

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.02.2012
Date of Reporting : 12.02.2012

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
32692	2225	34917	49.95	27175	20	27195	50.25	731.7	44.97

* 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	43.36	12.17		55.53	40.21	48.03	7.82	103.56	5.97
Haryana	60.46	0.61		61.07	26.38	38.81	12.43	99.88	6.42
Rajasthan	92.80	4.91	9.54	107.24	49.08	55.87	6.80	163.12	1.46
Delhi	29.57			29.57	42.86	29.63	-13.23	59.20	0.14
UP	94.25	7.47	14.40	116.12	88.81	97.47	8.66	213.59	27.66
Uttarakhand		9.91		9.91	18.08	20.48	2.40	30.39	1.42
HP		3.93		3.93	19.79	19.22	-0.57	23.14	0.00
J & K		4.97	0.00	4.97	25.33	30.41	5.07	35.38	1.90
Chandigarh				0.00	3.53	3.49	-0.05	3.49	0.00
Total	320.44	43.95	23.94	388.32	314.08	343.41	29.33	731.73	44.97

* 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	4665	350	529	-287	4046	0	388	-401	-6.62
Haryana	4671	473	679	-127	3551	0	400	-127	-3.05
Rajasthan	6512	0	-344	12	6349	0	873	92	4.76
Delhi	3158	2	-301	-114	1447	0	-241	-431	-5.30
UP	9336	1150	435	265	8374	20	68	265	6.36
Uttarakhand	1436	150	30	380	1067	0	78	350	8.63
HP	1092	0	-331	158	759	0	131	323	6.78
J&K	1628	100	89	248	1495	0	339	255	5.68
Chandigarh	194	0	-27	0	86	0	-1	-41	-0.33
Total	32692	2225	759	536	27175	20	2035	285	16.91

* 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	1765	1894	1762	42.18	1757	42.03	0.15
	Rihand I STPS	1000	920	1001	894	21.98	916	21.76	0.23
	Rihand II STPS	1000	977	1036	908	23.29	970	23.02	0.27
	Dadri I STPS	840	798	638	625	16.20	675	16.26	-0.07
	Dadri II STPS	980	976	1030	709	21.62	901	22.10	-0.48
	Unchahar I TPS	440	406	437	407	9.65	402	9.65	0.01
	Unchahar II TPS	440	404	440	387	9.56	398	9.50	0.06
	Unchahar III TPS	210	202	220	190	4.75	198	4.73	0.02
	ISTPP (Jhajjar)	1000	193	254	0	3.15	131	4.44	-1.29
	Dadri GPS	830	846	760	603	16.71	696	16.95	-0.24
	Anta GPS	419	429	362	347	8.75	364	8.61	0.13
	Auraiya GPS	663	662	477	431	11.14	464	11.15	-0.02
	Sub Total (A)	9822	8579	8549	7263	188.96	7873	190.19	-1.24
	B. NPC	NAPS	440	139	158	161	3.34	139	3.34
RAPS- B		440	404	452	453	9.70	404	9.70	0.01
RAPS- C		440	420	474	476	10.26	427	10.08	0.18
Sub Total (B)		1320	963	1084	1090	23.30	971	23.11	0.19
C. NHPC	Chamera I HPS	540	534	540	0	2.51	104	2.51	-0.01
	Chamera II HPS	300	297	219	0	1.18	49	1.17	0.01
	Bairasuil HPS	180	120	120	0	0.82	34	0.73	0.08
	Salal-HPS	690	140	302	30	3.38	141	3.41	-0.03
	Tanakpur-HPS	94	26	25	18	0.56	23	0.55	0.01
	Uri-HPS	480	195	240	150	4.51	188	4.57	-0.06
	Dhauliganga-HPS	280	210	210	0	0.89	37	0.88	0.02
	Dulhasti-HPS	390	259	276	0	2.20	91	2.19	0.01
	Sewa-II HPS	120	115	69	0	0.95	40	0.99	-0.03
	Sub Total (C)	3074	1896	2001	198	16.99	708	16.99	0.00
D. NJPC	Nathpa Jhakri	1500	1050	1549	0	6.46	269	6.66	-0.20
	Sub Total (D)	1500	1050	1549	0	6.46	269	6.66	-0.20
E. THDC	Tehri HPS	1000	915	916	0	8.83	368	8.75	0.08
	Koteshwar HPS	200	138	201	0	3.90	163	3.80	0.10
	Sub Total (E)	1200	1053	1117	0	12.73	531	12.55	0.18
F. BBMB	Bhakra HPS	1480	782	993	571	19.26	803	18.76	0.50
	Dehar HPS	990	119	495	0	3.16	132	2.86	0.31
	Pong HPS	396	197	306	120	5.03	210	4.72	0.31
	Sub Total (F)	2866	1097	1794	691	27.45	1144	26.34	1.11
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.24	10	0.23	0.01
	KWHEP HPS(IPP)	1000	0	478	0	3.55	148	3.48	0.07
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	137	144	3.44	143	3.52	-0.08
	Sub Total (G)	1442	0	615	144	7.23	301	7.23	0.00
H. Total Regional Entities (A-G)	21225	14638	16709	9386	283.13	11797	283.08	0.05	

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	960	23.26	969
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.73	197
	Guru Hargobind Singh TPS(L.mbt)	920	705	702	15.37	640
	Thermal (Total)	2620	1968	1880	43.36	1807
	Total Hydro	1148	384	278	12.17	507
	Total Punjab	3768	2352	2158	55.53	2314
Haryana	Panipat TPS	1360	883	639	18.45	769
	DCRTPP (Yamuna nagar)	600	274	275	6.62	276
	Faridabad GPS (NTPC)	432	426	445	10.52	438
	RGTPP (kheldar) (IPP)	1200	1018	851	24.87	1036
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2601	2210	60.46	2519
	Total Hydro	62	23	23	0.61	25
	Total Haryana	4339	2624	2233	61.07	2544
	Rajasthan	kota TPS	1240	1174	1175	27.58
suratgarh TPS		1500	1361	1365	32.89	1371
Chabra TPS		500	431	120	6.99	291
Dholpur GPS		330	230	230	5.46	227
Ramgarh GPS		113	40	44	1.04	43
RAPS A (NPC)		300	192	192	4.75	198
Barsingsar (NLC)		250	142	188	4.65	194
Giral LTPS (IPP)		250	45	0	0.82	34
Rajwest LTPS (IPP)		540	345	345	8.62	359
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5158	3960	3659	92.80	3867
Total Hydro		550	195	147	4.91	204
Wind power		1294	103	134	3.58	149
Biomass		71	44	44	1.05	44
Solar		50	0	0	0.00	0
Renewable/Others (Total)		1365	147	178	9.54	397
Total Rajasthan		7073	4302	3984	107.24	4469
UP		Anpara TPS	1630	1381	1404	33.20
	Obra TPS	1442	602	596	14.20	592
	Paricha TPS	640	234	228	5.40	225
	Panki TPS	210	162	140	3.70	154
	Harduaganj TPS	415	43	261	4.20	175
	Tanda TPS (NTPC)	440	397	398	9.74	406
	Roza TPS (IPP)	900	565	562	13.34	556
	Anpara-C (IPP)	1200	396	411	9.45	394
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	41	41	1.02	43
	Thermal (Total)	7057	3821	4041	94.25	3927
	Vishnuparyag HPS (IPP)	400	69	74	1.68	70
	Other Hydro	527	285	0	5.78	241
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	4775	4715	116.12	4768
	Uttarakhand	Total Hydro	1303	525	303	9.91
Total Uttarakhand		1303	525	303	9.91	413
Delhi	Rajghat TPS	135	99	102	2.48	103
	Delhi Gas Turbine	282	84	77	1.89	79
	Pragati Gas Turbine	330	310	267	7.30	304
	Rithala GPS	108	19	19	0.29	12
	Bawana GPS	440	180	46	4.59	191
	Badarpur TPS (NTPC)	705	575	575	13.02	542
	Thermal (Total)	2000	1267	1197	29.57	1232
	Total Delhi	2000	1267	1197	29.57	1232
HP	Baspa HPS (IPP)	330	0	0	1.00	41
	Malana HPS (IPP)	101	0	0	0.07	3
	Other Hydro	571	157	54	2.86	119
	Total HP	1002	157	54	4	164
J & K	Baglihar HPS (IPP)	450	150	148	3.59	150
	Other Hydro	323	27	125	1.38	57
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	177	273	4.97	207
Total State Control Area Generation		29376	16179	14917	388.32	16110
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1558	3711	75.30	3138
Total Regional Availability(Gross)		50601	34446	28014	746.75	31044

IV. Total Hydro Generation:

Regional Entities Hydro	10083	7076	1033	70.87	2953
State Control Area Hydro	5365	1746	1078	42.27	1761
Total Regional Hydro	15447	8822	2111	113.13	4714

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	400	400	0	5.68	0.00	5.68
Gwalior-Agra (D/C)	364	1064	1223	0	22.00	0.00	22.00
Zerda-Kankroli	-111	46	82	111	0.62	0.00	0.62
Zerda-Bhinmal	-18	172	286	43	3.28	0.00	3.28
Malanpur-Auraiya	-104	-74	0	143	0.00	1.18	-1.18
Badod-Kota/Morak	5	47	60	49	0.58	0.00	0.58
Sub Total WR	336	1655			32.14	1.18	30.96
Pusauli Bypass	-147	156	189	147	2.07	0.28	1.79
MZP- GKP (D/C)	464	760	838	0	15.86	0.00	15.86
Patna-Balia(D/C)	335	480	519	0	10.73	0.00	10.73
B'Sharif-Balia (D/C)	205	279	341	0	6.40	0.00	6.40
Barh - balia(D/C)	232	314	342	0	7.23	0.00	7.23
Pusauli-Sahupuri	163	99	172	0	3.09	0.00	3.09
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.76	-0.76
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1222	2056			45.38	1.04	44.34
Total IR Exch	1558	3711			77.52	2.22	75.30

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
22.48	0.65	23.13	7.16	10.45	0.54	11.17	2.70	-2.70

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
33.54	16.59	50.13	44.34	30.96	75.30	10.80	14.37	25.17

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	0.30	1.30	22.60	97.70	76.40	20.90	1.00

<----- 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					
50.29	6.05	49.15	9.28	49.84	0.56	0.18	50.26	49.51

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	401	02:23	387	14:21	0.0	22.1	0.0	0.0
Gorakhpur	400	427	03:34	412	08:14	0.0	0.0	39.9	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	416	20:46	397	08:09	0.0	0.0	0.0	0.0
Dadri	400	417	03:49	398	08:24	0.0	0.0	0.0	0.0
Ballabgarh	400	421	03:47	398	10:34	0.0	0.0	2.0	0.0
Bawana	400	423	03:51	400	08:20	0.0	0.0	5.7	0.0
Bassi	400	423	21:58	393	08:13	0.0	0.0	2.4	0.0
Hissar	400	412	21:56	390	13:37	0.0	0.0	0.0	0.0
Moga	400	426	05:03	396	13:59	0.0	0.0	10.5	0.0
Abdullapur	400	421	03:40	398	08:47	0.0	0.0	2.1	0.0
Nalagarh	400	423	03:04	403	10:34	0.0	0.0	5.8	0.0
Kishenpur	400	423	05:03	390	15:55	0.0	0.0	0.3	0.0
Wagoora	400	410	05:03	375	15:55	7.5	62.4	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	492.98	827.99	496.68	971.87	162.71	566.05
Pong	426.72	384.05	410.25	504.32	413.67	622.40	73.68	320.04
Tehri	829.79	740.04	793.10	493.30	818.65	982.26	49.67	224.00
Koteshwar	612.50	598.50	608.60	3.98	NZ	NA	224.00	269.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	61.11	68.15
Rihand	268.22	252.98	262.80	435.50	256.30	131.20	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	500.86	NA	504.02	NA	65.44	211.36

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 11.02.2012 :

Cold & Normal weather.

XII. Synchronisation of new generating units :

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

1. ICT-2 (315 MVA) at Deepalpur has been charged(first time) at 13.05 hrs of 11.02.2012.

2- 400 kV Kabulpur-Deepalpur -I has been charged first time at 17.50 hrs from Kabulpur upto line isolator of Deepalpur.

3- 400 kV Kabulpur-Deepalpur -II has been charged first time at 18.00 hrs from Kabulpur upto line isolator of Deepalpur.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 11.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER