पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.01.2014
Date of Reporting : 27.01.2014

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
33428	880	34308	50.07	26765	0	26765	50.04	716.9	30.39

* 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	49.37	6.12		55.49	26.17	26.50	0.33	81.99	0.00
Haryana	53.54	0.43		53.97	38.99	37.13	-1.86	91.10	0.04
Rajasthan	110.94	0.00	5.78	116.72	58.37	53.96	-4.41	170.68	0.00
Delhi	20.83			20.83	37.08	35.59	-1.50	56.42	0.00
UP	113.25	2.40	15.60	131.24	88.43	88.53	0.10	219.77	28.65
Uttarakhand		6.83		6.83	23.65	23.89	0.24	30.72	0.00
HP		4.51		4.51	16.08	16.52	0.44	21.03	0.00
J & K		5.69	0.00	5.69	34.43	36.24	1.81	41.93	1.70
Chandigarh				0.00	2.87	3.24	0.37	3.24	0.00
Total	**347.93**	**25.97**	**21.38**	**395.28**	**326.06**	**321.59**	**-4.48**	**716.87**	**30.39**

*** 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	4620	0	112	-208	2948	0	-22	29	-2.24
Haryana	4671	0	39	-405	3385	0	43	-381	-11.48
Rajasthan	7122	0	-398	921	6271	0	104	67	20.51
Delhi	2618	0	-154	-888	1512	0	-34	-1494	-26.56
UP	9511	780	130	1072	9080	0	104	546	13.37
Uttarakhand	1500	0	-37	550	1107	0	-20	641	13.95
HP	998	0	-29	292	756	0	31	407	6.43
J&K	2220	100	368	648	1613	0	-25	684	14.65
Chandigarh	169	0	-10	0	93	0	22	-10	-0.09
Total	**33428**	**880**	**21**	**1981**	**26765**	**0**	**202**	**488**	**28.54**

* 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	1940	2052	1864	45.54	1897	44.95	0.59
	Rihand I STPS	1000	945	947	829	20.30	846	20.42	-0.12
	Rihand II STPS	1000	985	850	750	20.83	868	20.86	-0.03
	Rihand III STPS	1000	-2	0	0	0.00	0	-0.03	0.03
	Dadri I STPS	840	815	752	628	16.65	694	17.23	-0.59
	Dadri II STPS	980	985	915	742	20.85	869	21.36	-0.51
	Unchahar I TPS	420	406	368	364	8.34	348	8.38	-0.04
	Unchahar II TPS	420	405	377	309	7.35	306	7.39	-0.03
	Unchahar III TPS	210	202	155	158	3.76	156	3.77	-0.02
	ISTPP (Jhajjhar)	1500	1500	628	614	14.87	620	15.17	-0.30
	Dadri GPS	830	851	198	204	4.63	193	5.00	-0.37
	Anta GPS	419	431	253	263	6.21	259	6.22	-0.01
	Auraiya GPS	663	678	163	165	3.96	165	3.89	0.07
	Sub Total (A)	**11282**	**10141**	**7658**	**6890**	**173.28**	**7220**	**174.59**	**-1.31**
B. NPC	NAPS	440	298	334	339	7.15	298	7.15	0.00
	RAPS- B	440	420	465	464	10.12	422	10.08	0.04
	RAPS- C	440	430	474	473	10.29	429	10.32	-0.03
	Sub Total (B)	**1320**	**1148**	**1273**	**1276**	**27.56**	**1148**	**27.55**	**0.01**
C. NHPC	Chamera I HPS	540	541	270	0	1.68	70	1.67	0.01
	Chamera II HPS	300	200	201	0	1.15	48	1.18	-0.02
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	122	122	0	0.61	26	0.69	-0.08
	Salal-HPS	690	113	185	115	2.61	109	2.57	0.04
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	121	253	103	3.16	132	3.28	-0.12
	Uri-II HPS	180	64	121	75	1.85	77	1.53	0.33
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	270	0	2.33	97	2.40	-0.08
	Sewa-II HPS	120	119	112	0	0.98	41	1.00	-0.02
	Sub Total (C)	**3485**	**1537**	**1534**	**293**	**14.38**	**599**	**14.32**	**0.06**
D.NJPC	Nathpa Jhakri	1500	1350	1091	0	6.63	276	6.82	-0.19
	Sub Total (D)	1500	1350	1091	0	6.63	276	6.82	-0.19
E. THDC	Tehri HPS	1000	980	975	0	6.97	291	6.90	0.07
	Koteshwar HPS	400	106	200	89	2.58	108	2.50	0.08
	Sub Total (E)	**1400**	**1086**	**1175**	**89**	**9.56**	**398**	**9.40**	**0.16**
F. BBMB	Bhakra HPS	1497	489	996	387	11.90	496	11.74	0.17
	Dehar HPS	990	112	330	0	2.97	124	2.70	0.28
	Pong HPS	396	175	312	60	4.35	181	4.21	0.14
	Sub Total (F)	**2883**	**777**	**1638**	**447**	**19.22**	**801**	**18.64**	**0.58**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.33	14	0.31	0.01
	KWHEP HPS(IPP)	1000	0	362	0	3.57	149	3.60	-0.04
	Malana Stg-II HPS	100	0	0	0	0.14	6	0.13	0.01
	Shree Cement TPS	300	0	261	142	4.97	207	5.05	-0.08
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	623	142	9.00	375	9.09	-0.09
H. Total Regional Entities (A-G)		**23532**	**16038**	**14992**	**9137**	**259.62**	**10818**	**260.41**	**-0.79**

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	950	780	17.98	749
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.75	73
	Guru Hargobind Singh TPS(L.mbt)	920	886	670	15.62	651
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	711	710	14.02	584
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2627	2240	49.37	2057
	Total Hydro	1148	348	168	6.12	255
	Total Punjab	**5128**	**2975**	**2408**	**55.49**	**2312**
Haryana	Panipat TPS	1367	462	431	10.38	433
	DCRTPP (Yamuna nagar)	600	545	509	12.17	507
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	516	515	12.19	508
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	837	744	18.80	783
	Thermal (Total)	4944	2360	2199	53.54	2231
	Total Hydro	62	14	13	0.43	18
	Total Haryana	**5006**	**2374**	**2212**	**53.97**	**2249**
Rajasthan	kota TPS	1240	1064	1069	26.28	1095
	suratgarh TPS	1500	1008	1020	24.87	1036
	Chabra TPS	750	382	390	9.80	408
	Dholpur GPS	330	103	103	2.31	96
	Ramgarh GPS	221	93	107	1.87	78
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingsar (NLC)	250	213	214	5.08	212
	Giral LTPS	250	60	55	0.98	41
	Rajwest LTPS (IPP)	1080	319	320	9.62	401
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1052	1055	26.01	1084
	Thermal (Total)	7976	4469	4508	110.94	4622
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	172	260	4.22	176
	Biomass	91	29	29	0.70	29
	Solar	201	8	0	0.85	36
	Renewable/Others (Total)	2483	201	289	5.78	241
	Total Rajasthan	**11009**	**4670**	**4797**	**116.72**	**4863**
UP	Anpara TPS	1630	1389	911	29.60	1233
	Obra TPS	1288	495	516	12.10	504
	Paricha TPS	1140	789	778	18.40	767
	Panki TPS	210	86	81	2.00	83
	Harduaganj TPS	665	420	448	10.20	425
	Tanda TPS (NTPC)	440	291	396	8.15	340
	Roza TPS (IPP)	1200	761	810	20.75	865
	Anpara-C (IPP)	1200	0	546	6.76	282
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	196	199	5.29	220
	Thermal (Total)	8223	4427	4685	113.25	4719
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	98	109	2.40	100
	Cogeneration	981	650	650	15.60	650
	Total UP	**10131**	**5175**	**5444**	**131.24**	**5468**
Uttarakhand	Total Hydro	1303	412	135	6.83	285
	Total Uttarakhand	**1303**	**412**	**135**	**6.83**	**285**
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	120	121	2.93	122
	Pragati Gas Turbine	330	318	266	7.66	319
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	420	440	10.25	427
	Thermal (Total)	2232	858	827	20.83	868
	Total Delhi	**2232**	**858**	**827**	**20.83**	**868**
HP	Baspa HPS (IPP)	330	54	0	1.14	47
	Malana HPS (IPP)	86	42	0	0.21	9
	Other Hydro	589	152	60	3.17	132
	Total HP	**1005**	**248**	**60**	**4.51**	**188**
J & K	Baglihar HPS (IPP)	450	240	120	3.10	129
	Other Hydro	323	92	128	2.59	108
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**332**	**248**	**5.69**	237
Total State Control Area Generation		**36770**	**17044**	**16131**	**395.28**	**16470**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**3941**	**2180**	**74.53**	**3106**
Total Regional Availability(Gross)		**60303**	**35977**	**27448**	**729.44**	**30393**

IV. Total Hydro Generation:

Regional Entities Hydro	**10560**	**5800**	**829**	**53.82**	**2242**
State Control Area Hydro	**5368**	**1452**	**733**	**25.97**	**1082**
Total Regional Hydro	**15928**	**7252**	**1562**	**79.79**	**3325**

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	-100	250	400	1.57	3.27	-1.71
Gwalior-Agra (D/C)	1206	732	1459	0	22.92	0.00	22.92
Zerda-Kankroli	-52	-329	38	329	0.00	3.95	-3.95
Zerda-Bhinmal	-6	-210	191	223	0.00	0.94	-0.94
Malanpur-Auraiya	-62	-70	0	101	0.00	1.70	-1.70
Badod-Kota/Morak	-42	-171	0	182	0.00	2.19	-2.19
Mundra-Mohindergarh(HVDC)	1733	1733	1919	0	37.66	0.00	37.66
Sub Total WR	**3027**	**1585**			**62.14**	**12.05**	**50.09**
Pusauli Bypass	400	400	400	0	9.72	0.00	9.72
MZP- GKP (D/C)	130	26	211	0	2.43	0.00	2.43
Patna-Balia(D/C)	369	295	447	0	9.29	0.00	9.29
B'Sharif-Balia (D/C)	137	37	203	0	2.71	0.00	2.71
Pusauli-Balia	-98	-109	0	141	0.00	2.47	-2.47
Gaya-Fatehpur (765 Kv)	-101	-94	83	195	0.00	0.71	-0.71
Pusauli-Sahupuri	172	141	172	0	3.64	0.00	3.64
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-26	0	35	0.00	0.61	-0.61
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-60	-75	173	196	0.42	0.00	0.42
Sub Total ER	**914**	**595**			**28.22**	**3.78**	**24.44**
Total IR Exch	**3941**	**2180**			**90.36**	**15.83**	**74.53**

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
25.72	0.24	25.96	15.16	4.87	2.47	1.79	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
43.67	42.29	85.96	24.44	50.09	74.53	-19.23	7.80	-11.43

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	0.00	91.00	1.30	91.00	57.00	9.00

<---------- 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)
50.32	18.03	49.71	18.36	50.03	0.14	0.12	50.35	49.89

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	412	01:16	403	08:43	0.0	0.0	0.0	0.0
Gorakhpur	400	420	03:53	401	19:24	0.0	0.0	0.0	0.0
Bareilly	400	426	16:06	410	08:44	0.0	0.0	32.2	0.0
Kanpur	400	420	01:56	407	18:36	0.0	0.0	0.0	0.0
Dadri	400	424	01:19	412	07:27	0.0	0.0	62.1	0.0
Ballabhgarh	400	433	15:03	418	07:28	0.0	0.0	89.8	17.7
Bawana	400	432	15:02	416	07:30	0.0	0.0	74.8	2.6
Bassi	400	426	14:03	401	07:29	0.0	0.0	20.8	0.0
Hissar	400	417	01:48	404	07:38	0.0	0.0	0.0	0.0
Moga	400	417	15:03	400	07:37	0.0	0.0	0.0	0.0
Abdullapur	400	426	16:08	399	18:24	0.0	0.0	8.6	0.0
Nalagarh	400	430	22:59	415	18:23	0.0	0.0	64.6	0.0
Kishenpur	400	419	14:50	394	18:23	0.0	0.0	0.0	0.0
Wagoora	400	405	14:50	362	20:34	48.0	68.5	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	775	12:44	726	07:30	0.4	13.0	0.0	0.0
Balia	765	761	22:50	729	18:35	0.0	7.1	0.0	0.0
Moga	765	798	15:05	765	07:38	0.0	0.0	0.0	0.0
Agra	765	815	15:06	782	07:40	0.0	0.0	56.4	0.0
Bhiwani	765	808	00:52	783	07:28	0.0	0.0	37.5	0.0
Unnao	765	764	02:03	741	18:35	0.0	0.4	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	497.31	994.96	489.93	729.00	171.51	335.84
Pong	426.72	384.05	409.08	464.36	407.74	425.80	191.93	318.25
Tehri	829.79	740.04	803.45	674.38	818.65	982.26	64.86	167.00
Koteshwar	612.50	598.50	610.14	4.69	610.70	4.95	167.00	171.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	51.65	44.61
Rihand	268.22	252.98	260.21	316.40	260.48	331.50	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	509.44	14.40	512.12	14.40	73.26	109.61

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 26.01.2014 :
1.Modrate Fog reporated in some part of NR.

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 : 26.01.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**