पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.02.2014
Date of Reporting : 11.02.2014

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
35584	2960	38544	49.92	26777	1300	28077	50.08	762.3	49.70

* 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	39.62	8.50		48.12	36.83	37.65	0.82	85.76	0.00
Haryana	44.06	0.44		44.50	54.99	54.78	-0.21	99.29	0.44
Rajasthan	88.57	5.26	3.06	96.88	90.71	93.00	2.29	189.88	5.30
Delhi	20.91			20.91	41.59	40.88	-0.71	61.78	0.14
UP	114.50	3.71	16.80	135.01	87.72	88.17	0.45	223.18	41.37
Uttarakhand		8.68		8.68	22.58	25.40	2.82	34.08	0.45
HP		4.92		4.92	19.35	19.15	-0.20	24.06	0.29
J & K		6.16	0.00	6.16	32.82	34.34	1.53	40.50	1.70
Chandigarh				0.00	3.20	3.72	0.52	3.72	0.00
Total	**307.65**	**37.66**	**19.86**	**365.17**	**389.78**	**397.08**	**7.30**	**762.25**	**49.70**

*** 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 transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	4599	0	-24	-368	2704	0	98	-4	-8.28
Haryana	5168	0	-576	-162	3111	0	116	-497	-12.40
Rajasthan	7732	575	277	889	7164	0	129	1481	35.66
Delhi	3224	0	-126	-754	1383	0	-7	-1434	-22.28
UP	10027	2210	-128	413	9058	1300	305	435	6.53
Uttarakhand	1705	75	292	496	1063	0	29	480	11.36
HP	1171	0	-11	298	640	0	-74	381	8.48
J&K	1762	100	-141	547	1566	0	145	635	12.81
Chandigarh	196	0	7	0	89	0	12	-10	-0.05
Total	**35584**	**2960**	**-430**	**1359**	**26777**	**1300**	**752**	**1466**	**31.84**

* 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	1600	1733	1711	38.74	1614	38.40	0.34
	Rihand I STPS	1000	792	1021	738	19.17	799	18.48	0.68
	Rihand II STPS	1000	960	1049	809	22.41	934	22.24	0.17
	Rihand III STPS	1000	463	521	485	11.21	467	11.04	0.16
	Dadri I STPS	840	727	870	607	16.32	680	16.38	-0.06
	Dadri II STPS	980	862	879	690	20.06	836	20.12	-0.06
	Unchahar I TPS	420	406	441	338	9.00	375	9.01	-0.01
	Unchahar II TPS	420	405	443	310	8.65	360	8.66	-0.01
	Unchahar III TPS	210	202	219	153	4.34	181	4.36	-0.02
	ISTPP (Jhajjhar)	1500	1500	1047	633	19.71	821	19.86	-0.15
	Dadri GPS	830	840	602	522	13.71	571	13.84	-0.13
	Anta GPS	419	418	415	253	7.18	299	7.20	-0.02
	Auraiya GPS	663	670	160	166	3.77	157	3.85	-0.08
	Sub Total (A)	**11282**	**9846**	**9400**	**7415**	**194.26**	**8094**	**193.44**	**0.81**
B. NPC	NAPS	440	293	336	340	7.18	299	7.03	0.15
	RAPS- B	440	266	227	231	4.86	203	6.39	-1.53
	RAPS- C	440	430	475	474	10.25	427	10.32	-0.07
	Sub Total (B)	**1320**	**989**	**1038**	**1045**	**22.29**	**929**	**23.74**	**-1.45**
C. NHPC	Chamera I HPS	540	540	540	0	2.99	125	2.90	0.09
	Chamera II HPS	300	200	198	0	0.64	27	0.76	-0.12
	Chamera III HPS	231	0	0	0	0.04	2	0.00	0.04
	Bairasuil HPS	180	182	120	0	1.03	43	0.94	0.10
	Salal-HPS	690	150	230	122	3.70	154	3.48	0.21
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	244	324	210	5.92	247	5.96	-0.04
	Uri-II HPS	180	97	187	72	2.43	101	2.31	0.12
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	271	0	1.71	71	1.65	0.07
	Sewa-II HPS	120	119	126	0	1.16	48	1.14	0.02
	Sub Total (C)	**3485**	**1791**	**1996**	**404**	**19.62**	**817**	**19.13**	**0.49**
D.NJPC	Nathpa Jhakri	1500	1605	747	0	5.70	237	5.93	-0.23
	Sub Total (D)	1500	1605	747	0	5.70	237	5.93	-0.23
E. THDC	Tehri HPS	1000	930	927	0	7.61	317	7.50	0.11
	Koteshwar HPS	400	116	301	0	2.88	120	2.80	0.08
	Sub Total (E)	**1400**	**1046**	**1228**	**0**	**10.49**	**437**	**10.30**	**0.19**
F. BBMB	Bhakra HPS	1497	616	980	390	15.00	625	14.78	0.22
	Dehar HPS	990	134	330	0	3.72	155	3.22	0.50
	Pong HPS	396	154	306	60	3.79	158	3.71	0.08
	Sub Total (F)	**2883**	**904**	**1616**	**450**	**22.51**	**938**	**21.70**	**0.81**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.31	13	0.29	0.01
	KWHEP HPS(IPP)	1000	0	0	0	2.98	124	3.00	-0.02
	Malana Stg-II HPS	100	0	0	0	0.13	6	0.13	0.01
	Shree Cement TPS	300	0	260	143	5.29	220	5.32	-0.03
	Budhil HPS(IPP)	70	0	8	0	0.12	5	0.19	-0.07
	Sub Total (G)	1662	0	268	143	8.82	368	8.93	-0.11
H. Total Regional Entities (A-G)		**23532**	**16182**	**16293**	**9457**	**283.68**	**11820**	**283.17**	**0.51**

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	640	640	15.55	648
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	2.00	83
	Guru Hargobind Singh TPS(L.mbt)	920	724	500	13.58	566
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	649	282	8.49	354
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2093	1502	39.62	1651
	Total Hydro	1148	363	354	8.50	354
	Total Punjab	**5128**	**2456**	**1856**	**48.12**	**2005**
Haryana	Panipat TPS	1367	224	223	5.27	220
	DCRTPP (Yamuna nagar)	600	280	510	8.45	352
	Faridabad GPS (NTPC)	432	199	170	4.56	190
	RGTPP (khedar) (IPP)	1200	569	496	13.02	543
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	619	372	12.76	532
	Thermal (Total)	4944	1891	1771	44.06	1836
	Total Hydro	62	16	19	0.44	18
	Total Haryana	**5006**	**1907**	**1790**	**44.50**	**1854**
Rajasthan	kota TPS	1240	1147	1156	27.26	1136
	suratgarh TPS	1500	1128	1351	28.84	1202
	Chabra TPS	750	407	219	8.72	363
	Dholpur GPS	330	113	128	2.91	121
	Ramgarh GPS	221	61	40	1.41	59
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingsar (NLC)	250	210	208	4.86	203
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	0	0	0.00	0
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	577	94	10.45	435
	Thermal (Total)	7976	3818	3371	88.57	3690
	Total Hydro	550	275	210	5.26	219
	Wind power	2191	52	23	2.12	88
	Biomass	91	20	20	0.49	20
	Solar	201	4	0	0.45	19
	Renewable/Others (Total)	2483	72	43	3.06	127
	Total Rajasthan	**11009**	**4165**	**3624**	**96.88**	**4037**
UP	Anpara TPS	1630	989	561	19.90	829
	Obra TPS	1288	475	483	11.70	488
	Paricha TPS	1140	849	761	19.50	813
	Panki TPS	210	59	59	1.40	58
	Harduaganj TPS	665	427	430	10.30	429
	Tanda TPS (NTPC)	440	362	399	9.75	406
	Roza TPS (IPP)	1200	1080	792	20.55	856
	Anpara-C (IPP)	1200	536	540	12.82	534
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	362	365	8.59	358
	Thermal (Total)	8223	5139	4390	114.50	4771
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	175	135	3.71	155
	Cogeneration	981	700	700	16.80	700
	Total UP	**10131**	**6014**	**5225**	**135.01**	**5625**
Uttarakhand	Total Hydro	1303	555	171	8.68	362
	Total Uttarakhand	**1303**	**555**	**171**	**8.68**	**362**
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	162	158	3.91	163
	Pragati Gas Turbine	330	317	269	7.20	300
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	215	510	9.80	408
	Thermal (Total)	2232	694	937	20.91	871
	Total Delhi	**2232**	**694**	**937**	**20.91**	**871**
HP	Baspa HPS (IPP)	330	0	34	1.18	49
	Malana HPS (IPP)	86	0	0	0.25	10
	Other Hydro	589	167	121	3.49	145
	Total HP	**1005**	**167**	**155**	**4.92**	**205**
J & K	Baglihar HPS (IPP)	450	148	146	3.51	146
	Other Hydro	323	89	129	2.65	110
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**237**	**275**	**6.16**	257
Total State Control Area Generation		**36770**	**16195**	**14033**	**365.17**	**15216**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**5253**	**4345**	**128.34**	**5347**
Total Regional Availability(Gross)		**60303**	**37741**	**27835**	**777.19**	**32383**

IV. Total Hydro Generation:

Regional Entities Hydro	**10560**	**5587**	**854**	**61.73**	**2572**
State Control Area Hydro	**5368**	**1788**	**1319**	**37.66**	**1569**
Total Regional Hydro	**15928**	**7375**	**2173**	**99.40**	**4141**

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	500	300	500	0	10.74	0.00	10.74
Gwalior-Agra (D/C)	1570	1480	1988	0	37.52	0.00	37.52
Zerda-Kankroli	-13	-120	211	134	1.22	0.00	1.22
Zerda-Bhinmal	147	32	418	0	4.72	0.00	4.72
Malanpur-Auraiya	-91	-78	0	110	0.00	2.04	-2.04
Badod-Kota/Morak	-33	-20	71	40	0.00	0.07	-0.07
Mundra-Mohindergarh(HVDC)	2000	1900	2004	0	48.32	0.00	48.32
Sub Total WR	**4080**	**3494**			**102.51**	**2.11**	**100.40**
Pusauli Bypass	-420	-364	0	509	0.00	8.37	-8.37
MZP- GKP (D/C)	157	152	341	0	4.43	0.00	4.43
Patna-Balia(D/C)	700	491	772	0	13.56	0.00	13.56
B'Sharif-Balia (D/C)	416	228	468	0	6.91	0.00	6.91
Pusauli-Balia	76	9	85	20	0.40	0.00	0.40
Gaya-Fatehpur (765 Kv)	-15	5	248	90	1.31	0.00	1.31
Pusauli-Sahupuri	138	154	223	0	3.58	0.00	3.58
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-28	0	34	0.00	0.64	-0.64
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	152	204	517	0	6.75	0.00	6.75
Sub Total ER	**1173**	**851**			**36.94**	**9.01**	**27.93**
Total IR Exch	**5253**	**4345**			**139.45**	**11.12**	**128.34**

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
29.73	0.60	30.33	15.39	2.12	5.76	3.81	0.07	-0.07

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
51.54	74.63	126.18	27.93	100.40	128.34	-23.61	25.77	2.16

VI. Frequency Profile <-- % of Time Frequency -->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.30	93.80	5.30	93.50	43.20	6.20

<------------------------ 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	22.04	49.67	9.11	49.99	0.16	0.13	50.31	49.86

VII. Voltage profile 400 kV

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	413	02:55	404	18:25	0.0	0.0	0.0	0.0
Gorakhpur	400	426	13:34	400	19:42	0.0	0.0	48.3	0.0
Bareilly	400	422	20:21	399	14:35	0.0	0.0	3.2	0.0
Kanpur	400	419	03:30	401	14:33	0.0	0.0	0.0	0.0
Dadri	400	426	03:29	407	09:23	0.0	0.0	23.1	0.0
Ballabhgarh	400	434	03:42	410	14:43	0.0	0.0	54.3	11.0
Bawana	400	431	03:31	410	14:34	0.0	0.0	45.9	0.7
Bassi	400	433	05:01	392	09:29	0.0	0.0	22.9	2.4
Hissar	400	420	03:30	399	14:34	0.0	0.0	0.0	0.0
Moga	400	421	02:57	400	07:24	0.0	0.0	1.1	0.0
Abdullapur	400	426	22:57	402	18:39	0.0	0.0	7.2	0.0
Nalagarh	400	430	02:59	411	10:16	0.0	0.0	40.5	0.0
Kishenpur	400	423	00:00	391	18:33	0.0	0.0	0.1	0.0
Wagoora	400	409	14:24	366	18:33	16.8	63.9	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	774	13:04	740	14:44	0.0	0.4	0.0	0.0
Balia	765	781	13:02	738	18:39	0.0	2.0	0.0	0.0
Moga	765	798	02:59	760	09:23	0.0	0.0	0.0	0.0
Agra	765	812	13:04	772	09:23	0.0	0.0	21.4	0.0
Bhiwani	765	806	02:19	771	14:34	0.0	0.0	24.0	0.0
Unnao	765	768	21:58	731	15:11	0.0	13.1	0.0	0.0

IX. 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	494.36	869.36	487.27	652.97	145.07	459.98
Pong	426.72	384.05	407.33	407.15	409.73	361.16	115.22	247.97
Tehri	829.79	740.04	797.40	566.77	818.65	982.26	67.20	188.00
Koteshwar	612.50	598.50	611.30	4.78	609.05	3.98	186.00	187.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	53.62	71.21
Rihand	268.22	252.98	259.84	296.30	259.78	292.90	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	508.74	148.00	510.66	150.00	99.99	116.98

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 10.02.2014 :

Normal Weather

XIII. Synchronisation of new generating units :

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

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.
Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood
Vishnuprayag and Dhauliganga expected by Mar, 2014 .

Report for : 10.02.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**