पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.01.2014
Date of Reporting : 24.01.2014

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
32741	2250	34991	50.02	23635	30	23665	50.35	690.7	43.99

* 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	42.13	6.64		48.77	28.64	29.44	0.80	78.21	0.00
Haryana	44.82	0.40		45.22	29.77	28.88	-0.89	74.10	0.49
Rajasthan	91.01	0.25	10.70	101.96	69.06	66.08	-2.98	168.05	0.00
Delhi	22.92			22.92	45.13	42.65	-2.49	65.56	0.06
UP	101.77	2.44	15.60	119.80	90.92	92.36	1.44	212.16	41.44
Uttarakhand		6.77		6.77	24.54	26.60	2.06	33.37	0.23
HP		5.00		5.00	18.60	17.47	-1.13	22.46	0.07
J & K		6.82	0.00	6.82	28.61	26.26	-2.34	33.08	1.70
Chandigarh				0.00	3.09	3.74	0.65	3.74	0.00
Total	**302.64**	**28.31**	**26.30**	**357.25**	**338.36**	**333.48**	**-4.89**	**690.73**	**43.99**

*** 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 transactior	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	3646	0	-51	-583	2531	0	66	14	-6.64
Haryana	4126	0	-227	-562	2069	0	-132	-1008	-16.03
Rajasthan	7537	0	-282	797	6098	0	-62	378	25.31
Delhi	3448	0	21	-627	1429	0	-157	-1388	-21.83
UP	9230	2070	36	1123	8698	0	360	568	14.10
Uttarakhand	1687	80	48	615	1158	0	87	580	14.14
HP	1129	0	-42	396	606	30	-91	432	9.66
J&K	1738	100	52	662	953	0	-623	635	12.39
Chandigarh	199	0	12	0	94	0	-2	0	0.00
Total	**32741**	**2250**	**-432**	**1821**	**23635**	**30**	**-555**	**210**	**31.10**

* 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	1925	2082	1498	43.28	1803	42.97	0.32
	Rihand I STPS	1000	935	970	694	20.13	839	20.08	0.05
	Rihand II STPS	1000	985	1031	711	21.38	891	21.51	-0.13
	Rihand III STPS	1000	-3	0	0	0.05	2	-0.05	0.10
	Dadri I STPS	840	815	843	598	17.56	732	17.92	-0.36
	Dadri II STPS	980	985	933	699	20.86	869	21.13	-0.27
	Unchahar I TPS	420	408	426	307	8.23	343	8.25	-0.01
	Unchahar II TPS	420	405	360	305	7.54	314	7.50	0.04
	Unchahar III TPS	210	202	166	154	3.73	155	3.75	-0.02
	ISTPP (Jhajjhar)	1500	1500	628	631	14.86	619	15.18	-0.32
	Dadri GPS	830	852	198	414	5.79	241	6.10	-0.31
	Anta GPS	419	432	281	253	5.78	241	5.92	-0.15
	Auraiya GPS	663	678	169	161	3.87	161	4.00	-0.14
	Sub Total (A)	**11282**	**10119**	**8086.76**	**6424.6**	**173.06**	**7211**	**174.26**	**-1.20**
B. NPC	NAPS	440	313	332	336	7.14	297	7.51	-0.38
	RAPS- B	440	421	466	465	10.11	421	10.10	0.01
	RAPS- C	440	430	476	475	10.21	425	10.32	-0.11
	Sub Total (B)	**1320**	**1164**	**1274**	**1276**	**27.46**	**1144**	**27.94**	**-0.48**
C. NHPC	Chamera I HPS	540	541	360	0	1.68	70	1.62	0.06
	Chamera II HPS	300	200	201	0	1.12	47	1.13	-0.01
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	83	62	0	0.71	30	0.88	-0.17
	Salal-HPS	690	186	323	35	5.01	209	4.65	0.36
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	89	216	22	2.77	115	2.50	0.27
	Uri-II HPS	180	62	115	37	1.82	76	1.49	0.33
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	278	0	2.50	104	2.57	-0.07
	Sewa-II HPS	120	119	28	111	1.36	57	1.34	0.02
	Sub Total (C)	**3485**	**1537**	**1583**	**205**	**16.97**	**707**	**16.18**	**0.78**
D.NJPC	Nathpa Jhakri	1500	1350	1083	0	6.82	284	6.80	0.01
	Sub Total (D)	1500	1350	1083	0	6.82	284	6.80	0.01
E. THDC	Tehri HPS	1000	980	981	0	7.33	306	7.20	0.13
	Koteshwar HPS	400	106	101	89	2.59	108	2.50	0.09
	Sub Total (E)	**1400**	**1086**	**1082**	**89**	**9.93**	**414**	**9.70**	**0.23**
F. BBMB	Bhakra HPS	1497	505	934	392	11.91	496	12.13	-0.22
	Dehar HPS	990	109	330	0	2.92	122	2.63	0.30
	Pong HPS	396	195	312	60	4.91	205	4.67	0.24
	Sub Total (F)	**2883**	**809**	**1576**	**452**	**19.74**	**823**	**19.42**	**0.32**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.33	14	0.32	0.01
	KWHEP HPS(IPP)	1000	0	360	0	3.62	151	3.60	0.01
	Malana Stg-II HPS	100	0	0	0	0.11	5	0.11	0.00
	Shree Cement TPS	300	0	273	264	6.64	277	6.79	-0.15
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	633	264	10.70	446	10.81	-0.12
H. Total Regional Entities (A-G)		**23532**	**16065**	**15318**	**8710**	**264.66**	**11027**	**265.11**	**-0.46**

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	800	790	18.71	780
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.75	73
	Guru Hargobind Singh TPS(L.mbt)	920	751	698	17.71	738
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	580	0	3.96	165
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	2211	1568	42.13	1755
	Total Hydro	1148	227	182	6.64	277
	Total Punjab	**5128**	**2438**	**1750**	**48.77**	**2032**
Haryana	Panipat TPS	1367	215	212	5.08	212
	DCRTPP (Yamuna nagar)	600	253	250	5.93	247
	Faridabad GPS (NTPC)	432	169	150	3.98	166
	RGTPP (khedar) (IPP)	1200	509	500	11.96	498
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	744	744	17.88	745
	Thermal (Total)	4944	1890	1856	44.82	1867
	Total Hydro	62	15	17	0.40	17
	Total Haryana	**5006**	**1905**	**1873**	**45.22**	**1884**
Rajasthan	kota TPS	1240	1103	1063	26.10	1088
	suratgarh TPS	1500	891	817	20.46	853
	Chabra TPS	750	383	335	9.27	386
	Dholpur GPS	330	104	113	2.42	101
	Ramgarh GPS	221	112	47	2.49	104
	RAPS A (NPC)	300	175	175	4.10	171
	Barsingsar (NLC)	250	212	215	5.04	210
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	345	271	9.24	385
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	511	554	11.88	495
	Thermal (Total)	7976	3836	3590	91.01	3792
	Total Hydro	550	0	0	0.25	10
	Wind power	2191	618	190	9.69	404
	Biomass	91	26	26	0.61	26
	Solar	201	4	0	0.39	16
	Renewable/Others (Total)	2483	644	216	10.70	446
	Total Rajasthan	**11009**	**4480**	**3806**	**101.96**	**4248**
UP	Anpara TPS	1630	1057	979	21.90	913
	Obra TPS	1288	470	579	11.90	496
	Paricha TPS	1140	897	799	18.50	771
	Panki TPS	210	65	80	1.50	63
	Harduaganj TPS	665	485	493	9.00	375
	Tanda TPS (NTPC)	440	402	400	9.77	407
	Roza TPS (IPP)	1200	432	536	12.33	514
	Anpara-C (IPP)	1200	383	411	11.16	465
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	197	195	5.70	238
	Thermal (Total)	8223	4388	4472	101.77	4240
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	73	129	2.44	101
	Cogeneration	981	650	650	15.60	650
	Total UP	**10131**	**5111**	**5251**	**119.80**	**4992**
Uttarakhand	Total Hydro	1303	450	107	6.77	282
	Total Uttarakhand	**1303**	**450**	**107**	**6.77**	**282**
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	118	160	3.02	126
	Pragati Gas Turbine	330	316	264	7.43	310
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	615	505	12.47	520
	Thermal (Total)	2232	1049	929	22.92	955
	Total Delhi	**2232**	**1049**	**929**	**22.92**	**955**
HP	Baspa HPS (IPP)	330	40	0	1.09	45
	Malana HPS (IPP)	86	0	0	0.18	8
	Other Hydro	589	172	92	3.73	155
	Total HP	**1005**	**212**	**92**	**5.00**	**208**
J & K	Baglihar HPS (IPP)	450	120	234	4.26	177
	Other Hydro	323	89	125	2.56	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**209**	**359**	**6.82**	284
Total State Control Area Generation		**36770**	**15854**	**14167**	**357.25**	**14886**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**5104**	**2111**	**91.45**	**3810**
Total Regional Availability(Gross)		**60303**	**36276**	**24988**	**713.36**	**29723**

IV. Total Hydro Generation:

Regional Entities Hydro	**10560**	**5684**	**746**	**57.50**	**2396**
State Control Area Hydro	**5368**	**1186**	**886**	**28.31**	**1180**
Total Regional Hydro	**15928**	**6870**	**1632**	**85.81**	**3576**

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	250	-250	250	250	1.99	1.90	0.09
Gwalior-Agra (D/C)	1869	1016	1894	0	34.16	0.00	34.16
Zerda-Kankroli	-79	-220	0	345	0.00	4.46	-4.46
Zerda-Bhinmal	-3	-81	95	274	0.00	1.60	-1.60
Malanpur-Auraiya	-58	-60	0	74	0.00	1.23	-1.23
Badod-Kota/Morak	33	-98	33	131	0.00	1.15	-1.15
Mundra-Mohindergarh(HVDC)	1998	901	2006	0	39.30	0.00	39.30
Sub Total WR	**4010**	**1208**			**75.45**	**10.34**	**65.11**
Pusauli Bypass	100	100	400	0	3.75	0.00	3.75
MZP- GKP (D/C)	160	216	353	0	3.59	0.00	3.59
Patna-Balia(D/C)	373	317	490	0	9.05	0.00	9.05
B'Sharif-Balia (D/C)	230	196	411	0	5.78	0.00	5.78
Pusauli-Balia	-39	-17	21	47	0.00	0.51	-0.51
Gaya-Fatehpur (765 Kv)	28	-52	103	151	0.00	0.31	-0.31
Pusauli-Sahupuri	151	121	171	0	3.46	0.00	3.46
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-34	-28	0	37	0.00	0.57	-0.57
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	125	50	242	161	2.09	0.00	2.09
Sub Total ER	**1094**	**903**			**27.72**	**1.39**	**26.33**
Total IR Exch	**5104**	**2111**			**103.17**	**11.72**	**91.45**

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
24.78	0.28	25.07	21.29	2.70	2.13	-0.87	-0.53	0.53

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
47.95	46.08	94.03	26.33	65.11	91.45	-21.62	19.03	-2.59

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	2.00	88.00	2.40	86.00	66.40	12.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Frequency	Variation		MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.42	3.04	49.50	7.21	50.05	0.22	0.14	50.41	49.70

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	416	01:57	403	18:21	0.0	0.0	0.0	0.0
Gorakhpur	400	425	03:48	411	22:38	0.0	0.0	34.7	0.0
Bareilly	400	431	03:03	410	18:42	0.0	0.0	38.6	0.1
Kanpur	400	427	03:01	406	18:30	0.0	0.0	23.8	0.0
Dadri	400	430	03:02	408	09:21	0.0	0.0	32.7	0.0
Ballabhgarh	400	432	22:54	415	09:09	0.0	0.0	50.7	6.5
Bawana	400	435	03:03	413	08:58	0.0	0.0	46.1	17.2
Bassi	400	433	03:32	405	09:09	0.0	0.0	39.9	6.1
Hissar	400	425	03:01	401	18:26	0.0	0.0	19.4	0.0
Moga	400	422	03:01	394	18:30	0.0	0.0	3.9	0.0
Abdullapur	400	431	03:05	408	06:42	0.0	0.0	43.7	0.0
Nalagarh	400	430	03:02	410	09:16	0.0	0.0	35.8	0.0
Kishenpur	400	421	03:00	392	18:36	0.0	0.0	0.5	0.0
Wagoora	400	387	17:03	363	18:06	79.8	100.0	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	772	03:02	729	18:28	0.0	33.3	0.0	0.0
Balia	765	777	03:04	739	22:11	0.0	1.9	0.0	0.0
Moga	765	805	03:02	745	18:42	0.0	0.0	4.9	0.0
Agra	765	822	03:04	773	09:10	0.0	0.0	36.3	0.0
Bhiwani	765	810	03:00	762	09:00	0.0	0.0	0.0	0.0
Unnao	765	778	03:08	745	18:42	0.0	0.0	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	497.42	994.96	490.12	738.95	175.88	340.20
Pong	426.72	384.05	409.14	464.36	407.87	425.81	196.94	316.98
Tehri	829.79	740.04	803.75	680.00	818.65	982.26	66.75	176.00
Koteshwar	612.50	598.50	610.16	4.69	610.70	4.95	176.00	172.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	60.99	45.16
Rihand	268.22	252.98	260.21	316.40	260.54	384.90	NA	NA
RPS	352.80	343.81	509.53	NA	512.19	NA	130.09	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.43	14.40	512.19	14.40	31.97	88.38

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 23.01.2014 :

1. Fog in Punjab / Haryana.

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 : 23.01.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**