

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.10.2011
Date of Reporting : 19.10.2011

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
29703	2966	32669	50.00	24725	2240	26965	49.72	648.6	86.88

* 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	55.67	10.94		66.61	177.40	41.04	-136.36	107.65	5.34
Haryana	51.22	1.22		52.44	147.40	41.61	-105.79	94.05	16.76
Rajasthan	82.26	0.08	2.02	84.36	117.80	30.86	-86.94	115.22	21.68
Delhi	24.06			24.06	223.10	44.74	-178.36	68.80	0.03
UP	66.23	11.44	1.20	78.86	370.50	100.34	-270.16	179.20	40.80
Uttarakhand		14.53		14.53	40.70	12.86	-27.84	27.39	0.61
HP		10.87		10.87	41.60	11.17	-30.43	22.04	0.06
J & K		12.20	0.00	12.20	65.70	18.04	-47.66	30.24	1.60
Chandigarh				0.00	19.20	4.00	-15.20	4.00	0.00
Total	279.43	61.27	3.22	343.92	1203.40	304.66	-898.74	648.58	86.88

* 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	5063	150	-24	-100	4105	0	-208	-20	-1.16
Haryana	3987	1054	65	145	3711	162	266	112	2.54
Rajasthan	4977	156	-12	-124	4364	653	-302	-99	-2.65
Delhi	3379	0	-213	-25	2153	0	-508	86	0.45
UP	8131	1500	243	343	7407	1425	139	343	8.22
Uttarakhand	1412	80	170	99	1025	0	58	99	2.39
HP	1160	26	151	-478	729	0	-157	129	0.42
J&K	1383	0	93	-178	1118	0	195	-178	-4.27
Chandigarh	211	0	-27	18	113	0	-25	18	0.43
Total	29703	2966	446	-300	24725	2240	-542	490	6.37

* 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	1658	1986	1430	40.37	1682	39.79	0.58
	Rihand I STPS	1000	950	1037	1030	22.94	956	22.80	0.14
	Rihand II STPS	1000	950	1012	1010	22.99	958	22.80	0.19
	Dadri I STPS	840	620	836	527	14.89	621	14.87	0.02
	Dadri II STPS	980	829	975	748	20.06	836	19.84	0.22
	Unchahar I TPS	440	360	397	378	8.71	363	8.63	0.07
	Unchahar II TPS	440	178	202	192	4.30	179	4.27	0.04
	Unchahar III TPS	210	178	202	194	4.30	179	4.27	0.04
	ISTPP (Jhajihar)	500	460	491	509	11.14	464	10.97	0.16
	Dadri GPS	830	788	756	765	17.47	728	17.62	-0.15
	Anta GPS	419	385	371	360	8.69	362	8.59	0.10
	Auraiya GPS	663	608	586	554	13.96	582	13.88	0.08
	Sub Total (A)	9322	7963	8851	7697	189.82	7909	188.33	1.49
B. NPC	NAPS	440	195	228	231	4.70	196	4.68	0.02
	RAPS- B	440	402	449	447	9.71	404	9.65	0.06
	RAPS- C	440	210	232	236	5.08	212	5.04	0.04
	Sub Total (B)	1320	807	909	914	19.49	812	19.37	0.12
C. NHPC	Chamera I HPS	540	534	540	0	3.09	129	3.46	-0.37
	Chamera II HPS	300	198	186	100	2.55	106	2.91	-0.35
	Bairasuil HPS	180	179	120	0	0.99	41	1.00	-0.02
	Salal-HPS	690	300	310	264	6.50	271	6.47	0.02
	Tanakpur-HPS	94	76	79	74	1.83	76	1.87	-0.04
	Uri-HPS	480	155	240	120	3.78	158	3.99	-0.21
	Dhauliganga-HPS	280	277	277	0	2.48	103	2.45	0.03
	Dulhasti-HPS	390	381	413	0	6.12	255	6.72	-0.60
	Sewa-II HPS	120	119	105	0	0.56	23	0.58	-0.02
	Sub Total (C)	3074	2218	2270	558	27.89	1162	29.46	-1.57
D. NJPC	Nathpa Jhakri	1500	1600	1604	254	16.23	676	16.35	-0.12
	Sub Total (D)	1500	1600	1604	254	16.23	676	16.35	-0.12
E. THDC	Tehri HPS	1000	1036	776	0	5.89	245	6.00	-0.11
	Koteshwar HPS	100	87	88	0	1.36	57	1.25	0.11
	Sub Total (E)	1100	1123	864	0	7.25	302	7.25	0.00
F. BBMB	Bhakra HPS	1480	526	1250	391	13.11	546	12.62	0.49
	Dehar HPS	990	335	495	290	8.18	341	8.05	0.13
	Pong HPS	396	223	306	186	5.58	233	5.35	0.23
	Sub Total (F)	2866	1085	2051	867	26.87	1120	26.03	0.84
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.71	30	0.57	0.14
	KWHEP HPS(IPP)	1000	0	602	251	8.57	357	8.17	0.40
	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	1.21	-1.21
	Sub Total (G)	1442	0	602	251	9.28	387	9.95	-0.67
H. Total Regional Entities (A-G)		20625	14796	17151	10541	296.83	12368	296.73	0.10

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	1256.00	28.16	1173
	Guru Nanak Dev TPS(Bhatinda)	440	297.00	297.00	6.18	258
	Guru Hargobind Singh TPS(L.mbt)	920	965.00	961.00	21.33	889
	Thermal (Total)	2620	2512.00	2514.00	55.67	2320
	Total Hydro	1148	553.00	288.00	10.94	456
Total Punjab	3768	3065	2802	66.61	2775	
Haryana	Panipat TPS	1360	1004.00	1065.00	24.67	1028
	DCRTPP (Yamuna nagar)	600	276.00	279.00	6.55	273
	Faridabad GPS (NTPC)	432	381.00	398.00	9.21	384
	RGTPP (khedar) (IPP)	1200	458.00	341.00	10.79	449
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2119.00	2083.00	51.22	2134
	Total Hydro	62	47.00	48.00	1.22	51
	Total Haryana	3679	2166	2131	52.44	2185
Rajasthan	kota TPS	1240	1161.00	971.00	25.38	1057
	suratgarh TPS	1500	1162.00	1154.00	26.92	1122
	Chabra TPS	500	340.00	419.00	9.08	378
	Dholpur GPS	330	273.00	290.00	6.93	289
	Ramgarh GPS	113	53.00	53.00	1.40	58
	RAPS A (NPC)	300	143.00	168.00	4.30	179
	Barsingsar (NLC)	250	53.00	54.00	0.94	39
	Giral LTPS (IPP)	250	162.00	150.00	3.57	149
	Rajwest LTPS (IPP)	135	160.00	243.00	3.73	156
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3507.00	3502.00	82.26	3428
	Total Hydro	550	0.00	13.00	0.08	3
	Wind power	1294	0.00	80.00	1.65	69
	Biomass	71	25.00	25.00	0.36	15
	Renewable/Others (Total)	1365	25	105	2.02	84
	Total Rajasthan	6668	3532	3620	84.36	3515
	UP	Anpara TPS	1630	1382	1335	29.90
Obra TPS		1442	561	537	12.10	504
Paricha TPS		640	404	386	8.50	354
Panki TPS		210	0	0	0.00	0
Harduaganj TPS		375	40	42	0.90	38
Tanda TPS (NTPC)		440	319	333	8.06	336
Roza TPS (IPP)		600	284	284	6.77	282
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2990	2917	66.23	2759
Vishnuparyag HPS (IPP)		400	244	248	5.69	237
Other Hydro		527	275	62	5.75	240
Cogeneration		951	50	50	1.20	50
Total UP		7815	3559	3277	78.86	3049
Uttarakhand		Total Hydro	1303	647	568	14.53
	Total Uttarakhand	1303	647	568	14.53	606
Delhi	Rajghat TPS	135	95	113	2.80	117
	Delhi Gas Turbine	282	189	188	4.63	193
	Pragati Gas Turbine	330	298	307	7.48	312
	Rithala GPS	108	27	29	0.67	28
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	385	405	8.48	353
	Thermal (Total)	2000	994	1042	24.06	1002
	Total Delhi	2000	994	1042	24.06	1002
HP	Baspa HPS (IPP)	330	28	113	2.61	109
	Malana HPS (IPP)	101	34	0	0.67	28
	Other Hydro	571	326	276	7.59	316
	Total HP	1002	388	389	11	453
J & K	Baglihar HPS (IPP)	450	354	353	8.50	354
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	484	514	12.20	508
Total State Control Area Generation		27191	14835	14343	343.92	14093
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			83	1354	21.45	894
Total Regional Availability(Gross)		47816	32069	26238	662.20	27355

IV. Total Hydro Generation:

Regional Entities Hydro	9983	7391	1930	87.52	3647
State Control Area Hydro	5365	2394	1882	55.58	2316
Total Regional Hydro	15347	9785	3812	143.10	5963

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	-100	-200	0	300	0.00	3.96	-3.96
Gwalior-Agra (D/C)	89	721	959	0	11.63	0.00	11.63
Zerda-Kankroli	-179	-165	0	242	0.00	4.14	-4.14
Zerda-Bhinmal	-110	-147	0	215	0.00	2.55	-2.55
Malanpur-Auraiya	-188	-76	0	247	0.00	2.87	-2.87
Badod-Kota/Morak	-96	-79	0	150	0.00	2.61	-2.61
Sub Total WR	-584	54			11.63	16.13	-4.50
Pusauli Bypass	-73	149	327	151	1.54	0.52	1.03
MZP- GKP (D/C)	351	664	809	0	12.05	0.00	12.05
Patna-Balia(D/C)	98	209	315	0	4.67	0.00	4.67
B'Sharif-Balia (D/C)	179	292	424	0	6.27	0.00	6.27
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	144	25	151	0	2.76	0.00	2.76
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-39	0	40	0.00	0.82	-0.82
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	667	1300			27.29	1.34	25.96
Total IR Exch	83	1354			38.92	17.47	21.45

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
12.95	1.72	14.67	0.95	5.90	-2.63	0.47	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
12.98	2.73	15.71	25.96	-4.50	21.45	12.97	-7.23	5.74

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	7.40	42.70	92.30	57.00	4.30	0.30

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.25	16.07	49.25	14.16	49.73	0.97	0.16	50.01	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	416	07:21	410	06:29	0.0	0.0	0.0	0.0
Gorakhpur	400	425	21:23	402	15:48	0.0	0.0	10.1	0.0
Bareilly	400	421	02:04	396	11:53	0.0	0.0	0.2	0.0
Kanpur	400	416	07:21	402	06:29	0.0	0.0	0.0	0.0
Dadri	400	415	02:00	403	11:48	0.0	0.0	0.0	0.0
Ballabgarh	400	419	02:00	403	18:23	0.0	0.0	0.0	0.0
Bawana	400	419	01:06	404	11:53	0.0	0.0	0.0	0.0
Bassi	400	428	02:03	400	18:25	0.0	0.0	12.4	0.0
Hissar	400	414	01:04	397	06:29	0.0	0.0	0.0	0.0
Moga	400	422	01:46	404	06:28	0.0	0.0	5.3	0.0
Abdullapur	400	419	04:15	401	18:42	0.0	0.0	0.0	0.0
Nalagarh	400	429	04:16	410	18:34	0.0	0.0	42.3	0.0
Kishenpur	400	426	02:16	402	19:08	0.0	0.0	9.8	0.0
Wagoora	400	415	03:01	380	19:08	0.0	23.7	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	510.34	1560.04	512.02	1650.87	336.12	407.42
Pong	426.72	384.05	422.29	990.81	423.70	1066.19	89.00	271.59
Tehri	829.79	740.04	818.85	982.26	NA	NA	126.09	131.00
Koteshwar	612.50	598.50	608.00	3.76	NA	NA	131.00	90.00
Chamera-I	760.00	748.75	751.84	NA	751.84	NA	103.24	83.89
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	522.18	NA	522.15	NA	137.00	154.02

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.10.2011 :

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 : 18.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER