

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.11.2011
Date of Reporting : 24.11.2011

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
29085	2577	31661	49.84	24212	1066	25278.25	49.94	631.3	54.06

* 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	47.78	11.56		59.34	24.30	23.90	-0.40	83.24	5.11
Haryana	64.15	0.96		65.11	25.03	25.11	0.09	90.22	3.41
Rajasthan	80.96	5.44	2.84	89.24	50.98	57.28	6.30	146.52	12.58
Delhi	22.65			22.65	39.41	33.86	-5.55	56.51	0.24
UP	82.42	6.21	6.00	94.62	84.53	74.15	-10.38	168.77	30.75
Uttarakhand		9.43		9.43	17.27	18.22	0.95	27.65	0.30
HP		5.90		5.90	14.92	16.63	1.71	22.53	0.17
J & K		6.43	0.00	6.43	20.51	25.96	5.45	32.39	1.50
Chandigarh				0.00	3.58	3.45	-0.13	3.45	0.00
Total	297.95	45.93	8.84	352.71	280.53	278.56	-1.97	631.27	54.06

* 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	3864	0	-192	-564	2949	0	-93	-737	-12.71
Haryana	4361	518	223	-88	3072	0	-194	-104	-2.49
Rajasthan	6499	459	419	401	6573	55	1035	526	14.08
Delhi	3007	0	-80	-385	1465	6	-486	-650	-11.31
UP	7077	1595	-1025	391	7133	1005	-233	391	9.39
Uttarakhand	1415	0	-2	316	990	0	98	316	7.58
HP	1096	5	-201	-340	730	0	233	4	-2.87
J&K	1579	0	25	79	1213	0	255	158	2.97
Chandigarh	187	0	-46	0	87	0	-3	-30	-0.24
Total	29085	2577	-879	-188	24212	1066	612	-126	4.40

* 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 Scentout(MW)	Schedule Net MU	UI Net MU
	Singrauli STPS	2000	1921	2082	2065	46.61	1942	46.10	0.51
	Rihand I STPS	1000	710	782	772	17.21	717	17.04	0.18
	Rihand II STPS	1000	977	1043	1037	23.63	984	23.45	0.18
	Dadri I STPS	840	585	638	475	13.70	571	13.61	0.09
	Dadri II STPS	980	922	988	973	22.32	930	22.13	0.20
	Unchahar I TPS	440	400	434	421	9.60	400	9.54	0.06
	Unchahar II TPS	440	402	441	410	9.63	401	9.50	0.12
	Unchahar III TPS	210	199	217	207	4.76	198	4.70	0.07
	ISTPP (Jhajihar)	1000	475	514	500	11.41	475	11.28	0.13
	Dadri GPS	830	607	504	488	11.96	499	12.02	-0.05
	Anta GPS	419	412	327	329	8.10	338	7.67	0.44
	Auraiya GPS	663	632	452	475	10.66	444	10.54	0.12
	Sub Total (A)	9822	8242	8422	8152	189.60	7900	187.56	2.04
B. NPC	NAPS	440	202	237	238	4.86	203	4.85	0.02
	RAPS- B	440	298	432	224	7.60	317	7.16	0.45
	RAPS- C	440	420	473	476	10.23	426	10.08	0.15
	Sub Total (B)	1320	920	1142	938	22.69	946	22.08	0.61
C. NHPC	Chamera I HPS	540	534	360	0	3.39	141	3.30	0.08
	Chamera II HPS	300	297	184	0	1.51	63	1.51	0.00
	Bairasuil HPS	180	179	120	0	0.58	24	0.59	-0.01
	Salal-HPS	690	154	230	222	3.64	152	3.70	-0.06
	Tanakpur-HPS	94	41	50	31	1.09	46	1.01	0.08
	Uri-HPS	480	149	238	105	3.48	145	3.29	0.19
	Dhauliganga-HPS	280	277	210	0	2.19	91	1.56	0.63
	Dulhasti-HPS	390	388	262	0	3.72	155	3.84	-0.11
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	2019	1654	358	19.59	816	18.79	0.80
D. NJPC	Nathpa Jhakri	1500	1181	1308	0	9.01	375	9.08	-0.07
	Sub Total (D)	1500	1181	1308	0	9.01	375	9.08	-0.07
E. THDC	Tehri HPS	1000	693	1040	0	5.08	212	5.00	0.08
	Koteshwar HPS	200	58	86	80	1.28	53	1.23	0.05
	Sub Total (E)	1200	752	1126	80	6.36	265	6.23	0.13
F. BBMB	Bhakra HPS	1480	656	889	416	16.05	669	15.74	0.31
	Dehar HPS	990	181	495	0	4.22	176	4.35	-0.13
	Pong HPS	396	214	306	126	5.34	223	5.15	0.19
	Sub Total (F)	2866	1052	1690	542	25.61	1067	25.24	0.37
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.46	19	0.25	0.21
	KWHEP HPS(IPP)	1000	0	300	125	4.96	207	4.43	0.53
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	0	136	2.50	104	2.65	-0.15
	Sub Total (G)	1442	0	300	261	7.92	330	7.33	0.59
H. Total Regional Entities (A-G)		21225	14166	15642	10331	280.77	11699	276.31	4.46

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	23.31	971	
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	214.00	4.61	192	
	Guru Hargobind Singh TPS(L.mbt)	920	955.00	745.00	19.85	827	
	Thermal (Total)	2620	2215.00	2004.00	47.78	1991	
	Total Hydro	1148	266.00	344.00	11.56	482	
	Total Punjab	3768	2481	2348	59.34	2473	
Haryana	Panipat TPS	1360	1087.00	1107.00	27.00	1125	
	DCRTPP (Yamuna nagar)	600	268.00	275.00	6.62	276	
	Faridabad GPS (NTPC)	432	415.00	321.00	8.23	343	
	RGTPP (khedar) (IPP)	1200	874.00	833.00	22.31	930	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2644.00	2536.00	64.15	2673	
	Total Hydro	62	40.00	41.00	0.96	40	
		Total Haryana	3679	2684	2577	65.11	2713
Rajasthan	kota TPS	1240	1169.00	1170.00	27.68	1153	
	suratgarh TPS	1500	1149.00	1147.00	27.23	1134	
	Chabra TPS	500	214.00	193.00	4.27	178	
	Dholpur GPS	330	254.00	245.00	6.15	256	
	Ramgarh GPS	113	65.00	65.00	1.65	69	
	RAPS A (NPC)	300	175.00	177.00	4.38	183	
	Barsingsar (NLC)	250	49.00	42.00	1.10	46	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwst LTPS (IPP)	540	321.00	310.00	8.52	355	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	5158	3396.00	3349.00	80.96	3373	
	Total Hydro	550	214.00	139.00	5.44	227	
	Wind power	1294	91.00	81.00	1.83	76	
	Biomass	71	42.00	42.00	1.01	42	
	Solar	50	0.00	0.00	0.01	0	
	Renewable/Others (Total)	1365	133	123	2.84	118	
		Total Rajasthan	7073	3743	3611	89.24	3718
	UP	Anpara TPS	1630	1314	1307	31.20	1300
Obra TPS		1442	575	579	14.10	588	
Paricha TPS		640	359	352	8.50	354	
Panki TPS		210	168	117	3.70	154	
Harduaganj TPS		415	0	0	0.10	4	
Tanda TPS (NTPC)		440	389	407	9.78	408	
Roza TPS (IPP)		600	567	567	13.50	563	
Anpara-C (IPP)		1200	0	0	0.00	0	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	50	81	1.53	64	
Thermal (Total)		6757	3422	3410	82.42	3434	
Vishnuparyag HPS (IPP)		400	143	134	3.16	132	
Other Hydro		527	168	0	3.05	127	
Cogeneration		951	250	250	6.00	250	
		Total UP	8635	3983	3794	94.62	3811
Uttarakhand		Total Hydro	1303	500	228	9.43	393
		Total Uttarakhand	1303	500	228	9.43	393
Delhi	Rajghat TPS	135	46	45	1.06	44	
	Delhi Gas Turbine	282	141	146	3.52	147	
	Pragati Gas Turbine	330	306	304	7.34	306	
	Rithala GPS	108	26	29	0.51	21	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	490	410	10.22	426	
	Thermal (Total)	2000	1009	934	22.65	944	
	Total Delhi	2000	1009	934	22.65	944	
HP	Baspa HPS (IPP)	330	0	0	1.54	64	
	Malana HPS (IPP)	101	0	0	0.34	14	
	Other Hydro	571	209	90	4.02	168	
		Total HP	1002	209	90	6	246
J & K	Baglihar HPS (IPP)	450	292	147	4.70	196	
	Other Hydro	323	54	100	1.73	72	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	346	247	6.43	268
Total State Control Area Generation		28416	14955	13829	352.71	14565	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			452	1121	24.74	1031	
Total Regional Availability(Gross)		49641	31049	25281	658.23	27295	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6078	1241	68.48	2853
State Control Area Hydro	5365	1743	1089	42.77	1782
Total Regional Hydro	15447	7821	2330	111.25	4635

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	-100	0	500	0.00	7.24	-7.24
Gwalior-Agra (D/C)	147	282	1080	0	9.55	0.00	9.55
Zerda-Kankroli	-157	-83	0	209	0.00	3.37	-3.37
Zerda-Bhinmal	-57	47	106	184	0.00	0.61	-0.61
Malanpur-Auraiya	-250	-239	0	255	0.00	4.95	-4.95
Badod-Kota/Morak	-79	-26	0	101	0.00	1.31	-1.31
Sub Total WR	-596	-119			9.55	17.48	-7.93
Pusauli Bypass	53	-32	105	154	0.54	0.94	-0.40
MZP- GKP (D/C)	542	510	800	0	13.13	0.00	13.13
Patna-Balia(D/C)	117	103	446	0	6.32	0.00	6.32
B'Sharif-Balia (D/C)	225	313	572	0	6.83	0.00	6.83
Barh - balia(D/C)	0	263	383	0	4.92	0.00	4.92
Pusauli-Sahupuri	146	123	155	0	2.75	0.00	2.75
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-40	0	48	0.00	0.88	-0.88
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1048	1240			34.49	1.81	32.68
Total IR Exch	452	1121			44.04	19.30	24.74

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
18.50	0.87	19.37	8.49	0.28	2.35	-3.63	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
30.21	-8.78	21.44	32.68	-7.93	24.74	2.46	0.84	3.30

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	0.80	15.60	48.90	84.40	51.10	2.30

<----- 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				
50.15	15.05	49.09	6.44	49.69	1.00	0.18	50.06	49.32

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	00:24	401	16:12	0.0	0.0	0.0	0.0
Gorakhpur	400	429	13:47	410	12:40	0.0	0.0	21.2	0.0
Bareilly	400	422	03:55	398	10:45	0.0	0.0	4.3	0.0
Kanpur	400	419	03:57	398	11:11	0.0	0.0	0.0	0.0
Dadri	400	420	03:57	398	10:37	0.0	0.0	0.0	0.0
Ballabgarh	400	421	03:21	396	10:44	0.0	0.0	0.8	0.0
Bawana	400	423	03:57	399	10:50	0.0	0.0	11.3	0.0
Bassi	400	425	04:01	394	11:17	0.0	0.0	8.6	0.0
Hissar	400	414	20:48	394	10:38	0.0	0.0	0.0	0.0
Moga	400	417	20:46	396	16:14	0.0	0.0	0.0	0.0
Abdullapur	400	422	03:57	397	10:37	0.0	0.0	5.0	0.0
Nalagarh	400	422	02:55	405	09:54	0.0	0.0	6.4	0.0
Kishenpur	400	417	20:41	390	18:31	0.0	0.0	0.0	0.0
Wagoora	400	397	20:42	357	18:31	64.4	97.6	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	508.10	1455.60	509.97	1545.02	220.16	424.04
Pong	426.72	384.05	418.18	807.91	420.95	931.43	61.67	312.39
Tehri	829.79	740.04	818.90	942.25	NA	NA	76.28	114.00
Koteshwar	612.50	598.50	602.20	1.33	NA	NA	114.00	84.00
Chamera-I	760.00	748.75	753.91	NA	753.38	8.80	58.24	92.54
Rihand	268.22	252.98	261.58	587.70	257.74	189.70	NA	NA
RPS	352.80	343.81	350.64	NA	NA	NA	NA	249.61
Jawahar Sagar	298.70	295.78	297.58	NA	NA	NA	NA	243.84
RSD	527.91	487.91	518.60	NA	519.60	NA	100.47	253.80

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.11.2011 :

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 : 23.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER