

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.10.2011
Date of Reporting : 16.10.2011

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
29022	3372	32394	49.75	26829	4667	31496	49.70	665.0	84.37

* 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	55.00	9.98		64.98	52.43	49.06	-3.37	114.04	6.65
Haryana	64.63	1.15		65.77	36.44	35.76	-0.68	101.53	11.98
Rajasthan	84.42	0.08	1.39	85.89	29.00	29.90	0.90	115.79	17.57
Delhi	25.64			25.64	53.40	45.58	-7.82	71.22	0.19
UP	67.94	13.36	1.20	82.50	97.52	99.76	2.24	182.27	44.56
Uttarakhand		15.45		15.45	9.01	10.05	1.04	25.51	3.00
HP		11.13		11.13	10.94	10.45	-0.49	21.58	0.42
J & K		12.18	0.00	12.18	13.68	17.02	3.34	29.20	0.00
Chandigarh				0.00	4.30	3.88	-0.42	3.88	0.00
Total	297.63	63.34	2.59	363.55	306.73	301.45	-5.28	665.00	84.37

* 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	5258	300	-114	571	4423	200	-230	553	13.46
Haryana	4233	870	22	133	4037	128	-117	124	2.59
Rajasthan	4950	258	23	-179	4617	2329	18	-175	-4.22
Delhi	3438	69	-97	-180	2555	0	-411	40	-2.26
UP	7493	1645	-202	704	8125	2010	930	704	16.88
Uttarakhand	1129	230	64	10	1046	0	139	10	0.24
HP	1048	0	74	-427	798	0	-13	18	-1.46
J&K	1271	0	48	-208	1096	0	187	-208	-4.99
Chandigarh	202	0	-15	0	132	0	-22	0	0.00
Total	29022	3372	-197	424	26829	4667	481	1066	20.24

* 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	1616	1719	1802	39.09	1629	38.78	0.31
	Rihand I STPS	1000	950	1036	1035	22.97	957	22.80	0.17
	Rihand II STPS	1000	469	515	519	11.36	473	11.26	0.10
	Dadri I STPS	840	719	837	714	17.36	724	17.27	0.10
	Dadri II STPS	980	829	968	749	20.11	838	19.89	0.21
	Unchahar I TPS	440	385	428	418	9.32	388	9.25	0.07
	Unchahar II TPS	440	192	211	211	4.64	193	4.61	0.03
	Unchahar III TPS	210	192	215	212	4.65	194	4.61	0.04
	ISTPP (Jhajihar)	500	460	503	488	11.08	462	10.99	0.09
	Dadri GPS	830	782	757	668	17.30	721	17.31	-0.01
	Anta GPS	419	381	378	342	8.65	361	8.37	0.29
	Auraiya GPS	663	605	597	504	13.71	571	13.58	0.13
	Sub Total (A)	9322	7581	8164	7662	180.23	7510	178.70	1.53
	B. NPC	NAPS	440	190	222	225	4.62	193	4.56
RAPS- B		440	403	445	445	9.66	402	9.67	-0.01
RAPS- C		440	420	469	475	10.15	423	10.08	0.07
Sub Total (B)		1320	1013	1136	1145	24.43	1018	24.31	0.12
C. NHPC	Chamera I HPS	540	534	540	0	3.44	143	3.73	-0.29
	Chamera II HPS	300	198	158	0	2.94	123	3.18	-0.24
	Bairasuil HPS	180	179	120	0	1.04	43	1.02	0.02
	Salal-HPS	690	281	291	298	6.60	275	6.75	-0.15
	Tanakpur-HPS	94	82	75	86	2.02	84	2.06	-0.04
	Uri-HPS	480	176	240	163	4.52	189	4.35	0.18
	Dhauliganga-HPS	280	277	210	0	3.28	137	2.97	0.31
	Dulhasti-HPS	390	387	360	128	7.72	322	7.78	-0.06
	Sewa-II HPS	120	119	99	0	0.55	23	0.60	-0.05
	Sub Total (C)	3074	2233	2093	675	32.11	1338	32.45	-0.34
D. NJPC	Nathpa Jhakri	1500	1600	1611	167	16.75	698	17.02	-0.27
	Sub Total (D)	1500	1600	1611	167	16.75	698	17.02	-0.27
E. THDC	Tehri HPS	1000	891	781	0	8.12	338	8.00	0.12
	Koteshwar HPS	100	72	156	72	2.17	90	1.75	0.43
Sub Total (E)	1100	963	937	72	10.29	429	9.75	0.55	
F. BBMB	Bhakra HPS	1480	606	788	523	15.84	660	14.54	1.30
	Dehar HPS	990	324	495	280	7.85	327	7.78	0.07
	Pong HPS	396	194	306	126	4.85	202	4.65	0.20
	Sub Total (F)	2866	1124	1589	929	28.54	1189	26.97	1.57
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	32	32	0.71	29	0.69	0.02
	KWHEP HPS(IPP)	1000	0	701	246	8.67	361	8.24	0.43
	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	733	278	9.38	391	8.93	0.45	
H. Total Regional Entities (A-G)	20625	14514	16263	10928	301.73	12572	298.13	3.61	

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	1256.00	1255.00	28.16	1173
	Guru Nanak Dev TPS(Bhatinda)	440	257.00	258.00	5.43	226
	Guru Hargobind Singh TPS(L.mbt)	920	958.00	967.00	21.41	892
	Thermal (Total)	2620	2471.00	2480.00	55.00	2292
	Total Hydro	1148	361.00	272.00	9.98	416
Total Punjab	3768	2832	2752	64.98	2708	
Haryana	Panipat TPS	1360	1127.00	1128.00	27.03	1126
	DCRTPP (Yamuna nagar)	600	181.00	281.00	5.42	226
	Faridabad GPS (NTPC)	432	379.00	370.00	8.94	373
	RGTPP (khedar) (IPP)	1200	792.00	944.00	23.24	968
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2479.00	2723.00	64.63	2693
	Total Hydro	62	46.00	46.00	1.15	48
	Total Haryana	3679	2525	2769	65.77	2741
Rajasthan	kota TPS	1240	1164.00	1145.00	27.65	1152
	suratgarh TPS	1500	1140.00	1153.00	26.59	1108
	Chabra TPS	500	391.00	392.00	9.46	394
	Dholpur GPS	330	280.00	263.00	6.77	282
	Ramgarh GPS	113	53.00	53.00	1.39	58
	RAPS A (NPC)	300	149.00	178.00	4.32	180
	Barsingsar (NLC)	250	60.00	40.00	1.09	45
	Giral LTPS (IPP)	250	138.00	39.00	2.68	112
	Rajwst LTPS (IPP)	135	80.00	240.00	4.48	187
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3455.00	3503.00	84.42	3517
	Total Hydro	550	0.00	0.00	0.08	4
	Wind power	1294	89.00	35.00	0.76	32
	Biomass	71	26.00	26.00	0.63	26
	Renewable/Others (Total)	1365	115	61	1.39	58
	Total Rajasthan	6668	3570	3564	85.89	3579
	UP	Anpara TPS	1630	1308	1173	29.80
Obra TPS		1442	534	598	13.90	579
Paricha TPS		640	295	284	6.90	288
Panki TPS		210	0	0	0.00	0
Harduaganj TPS		375	38	135	0.80	33
Tanda TPS (NTPC)		440	385	394	9.60	400
Roza TPS (IPP)		600	284	284	6.94	289
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2844	2868	67.94	2831
Vishnuparyag HPS (IPP)		400	288	278	6.64	277
Other Hydro		527	297	67	6.72	280
Cogeneration		951	50	50	1.20	50
Total UP		7815	3479	3263	82.50	3161
Uttarakhand		Total Hydro	1303	631	615	15.45
	Total Uttarakhand	1303	631	615	15.45	644
Delhi	Rajghat TPS	135	106	105	2.49	104
	Delhi Gas Turbine	282	185	186	4.44	185
	Pragati Gas Turbine	330	296	302	7.16	298
	Rithala GPS	108	27	29	0.60	25
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	505	510	10.95	456
	Thermal (Total)	2000	1119	1132	25.64	1068
	Total Delhi	2000	1119	1132	25.64	1068
HP	Baspa HPS (IPP)	330	61	111	2.74	114
	Malana HPS (IPP)	101	33	22	0.71	30
	Other Hydro	571	317	372	7.68	320
	Total HP	1002	411	505	11	464
J & K	Baglihar HPS (IPP)	450	354	353	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	514	12.18	508
Total State Control Area Generation		27191	15051	15114	363.55	14871
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-310	1578	11.88	495
Total Regional Availability(Gross)		47816	31004	27620	677.16	27938

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6963	2121	97.07	4045
State Control Area Hydro	5365	2230	2019	56.70	2362
Total Regional Hydro	15347	9193	4140	153.77	6407

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	-400	0	400	0.00	6.46	-6.46
Gwalior-Agra (D/C)	108	996	1488	0	14.49	0.00	14.49
Zerda-Kankroli	-281	-71	0	346	0.00	5.08	-5.08
Zerda-Bhinmal	-193	17	48	274	0.00	3.06	-3.06
Malanpur-Auraiya	-69	-12	0	221	0.00	2.13	-2.13
Badod-Kota/Morak	-174	-128	0	227	0.00	3.68	-3.68
Sub Total WR	-809	402			14.49	20.41	-5.92
Pusauli Bypass	-184	18	102	292	0.40	1.54	-1.14
MZP- GKP (D/C)	324	651	690	0	9.36	0.00	9.36
Patna-Balia(D/C)	98	204	337	0	4.09	0.00	4.09
B'Sharif-Balia (D/C)	150	255	392	0	3.49	0.00	3.49
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	143	87	157	0	2.88	0.00	2.88
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	499	1176			20.22	2.42	17.80
Total IR Exch	-310	1578			34.71	22.83	11.88

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
15.12	2.14	17.26	2.81	19.39	-13.22	-1.55	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
6.85	12.35	19.20	17.80	-5.92	11.88	10.95	-18.27	-7.33

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
0.00	0.00	3.30	27.50	71.60	72.50	28.40	2.00

<----- 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				
50.17	18.17	49.06	8.34	49.69	2.02	0.19	50.19	49.51

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	21:03	410	06:26	0.0	0.0	0.0	0.0
Gorakhpur	400	433	18:18	393	06:27	0.0	0.0	57.9	3.5
Bareilly	400	424	21:05	398	06:27	0.0	0.0	3.8	0.0
Kanpur	400	419	21:17	403	06:26	0.0	0.0	0.0	0.0
Dadri	400	415	21:01	399	12:12	0.0	0.0	0.0	0.0
Ballabgarh	400	419	21:03	399	12:12	0.0	0.0	0.0	0.0
Bawana	400	417	02:56	401	12:12	0.0	0.0	0.0	0.0
Bassi	400	424	21:05	410	18:42	0.0	0.0	83.5	0.0
Hissar	400	412	21:05	395	12:12	0.0	0.0	0.0	0.0
Moga	400	420	02:12	401	12:10	0.0	0.0	0.0	0.0
Abdullapur	400	416	02:34	401	10:34	0.0	0.0	0.0	0.0
Nalagarh	400	428	02:35	409	12:12	0.0	0.0	36.8	0.0
Kishenpur	400	421	02:57	399	18:41	0.0	0.0	0.3	0.0
Wagoora	400	407	02:55	371	18:45	12.1	52.1	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	510.32	1560.04	512.05	1650.87	363.33	407.42
Pong	426.72	384.05	422.53	1005.78	423.87	1082.23	103.10	271.59
Tehri	829.79	740.04	818.00	358.90	NA	NA	121.26	181.00
Koteshwar	612.50	598.50	606.40	2.88	NA	NA	182.00	196.00
Chamera-I	760.00	748.75	752.28	NA	751.70	NA	114.51	93.40
Rihand	268.22	252.98	265.51	650.20	258.10	206.60	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	522.36	NA	522.70	NA	111.99	175.48

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

1.Badmer -Rajwest charged at 20:35 on 15.10.2011.

XI. Weather Conditions For 15.10.2011 :

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 : 15.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER