

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.10.2011
Date of Reporting : 01.11.2011

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
29314	2937	32251	50.00	24984	678	25662	49.97	644.5	52.98

* 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	50.59	10.93		61.52	40.49	33.16	-7.34	94.67	1.80
Haryana	67.56	1.17		68.73	31.19	34.43	3.24	103.16	0.35
Rajasthan	79.00	3.07	1.20	83.27	34.70	48.46	13.76	131.73	13.75
Delhi	22.43			22.43	44.84	35.48	-9.36	57.91	0.09
UP	74.93	5.85	1.20	81.98	95.00	96.07	1.07	178.05	35.67
Uttarakhand		11.01		11.01	9.87	14.15	4.28	25.16	1.25
HP		8.53		8.53	11.90	12.91	1.01	21.44	0.06
J & K		9.79	0.00	9.79	18.53	19.03	0.51	28.82	0.00
Chandigarh				0.00	3.66	3.55	-0.12	3.55	0.00
Total	294.51	50.34	2.40	347.25	290.19	297.24	7.05	644.48	52.98

* 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	4867	600	64	-163	3713	0	-317	-85	-2.83
Haryana	4622	49	327	143	3274	0	159	121	2.51
Rajasthan	5263	716	88	-50	5997	28	1184	-50	-1.20
Delhi	3062	2	-464	-59	1612	0	-303	11	-1.80
UP	7783	1320	-274	577	7583	650	-2	577	13.84
Uttarakhand	1195	240	91	50	926	0	182	50	1.20
HP	1012	10	70	-113	676	0	-91	114	1.63
J&K	1320	0	-159	-27	1101	0	79	51	0.44
Chandigarh	190	0	-21	18	102	0	8	18	0.43
Total	29314	2937	-278	376	24984	678	899	807	14.22

* 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	1709	1857	1745	41.39	1725	40.01	1.38
	Rihand I STPS	1000	535	746	510	13.38	557	12.56	0.81
	Rihand II STPS	1000	975	1035	1030	23.21	967	22.90	0.32
	Dadri I STPS	840	769	830	613	16.05	669	15.94	0.10
	Dadri II STPS	980	921	969	743	20.22	843	20.12	0.10
	Unchahar I TPS	440	400	435	393	9.29	387	9.22	0.07
	Unchahar II TPS	440	402	439	385	9.19	383	8.99	0.20
	Unchahar III TPS	210	201	215	190	4.55	189	4.49	0.05
	ISTPP (Jhajihar)	500	470	507	515	10.93	456	11.13	-0.20
	Dadri GPS	830	804	596	521	13.31	555	14.00	-0.69
	Anta GPS	419	393	260	233	5.99	250	5.93	0.06
	Auraiya GPS	663	629	456	437	10.62	442	10.61	0.01
	Sub Total (A)	9322	8209	8345	7315	178.12	7422	175.91	2.20
	B. NPC	NAPS	440	200	232	235	4.77	199	4.80
RAPS- B		440	408	452	460	9.83	409	9.79	0.03
RAPS- C		440	420	476	476	10.22	426	10.08	0.14
Sub Total (B)		1320	1028	1160	1171	24.81	1034	24.67	0.14
C. NHPC	Chamera I HPS	540	534	540	0	2.28	95	2.28	0.00
	Chamera II HPS	300	297	183	0	2.04	85	2.23	-0.19
	Bairasuil HPS	180	179	179	0	0.73	30	0.83	-0.10
	Salal-HPS	690	200	208	205	4.77	199	4.80	-0.03
	Tanakpur-HPS	94	55	49	57	1.37	57	1.41	-0.05
	Uri-HPS	480	163	235	120	3.68	153	3.81	-0.13
	Dhauliganga-HPS	280	277	277	0	2.13	89	2.01	0.11
	Dulhasti-HPS	390	388	282	0	4.86	202	4.92	-0.06
	Sewa-II HPS	120	119	116	0	0.46	19	0.46	0.00
	Sub Total (C)	3074	2211	2069	382	22.30	929	22.74	-0.44
D. NJPC	Nathpa Jhakri	1500	1600	1600	165	12.96	540	12.99	-0.03
	Sub Total (D)	1500	1600	1600	165	12.96	540	12.99	-0.03
E. THDC	Tehri HPS	1000	1040	1039	0	3.69	154	4.00	-0.31
	Koteshwar HPS	100	187	190	0	1.50	63	1.45	0.05
Sub Total (E)	1100	1227	1229	0	5.19	216	5.45	-0.26	
F. BBMB	Bhakra HPS	1480	602	789	409	14.73	614	14.44	0.29
	Dehar HPS	990	250	495	165	6.53	272	6.01	0.52
	Pong HPS	396	319	306	306	7.96	332	7.66	0.30
	Sub Total (F)	2866	1171	1590	880	29.22	1218	28.11	1.11
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.00	0	0.70	-0.70
	KWHEP HPS(IPP)	1000	0	413	260	7.11	296	7.20	-0.09
	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	1.23	-1.23
Sub Total (G)	1442	0	413	260	7.11	296	9.12	-2.02	
H. Total Regional Entities (A-G)	20625	15446	16406	10173	279.70	11654	279.00	0.71	

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	23.28	970
	Guru Nanak Dev TPS(Bhatinda)	440	295.00	285.00	6.11	254
	Guru Hargobind Singh TPS(L.mbt)	920	974.00	967.00	21.21	884
	Thermal (Total)	2620	2314.00	2297.00	50.59	2108
	Total Hydro	1148	444.00	445.00	10.93	455
	Total Punjab	3768	2758	2742	61.52	2563
Haryana	Panipat TPS	1360	1182.00	1103.00	27.41	1142
	DCRTPP (Yamuna nagar)	600	272.00	270.00	6.60	275
	Faridabad GPS (NTPC)	432	400.00	354.00	8.78	366
	RGTPP (khedar) (IPP)	1200	970.00	886.00	24.78	1032
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2824.00	2613.00	67.56	2815
	Total Hydro	62	45.00	47.00	1.17	49
	Total Haryana	3679	2869	2660	68.73	2864
	Rajasthan	kota TPS	1240	1168.00	1171.00	27.47
suratgarh TPS		1500	1158.00	1151.00	27.09	1129
Chabra TPS		500	226.00	225.00	5.26	219
Dholpur GPS		330	282.00	280.00	6.82	284
Ramgarh GPS		113	65.00	65.00	1.60	67
RAPS A (NPC)		300	173.00	174.00	4.33	180
Barsingsar (NLC)		250	51.00	57.00	1.18	49
Giral LTPS (IPP)		250	0.00	0.00	0.00	0
Rajwst LTPS (IPP)		135	218.00	222.00	5.24	218
VSLP LTPS (IPP)		135	0.00	0.00	0.00	0
Thermal (Total)		4753	3341.00	3345.00	79.00	3292
Total Hydro		550	100.00	108.00	3.07	128
Wind power		1294	15.00	0.00	0.55	23
Biomass		71	27.00	27.00	0.66	27
Renewable/Others (Total)		1365	42	27	1.20	50
Total Rajasthan		6668	3483	3480	83.27	3469
UP		Anpara TPS	1630	1484	1366	31.10
	Obra TPS	1442	592	605	12.90	538
	Paricha TPS	640	396	411	8.70	363
	Panki TPS	210	88	110	2.30	96
	Harduaganj TPS	375	163	161	2.90	121
	Tanda TPS (NTPC)	440	398	398	9.79	408
	Roza TPS (IPP)	600	284	284	6.74	281
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	3405	3370	74.93	3122
	Vishnuparyag HPS (IPP)	400	173	174	4.08	170
	Other Hydro	527	221	0	1.77	74
	Cogeneration	951	50	50	1.20	50
	Total UP	7815	3849	3594	81.98	3246
	Uttarakhand	Total Hydro	1303	513	394	11.01
Total Uttarakhand		1303	513	394	11.01	459
Delhi	Rajghat TPS	135	106	104	2.49	104
	Delhi Gas Turbine	282	123	116	2.93	122
	Pragati Gas Turbine	330	303	312	7.35	306
	Rithala GPS	108	27	29	0.64	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	415	420	9.02	376
	Thermal (Total)	2000	974	981	22.43	935
	Total Delhi	2000	974	981	22.43	935
HP	Baspa HPS (IPP)	330	60	40	1.92	80
	Malana HPS (IPP)	101	1	0	0.46	19
	Other Hydro	571	257	222	6.15	256
	Total HP	1002	318	262	9	356
J & K	Baglihar HPS (IPP)	450	253	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	383	414	9.79	408
Total State Control Area Generation		27191	15147	14527	347.25	14299
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			259	1661	25.80	1075
Total Regional Availability(Gross)		47816	31812	26361	652.75	27028

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6901	1687	76.78	3199
State Control Area Hydro	5365	2024	1670	46.26	1927
Total Regional Hydro	15347	8925	3357	123.03	5126

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	-300	100	300	2.23	0.53	1.70
Gwalior-Agra (D/C)	168	597	747	0	8.19	0.00	8.19
Zerda-Kankroli	-181	-80	0	251	0.00	4.19	-4.19
Zerda-Bhinmal	-61	46	75	174	0.00	1.24	-1.24
Malanpur-Auraiya	-153	-93	0	219	0.00	3.16	-3.16
Badod-Kota/Morak	-110	-31	0	132	0.00	1.52	-1.52
Sub Total WR	-237	139			10.42	10.64	-0.22
Pusauli Bypass	-143	281	281	215	2.61	0.84	1.77
MZP- GKP (D/C)	300	604	746	0	11.83	0.00	11.83
Patna-Balia(D/C)	122	280	294	0	5.08	0.00	5.08
B'Sharif-Balia (D/C)	114	316	334	0	5.73	0.00	5.73
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	134	77	140	0	2.51	0.00	2.51
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-36	0	40	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	496	1522			27.76	1.74	26.02
Total IR Exch	259	1661			38.19	12.38	25.80

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
19.01	1.10	20.11	3.21	13.24	-4.16	1.56	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
19.16	9.24	28.40	26.02	-0.22	25.80	6.86	-9.46	-2.60

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	0.50	6.80	23.00	93.20	87.00	11.30	0.00

----- 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				
50.19	21.20	49.06	8.14	49.80	0.72	0.18	50.08	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	414	03:28	87	17:22	0.2	0.2	0.0	0.0
Gorakhpur	400	428	07:47	409	09:46	0.0	0.0	50.7	0.0
Bareilly	400	423	16:05	403	09:37	0.0	0.0	9.9	0.0
Kanpur	400	416	03:27	405	06:11	0.0	0.0	0.0	0.0
Dadri	400	419	03:28	405	09:35	0.0	0.0	0.0	0.0
Ballabgarh	400	422	03:28	406	09:39	0.0	0.0	7.7	0.0
Bawana	400	423	03:20	408	09:37	0.0	0.0	10.2	0.0
Bassi	400	429	03:29	404	14:38	0.0	0.0	25.6	0.0
Hissar	400	416	03:20	400	09:33	0.0	0.0	0.0	0.0
Moga	400	427	03:43	403	17:14	0.0	0.0	23.3	0.0
Abdullapur	400	426	03:31	409	16:35	0.0	0.0	27.0	0.0
Nalagarh	400	425	04:36	409	10:36	0.0	0.0	20.0	0.0
Kishenpur	400	426	03:55	400	17:13	0.0	0.0	17.1	0.0
Wagoora	400	412	02:12	379	07:13	1.0	24.8	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	509.97	1545.02	511.74	1635.65	273.34	367.01
Pong	426.72	384.05	420.94	931.43	423.05	1035.89	65.75	453.27
Tehri	829.79	740.04	817.60	962.25	NA	NA	66.90	89.00
Koteshwar	612.50	598.50	608.70	3.76	NA	NA	89.00	100.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	85.30	62.43
Rihand	268.22	252.98	265.08	619.90	257.95	199.30	NA	NA
RPS	352.80	343.81	350.47	NA	349.27	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.70	NA	298.00	NA	NA	NA
RSD	527.91	487.91	521.51	NA	521.23	NA	115.82	116.92

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 31.10.2011 :

Normal weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1- 125 MVAR bus reactor 1st time test charged at Balia on 22.07 hrs of 31.10.2011.

2- 500 MVA ICT -2 1st time test charged from 400 KV side at no load at Bahadurgarh on 20.04 of 31.10.2011.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER