

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.10.2011
Date of Reporting : 14.10.2011

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
29222	4135	33357	0.00	27217	5568	32785	49.49	676.4	108.30

* 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	54.32	9.80		64.12	58.14	52.89	-5.25	117.01	7.30
Haryana	65.92	1.19		67.11	34.92	33.33	-1.59	100.44	17.92
Rajasthan	84.73	0.04	3.08	87.85	28.11	27.28	-0.83	115.13	27.51
Delhi	25.27			25.27	53.87	51.20	-2.66	76.47	1.51
UP	64.22	12.34	1.20	77.75	93.66	108.18	14.53	185.94	48.42
Uttarakhand		16.42		16.42	7.45	9.66	2.21	26.08	3.30
HP		11.20		11.20	10.85	10.23	-0.62	21.43	0.75
J & K		12.18	0.00	12.18	13.91	17.53	3.62	29.72	1.60
Chandigarh				0.00	4.66	4.21	-0.45	4.21	0.00
Total	294.45	63.17	4.28	361.90	305.56	314.51	8.95	676.41	108.30

* 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	5149	300	-264	725	4602	200	-204	701	16.71
Haryana	4282	935	-113	133	3997	633	52	124	2.59
Rajasthan	4886	688	-6	-182	4587	2495	-70	-175	-4.23
Delhi	3635	167	146	-180	2781	0	-240	40	-2.26
UP	7497	1815	234	769	8252	2160	1452	769	18.44
Uttarakhand	1104	230	51	-49	985	80	45	-49	-1.18
HP	1117	0	138	-439	787	0	-95	9	-1.35
J&K	1322	0	59	-208	1086	0	172	-208	-4.99
Chandigarh	230	0	-2	7	140	0	-27	7	0.17
Total	29222	4135	243	576	27217	5568	1085	1218	23.89

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

III. Regional Entities :

Entity	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	
										UI
A. NTPC	Singrauli STPS	2000	1490	1607	1619	36.40	1517	35.76	0.64	
	Rihand I STPS	1000	940	1022	965	22.67	945	22.56	0.11	
	Rihand II STPS	1000	475	510	514	11.48	478	11.40	0.08	
	Dadri I STPS	840	720	838	715	18.42	768	17.28	1.14	
	Dadri II STPS	980	829	969	752	19.91	830	19.91	0.01	
	Unchahar I TPS	440	360	419	359	8.70	363	8.64	0.06	
	Unchahar II TPS	440	192	211	210	4.64	193	4.61	0.03	
	Unchahar III TPS	210	192	213	213	4.69	196	4.61	0.08	
	ISTPP (Jhajihar)	500	312	346	338	7.68	320	7.48	0.20	
	Dadri GPS	830	769	782	801	18.32	763	18.33	-0.01	
	Anta GPS	419	381	380	393	9.14	381	9.07	0.07	
	Auraiya GPS	663	600	610	622	14.36	598	14.28	0.08	
	Sub Total (A)	9322	7261	7907	7501	176.42	7351	173.92	2.50	
	B. NPC	NAPS	440	187	228	224	4.56	190	4.49	0.07
		RAPS- B	440	407	446	445	9.67	403	9.77	-0.10
RAPS- C		440	420	451	469	10.09	420	10.08	0.01	
Sub Total (B)		1320	1014	1125	1138	24.32	1013	24.34	-0.02	
C. NHPC	Chamera I HPS	540	534	540	0	3.77	157	3.99	-0.22	
	Chamera II HPS	300	297	222	20	3.11	129	3.15	-0.04	
	Bairasuil HPS	180	120	120	0	1.14	48	1.12	0.02	
	Salal-HPS	690	290	358	230	6.87	286	6.95	-0.08	
	Tanakpur-HPS	94	73	86	88	2.05	86	2.06	-0.01	
	Uri-HPS	480	187	240	163	4.74	198	4.87	-0.13	
	Dhauliganga-HPS	280	277	248	0	3.13	131	3.19	-0.06	
	Dulhasti-HPS	390	388	415	218	8.11	338	8.22	-0.11	
	Sewa-II HPS	120	119	119	0	0.69	29	0.77	-0.09	
	Sub Total (C)	3074	2285	2348	719	33.60	1400	34.32	-0.72	
D.NJPC	Nathpa Jhakri	1500	1600	1558	235	16.41	684	16.41	0.00	
	Sub Total (D)	1500	1600	1558	235	16.41	684	16.41	0.00	
E. THDC	Tehri HPS	1000	1050	1049	0	8.18	341	8.00	0.18	
	Koteshwar HPS	100	88	158	90	2.95	123	2.11	0.84	
Sub Total (E)	1100	1138	1207	90	11.13	464	10.11	1.02		
F. BBMB	Bhakra HPS	1480	701	942	645	17.63	735	16.81	0.82	
	Dehar HPS	990	334	495	290	8.16	340	8.01	0.15	
	Pong HPS	396	109	246	0	2.76	115	2.63	0.13	
	Sub Total (F)	2866	1144	1683	935	28.55	1190	27.45	1.10	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	29	29	0.71	29	0.68	0.03	
	KWHEP HPS(IPP)	1000	0	644	245	8.99	375	8.16	0.83	
	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	0.00	0.00	
Sub Total (G)	1442	0	673	274	9.70	404	8.84	0.86		
H. Total Regional Entities (A-G)	20625	14441	16501	10892	300.13	12505	295.38	4.75		

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	1255.00	1260.00	28.23	1176
	Guru Nanak Dev TPS(Bhatinda)	440	202.00	240.00	4.83	201
	Guru Hargobind Singh TPS(L.mbt)	920	959.00	950.00	21.27	886
	Thermal (Total)	2620	2416.00	2450.00	54.32	2263
	Total Hydro	1148	310.00	188.00	9.80	408
Total Punjab	3768	2726	2638	64.12	2672	
Haryana	Panipat TPS	1360	1132.00	1078.00	26.92	1122
	DCRTPP (Yamuna nagar)	600	280.00	284.00	6.60	275
	Faridabad GPS (NTPC)	432	393.00	407.00	9.50	396
	RGTPP (khedar) (IPP)	1200	892.00	827.00	22.90	954
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2697.00	2596.00	65.92	2747
	Total Hydro	62	46.00	46.00	1.19	50
	Total Haryana	3679	2743	2642	67.11	2796
Rajasthan	kota TPS	1240	1156.00	1154.00	27.59	1150
	suratgarh TPS	1500	1169.00	1154.00	27.13	1130
	Chabra TPS	500	443.00	442.00	10.70	446
	Dholpur GPS	330	284.00	285.00	6.82	284
	Ramgarh GPS	113	53.00	53.00	1.37	57
	RAPS A (NPC)	300	151.00	173.00	4.28	178
	Barsingsar (NLC)	250	42.00	42.00	0.87	36
	Giral LTPS (IPP)	250	40.00	45.00	1.53	64
	Rajwst LTPS (IPP)	135	147.00	117.00	4.46	186
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3485.00	3465.00	84.73	3530
	Total Hydro	550	23.00	0.00	0.04	2
	Wind power	1294	14.00	144.00	2.46	102
	Biomass	71	26.00	26.00	0.62	26
	Renewable/Others (Total)	1365	40	170	3.08	128
	Total Rajasthan	6668	3548	3635	87.85	3661
UP	Anpara TPS	1630	1126	1002	25.60	1067
	Obra TPS	1442	521	533	13.00	542
	Paricha TPS	640	280	304	7.00	292
	Panki TPS	210	0	122	2.30	96
	Harduaganj TPS	375	40	40	0.90	38
	Tanda TPS (NTPC)	440	369	318	8.63	359
	Roza TPS (IPP)	600	284	284	6.79	283
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	2620	2603	64.22	2676
	Vishnuparyag HPS (IPP)	400	327	330	7.54	314
	Other Hydro	527	145	0	4.80	200
	Cogeneration	951	50	50	1.20	50
	Total UP	7815	3142	2983	77.75	2926
	Uttarakhand	Total Hydro	1303	699	717	16.42
Total Uttarakhand		1303	699	717	16.42	684
Delhi	Rajghat TPS	135	105	104	2.56	107
	Delhi Gas Turbine	282	150	160	3.75	156
	Pragati Gas Turbine	330	295	285	7.14	297
	Rithala GPS	108	26	29	0.64	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	490	540	11.18	466
	Thermal (Total)	2000	1066	1118	25.27	1053
	Total Delhi	2000	1066	1118	25.27	1053
HP	Baspa HPS (IPP)	330	63	138	2.90	121
	Malana HPS (IPP)	101	32	28	0.49	20
	Other Hydro	571	320	371	7.81	326
	Total HP	1002	415	537	11	467
J & K	Baglihar HPS (IPP)	450	354	352	8.48	354
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	484	513	12.18	508
Total State Control Area Generation		27191	14823	14783	361.90	14765
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			339	2114	30.91	1288
Total Regional Availability(Gross)		47816	31663	27789	692.93	28558

IV. Total Hydro Generation:

Regional Entities Hydro	9983	7469	2253	99.39	4141
State Control Area Hydro	5365	2122	2001	55.63	2318
Total Regional Hydro	15347	9591	4254	155.02	6459

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	0	-200	0	200	0.00	1.39	-1.39
Gwalior-Agra (D/C)	338	1012	1500	92	17.55	0.00	17.55
Zerda-Kankroli	-203	-59	0	309	0.00	3.67	-3.67
Zerda-Bhinmal	-106	-5	92	249	0.00	1.93	-1.93
Malanpur-Auraiya	-128	-36	0	206	0.00	1.76	-1.76
Badod-Kota/Morak	-191	-90	0	171	0.00	2.88	-2.88
Sub Total WR	-290	622			17.55	11.63	5.92
Pusauli Bypass	0	225	225	148	1.96	0.28	1.67
MZP- GKP (D/C)	372	646	646	0	11.72	0.00	11.72
Patna-Balia(D/C)	72	235	253	0	3.90	0.00	3.90
B'Sharif-Balia (D/C)	83	333	355	0	5.57	0.00	5.57
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	134	92	166	0	3.01	0.00	3.01
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-39	0	40	0.00	0.88	-0.88
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	629	1492			26.16	1.17	24.99
Total IR Exch	339	2114			43.71	12.80	30.91

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
12.87	2.25	15.11	2.81	20.99	-11.29	-2.75	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
6.63	14.10	20.73	24.99	5.92	30.91	18.36	-8.18	10.18

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	3.60	10.80	46.20	80.40	53.50	19.30	1.80	0.30

<----- 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				
50.45	18.47	48.80	5.44	49.50	3.11	0.25	49.92	0.00

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	417	17:02	411	05:24	0.0	0.0	0.0	0.0
Gorakhpur	400	424	13:02	400	05:38	0.0	0.0	7.2	0.0
Bareilly	400	422	07:04	396	05:22	0.0	0.0	0.7	0.0
Kanpur	400	418	07:04	397	09:26	0.0	0.0	0.0	0.0
Dadri	400	415	07:03	395	10:42	0.0	0.0	0.0	0.0
Ballabgarh	400	418	07:03	394	10:44	0.0	0.0	0.0	0.0
Bawana	400	418	07:04	397	10:41	0.0	0.0	0.0	0.0
Bassi	400	426	07:04	397	10:42	0.0	0.0	4.7	0.0
Hissar	400	410	03:43	392	09:31	0.0	0.0	0.0	0.0
Moga	400	418	03:48	399	10:43	0.0	0.0	0.0	0.0
Abdullapur	400	416	03:18	396	10:42	0.0	0.0	0.0	0.0
Nalagarh	400	427	03:48	405	10:46	0.0	0.0	19.8	0.0
Kishenpur	400	420	03:14	402	10:46	0.0	0.0	0.0	0.0
Wagoora	400	410	03:37	378	07:30	2.6	35.6	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	510.44	1575.10	512.15	1650.87	398.93	547.70
Pong	426.72	384.05	422.67	1020.81	424.12	1082.23	86.62	145.61
Tehri	829.79	740.04	819.15	982.26	NA	NA	168.00	192.00
Koteshwar	612.50	598.50	607.40	3.32	NA	NA	192.00	181.00
Chamera-I	760.00	748.75	753.50	NA	NA	NA	154.57	167.77
Rihand	268.22	252.98	265.51	650.20	258.14	846.90	NA	NA
RPS	352.80	343.81	350.19	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.46	NA	NA	NA	NA	NA
RSD	527.91	487.91	522.49	NA	522.88	NA	147.42	289.43

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 13.10.2011 :

Normal weather

XII. Synchronisation of new generating units :

ICT-1 at Daultabad charged at 23.00 hrs.

XIII. Synchronisation of new 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 : 13.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER