

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.10.2011
Date of Reporting : 10.10.2011

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
29174	4495	33669	49.73	27159	4564	31723	49.21	668.3	108.67

* 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	55.60	13.38		68.98	61.59	57.34	-4.25	126.32	7.30
Haryana	54.48	1.17		55.65	40.03	42.91	2.89	98.56	18.30
Rajasthan	77.77	0.12	2.34	80.23	30.93	26.04	-4.88	106.28	30.55
Delhi	25.25			25.25	46.38	45.85	-0.52	71.10	2.33
UP	70.65	13.48	1.20	85.33	88.03	102.80	14.77	188.13	46.39
Uttarakhand		17.00		17.00	7.95	7.94	-0.01	24.94	2.69
HP		12.66		12.66	8.23	7.92	-0.31	20.58	0.31
J & K		14.26	0.00	14.26	11.52	14.32	2.80	28.58	0.80
Chandigarh				0.00	4.76	3.78	-0.98	3.78	0.00
Total	283.75	72.08	3.54	359.37	299.41	308.90	9.49	668.27	108.67

* 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	5604	300	-228	768	5133	200	-142	768	18.44
Haryana	4318	987	210	176	3971	750	167	176	3.76
Rajasthan	4599	1402	-101	-118	4396	1143	-167	-118	-2.82
Delhi	3446	1	-66	-80	2754	156	-7	61	-1.01
UP	7258	1645	-402	782	7896	2315	1027	782	18.76
Uttarakhand	1208	160	84	-49	1020	0	102	-49	-1.18
HP	1073	0	109	-436	797	0	-45	-1	-2.69
J&K	1477	0	275	-253	1047	0	113	-253	-6.07
Chandigarh	191	0	-52	18	145	0	-30	18	0.43
Total	29174	4495	-171	809	27159	4564	1018	1385	27.63

* 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	1445	1635	1547	35.31	1471	34.68	0.64
	Rihand I STPS	1000	541	598	508	13.20	550	12.99	0.21
	Rihand II STPS	1000	475	514	512	11.51	480	11.40	0.11
	Dadri I STPS	840	585	827	604	15.84	660	14.04	1.80
	Dadri II STPS	980	664	980	696	16.06	669	15.93	0.13
	Unchahar I TPS	440	170	194	190	4.12	172	4.08	0.04
	Unchahar II TPS	440	170	187	188	4.08	170	4.08	0.00
	Unchahar III TPS	210	170	188	191	4.11	171	4.08	0.03
	ISTPP (Jhajjhar)	500	409	446	453	9.90	413	9.79	0.11
	Dadri GPS	830	759	756	792	18.23	759	18.20	0.02
	Anta GPS	419	378	380	391	9.10	379	9.08	0.03
	Auraiya GPS	663	598	603	621	14.33	597	14.36	-0.03
	Sub Total (A)	9322	6364	7308	6693	155.79	6491	152.71	3.09
	B. NPC	NAPS	440	187	216	227	4.53	189	4.49
RAPS- B		440	402	443	445	9.58	399	9.65	-0.06
RAPS- C		440	440	469	468	10.01	417	10.56	-0.55
Sub Total (B)		1320	1029	1128	1140	24.12	1005	24.70	-0.57
C. NHPC	Chamera I HPS	540	534	540	0	5.81	242	5.52	0.30
	Chamera II HPS	300	297	170	47	3.32	138	3.01	0.30
	Bairasui HPS	180	120	70	0	1.26	52	1.21	0.04
	Salal-HPS	690	319	380	342	7.77	324	7.61	0.16
	Tanakpur-HPS	94	91	92	86	2.22	93	2.13	0.09
	Uri-HPS	480	215	240	200	5.19	216	5.19	0.00
	Dhauliganga-HPS	280	277	217	0	2.53	105	2.45	0.08
	Dulhasti-HPS	390	387	386	414	9.31	388	8.24	1.08
	Sewa-II HPS	120	119	110	0	0.94	39	0.88	0.06
	Sub Total (C)	3074	2359	2205	1089	38.34	1598	36.24	2.11
D. NJPC	Nathpa Jhakri	1500	1600	1606	367	19.46	811	19.15	0.31
	Sub Total (D)	1500	1600	1606	367	19.46	811	19.15	0.31
E. THDC	Tehri HPS	1000	1050	1049	0	10.16	423	10.00	0.16
	Koteshwar HPS	100	87	91	92	2.13	89	2.09	0.04
	Sub Total (E)	1100	1137	1140	92	12.28	512	12.09	0.20
F. BBMB	Bhakra HPS	1480	1076	1256	991	26.42	1101	25.82	0.60
	Dehar HPS	990	352	660	495	8.80	367	8.44	0.36
	Pong HPS	396	237	306	186	6.00	250	5.69	0.31
	Sub Total (F)	2866	1665	2222	1672	41.22	1718	39.95	1.27
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	38	38	0.90	38	0.87	0.03
	KWHEP HPS(IPP)	1000	0	707	380	10.09	420	10.08	0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	138	137	3.75	156	0.00	3.75
	Sub Total (G)	1442	0	883	555	14.74	614	10.95	3.79
H. Total Regional Entities (A-G)	20625	14154	16492	11608	305.95	12748	295.78	10.17	

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	1250.00	1250.00	28.05	1169	
	Guru Nanak Dev TPS(Bhatinda)	440	295.00	292.00	6.21	259	
	Guru Hargobind Singh TPS(L.mbt)	920	957.00	966.00	21.33	889	
	Thermal (Total)	2620	2502.00	2508.00	55.60	2316	
	Total Hydro	1148	544.00	380.00	13.38	558	
	Total Punjab	3768	3046	2888	68.98	2874	
Haryana	Panipat TPS	1360	1151.00	1145.00	27.62	1151	
	DCRTPP (Yamuna nagar)	600	234.00	186.00	5.48	229	
	Faridabad GPS (NTPC)	432	397.00	402.00	9.54	398	
	RGTPP (khedar) (IPP)	1200	481.00	459.00	11.83	493	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2263.00	2192.00	54.48	2270	
	Total Hydro	62	46.00	46.00	1.17	49	
	Total Haryana	3679	2309	2238	55.65	2319	
Rajasthan	kota TPS	1240	1059.00	1055.00	25.25	1052	
	suratgarh TPS	1500	1149.00	1178.00	27.20	1134	
	Chabra TPS	500	388.00	445.00	10.04	418	
	Dholpur GPS	330	285.00	270.00	6.57	274	
	Ramgarh GPS	113	62.00	62.00	1.43	60	
	RAPS A (NPC)	300	184.00	181.00	4.34	181	
	Barsingsar (NLC)	250	0.00	0.00	0.00	0	
	Giral LTPS (IPP)	250	138.00	102.00	2.94	122	
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	3265.00	3293.00	77.77	3241	
	Total Hydro	550	18.00	0.00	0.12	5	
	Wind power	1294	0.00	123.00	1.69	70	
	Biomass	71	24.00	24.00	0.66	27	
	Renewable/Others (Total)	1365	24	147	2.34	98	
	Total Rajasthan	6668	3307	3440	80.23	3343	
	UP	Anpara TPS	1630	1342	1263	30.00	1250
		Obra TPS	1442	507	533	13.10	546
Paricha TPS		640	272	279	6.60	275	
Panki TPS		210	135	135	2.90	121	
Harduaganj TPS		375	40	43	0.90	38	
Tanda TPS (NTPC)		440	313	374	8.14	339	
Roza TPS (IPP)		600	283	284	6.79	283	
Anpara-C (IPP)		600	198	91	2.21	92	
Thermal (Total)		5937	3090	3002	70.65	2944	
Vishnuparyag HPS (IPP)		400	307	321	7.55	315	
Other Hydro		527	263	0	5.93	247	
Cogeneration		951	50	50	1.20	50	
Total UP		7815	3710	3373	85.33	3241	
Uttarakhand		Total Hydro	1303	745	677	17.00	708
	Total Uttarakhand	1303	745	677	17.00	708	
Delhi	Rajghat TPS	135	94	99	2.37	99	
	Delhi Gas Turbine	282	157	137	3.57	149	
	Pragati Gas Turbine	330	294	296	7.01	292	
	Rithala GPS	108	26	29	0.56	23	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	540	550	11.75	490	
	Thermal (Total)	2000	1111	1111	25.25	1052	
	Total Delhi	2000	1111	1111	25.25	1052	
HP	Baspa HPS (IPP)	330	80	181	3.37	140	
	Malana HPS (IPP)	101	30	35	0.72	30	
	Other Hydro	571	343	351	8.57	357	
	Total HP	1002	453	567	13	528	
J & K	Baglihar HPS (IPP)	450	442	442	10.56	440	
	Other Hydro	323	130	161	3.70	154	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	572	603	14.26	594	
Total State Control Area Generation		27191	15253	14897	359.37	14659	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			227	1830	25.09	1045	
Total Regional Availability(Gross)		47816	31972	28335	690.41	28452	

IV. Total Hydro Generation:

Regional Entities Hydro	9983	8056	3775	126.04	5252
State Control Area Hydro	5365	2641	2273	64.53	2689
Total Regional Hydro	15347	10697	6048	190.57	7940

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	0	100	0	0.25	0.00	0.25
Gwalior-Agra (D/C)	372	747	920	0	13.75	0.00	13.75
Zerda-Kankroli	-147	-69	0	251	0.00	3.38	-3.38
Zerda-Bhinmal	-4	25	97	180	0.00	0.88	-0.88
Malanpur-Auraiya	-156	-46	0	156	0.00	1.99	-1.99
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	65	657			14.00	6.25	7.75
Pusauli Bypass	-323	3	70	370	0.07	3.40	-3.33
MZP- GKP (D/C)	258	616	740	0	13.64	0.00	13.64
Patna-Balia(D/C)	60	322	329	0	2.06	0.00	2.06
B' Sharif-Balia (D/C)	60	230	268	0	3.88	0.00	3.88
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	139	41	156	0	2.50	0.00	2.50
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-39	0	40	0.00	1.40	-1.40
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	162	1173			22.14	4.80	17.34
Total IR Exch	227	1830			36.14	11.05	25.09

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

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
12.08	2.71	14.78	3.68	18.25	-8.02	-12.25	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
10.44	0.94	11.38	17.34	7.75	25.09	6.90	6.80	13.70

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	17.90	41.00	76.90	91.90	23.10	8.10	0.70	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)
50.08	18.49	48.77	5.29	49.28	5.91	0.28	49.84	48.85

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	09:00	407	18:24	0.0	0.0	0.0	0.0
Gorakhpur	400	431	10:06	408	01:16	0.0	0.0	51.2	0.4
Bareilly	400	425	16:33	396	13:47	0.0	0.0	4.4	0.0
Kanpur	400	419	07:03	406	03:48	0.0	0.0	0.0	0.0
Dadri	400	416	07:02	402	19:16	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:03	406	19:19	0.0	0.0	0.1	0.0
Bawana	400	420	07:03	404	19:09	0.0	0.0	0.0	0.0
Bassi	400	425	01:45	410	10:49	0.0	0.0	19.1	0.0
Hissar	400	413	08:57	397	10:52	0.0	0.0	0.0	0.0
Moga	400	420	02:59	405	18:25	0.0	0.0	0.0	0.0
Abdullapur	400	414	02:55	290	05:34	0.8	0.8	0.0	0.0
Nalagarh	400	426	07:03	409	18:55	0.0	0.0	35.2	0.0
Kishenpur	400	420	02:59	400	19:08	0.0	0.0	0.0	0.0
Wagoora	400	411	02:59	379	19:20	0.2	14.3	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	510.88	1590.18	512.16	1650.87	475.64	778.71
Pong	426.72	384.05	422.81	1020.81	424.81	1098.31	105.85	333.29
Tehri	829.79	740.04	819.55	992.00	NA	NA	193.09	254.00
Koteswar	612.50	598.50	608.00	4.21	NA	NA	254.00	141.00
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 09.10.2011 :
Normal weather

XII. Synchronisation of new generating units :

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 : 09.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER