

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.10.2011
Date of Reporting : 13.10.2011

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
28677	5104	33781	49.71	26486	4915	31401	49.09	666.2	115.13

* 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	53.53	12.77		66.30	56.66	52.98	-3.68	119.28	7.30
Haryana	66.41	1.19		67.60	33.23	33.38	0.15	100.99	16.52
Rajasthan	82.92	0.00	2.03	84.95	25.99	25.19	-0.80	110.14	30.57
Delhi	24.86			24.86	51.11	48.17	-2.94	73.03	4.45
UP	66.98	14.50	1.20	82.67	84.56	99.26	14.70	181.93	49.68
Uttarakhand		16.45		16.45	6.14	10.06	3.91	26.51	3.88
HP		11.15		11.15	10.42	10.20	-0.22	21.35	1.13
J & K		12.19	0.00	12.19	12.69	16.57	3.88	28.77	1.60
Chandigarh				0.00	4.28	4.24	-0.04	4.24	0.00
Total	294.70	68.25	3.23	366.18	285.08	300.04	14.96	666.22	115.13

* 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	5175	300	-341	744	4663	200	-77	714	17.28
Haryana	4172	953	-11	168	3648	944	-243	158	3.41
Rajasthan	4687	1537	-65	-172	4457	1171	96	-160	-3.91
Delhi	3530	389	97	-180	2589	0	-275	-39	-2.98
UP	7295	1695	24	823	8131	2520	1431	823	19.74
Uttarakhand	1137	230	148	-49	1022	80	215	-49	-1.18
HP	1019	0	107	-440	762	0	18	10	-1.58
J&K	1429	0	217	-208	1079	0	155	-208	-4.99
Chandigarh	233	0	9	7	135	0	-17	7	0.17
Total	28677	5104	185	692	26486	4915	1303	1255	25.96

* 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	1148	1430	938	28.04	1168	27.54	0.49
	Rihand I STPS	1000	571	856	510	13.85	577	13.70	0.15
	Rihand II STPS	1000	475	512	511	11.53	480	11.40	0.13
	Dadri I STPS	840	729	843	709	18.83	784	17.49	1.34
	Dadri II STPS	980	819	971	756	19.88	828	19.65	0.23
	Unchahar I TPS	440	203	217	214	4.79	200	4.87	-0.08
	Unchahar II TPS	440	187	204	210	4.57	191	4.48	0.09
	Unchahar III TPS	210	183	183	213	4.38	182	4.40	-0.02
	ISTPP (Jhajihar)	500	242	339	75	5.92	247	5.80	0.12
	Dadri GPS	830	768	783	790	18.31	763	18.43	-0.12
	Anta GPS	419	378	379	390	9.15	381	9.08	0.08
	Auraiya GPS	663	599	606	683	14.41	601	14.36	0.06
	Sub Total (A)	9322	6300	7323	5999	153.66	6403	151.19	2.47
B. NPC	NAPS	440	187	230	217	4.58	191	4.49	0.09
	RAPS- B	440	398	441	446	9.51	396	9.55	-0.05
	RAPS- C	440	420	470	471	10.11	421	10.08	0.03
	Sub Total (B)	1320	1005	1141	1134	24.20	1008	24.12	0.08
C. NHPC	Chamera I HPS	540	534	540	0	3.72	155	3.88	-0.16
	Chamera II HPS	300	260	138	20	3.22	134	2.98	0.24
	Bairasuil HPS	180	120	60	0	1.14	47	1.08	0.06
	Salal-HPS	690	296	342	342	7.10	296	7.08	0.02
	Tanakpur-HPS	94	84	85	85	2.10	88	2.06	0.04
	Uri-HPS	480	200	150	204	4.91	205	4.95	-0.04
	Dhauliganga-HPS	280	277	281	0	2.56	107	2.55	0.02
	Dulhasti-HPS	390	388	332	263	8.28	345	8.18	0.10
	Sewa-II HPS	120	119	100	0	0.64	27	0.70	-0.06
	Sub Total (C)	3074	2277	2028	914	33.67	1403	33.44	0.22
D. NJPC	Nathpa Jhakri	1500	1600	1597	401	17.32	722	17.01	0.31
	Sub Total (D)	1500	1600	1597	401	17.32	722	17.01	0.31
E. THDC	Tehri HPS	1000	1050	1049	0	8.65	360	8.50	0.15
	Koteshwar HPS	100	87	90	151	2.73	114	2.09	0.64
	Sub Total (E)	1100	1137	1139	151	11.38	474	10.59	0.79
F. BBMB	Bhakra HPS	1480	774	915	810	19.08	795	18.58	0.50
	Dehar HPS	990	339	495	165	8.61	359	8.14	0.47
	Pong HPS	396	102	246	66	2.61	109	2.45	0.16
	Sub Total (F)	2866	1215	1656	1041	30.30	1263	29.17	1.13
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	31	30	0.74	31	0.71	0.03
	KWHEP HPS(IPP)	1000	0	700	450	9.21	384	8.23	0.97
	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	731	480	9.95	414	8.94	1.00
H. Total Regional Entities (A-G)		20625	13534	15615	10120	280.47	11686	274.46	6.02

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	1250.00	28.07	1170
	Guru Nanak Dev TPS(Bhatinda)	440	232.00	177.00	4.23	176
	Guru Hargobind Singh TPS(L.mbt)	920	958.00	949.00	21.23	885
	Thermal (Total)	2620	2445.00	2376.00	53.53	2230
	Total Hydro	1148	422.00	210.00	12.77	532
	Total Punjab	3768	2867	2586	66.30	2763
Haryana	Panipat TPS	1360	1107.00	1157.00	27.61	1150
	DCRTPP (Yamuna nagar)	600	281.00	247.00	6.59	274
	Faridabad GPS (NTPC)	432	216.00	403.00	9.01	375
	RGTPP (khedar) (IPP)	1200	909.00	882.00	23.20	967
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2513.00	2689.00	66.41	2767
	Total Hydro	62	46.00	45.00	1.19	50
	Total Haryana	3679	2559	2734	67.60	2817
Rajasthan	kota TPS	1240	1162.00	1160.00	27.33	1139
	suratgarh TPS	1500	1148.00	1149.00	27.20	1133
	Chabra TPS	500	443.00	425.00	10.65	444
	Dholpur GPS	330	279.00	276.00	6.85	285
	Ramgarh GPS	113	53.00	62.00	1.37	57
	RAPS A (NPC)	300	157.00	178.00	4.29	179
	Barsingsar (NLC)	250	45.00	30.00	0.82	34
	Giral LTPS (IPP)	250	47.00	54.00	1.46	61
	Rajwst LTPS (IPP)	135	112.00	100.00	2.96	123
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3446.00	3434.00	82.92	3455
	Total Hydro	550	0.00	0.00	0.00	0
	Wind power	1294	25.00	134.00	1.45	61
	Biomass	71	24.00	24.00	0.58	24
	Renewable/Others (Total)	1365	49	158	2.03	85
	Total Rajasthan	6668	3495	3592	84.95	3539
	UP	Anpara TPS	1630	1268	1235	29.20
Obra TPS		1442	417	547	12.70	529
Paricha TPS		640	305	363	7.20	300
Panki TPS		210	133	54	2.30	96
Harduaganj TPS		375	40	42	0.90	38
Tanda TPS (NTPC)		440	321	320	7.89	329
Roza TPS (IPP)		600	284	284	6.79	283
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2768	2845	66.98	2791
Vishnuparyag HPS (IPP)		400	327	326	7.31	305
Other Hydro		527	274	0	7.18	299
Cogeneration		951	50	50	1.20	50
Total UP		7815	3419	3221	82.67	3140
Uttarakhand		Total Hydro	1303	665	648	16.45
	Total Uttarakhand	1303	665	648	16.45	685
Delhi	Rajghat TPS	135	108	105	2.49	104
	Delhi Gas Turbine	282	159	158	3.80	158
	Pragati Gas Turbine	330	292	299	7.11	296
	Rithala GPS	108	26	29	0.63	26
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	535	505	10.84	452
	Thermal (Total)	2000	1120	1096	24.86	1036
	Total Delhi	2000	1120	1096	24.86	1036
HP	Baspa HPS (IPP)	330	61	112	2.67	111
	Malana HPS (IPP)	101	38	33	0.81	34
	Other Hydro	571	317	279	7.68	320
	Total HP	1002	416	424	11	465
J & K	Baglihar HPS (IPP)	450	353	354	8.49	354
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	483	515	12.19	508
Total State Control Area Generation		27191	15024	14816	366.18	14953
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			593	2221	36.98	1541
Total Regional Availability(Gross)		47816	31232	27157	683.63	28180

IV. Total Hydro Generation:

Regional Entities Hydro	9983	7151	2987	102.61	4275
State Control Area Hydro	5365	2306	1842	60.94	2539
Total Regional Hydro	15347	9457	4829	163.55	6814

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	-200	-200	0	200	0.00	3.66	-3.66
Gwalior-Agra (D/C)	481	1083	1238	0	19.48	0.00	19.48
Zerda-Kankroli	-184	11	11	293	0.00	3.10	-3.10
Zerda-Bhinmal	-98	59	113	212	0.00	1.13	-1.13
Malanpur-Auraiya	-57	-8	0	162	0.00	1.12	-1.12
Badod-Kota/Morak	-98	-80	0	155	0.00	2.17	-2.17
Sub Total WR	-156	865			19.48	11.17	8.31
Pusauli Bypass	17	107	318	117	3.19	0.28	2.91
MZP- GKP (D/C)	434	608	760	0	14.39	0.00	14.39
Patna-Balia(D/C)	74	240	257	0	4.08	0.00	4.08
B'Sharif-Balia (D/C)	123	357	381	0	5.49	0.00	5.49
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	133	83	159	0	2.69	0.00	2.69
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	749	1356			29.84	1.17	28.67
Total IR Exch	593	2221			49.32	12.34	36.98

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
9.17	2.32	11.48	3.62	22.25	-8.89	-4.63	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
6.22	14.31	20.52	28.67	8.31	36.98	22.46	-6.00	16.45

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
0.88	11.38	26.82	59.47	86.96	40.53	13.04	0.35	0.00

<----- 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				
50.08	18.47	48.69	14.54	49.40	4.38	0.28	49.83	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	418	10:39	409	16:31	0.0	0.0	0.0	0.0
Gorakhpur	400	436	13:05	405	14:51	0.0	0.0	36.4	1.2
Bareilly	400	423	15:55	396	13:42	0.0	0.0	1.9	0.0
Kanpur	400	420	21:46	400	09:10	0.0	0.0	0.0	0.0
Dadri	400	414	00:42	399	09:39	0.0	0.0	0.0	0.0
Ballabgarh	400	418	15:34	400	09:40	0.0	0.0	0.0	0.0
Bawana	400	417	15:33	402	12:18	0.0	0.0	0.0	0.0
Bassi	400	426	15:59	402	07:39	0.0	0.0	15.6	0.0
Hissar	400	413	15:56	395	13:40	0.0	0.0	0.0	0.0
Moga	400	418	03:37	402	12:18	0.0	0.0	0.0	0.0
Abdullapur	400	416	15:56	281	06:44	0.1	0.1	0.0	0.0
Nalagarh	400	425	03:50	407	19:10	0.0	0.0	10.1	0.0
Kishenpur	400	420	03:32	400	18:53	0.0	0.0	0.0	0.0
Wagoora	400	404	17:59	374	19:34	17.9	42.3	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	510.52	1575.10	512.15	1650.87	396.97	672.52
Pong	426.72	384.05	422.69	1020.81	424.21	1098.31	82.15	183.24
Tehri	829.79	740.04	819.20	982.26	NA	NA	140.81	192.00
Koteshwar	612.50	598.50	607.50	3.32	NA	NA	192.00	169.00
Chamera-I	760.00	748.75	753.50	NA	NA	NA	154.57	167.77
Rihand	268.22	252.98	NA	NA	258.10	206.60	NA	NA
RPS	352.80	343.81	350.11	NA	349.08	NA	NA	NA
Jawahar Sagar	298.70	295.78	233.22	NA	297.88	NA	NA	NA
RSD	527.91	487.91	522.92	NA	523.40	NA	155.74	254.99

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.10.2011 :

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 : 12.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER