

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.11.2011
Date of Reporting : 01.12.2011

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
29551	2914	32465	49.67	24222	650	24872	50.14	657.2	40.62

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load 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	49.16	12.03		61.19	30.26	29.74	-0.51	90.93	4.30
Haryana	64.47	0.78		65.25	25.23	25.97	0.75	91.22	6.00
Rajasthan	82.69	5.31	6.94	94.94	50.49	53.98	3.49	148.92	3.03
Delhi	26.09			26.09	31.67	29.80	-1.87	55.88	0.83
UP	99.20	4.73	12.00	115.93	74.90	68.85	-6.04	184.78	24.11
Uttarakhand		9.56		9.56	15.41	16.09	0.68	25.65	0.45
HP		5.80		5.80	15.33	16.47	1.14	22.27	0.00
J & K		6.43	0.00	6.43	20.86	27.76	6.91	34.20	1.90
Chandigarh				0.00	3.43	3.32	-0.11	3.32	0.00
Total	321.60	44.65	18.94	385.19	267.56	271.98	4.42	657.17	40.62

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

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	4205	600	-132	-366	3224	0	-214	-540	-7.97
Haryana	4030	739	-159	-104	3170	0	-296	-107	-2.67
Rajasthan	6144	173	226	375	6288	0	595	500	13.44
Delhi	2983	2	-26	-424	1365	0	-368	-689	-12.27
UP	7874	1300	-767	124	7178	650	-223	124	2.98
Uttarakhand	1385	0	61	242	857	0	-10	242	5.82
HP	1141	0	-264	-317	713	0	194	4	-2.64
J&K	1607	100	141	96	1341	0	329	142	2.81
Chandigarh	182	0	-11	0	86	0	-13	-30	-0.24
Total	29551	2914	-931	-375	24222	650	-6	-355	-0.72

* 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	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS	2000	1921	2069	2063	46.42	1934	46.10	0.32
	Rihand I STPS	1000	817	1008	876	19.80	825	19.47	0.33
	Rihand II STPS	1000	451	0	1042	10.21	426	10.69	-0.48
	Dadri I STPS	840	385	429	462	9.36	390	9.24	0.12
	Dadri II STPS	980	922	977	729	21.36	890	21.14	0.22
	Unchahar I TPS	440	385	439	317	8.98	374	8.86	0.11
	Unchahar II TPS	440	385	437	308	8.92	372	8.77	0.15
	Unchahar III TPS	210	193	225	174	4.51	188	4.44	0.07
	ISTPP (Jhajjar)	1000	475	502	494	11.39	475	11.28	0.11
	Dadri GPS	830	751	570	476	14.34	597	14.52	-0.18
	Anta GPS	419	417	327	272	8.26	344	7.61	0.66
	Auraiya GPS	663	635	476	326	10.42	434	9.91	0.51
	Sub Total (A)	9822	7738	7459	7539	173.96	7248	172.03	1.93
B. NPC	NAPS	440	205	234	247	4.88	204	4.92	-0.04
	RAPS- B	440	406	453	445	9.76	407	9.73	0.03
	RAPS- C	440	420	470	473	10.08	420	10.08	-0.01
	Sub Total (B)	1320	1031	1157	1165	24.72	1030	24.73	-0.01
C. NHPC	Chamera I HPS	540	534	360	0	3.61	150	3.26	0.35
	Chamera II HPS	300	297	238	0	1.54	64	1.54	0.00
	Bairasuil HPS	180	120	20	0	0.55	23	0.51	0.04
	Salal-HPS	690	111	198	50	2.61	109	2.67	-0.06
	Tanakpur-HPS	94	39	38	30	0.93	39	0.98	-0.06
	Uri-HPS	480	120	0	20	2.70	112	2.96	-0.27
	Dhauliganga-HPS	280	277	211	0	1.19	50	1.39	-0.21
	Dulhasti-HPS	390	388	268	0	4.01	167	3.30	0.71
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	1887	1333	100	17.12	713	16.62	0.50
D. NJPC	Nathpa Jhakri	1500	1600	502	0	9.32	388	9.30	0.03
	Sub Total (D)	1500	1600	502	0	9.32	388	9.30	0.03
E. THDC	Tehri HPS	1000	1040	921	0	6.79	283	6.75	0.04
	Koteshwar HPS	200	69	172	0	1.59	66	1.50	0.09
	Sub Total (E)	1200	1109	1093	0	8.38	349	8.25	0.13
F. BBMB	Bhakra HPS	1480	704	1063	492	17.51	730	16.89	0.62
	Dehar HPS	990	159	495	0	4.08	170	3.83	0.26
	Pong HPS	396	245	306	186	6.16	257	5.89	0.27
	Sub Total (F)	2866	1108	1864	678	27.75	1156	26.60	1.15
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.44	18	0.44	-0.01
	KWHEP HPS(IPP)	1000	0	370	125	5.60	233	5.22	0.38
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	130	104	3.09	129	2.95	0.14
	Sub Total (G)	1442	0	500	229	9.13	380	8.61	0.51
H. Total Regional Entities (A-G)		21225	14472	13908	9711	270.38	11266	266.14	4.24

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	1060	1060	23.32	972
	Guru Nanak Dev TPS(Bhatinda)	440	215	215	4.63	193
	Guru Hargobind Singh TPS(L.mbt)	920	961	960	21.21	884
	Thermal (Total)	2620	2236	2235	49.16	2048
	Total Hydro	1148	433	281	12.03	501
	Total Punjab	3768	2669	2516	61.19	2550
Haryana	Panipat TPS	1360	1129	1120	27.30	1137
	DCRTPP (Yamuna nagar)	600	274	273	6.61	276
	Faridabad GPS (NTPC)	432	458	391	9.51	396
	RGTPP (khedar) (IPP)	1200	837	838	21.06	877
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Thermal (Total)	3617	2698	2622	64.47	2686
	Total Hydro	62	32	34	0.78	33
		Total Haryana	3679	2730	2656	65.25
Rajasthan	kota TPS	1240	1154	1164	27.46	1144
	suratgarh TPS	1500	1134	1155	27.15	1131
	Chabra TPS	500	409	400	9.35	390
	Dholpur GPS	330	252	253	6.15	256
	Ramgarh GPS	113	65	65	1.67	70
	RAPS A (NPC)	300	179	179	4.44	185
	Barsingar (NLC)	250	0	0	0.00	0
	Giral LTPS (IPP)	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	283	245	6.47	269
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3476	3461	82.69	3445
	Total Hydro	550	174	177	5.31	221
	Wind power	1294	25	43	0.98	41
	Biomass	71	27	27	0.65	27
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	52	70	6.94	289
		Total Rajasthan	7073	3702	3708	94.94
UP	Anpara TPS	1630	1529	1467	32.30	1346
	Obra TPS	1442	589	604	13.20	550
	Paricha TPS	640	399	401	8.70	363
	Panki TPS	210	195	170	3.80	158
	Harduaganj TPS	415	238	255	4.20	175
	Tanda TPS (NTPC)	440	400	328	9.53	397
	Roza TPS (IPP)	600	567	468	13.20	550
	Anpara-C (IPP)	1200	549	549	13.11	546
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	41	66	1.15	48
	Thermal (Total)	6757	4507	4308	99.20	4133
	Vishnuparyag HPS (IPP)	400	128	124	2.99	125
	Other Hydro	527	92	0	1.74	73
	Cogeneration	951	500	500	12.00	500
		Total UP	8635	5227	4932	115.93
Uttarakhand	Total Hydro	1303	510	273	9.56	398
	Total Uttarakhand	1303	510	273	9.56	398
Delhi	Rajghat TPS	135	98	102	2.40	100
	Delhi Gas Turbine	282	239	172	4.95	206
	Prahati Gas Turbine	330	302	299	7.57	315
	Rithala GPS	108	29	29	0.67	28
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	485	405	10.49	437
	Thermal (Total)	2000	1153	1007	26.09	1087
	Total Delhi	2000	1153	1007	26.09	1087
HP	Baspa HPS (IPP)	330	0	0	1.48	62
	Malana HPS (IPP)	101	2	0	0.33	14
	Other Hydro	571	212	87	4.00	167
	Total HP	1002	214	87	6	242
J & K	Baglihar HPS (IPP)	450	147	117	4.70	196
	Other Hydro	323	54	100	1.73	72
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	201	217	6.43	268
Total State Control Area Generation		28416	16406	15396	385.19	15925
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			388	868	19.22	801
Total Regional Availability(Gross)		49641	30702	25975	674.79	27991

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5292	1007	71.70	2987
State Control Area Hydro	5365	1656	1069	41.65	1736
Total Regional Hydro	15447	6948	2076	113.35	4723

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	-400	-500	0	500	0.00	10.37	-10.37
Gwalior-Agra (D/C)	328	498	782	242	9.91	0.00	9.91
Zerda-Kankroli	-166	-70	0	314	0.00	4.26	-4.26
Zerda-Bhinmal	-55	61	180	269	0.00	1.10	-1.10
Malanpur-Auraiya	-190	-116	0	198	0.00	3.47	-3.47
Badod-Kota/Morak	-121	-65	0	167	0.00	2.20	-2.20
Sub Total WR	-604	-192			9.91	21.39	-11.48
Pusauli Bypass	300	300	300	0	7.24	0.00	7.24
MZP- GKP (D/C)	215	290	586	0	8.63	0.00	8.63
Patna-Balia(D/C)	297	239	577	0	8.16	0.00	8.16
B'Sharif-Balia (D/C)	113	172	428	0	5.14	0.00	5.14
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	99	95	148	0	2.44	0.00	2.44
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-36	0	48	0.00	0.93	-0.93
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	992	1060			31.63	0.93	30.70
Total IR Exch	388	868			41.53	22.31	19.22

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
18.68	0.78	19.46	7.73	-6.31	-0.17	4.48	3.72	-3.72

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
30.74	-10.92	19.82	30.70	-11.48	19.22	-0.05	-0.55	-0.60

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	0.60	20.80	58.90	78.60	40.50	7.70	0.60

←----- 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				
50.28	4.05	49.05	17.43	49.67	1.56	0.22	50.23	49.36

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	410	19:35	398	08:10	0.0	0.0	0.0	0.0
Gorakhpur	400	430	04:04	403	09:34	0.0	0.0	44.5	0.0
Bareilly	400	427	04:04	397	08:37	0.0	0.0	19.5	0.0
Kanpur	400	422	04:03	397	08:12	0.0	0.0	1.2	0.0
Dadri	400	422	04:04	401	08:15	0.0	0.0	0.9	0.0
Ballabgarh	400	427	04:03	399	09:32	0.0	0.0	10.8	0.0
Bawana	400	424	04:04	400	09:36	0.0	0.0	5.8	0.0
Bassi	400	429	04:05	390	08:12	0.0	0.0	9.0	0.0
Hissar	400	414	04:04	391	08:13	0.0	0.0	0.0	0.0
Moga	400	418	20:54	394	08:12	0.0	0.0	0.0	0.0
Abdullapur	400	424	20:54	401	08:12	0.0	0.0	3.0	0.0
Nalagarh	400	411	13:22	404	10:14	0.0	0.0	0.0	0.0
Kishenpur	400	416	20:28	381	17:47	0.0	12.2	0.0	0.0
Wagoora	400	405	18:31	307	17:49	60.8	94.3	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	507.12	1411.35	509.18	1515.08	203.00	478.55
Pong	426.72	384.05	417.42	768.49	420.14	889.22	56.97	362.00
Tehri	829.79	740.04	816.20	922.25	818.65	982.26	73.38	153.00
Koteswar	612.50	598.50	601.50	1.15	NA	NA	153.00	105.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	50.30	NA
Rihand	268.22	252.98	264.44	575.10	257.65	185.70	NA	NA
RPS	352.80	343.81	350.66	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.73	NA	NA	NA	NA	NA
RSD	527.91	487.91	518.41	NA	518.92	NA	65.10	171.51

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 30.11.2011 :

1.Normal

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 : 30.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER