

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.10.2011
Date of Reporting : 31.10.2011

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
29086	1678	30764	50.00	25397	1223	26620	50.09	638.1	46.20

* 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	50.19	10.83		61.02	44.40	33.89	-10.51	94.90	1.80
Haryana	64.73	1.11		65.83	35.33	33.04	-2.29	98.87	0.00
Rajasthan	78.87	2.89	0.89	82.64	37.47	49.48	12.00	132.12	13.82
Delhi	25.71			25.71	40.05	32.56	-7.49	58.27	0.02
UP	71.52	7.06	1.20	79.77	99.94	93.35	-6.59	173.12	28.27
Uttarakhand		11.25		11.25	10.49	14.14	3.65	25.39	1.10
HP		8.67		8.67	12.12	12.25	0.14	20.92	0.00
J & K		9.79	0.00	9.79	19.49	21.55	2.06	31.33	1.20
Chandigarh				0.00	3.39	3.15	-0.24	3.15	0.00
Total	291.01	51.58	2.09	344.67	302.67	293.39	-9.28	638.06	46.20

* 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	4447	150	-870	-163	3699	0	-376	-85	-2.83
Haryana	4600	0	-3	145	3579	0	49	122	2.54
Rajasthan	5866	66	671	-50	5699	573	719	-50	-1.20
Delhi	2869	2	-327	-80	1687	0	-519	11	-2.11
UP	7246	1300	-782	577	7714	650	155	577	13.84
Uttarakhand	1227	160	113	50	956	0	161	50	1.20
HP	1089	0	84	-313	706	0	-80	114	0.63
J&K	1574	0	70	-28	1255	0	177	51	0.43
Chandigarh	168	0	-18	18	102	0	3	18	0.43
Total	29086	1678	-1062	155	25397	1223	289	807	12.93

* 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	1821	1809	2012	44.04	1835	43.59	0.45
	Rihand I STPS	1000	845	525	1051	19.95	831	20.21	-0.26
	Rihand II STPS	1000	975	1038	1041	23.56	982	23.29	0.27
	Dadri I STPS	840	769	620	611	13.50	562	13.47	0.03
	Dadri II STPS	980	921	777	740	18.55	773	18.72	-0.18
	Unchahar I TPS	440	400	384	379	8.83	368	8.68	0.15
	Unchahar II TPS	440	398	359	318	8.24	343	7.92	0.32
	Unchahar III TPS	210	200	198	169	4.24	177	4.14	0.10
	ISTPP (Jhajihar)	500	470	492	482	10.85	452	11.13	-0.28
	Dadri GPS	830	804	594	562	12.95	539	13.32	-0.37
	Anta GPS	419	393	250	243	5.80	242	5.62	0.17
	Auraiya GPS	663	628	448	375	9.85	410	9.98	-0.13
	Sub Total (A)	9322	8625	7494	7983	180.33	7514	180.07	0.26
	B. NPC	NAPS	440	201	238	237	4.76	198	4.82
RAPS- B		440	409	454	456	9.85	410	9.82	0.03
RAPS- C		440	420	473	475	10.26	428	10.08	0.18
Sub Total (B)		1320	1030	1165	1168	24.87	1036	24.72	0.15
C. NHPC		Chamera I HPS	540	534	540	0	2.15	90	2.34
	Chamera II HPS	300	297	262	0	2.12	88	2.30	-0.17
	Bairasuil HPS	180	179	80	0	0.84	35	0.83	0.01
	Salal-HPS	690	218	222	220	4.89	204	5.23	-0.34
	Tanakpur-HPS	94	62	62	59	1.43	60	1.44	-0.01
	Uri-HPS	480	160	225	120	3.87	161	4.17	-0.30
	Dhauliganga-HPS	280	277	277	0	2.13	89	2.02	0.10
	Dulhasti-HPS	390	388	404	0	5.01	209	5.06	-0.06
	Sewa-II HPS	120	119	122	0	0.76	32	0.74	0.01
	Sub Total (C)	3074	2233	2194	399	23.18	966	24.13	-0.95
	D.NJPC	Nathpa Jhakri	1500	1600	1350	165	11.88	495	12.51
Sub Total (D)		1500	1600	1350	165	11.88	495	12.51	-0.63
E. THDC	Tehri HPS	1000	1040	1032	0	3.95	165	4.00	-0.05
	Koteshwar HPS	100	187	100	0	1.36	57	1.30	0.06
	Sub Total (E)	1100	1227	1132	0	5.31	221	5.30	0.01
F. BBMB	Bhakra HPS	1480	591	789	416	14.80	617	14.19	0.61
	Dehar HPS	990	231	495	140	5.86	244	5.55	0.31
	Pong HPS	396	319	366	306	7.98	333	7.66	0.32
	Sub Total (F)	2866	1141	1650	862	28.64	1193	27.40	1.25
	G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.00	0	0.69
KWHEP HPS(IPP)		1000	0	547	217	7.02	293	6.96	0.07
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	1.22	-1.22
Sub Total (G)		1442	0	547	217	7.02	293	8.87	-1.84
H. Total Regional Entities (A-G)	20625	15857	15532	10794	281.24	11718	282.99	-1.76	

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	1050.00	23.05	960	
	Guru Nanak Dev TPS(Bhatinda)	440	297.00	297.00	6.18	257	
	Guru Hargobind Singh TPS(L.mbt)	920	965.00	965.00	20.96	873	
	Thermal (Total)	2620	2307.00	2312.00	50.19	2091	
	Total Hydro	1148	454.00	452.00	10.83	451	
	Total Punjab	3768	2761	2764	61.02	2542	
Haryana	Panipat TPS	1360	1091.00	1104.00	28.23	1176	
	DCRTPP (Yamuna nagar)	600	266.00	0.00	3.60	150	
	Faridabad GPS (NTPC)	432	353.00	350.00	8.77	366	
	RGTPP (khedar) (IPP)	1200	968.00	809.00	24.12	1005	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2678.00	2263.00	64.73	2697	
	Total Hydro	62	46.00	40.00	1.11	46	
	Total Haryana	3679	2724	2303	65.83	2743	
Rajasthan	kota TPS	1240	1170.00	1171.00	27.59	1150	
	suratgarh TPS	1500	1157.00	1151.00	27.32	1138	
	Chabra TPS	500	225.00	226.00	5.45	227	
	Dholpur GPS	330	280.00	280.00	6.89	287	
	Ramgarh GPS	113	65.00	65.00	1.61	67	
	RAPS A (NPC)	300	174.00	175.00	4.33	180	
	Barsingsar (NLC)	250	57.00	70.00	1.34	56	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwest LTPS (IPP)	135	202.00	230.00	4.34	181	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	3330.00	3368.00	78.87	3286	
	Total Hydro	550	108.00	104.00	2.89	120	
	Wind power	1294	0.00	6.00	0.29	12	
	Biomass	71	25.00	25.00	0.60	25	
	Renewable/Others (Total)	1365	25	31	0.89	37	
	Total Rajasthan	6668	3463	3503	82.64	3443	
	UP	Anpara TPS	1630	1313	1161	30.70	1279
		Obra TPS	1442	422	403	9.90	413
Paricha TPS		640	367	374	8.80	367	
Panki TPS		210	149	144	3.40	142	
Harduaganj TPS		375	134	115	2.80	117	
Tanda TPS (NTPC)		440	393	397	9.75	406	
Roza TPS (IPP)		600	284	284	5.71	238	
Anpara-C (IPP)		600	0	0	0.00	0	
Thermal (Total)		5937	3090	2914	71.52	2980	
Vishnuparyag HPS (IPP)		400	183	174	4.12	172	
Other Hydro		527	132	0	2.94	122	
Cogeneration		951	50	50	1.20	50	
Total UP		7815	3455	3138	79.77	3152	
Uttarakhand		Total Hydro	1303	542	396	11.25	469
	Total Uttarakhand	1303	542	396	11.25	469	
Delhi	Rajghat TPS	135	105	103	2.47	103	
	Delhi Gas Turbine	282	115	115	7.40	308	
	Pragati Gas Turbine	330	302	313	2.80	117	
	Rithala GPS	108	25	29	2.60	108	
	Bawana GPS	440	0	26	2.24	93	
	Badarpur TPS (NTPC)	705	405	370	8.21	342	
	Thermal (Total)	2000	952	930	25.71	1071	
	Total Delhi	2000	952	930	25.71	1071	
HP	Baspa HPS (IPP)	330	57	57	2.18	91	
	Malana HPS (IPP)	101	2	0	0.45	19	
	Other Hydro	571	293	196	6.04	252	
	Total HP	1002	352	253	9	361	
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	14632	13701	344.67	14190	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			274	1727	28.76	1198	
Total Regional Availability(Gross)		47816	30438	26222	654.66	27106	

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6873	1643	76.03	3168
State Control Area Hydro	5365	2017	1659	47.46	1977
Total Regional Hydro	15347	8890	3302	123.49	5145

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	-300	200	200	300	0.97	3.87	-2.90
Gwalior-Agra (D/C)	212	411	903	0	10.97	0.00	10.97
Zerda-Kankroli	-104	-154	0	250	0.00	3.27	-3.27
Zerda-Bhinmal	-16	-24	132	170	0.34	0.00	0.34
Malanpur-Auraiya	-59	-114	0	160	0.00	2.63	-2.63
Badod-Kota/Morak	-41	-46	0	98	0.00	1.23	-1.23
Sub Total WR	-308	273			12.27	11.00	1.27
Pusauli Bypass	-50	107	202	160	2.35	0.46	1.89
MZP- GKP (D/C)	305	584	606	0	10.88	0.00	10.88
Patna-Balia(D/C)	137	360	427	0	7.20	0.00	7.20
B'Sharif-Balia (D/C)	91	363	416	0	6.08	0.00	6.08
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	130	76	141	0	2.34	0.00	2.34
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	582	1454			28.84	1.36	27.48
Total IR Exch	274	1727			41.11	12.36	28.76

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
17.59	1.42	19.01	2.21	12.95	-1.67	6.80	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
19.55	14.20	33.75	27.48	1.27	28.76	7.93	-12.92	-4.99

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	0.80	17.40	97.00	80.40	18.10	2.20

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				
50.43	17.05	49.39	12.31	49.85	0.49	0.16	50.34	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	417	19:15	406	12:50	0.0	0.0	0.0	0.0
Gorakhpur	400	431	19:16	407	09:28	0.0	0.0	61.2	0.3
Bareilly	400	426	21:41	403	09:23	0.0	0.0	27.1	0.0
Kanpur	400	420	17:30	405	09:21	0.0	0.0	0.0	0.0
Dadri	400	419	21:40	406	11:29	0.0	0.0	0.0	0.0
Ballabgarh	400	423	03:01	407	12:30	0.0	0.0	9.6	0.0
Bawana	400	424	03:17	408	11:31	0.0	0.0	15.6	0.0
Bassi	400	431	03:12	402	14:43	0.0	0.0	26.1	0.6
Hissar	400	417	23:56	399	11:31	0.0	0.0	0.0	0.0
Moga	400	422	03:00	278	01:37	0.1	0.1	4.6	0.0
Abdullapur	400	425	23:56	411	18:15	0.0	0.0	29.3	0.0
Nalagarh	400	427	00:14	388	18:15	0.0	0.3	62.2	0.0
Kishenpur	400	419	03:00	396	18:12	0.0	0.0	0.0	0.0
Wagoora	400	403	02:54	372	18:13	12.0	44.6	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	510.02	1545.02	511.79	1635.65	273.54	378.26
Pong	426.72	384.05	421.08	931.43	423.11	1035.89	65.53	453.04
Tehri	829.79	740.04	817.60	952.00	NA	NA	86.90	89.00
Koteshwar	612.50	598.50	608.70	3.98	NA	NA	89.00	90.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	77.78	58.43
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 30.10.2011 :

Normal weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :
1- 80 MVAR bus reactor at chamba charged on 12.55 hrs of 30.10.2011.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER