पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.01.2014
Date of Reporting : 31.01.2014

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
35787	1146	36933	50.00	27123	0	27123	50.09	764.2	29.34

* 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	50.73	8.46		59.19	28.18	29.07	0.89	88.26	0.00
Haryana	55.07	0.41		55.48	45.92	45.40	-0.52	100.88	0.18
Rajasthan	111.60	0.13	5.58	117.32	70.13	67.07	-3.06	184.39	0.00
Delhi	20.12			20.12	43.22	42.58	-0.64	62.70	0.00
UP	122.97	2.12	16.80	141.89	89.26	85.28	-3.98	227.17	26.15
Uttarakhand		6.61		6.61	23.62	25.67	2.05	32.28	0.76
HP		4.34		4.34	19.53	20.41	0.88	24.75	0.56
J & K		5.81	0.00	5.81	33.30	34.28	0.98	40.09	1.70
Chandigarh				0.00	3.06	3.65	0.59	3.65	0.00
Total	**360.49**	**27.88**	**22.38**	**410.75**	**356.23**	**353.41**	**-2.82**	**764.16**	**29.34**

*** 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	4386	0	-7	-418	2951	0	35	-32	-7.57
Haryana	5449	86	22	-268	3173	0	-64	-332	-13.88
Rajasthan	7561	0	-173	444	6888	0	65	430	25.24
Delhi	3262	48	9	-736	1485	0	85	-1599	-23.80
UP	10445	795	-10	1003	8972	0	-174	586	13.55
Uttarakhand	1659	75	121	550	1143	0	81	570	13.43
HP	1138	42	-16	374	808	0	32	407	9.02
J&K	1694	100	-67	589	1616	0	-22	683	13.50
Chandigarh	193	0	6	0	88	0	15	-15	-0.08
Total	**35787**	**1146**	**-115**	**1537**	**27123**	**0**	**52**	**698**	**29.41**

* 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	1943	2083	1727	45.12	1880	44.72	0.40
	Rihand I STPS	1000	945	1032	899	21.92	913	21.63	0.29
	Rihand II STPS	1000	985	1045	910	22.82	951	22.75	0.06
	Rihand III STPS	1000	-9	0	0	0.00	0	-0.15	0.15
	Dadri I STPS	840	815	880	633	18.04	752	18.30	-0.26
	Dadri II STPS	980	985	1026	767	21.65	902	22.07	-0.42
	Unchahar I TPS	420	406	443	358	9.18	382	9.22	-0.04
	Unchahar II TPS	420	405	443	310	8.70	363	8.74	-0.04
	Unchahar III TPS	210	202	218	155	4.39	183	4.43	-0.03
	ISTPP (Jhajjhar)	1500	1500	848	640	14.68	612	14.88	-0.20
	Dadri GPS	830	849	314	295	7.28	304	7.47	-0.19
	Anta GPS	419	427	244	234	5.69	237	5.70	-0.01
	Auraiya GPS	663	680	162	163	3.71	155	3.77	-0.06
	Sub Total (A)	**11282**	**10133**	**8738**	**7091**	**183.18**	**7633**	**183.53**	**-0.35**
B. NPC	NAPS	440	295	336	338	7.17	299	7.08	0.09
	RAPS- B	440	422	463	463	10.11	421	10.13	-0.02
	RAPS- C	440	430	472	476	10.25	427	10.32	-0.07
	Sub Total (B)	**1320**	**1147**	**1271**	**1277**	**27.53**	**1147**	**27.53**	**0.00**
C. NHPC	Chamera I HPS	540	541	360	0	1.76	73	1.67	0.09
	Chamera II HPS	300	200	200	0	1.06	44	1.03	0.03
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	122	122	0	0.67	28	0.62	0.05
	Salal-HPS	690	119	230	35	2.80	117	2.75	0.05
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	129	306	45	3.31	138	3.34	-0.03
	Uri-II HPS	180	86	125	60	1.93	81	2.08	-0.15
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	272	0	2.48	103	2.30	0.17
	Sewa-II HPS	120	119	125	0	0.78	32	0.80	-0.02
	Sub Total (C)	**3485**	**1702**	**1740**	**140**	**14.79**	**616**	**14.60**	**0.19**
D.NJPC	Nathpa Jhakri	1500	1605	1065	0	6.29	262	6.33	-0.04
	Sub Total (D)	1500	1605	1065	0	6.29	262	6.33	-0.04
E. THDC	Tehri HPS	1000	960	960	0	6.79	283	6.70	0.09
	Koteshwar HPS	400	106	201	90	2.64	110	2.54	0.10
	Sub Total (E)	**1400**	**1066**	**1161**	**90**	**9.43**	**393**	**9.24**	**0.19**
F. BBMB	Bhakra HPS	1497	682	995	508	16.55	690	16.38	0.17
	Dehar HPS	990	114	330	0	2.81	117	2.73	0.08
	Pong HPS	396	177	312	60	4.52	188	4.24	0.28
	Sub Total (F)	**2883**	**973**	**1637**	**568**	**23.88**	**995**	**23.35**	**0.53**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.34	14	0.32	0.01
	KWHEP HPS(IPP)	1000	0	360	0	3.49	145	3.48	0.01
	Malana Stg-II HPS	100	0	0	0	1.19	50	0.11	1.08
	Shree Cement TPS	300	0	250	241	6.15	256	6.27	-0.12
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	610	241	11.17	465	10.18	0.98
H. Total Regional Entities (A-G)		**23532**	**16625**	**16222**	**9407**	**276.26**	**11511**	**274.75**	**1.51**

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	830	17.39	725
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.73	72
	Guru Hargobind Singh TPS(L.mbt)	920	773	675	15.71	655
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	660	658	15.89	662
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2153	2243	50.73	2114
	Total Hydro	1148	363	258	8.46	352
	Total Punjab	**5128**	**2516**	**2501**	**59.19**	**2466**
Haryana	Panipat TPS	1367	669	621	14.67	611
	DCRTPP (Yamuna nagar)	600	266	496	9.32	388
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	589	512	12.51	521
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	837	744	18.57	774
	Thermal (Total)	4944	2361	2373	55.07	2295
	Total Hydro	62	12	17	0.41	17
	Total Haryana	**5006**	**2373**	**2390**	**55.48**	**2312**
Rajasthan	kota TPS	1240	1121	1080	28.28	1178
	suratgarh TPS	1500	1017	1001	24.90	1037
	Chabra TPS	750	419	384	10.11	421
	Dholpur GPS	330	104	104	2.50	104
	Ramgarh GPS	221	105	97	2.48	103
	RAPS A (NPC)	300	175	175	4.14	173
	Barsingsar (NLC)	250	107	108	2.42	101
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	324	380	9.05	377
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1182	1176	27.74	1156
	Thermal (Total)	7976	4554	4505	111.60	4650
	Total Hydro	550	0	0	0.13	6
	Wind power	2191	133	192	4.43	185
	Biomass	91	26	26	0.63	26
	Solar	201	5	0	0.52	22
	Renewable/Others (Total)	2483	159	218	5.58	233
	Total Rajasthan	**11009**	**4713**	**4723**	**117.32**	**4888**
UP	Anpara TPS	1630	1586	1570	33.80	1408
	Obra TPS	1288	575	405	11.20	467
	Paricha TPS	1140	640	682	14.20	592
	Panki TPS	210	85	65	1.70	71
	Harduaganj TPS	665	490	466	10.20	425
	Tanda TPS (NTPC)	440	404	401	9.73	406
	Roza TPS (IPP)	1200	1080	815	23.73	989
	Anpara-C (IPP)	1200	536	545	12.53	522
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	281	194	5.87	245
	Thermal (Total)	8223	5677	5143	122.97	5124
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	104	62	2.12	88
	Cogeneration	981	700	700	16.80	700
	Total UP	**10131**	**6481**	**5905**	**141.89**	**5912**
Uttarakhand	Total Hydro	1303	405	131	6.61	275
	Total Uttarakhand	**1303**	**405**	**131**	**6.61**	**275**
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	161	151	3.76	157
	Pragati Gas Turbine	330	315	265	7.24	301
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	410	335	9.13	380
	Thermal (Total)	2232	886	751	20.12	838
	Total Delhi	**2232**	**886**	**751**	**20.12**	**838**
HP	Baspa HPS (IPP)	330	0	0	0.97	41
	Malana HPS (IPP)	86	0	0	0.20	8
	Other Hydro	589	152	77	3.17	132
	Total HP	**1005**	**152**	**77**	**4.34**	**181**
J & K	Baglihar HPS (IPP)	450	148	118	3.22	134
	Other Hydro	323	92	128	2.59	108
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**240**	**246**	**5.81**	242
Total State Control Area Generation		**36770**	**17766**	**16724**	**410.75**	**17115**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**4388**	**2694**	**98.16**	**4090**
Total Regional Availability(Gross)		**60303**	**38376**	**28825**	**785.17**	**32715**

IV. Total Hydro Generation:

Regional Entities Hydro	**10560**	**5963**	**798**	**59.40**	**2475**
State Control Area Hydro	**5368**	**1276**	**791**	**27.88**	**1162**
Total Regional Hydro	**15928**	**7239**	**1589**	**87.28**	**3637**

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	-500	500	500	5.73	2.64	3.09
Gwalior-Agra (D/C)	1157	1667	1691	0	33.56	0.00	33.56
Zerda-Kankroli	-39	-158	65	234	0.00	1.65	-1.65
Zerda-Bhinmal	70	-34	228	135	1.44	0.00	1.44
Malanpur-Auraiya	-88	-35	0	91	0.00	1.30	-1.30
Badod-Kota/Morak	-10	-46	79	93	0.00	5.25	-5.25
Mundra-Mohindergarh(HVDC)	2000	900	2000	0	41.01	0.00	41.01
Sub Total WR	**3290**	**1794**			**81.73**	**10.84**	**70.90**
Pusauli Bypass	-401	-356	0	491	0.00	9.20	-9.20
MZP- GKP (D/C)	240	254	362	0	5.33	0.00	5.33
Patna-Balia(D/C)	647	562	691	0	14.97	0.00	14.97
B'Sharif-Balia (D/C)	170	154	178	0	2.79	0.00	2.79
Pusauli-Balia	19	9	66	0	0.72	0.00	0.72
Gaya-Fatehpur (765 Kv)	18	-10	184	46	1.36	0.00	1.36
Pusauli-Sahupuri	206	130	118	0	4.94	0.00	4.94
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)	234	183	461	0	6.96	0.00	6.96
Sub Total ER	**1098**	**900**			**37.07**	**9.81**	**27.27**
Total IR Exch	**4388**	**2694**			**118.80**	**20.64**	**98.16**

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
30.30	0.22	30.53	17.84	3.17	-1.18	4.43	0.06	-0.06

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
47.25	55.97	103.23	27.27	70.90	98.16	-19.99	14.92	-5.07

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	0.90	97.40	2.50	96.50	48.90	2.60

<---------- 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)
50.28	13.03	49.64	18.42	50.00	0.11	0.11	50.27	49.82

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	03:32	401	10:15	0.0	0.0	0.0	0.0
Gorakhpur	400	425	05:16	405	19:03	0.0	0.0	16.4	0.0
Bareilly	400	423	13:07	406	10:05	0.0	0.0	3.5	0.0
Kanpur	400	421	00:17	400	10:06	0.0	0.0	2.7	0.0
Dadri	400	427	02:33	403	10:04	0.0	0.0	25.9	0.0
Ballabhgarh	400	434	00:00	406	10:04	0.0	0.0	65.6	3.8
Bawana	400	431	00:17	407	10:06	0.0	0.0	51.2	2.2
Bassi	400	430	04:25	398	10:05	0.0	0.0	23.0	0.0
Hissar	400	419	00:01	395	10:07	0.0	0.0	0.0	0.0
Moga	400	421	00:02	394	10:02	0.0	0.0	0.3	0.0
Abdullapur	400	424	00:01	401	10:32	0.0	0.0	19.8	0.0
Nalagarh	400	427	00:00	408	10:02	0.0	0.0	50.5	0.0
Kishenpur	400	420	13:05	395	06:52	0.0	0.0	0.0	0.0
Wagoora	400	404	02:22	372	19:48	19.6	54.9	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	779	13:06	737	06:41	0.0	2.5	0.0	0.0
Balia	765	770	05:03	735	18:42	0.0	2.5	0.0	0.0
Moga	765	800	00:01	754	09:25	0.0	0.0	0.0	0.0
Agra	765	817	22:52	770	06:41	0.0	0.0	51.0	0.0
Bhiwani	765	813	00:21	759	10:05	0.0	0.0	23.5	0.0
Unnao	765	767	04:01	734	10:07	0.0	13.3	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	496.82	971.87	489.10	709.72	163.33	373.30
Pong	426.72	384.05	408.74	454.47	407.17	407.15	79.57	319.61
Tehri	829.79	740.04	802.10	646.42	818.65	982.26	64.60	169.00
Koteshwar	612.50	598.50	610.59	4.95	609.40	4.21	169.00	171.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	47.83	46.95
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 30.01.2014 :
1.Dense fog in 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 : 30.01.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**