

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.10.2011
Date of Reporting : 25.10.2011

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
29261	3461	32722	50.00	25752	1742	27494	49.97	660.2	66.03

* 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	50.75	10.48		61.23	39.53	40.12	0.59	101.35	5.40
Haryana	53.33	1.11		54.45	35.60	40.45	4.85	94.90	13.83
Rajasthan	87.43	3.10	4.59	95.11	30.19	31.72	1.53	126.83	12.13
Delhi	20.08			20.08	51.22	47.52	-3.70	67.60	0.03
UP	78.21	9.76	1.20	89.17	104.14	97.31	-6.82	186.48	31.67
Uttarakhand		13.52		13.52	10.41	12.97	2.57	26.50	1.16
HP		9.35		9.35	12.16	12.37	0.21	21.72	0.01
J & K		9.79	0.00	9.79	16.67	21.17	4.50	30.96	1.80
Chandigarh				0.00	4.30	3.82	-0.48	3.82	0.00
Total	289.80	57.11	5.79	352.70	304.22	307.45	3.23	660.15	66.03

* 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	4357	300	-137	-285	4120	0	146	-105	-3.80
Haryana	3601	1515	-319	105	3766	0	182	87	1.95
Rajasthan	5688	184	121	-100	5060	497	102	-100	-2.39
Delhi	3573	2	22	75	1977	0	-192	166	1.99
UP	7811	1300	-790	360	7936	1245	129	510	9.83
Uttarakhand	1324	150	149	30	964	0	106	30	0.71
HP	1088	10	67	-622	715	0	-107	-20	-2.46
J&K	1614	0	218	-29	1107	0	244	-129	-2.48
Chandigarh	205	0	-32	18	107	0	-20	18	0.43
Total	29261	3461	-701	-448	25752	1742	590	458	3.77

* 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
A. NTPC	Singrauli STPS	2000	1697	1819	1812	41.33	1722	40.72	0.60
	Rihand I STPS	1000	955	1041	1038	23.11	963	22.92	0.19
	Rihand II STPS	1000	970	1040	1030	23.48	978	23.28	0.20
	Dadri I STPS	840	677	830	606	16.35	681	16.24	0.11
	Dadri II STPS	980	808	974	701	19.53	814	19.38	0.15
	Unchahar I TPS	440	383	422	420	9.25	385	9.19	0.06
	Unchahar II TPS	440	335	419	240	8.14	339	8.05	0.09
	Unchahar III TPS	210	192	215	218	4.65	194	4.61	0.04
	ISTPP (Jhajjhar)	500	470	419	498	11.14	464	11.23	-0.09
	Dadri GPS	830	799	604	763	15.48	645	15.97	-0.48
	Anta GPS	419	389	316	362	7.56	315	7.37	0.19
	Auraiya GPS	663	621	531	586	12.94	539	12.57	0.37
	Sub Total (A)	9322	8296	8630	8274	192.96	8040	191.54	1.42
	B. NPC	NAPS	440	195	231	230	4.67	195	4.68
RAPS- B		440	409	450	455	9.78	407	9.82	-0.04
RAPS- C		440	420	475	478	10.21	425	10.08	0.13
Sub Total (B)		1320	1024	1156	1163	24.66	1027	24.58	0.08
C. NHPC	Chamera I HPS	540	534	540	0	2.77	116	2.76	0.01
	Chamera II HPS	300	297	226	51	2.65	110	2.67	-0.03
	Bairasuil HPS	180	179	179	0	1.09	45	1.05	0.04
	Salal-HPS	690	221	216	222	5.29	220	5.28	0.00
	Tanakpur-HPS	94	65	63	48	1.57	65	1.58	-0.01
	Uri-HPS	480	164	146	112	4.36	182	4.17	0.20
	Dhauliganga-HPS	280	277	209	0	2.16	90	2.39	-0.23
	Dulhasti-HPS	390	387	287	0	6.14	256	6.20	-0.06
	Sewa-II HPS	120	119	62	0	0.49	20	0.51	-0.02
	Sub Total (C)	3074	2243	1928	433	26.52	1105	26.62	-0.10
D. NJPC	Nathpa Jhakri	1500	1600	1596	0	13.96	581	13.86	0.10
	Sub Total (D)	1500	1600	1596	0	13.96	581	13.86	0.10
E. THDC	Tehri HPS	1000	1050	1050	0	9.97	415	10.00	-0.04
	Koteshwar HPS	100	81	175	87	2.45	102	0.60	1.85
	Sub Total (E)	1100	1131	1225	87	12.42	517	10.60	1.82
F. BBMB	Bhakra HPS	1480	541	762	391	13.43	560	12.99	0.44
	Dehar HPS	990	276	495	305	6.68	278	6.62	0.06
	Pong HPS	396	226	306	126	5.80	242	5.41	0.39
	Sub Total (F)	2866	1042	1563	822	25.91	1080	25.02	0.89
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	84	0	0.71	30	0.69	0.02
	KWHEP HPS(IPP)	1000	0	700	281	8.01	334	8.11	-0.10
	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	784	281	8.72	363	8.80	-0.08
H. Total Regional Entities (A-G)	20625	15336	16882	11060	305.13	12714	301.00	4.13	

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	1045.00	1045.00	23.54	981
	Guru Nanak Dev TPS(Bhatinda)	440	297.00	297.00	6.06	252
	Guru Hargobind Singh TPS(L.mbt)	920	967.00	933.00	21.16	882
	Thermal (Total)	2620	2309.00	2275.00	50.75	2115
	Total Hydro	1148	326.00	222.00	10.48	437
	Total Punjab	3768	2635	2497	61.23	2551
Haryana	Panipat TPS	1360	1147.00	1174.00	27.81	1159
	DCRTPP (Yamuna nagar)	600	272.00	266.00	6.61	275
	Faridabad GPS (NTPC)	432	317.00	345.00	8.08	337
	RGTPP (khedar) (IPP)	1200	392.00	443.00	10.83	451
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2128.00	2228.00	53.33	2222
	Total Hydro	62	46.00	43.00	1.11	46
	Total Haryana	3679	2174	2271	54.45	2269
Rajasthan	kota TPS	1240	1171.00	1168.00	27.59	1150
	suratgarh TPS	1500	1145.00	1131.00	26.76	1115
	Chabra TPS	500	394.00	434.00	9.70	404
	Dholpur GPS	330	286.00	286.00	6.98	291
	Ramgarh GPS	113	65.00	65.00	1.60	67
	RAPS A (NPC)	300	170.00	174.00	4.30	179
	Barsingsar (NLC)	250	134.00	120.00	3.05	127
	Giral LTPS (IPP)	250	95.00	104.00	2.32	97
	Rajwest LTPS (IPP)	135	246.00	246.00	5.12	213
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3706.00	3728.00	87.43	3643
	Total Hydro	550	174.00	27.00	3.10	129
	Wind power	1294	198.00	140.00	3.89	162
	Biomass	71	31.00	31.00	0.70	29
	Renewable/Others (Total)	1365	229	171	4.59	191
	Total Rajasthan	6668	4109	3926	95.11	3963
	UP	Anpara TPS	1630	1517	1507	32.50
Obra TPS		1442	635	685	14.30	596
Paricha TPS		640	409	326	8.00	333
Panki TPS		210	0	0	0.00	0
Harduaganj TPS		375	130	209	2.90	121
Tanda TPS (NTPC)		440	389	389	9.56	398
Roza TPS (IPP)		600	284	275	6.74	281
Anpara-C (IPP)		600	261	0	4.21	176
Thermal (Total)		5937	3625	3391	78.21	3259
Vishnuparyag HPS (IPP)		400	194	194	4.56	190
Other Hydro		527	265	0	5.20	217
Cogeneration		951	50	50	1.20	50
Total UP		7815	4134	3635	89.17	3526
Uttarakhand	Total Hydro	1303	624	532	13.52	563
	Total Uttarakhand	1303	624	532	13.52	563
Delhi	Rajghat TPS	135	98	107	2.76	115
	Delhi Gas Turbine	282	188	188	4.41	184
	Pragati Gas Turbine	330	298	309	7.44	310
	Rithala GPS	108	22	29	0.62	26
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	205	235	4.86	202
	Thermal (Total)	2000	811	868	20.08	837
	Total Delhi	2000	811	868	20.08	837
HP	Baspa HPS (IPP)	330	62	31	2.19	91
	Malana HPS (IPP)	101	6	0	0.48	20
	Other Hydro	571	291	271	6.68	278
	Total HP	1002	359	302	9	390
J & K	Baglihar HPS (IPP)	450	254	253	6.09	254
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	384	414	9.79	408
Total State Control Area Generation		27191	15230	14445	352.70	14506
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-919	950	22.49	937
Total Regional Availability(Gross)		47816	31193	26455	680.32	28156

IV. Total Hydro Generation:

Regional Entities Hydro	9983	7096	1623	87.52	3647
State Control Area Hydro	5365	2178	1540	52.55	2190
Total Regional Hydro	15347	9274	3163	140.07	5836

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	-500	-500	0	500	0.00	5.67	-5.67
Gwalior-Agra (D/C)	-68	636	872	68	11.83	0.00	11.83
Zerda-Kankroli	-230	-197	0	283	0.00	4.52	-4.52
Zerda-Bhinmal	-185	-143	0	322	0.00	2.82	-2.82
Malanpur-Auraiya	-225	-117	0	222	0.00	2.89	-2.89
Badod-Kota/Morak	-169	-91	0	177	0.00	2.78	-2.78
Sub Total WR	-1377	-412			11.83	18.67	-6.84
Pusauli Bypass	-231	-26	45	275	0.12	3.33	-3.21
MZP- GKP (D/C)	220	582	848	0	15.05	0.00	15.05
Patna-Balia(D/C)	185	352	407	0	7.82	0.00	7.82
B' Sharif-Balia (D/C)	175	351	574	0	7.61	0.00	7.61
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	141	142	156	0	2.94	0.00	2.94
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	458	1362			33.54	4.21	29.33
Total IR Exch	-919	950			45.37	22.89	22.49

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
18.77	1.74	20.51	2.74	2.92	-2.05	-0.59	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
21.20	-3.39	17.81	29.33	-6.84	22.49	8.13	-3.46	4.67

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	9.70	45.50	90.30	54.50	3.10	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.20	14.58	49.23	18.26	49.72	1.04	0.16	50.03	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	412	07:59	405	12:16	0.0	0.0	0.0	0.0
Gorakhpur	400	434	08:02	399	05:46	0.0	0.0	65.7	6.7
Bareilly	400	422	08:03	398	12:16	0.0	0.0	0.7	0.0
Kanpur	400	417	02:24	400	09:16	0.0	0.0	0.0	0.0
Dadri	400	418	02:24	397	10:41	0.0	0.0	0.0	0.0
Ballabgarh	400	422	03:30	398	11:29	0.0	0.0	7.7	0.0
Bawana	400	422	02:29	399	12:14	0.0	0.0	8.4	0.0
Bassi	400	426	02:24	402	09:16	0.0	0.0	11.4	0.0
Hissar	400	414	02:07	393	09:17	0.0	0.0	0.0	0.0
Moga	400	424	02:03	401	09:18	0.0	0.0	8.3	0.0
Abdullapur	400	423	02:21	400	09:18	0.0	0.0	9.5	0.0
Nalagarh	400	433	02:48	407	09:18	0.0	0.0	36.4	7.9
Kishenpur	400	428	02:01	397	19:11	0.0	0.0	12.6	0.0
Wagoora	400	417	02:07	385	14:49	0.0	11.7	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 (m ³ /s)	Usage (m ³ /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
Koteswar	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 24.10.2011 :

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 : 24.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER