पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.02.2012
Date of Reporting : 26.02.2012

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
31450	2014	33464	49.86	26736	670	27406	50.09	718.6	34.43

* 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:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule	Actual Drawal	UI	Consumption	Shortages *
	Thermal	Hydro	Renewable/others $	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)
Punjab	52.89	11.77		64.67	37.16	36.97	-0.19	101.63	1.80
Haryana	49.52	0.58		50.10	25.35	49.94	24.58	100.03	5.67
Rajasthan	82.35	4.97	17.15	104.48	50.56	61.44	10.87	165.91	0.16
Delhi	24.82			24.82	41.23	29.54	-11.69	54.36	0.02
UP	90.57	7.61	14.40	112.58	91.58	95.58	4.00	208.15	22.91
Uttarakhand		9.69		9.69	18.56	18.10	-0.46	27.79	1.54
HP		5.04		5.04	19.70	18.51	-1.18	23.56	0.03
J & K		5.89	0.00	5.89	27.88	27.87	-0.01	33.76	2.30
Chandigarh				0.00	3.72	3.36	-0.36	3.36	0.00
Total	**300.16**	**45.55**	**31.55**	**377.26**	**315.73**	**341.29**	**25.56**	**718.55**	**34.43**

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

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transactio	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	4556	150	-30	-287	3526	0	-218	-407	-6.66
Haryana	4260	714	888	-127	3420	0	505	-127	-3.05
Rajasthan	6221	0	352	62	7042	0	853	112	5.45
Delhi	2908	0	-323	-78	1358	0	-642	-350	-3.99
UP	9423	850	731	265	8227	670	123	265	6.36
Uttarakhand	1352	150	-28	350	984	0	32	350	8.40
HP	1030	0	-222	223	764	0	-11	323	7.25
J&K	1515	150	-21	248	1331	0	-5	255	5.67
Chandigarh	185	0	-19	0	84	0	-4	-41	-0.33
Total	**31450**	**2014**	**1328**	**656**	**26736**	**670**	**633**	**379**	**19.11**

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

	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	1960	2103	2098	47.54	1981	46.82	0.72
	Rihand I STPS	1000	920	998	954	22.02	917	21.80	0.21
	Rihand II STPS	1000	975	1038	1005	23.31	971	23.03	0.28
	Dadri I STPS	840	800	644	623	14.44	601	14.39	0.04
	Dadri II STPS	980	976	910	742	20.21	842	20.99	-0.79
	Unchahar I TPS	440	406	442	396	9.44	393	9.50	-0.06
	Unchahar II TPS	440	404	439	38	9.59	400	9.24	0.35
	Unchahar III TPS	210	202	219	197	4.77	199	4.63	0.14
	ISTPP (Jhajjhar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	842	532	554	13.48	562	13.61	-0.13
	Anta GPS	419	423	297	306	7.58	316	7.40	0.18
	Auraiya GPS	663	641	362	431	9.74	406	9.68	0.06
	Sub Total (A)	**9822**	**8549**	**7984**	**7344**	**182.10**	**7588**	**181.09**	**1.01**
B. NPC	NAPS	440	138	160	159	3.09	129	3.31	-0.22
	RAPS- B	440	420	466	470	10.16	424	10.08	0.08
	RAPS- C	440	420	470	477	10.09	420	10.08	0.00
	Sub Total (B)	**1320**	**978**	**1096**	**1106**	**23.34**	**972**	**23.47**	**-0.13**
C. NHPC	Chamera I HPS	540	534	540	0	5.20	216	5.22	-0.02
	Chamera II HPS	300	198	176	0	1.72	72	1.91	-0.19
	Bairasuil HPS	180	179	179	0	1.78	74	1.82	-0.04
	Salal-HPS	690	200	305	156	4.79	200	4.95	-0.16
	Tanakpur-HPS	94	25	30	19	0.50	21	0.51	-0.01
	Uri-HPS	480	363	416	379	8.81	367	9.50	-0.69
	Dhauliganga-HPS	280	277	215	0	0.84	35	0.80	0.04
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	126	59	2.38	99	2.40	-0.03
	Sub Total (C)	**3074**	**1894**	**1987**	**613**	**26.01**	**1084**	**27.12**	-1.11
D.NJPC	Nathpa Jhakri	1500	1133	1224	0	6.06	253	6.20	-0.14
	Sub Total (D)	1500	1133	1224	0	6.06	253	6.20	-0.14
E. THDC	Tehri HPS	1000	860	868	0	7.98	333	8.00	-0.02
	Koteshwar HPS	200	175	300	0	2.90	121	2.80	0.10
	Sub Total (E)	**1200**	**1035**	**1168**	**0**	**10.88**	**453**	**10.80**	0.08
F. BBMB	Bhakra HPS	1480	740	996	393	18.10	754	17.76	0.34
	Dehar HPS	990	154	495	0	4.24	177	3.69	0.55
	Pong HPS	396	171	306	66	4.35	181	4.12	0.23
	Sub Total (F)	**2866**	**1065**	**1797**	**459**	**26.69**	**1112**	**25.57**	1.12
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.19	8	0.18	0.01
	KWHEP HPS(IPP)	1000	0	275	0	2.86	119	2.79	0.06
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	145	144	3.48	145	3.46	0.02
	Sub Total (G)	1442	0	420	144	6.53	272	6.44	0.09
H. Total Regional Entities (A-G)		**21225**	**14655**	**15676**	**9666**	**281.61**	**11734**	**280.69**	**0.91**

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	1255	1110	26.93	1122
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.76	198
	Guru Hargobind Singh TPS(L.mbt)	920	966	866	21.21	884
	Thermal (Total)	2620	2440	2195	52.89	2204
	Total Hydro	1148	361	277	11.77	490
	Total Punjab	**3768**	**2801**	**2472**	**64.67**	**2694**
Haryana	Panipat TPS	1360	839	856	20.00	833
	DCRTPP (Yamuna nagar)	600	279	278	6.88	287
	Faridabad GPS (NTPC)	432	420	435	10.16	423
	RGTPP (khedar) (IPP)	1200	482	479	12.47	520
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2020	2048	49.52	2063
	Total Hydro	62	24	22	0.58	24
	Total Haryana	**4339**	**2044**	**2070**	**50.10**	**2087**
Rajasthan	kota TPS	1240	1158	1168	27.43	1143
	suratgarh TPS	1500	1116	1121	26.91	1121
	Chabra TPS	500	201	219	5.29	221
	Dholpur GPS	330	185	194	4.67	194
	Ramgarh GPS	113	43	45	1.10	46
	RAPS A (NPC)	300	183	185	4.56	190
	Barsingsar (NLC)	250	98	98	2.57	107
	Giral LTPS (IPP)	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	412	440	9.82	409
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3396	3470	82.35	3431
	Total Hydro	550	213	147	4.97	207
	Wind power	1294	216	810	11.21	467
	Biomass	71	52	52	0.98	41
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	268	862	17.15	715
	Total Rajasthan	**7073**	**3877**	**4479**	**104.48**	**4353**
UP	Anpara TPS	1630	1366	1040	30.50	1271
	Obra TPS	1442	486	553	12.70	529
	Paricha TPS	640	207	196	4.90	204
	Panki TPS	210	131	187	3.70	154
	Harduaganj TPS	415	228	214	5.30	221
	Tanda TPS (NTPC)	440	406	400	9.80	408
	Roza TPS (IPP)	900	549	547	12.63	526
	Anpara-C (IPP)	1200	381	354	9.11	380
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	36	107	1.94	81
	Thermal (Total)	7057	3790	3598	90.57	3774
	Vishnuparyag HPS (IPP)	400	69	65	1.63	68
	Other Hydro	527	280	0	5.98	249
	Cogeneration	951	600	600	14.40	600
	Total UP	**8935**	**4739**	**4263**	**112.58**	**4623**
Uttarakhand	Total Hydro	1303	517	308	9.69	404
	Total Uttarakhand	**1303**	**517**	**308**	**9.69**	**404**
Delhi	Rajghat TPS	135	99	105	2.34	98
	Delhi Gas Turbine	282	83	82	1.95	81
	Pragati Gas Turbine	330	312	265	7.24	302
	Rithala GPS	108	26	24	0.62	26
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	575	555	12.67	528
	Thermal (Total)	2000	1095	1031	24.82	1034
	Total Delhi	**2000**	**1095**	**1031**	**24.82**	**1034**
HP	Baspa HPS (IPP)	330	0	0	0.97	40
	Malana HPS (IPP)	101	0	0	0.25	10
	Other Hydro	571	170	133	3.83	160
	Total HP	**1002**	**170**	**133**	**5**	**210**
J & K	Baglihar HPS (IPP)	450	150	140	3.92	163
	Other Hydro	323	84	90	1.97	82
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**234**	**230**	**5.89**	245
Total State Control Area Generation		**29376**	**15477**	**14986**	**377.26**	**15651**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**2502**	**2669**	**73.89**	**3079**
Total Regional Availability(Gross)		**50601**	**33655**	**27321**	**732.76**	**30464**

IV. Total Hydro Generation:

Regional Entities Hydro	**10083**	**6596**	**1216**	**76.17**	**3174**
State Control Area Hydro	**5365**	**1799**	**1117**	**43.92**	**1830**
Total Regional Hydro	**15447**	**8395**	**2333**	**120.08**	**5004**

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
	MW	MW	Import	Export	Import	Export	MU
Vindhychal B/B	200	100	200	0	2.21	0.00	2.21
Gwalior-Agra (D/C)	420	743	1265	0	20.73	0.00	20.73
Zerda-Kankroli	51	-37	168	44	1.03	0.00	1.03
Zerda-Bhinmal	117	11	297	26	2.78	0.00	2.78
Malanpur-Auraiya	-110	-106	0	115	0.00	1.25	-1.25
Badod-Kota/Morak	65	30	88	0	0.93	0.00	0.93
Sub Total WR	**743**	**741**			**27.68**	**1.25**	**26.43**
Pusauli Bypass	-101	271	271	168	2.48	0.47	2.02
MZP- GKP (D/C)	572	514	914	0	14.25	0.00	14.25
Patna-Balia(D/C)	540	359	771	0	11.60	0.00	11.60
B'Sharif-Balia (D/C)	284	324	433	0	7.71	0.00	7.71
Barh - balia(D/C)	329	384	472	0	9.49	0.00	9.49
Pusauli-Sahupuri	165	108	171	0	3.35	0.00	3.35
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1759**	**1928**			**48.88**	**1.41**	**47.47**
Total IR Exch	**2502**	**2669**			**76.55**	**2.66**	**73.89**

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
25.45	0.23	25.68	10.95	10.30	-0.20	-1.28	2.84	-2.84

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
39.26	3.76	43.02	47.47	26.43	73.89	8.21	22.66	30.87

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	0.30	12.20	96.50	84.60	24.00	3.20

<---------- Frequency (Hz) ---------->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.37	17.33	49.36	18.42	49.89	0.37	0.16	50.27	49.71

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	404	03:59	395	14:59	0.0	0.0	0.0	0.0
Gorakhpur	400	433	02:25	401	14:22	0.0	0.0	38.2	3.4
Bareilly	400	421	04:00	394	12:16	0.0	0.0	0.1	0.0
Kanpur	400	415	04:00	396	12:20	0.0	0.0	0.0	0.0
Dadri	400	420	03:54	396	12:11	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	03:58	396	12:20	0.0	0.0	8.4	0.0
Bawana	400	423	03:59	396	12:13	0.0	0.0	8.2	0.0
Bassi	400	421	20:57	393	11:17	0.0	0.0	0.5	0.0
Hissar	400	416	20:57	387	12:11	0.0	2.5	0.0	0.0
Moga	400	426	05:06	400	11:17	0.0	0.0	20.7	0.0
Abdullapur	400	423	20:54	396	16:02	0.1	0.1	4.7	0.0
Nalagarh	400	427	05:05	398	13:47	0.0	0.0	24.3	0.0
Kishenpur	400	418	04:00	390	10:28	0.0	0.0	0.0	0.0
Wagoora	400	400	18:02	376	11:15	14.5	72.5	0.0	0.0

VIII. Reservior Parameters:

Name of Reservior	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	488.75	700.02	494.53	880.64	160.02	563.03
Pong	426.72	384.05	408.57	444.61	412.08	566.84	74.76	283.00
Tehri	829.79	740.04	786.00	398.53	818.65	982.26	50.86	211.00
Koteshwar	612.50	598.50	608.25	3.76	NA	NA	211.00	192.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	117.85	140.72
Rihand	268.22	252.98	261.58	394.20	255.67	NA	NA	NA
RPS	352.80	343.81	348.56	NA	NA	NA	NA	283.76
Jawahar Sagar	298.70	295.78	297.91	NA	NA	NA	NA	318.93
RSD	527.91	487.91	498.53	NA	504.40	NA	100.67	210.90

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.02.2012 :

1. Normal Weather.

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 : 25.02.2012 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**