0.00	3.24
Pusauli-Sahupuri	169	135	169	0	3.03	0.00	3.03
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-36	0	40	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	532	1582			27.99	2.10	25.89
Total IR Exch	444	2387			51.99	9.81	42.18

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
17.76	1.55	19.31	-1.45	14.13	-0.81	4.56	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
17.05	13.48	30.53	25.89	16.29	42.18	8.84	2.81	11.65

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	0.10	6.40	96.10	89.80	36.80	3.80

<----- 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				
50.43	7.06	49.48	20.34	49.95	0.23	0.14	50.37	49.72

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	413	16:04	403	01:21	0.0	0.0	0.0	0.0
Gorakhpur	400	428	14:31	401	17:53	0.0	0.0	23.0	0.0
Bareilly	400	427	07:05	404	17:55	0.0	0.0	2.4	0.0
Kanpur	400	420	07:03	407	08:26	0.0	0.0	0.0	0.0
Dadri	400	418	07:05	407	08:23	0.0	0.0	0.0	0.0
Ballabgarh	400	421	03:16	409	09:07	0.0	0.0	1.8	0.0
Bawana	400	422	16:04	409	08:21	0.0	0.0	6.9	0.0
Bassi	400	432	15:38	406	08:23	0.0	0.0	39.0	1.7
Hissar	400	416	23:39	397	08:21	0.0	0.0	0.0	0.0
Moga	400	424	03:13	401	08:30	0.0	0.0	13.3	0.0
Abdullapur	400	426	16:03	409	19:39	0.0	0.0	26.2	0.0
Nalagarh	400	434	04:23	415	18:56	0.0	0.0	19.8	3.0
Kishenpur	400	422	03:11	397	18:24	0.0	0.0	1.9	0.0
Wagoora	400	408	03:15	371	18:48	12.7	35.8	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	510.25	1560.04	512.05	1650.57	290.93	346.03
Pong	426.72	384.05	421.85	975.89	423.34	1051.02	75.12	327.85
Tehri	829.79	740.04	818.30	968.26	NA	NA	107.41	222.00
Koteshwar	612.50	598.50	607.60	3.54	NA	NA	222.00	159.00
Chamera-I	760.00	748.75	753.08	NA	751.84	NA	99.87	75.24
Rihand	268.22	252.98	NA	NA	258.04	208.70	NA	NA
RPS	352.80	343.81	350.56	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.55	NA	NA	NA	NA	NA
RSD	527.91	487.91	521.82	NA	521.99	NA	126.58	230.24

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 27.10.2011 :
Normal weather

XII. Synchronisation of new generating units :

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 : 27.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER