पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.01.2014
Date of Reporting : 15.01.2014

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
35522	1711	37233	50.10	28946	505	29451	50.07	798.9	41.11

* 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	42.48	9.62		52.10	34.54	35.79	1.25	87.89	0.00
Haryana	52.58	0.46		53.04	56.23	57.77	1.53	110.81	0.21
Rajasthan	119.37	2.64	7.50	129.52	71.30	66.17	-5.13	195.69	0.00
Delhi	22.68			22.68	43.95	40.86	-3.09	63.54	0.03
UP	125.32	3.10	15.60	144.02	92.79	91.44	-1.35	235.46	38.70
Uttarakhand		8.03		8.03	25.41	27.00	1.59	35.03	0.23
HP		4.03		4.03	20.43	20.33	-0.10	24.36	0.25
J & K		6.32	0.00	6.32	32.66	36.04	3.38	42.36	1.70
Chandigarh				0.00	3.16	3.72	0.56	3.72	0.00
Total	**362.44**	**34.20**	**23.10**	**419.74**	**380.46**	**379.11**	**-1.35**	**798.85**	**41.11**

*** 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	4205	0	-98	-292	2947	0	193	-35	-8.02
Haryana	5545	0	-1	-411	3847	0	-97	-621	-11.86
Rajasthan	7868	0	-393	325	7082	0	-165	66	27.64
Delhi	3254	6	-167	-650	1499	0	50	-1168	-20.86
UP	9712	1555	-478	1121	9845	495	284	596	14.58
Uttarakhand	1690	40	-40	663	1182	0	-2	579	14.62
HP	1187	10	-70	338	756	10	18	431	9.55
J&K	1871	100	67	643	1696	0	78	634	12.72
Chandigarh	190	0	-1	0	92	0	10	-12	-0.10
Total	**35522**	**1711**	**-1180**	**1737**	**28946**	**505**	**369**	**468**	**38.25**

* 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	1780	2101	1574	42.08	1753	42.43	-0.36
	Rihand I STPS	1000	880	983	936	21.06	877	21.07	-0.01
	Rihand II STPS	1000	933	1049	870	22.08	920	22.00	0.08
	Rihand III STPS	1000	464	518	438	11.07	461	10.99	0.08
	Dadri I STPS	840	815	790	625	15.88	662	16.05	-0.18
	Dadri II STPS	980	985	970	705	20.74	864	21.11	-0.38
	Unchahar I TPS	420	408	328	330	8.67	361	8.81	-0.14
	Unchahar II TPS	420	405	331	310	8.24	343	8.37	-0.14
	Unchahar III TPS	210	202	158	154	4.10	171	4.16	-0.06
	ISTPP (Jhajjhar)	1500	1500	803	630	16.20	675	15.82	0.38
	Dadri GPS	830	849	171	162	4.00	167	4.10	-0.10
	Anta GPS	419	431	252	215	5.92	247	5.98	-0.06
	Auraiya GPS	663	675	158	143	3.57	149	3.56	0.01
	Sub Total (A)	**11282**	**10327**	**8611.59**	**7092.23**	**183.59**	**7650**	**184.46**	**-0.87**
B. NPC	NAPS	440	325	367	363	7.84	327	7.80	0.04
	RAPS- B	440	419	461	466	10.10	421	10.06	0.04
	RAPS- C	440	430	471	476	10.29	429	10.32	-0.03
	Sub Total (B)	**1320**	**1174**	**1299**	**1305**	**28.23**	**1176**	**28.18**	**0.05**
C. NHPC	Chamera I HPS	540	540	360	0	1.61	67	1.61	0.00
	Chamera II HPS	300	200	149	0	0.96	40	1.02	-0.07
	Chamera III HPS	231	231	135	0	0.54	22	0.52	0.01
	Bairasuil HPS	180	0	0	0	0.00	0	0.00	0.00
	Salal-HPS	690	110	201	102	2.38	99	2.64	-0.26
	Tanakpur-HPS	94	0	0	0	0.00	0	0.25	-0.25
	Uri-HPS	480	87	210	20	2.25	94	2.12	0.13
	Uri-II HPS	180	58	121	36	1.36	57	1.40	-0.04
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	273	0	2.48	103	2.50	-0.02
	Sewa-II HPS	120	119	108	0	0.42	17	0.40	0.02
	Sub Total (C)	**3485**	**1604**	**1557**	**158**	**11.99**	**500**	**12.47**	**-0.47**
D.NJPC	Nathpa Jhakri	1500	1605	1012	0	6.55	273	6.96	-0.41
	Sub Total (D)	1500	1605	1012	0	6.55	273	6.96	-0.41
E. THDC	Tehri HPS	1000	1000	1000	0	9.29	387	9.20	0.09
	Koteshwar HPS	400	138	305	90	3.34	139	3.30	0.04
	Sub Total (E)	**1400**	**1138**	**1305**	**90**	**12.62**	**526**	**12.50**	**0.12**
F. BBMB	Bhakra HPS	1497	729	1012	386	17.47	728	17.49	-0.02
	Dehar HPS	990	117	290	0	2.98	124	2.80	0.18
	Pong HPS	396	224	312	60	5.53	230	5.38	0.15
	Sub Total (F)	**2883**	**1070**	**1614**	**446**	**25.98**	**1083**	**25.68**	**0.30**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.41	17	0.39	0.02
	KWHEP HPS(IPP)	1000	0	360	0	3.63	151	3.60	0.03
	Malana Stg-II HPS	100	0	0	0	0.13	5	0.12	0.01
	Shree Cement TPS	300	0	271	251	6.00	250	6.10	-0.10
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	631	251	10.17	424	10.22	-0.05
H. Total Regional Entities (A-G)		**23532**	**16917**	**16030**	**9342**	**279.13**	**11630**	**280.45**	**-1.32**

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	1020	960	23.45	977
	Guru Nanak Dev TPS(Bhatinda)	440	280	282	6.28	262
	Guru Hargobind Singh TPS(L.mbt)	920	540	487	12.76	532
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	1840	1729	42.48	1770
	Total Hydro	1148	441	360	9.62	401
	Total Punjab	**5128**	**2281**	**2089**	**52.10**	**2171**
Haryana	Panipat TPS	1367	468	434	10.58	441
	DCRTPP (Yamuna nagar)	600	588	508	12.46	519
	Faridabad GPS (NTPC)	432	183	158	4.32	180
	RGTPP (khedar) (IPP)	1200	588	510	12.83	535
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	569	372	12.40	517
	Thermal (Total)	4944	2396	1982	52.58	2191
	Total Hydro	62	16	16	0.46	19
	Total Haryana	**5006**	**2412**	**1998**	**53.04**	**2210**
Rajasthan	kota TPS	1240	1080	1156	26.86	1119
	suratgarh TPS	1500	1020	1074	25.13	1047
	Chabra TPS	750	388	445	10.25	427
	Dholpur GPS	330	104	108	6.69	279
	Ramgarh GPS	221	131	130	3.40	142
	RAPS A (NPC)	300	175	175	4.15	173
	Barsingsar (NLC)	250	206	210	4.85	202
	Giral LTPS	250	42	0	0.25	10
	Rajwest LTPS (IPP)	1080	382	479	10.37	432
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1069	1188	27.43	1143
	Thermal (Total)	7976	4597	4965	119.37	4974
	Total Hydro	550	78	100	2.64	110
	Wind power	2191	196	425	6.69	279
	Biomass	91	21	21	0.51	21
	Solar	201	3	0	0.30	12
	Renewable/Others (Total)	2483	217	446	7.50	313
	Total Rajasthan	**11009**	**4892**	**5511**	**129.52**	**5397**
UP	Anpara TPS	1630	1230	1183	28.20	1175
	Obra TPS	1288	488	481	11.80	492
	Paricha TPS	1140	862	842	20.80	867
	Panki TPS	210	77	72	1.80	75
	Harduaganj TPS	665	415	231	9.20	383
	Tanda TPS (NTPC)	440	391	412	9.78	408
	Roza TPS (IPP)	1200	683	806	18.39	766
	Anpara-C (IPP)	1200	936	1038	25.35	1056
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0
	Thermal (Total)	8223	5082	5065	125.32	5222
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	94	131	3.10	129
	Cogeneration	981	650	650	15.60	650
	Total UP	**10131**	**5826**	**5846**	**144.02**	**6001**
Uttarakhand	Total Hydro	1303	498	261	8.03	335
	Total Uttarakhand	**1303**	**498**	**261**	**8.03**	**335**
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	162	160	3.82	159
	Pragati Gas Turbine	330	319	272	7.39	308
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	510	508	11.47	478
	Thermal (Total)	2232	991	940	22.68	945
	Total Delhi	**2232**	**991**	**940**	**22.68**	**945**
HP	Baspa HPS (IPP)	330	0	0	0.79	33
	Malana HPS (IPP)	86	0	0	0.21	9
	Other Hydro	589	147	48	3.04	127
	Total HP	**1005**	**147**	**48**	**4.03**	**168**
J & K	Baglihar HPS (IPP)	450	150	120	3.37	141
	Other Hydro	323	84	116	2.95	123
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**234**	**236**	**6.32**	263
Total State Control Area Generation		**36770**	**17281**	**16929**	**419.74**	**17489**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**4135**	**3739**	**119.61**	**4984**
Total Regional Availability(Gross)		**60303**	**37446**	**30010**	**818.48**	**34103**

IV. Total Hydro Generation:

Regional Entities Hydro	**10560**	**5848**	**694**	**61.32**	**2555**
State Control Area Hydro	**5368**	**1508**	**1152**	**34.20**	**1425**
Total Regional Hydro	**15928**	**7356**	**1846**	**95.52**	**3980**

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	400	-100	500	100	7.60	0.47	7.14
Gwalior-Agra (D/C)	1117	1554	1790	0	34.47	0.00	34.47
Zerda-Kankroli	-97	-188	149	190	0.00	1.14	-1.14
Zerda-Bhinmal	-8	-91	297	118	1.49	0.00	1.49
Malanpur-Auraiya	-130	-66	0	130	0.00	2.19	-2.19
Badod-Kota/Morak	-30	-163	0	163	0.00	1.82	-1.82
Mundra-Mohindergarh(HVDC)	1914	1452	1918	0	43.74	0.00	43.74
Sub Total WR	**3166**	**2398**			**87.30**	**5.62**	**81.68**
Pusauli Bypass	400	400	400	0	9.74	0.00	9.74
MZP- GKP (D/C)	26	265	427	0	5.91	0.00	5.91
Patna-Balia(D/C)	326	379	698	0	11.12	0.00	11.12
B'Sharif-Balia (D/C)	155	154	519	0	5.99	0.00	5.99
Pusauli-Balia	-105	-113	0	131	0.00	2.11	-2.11
Gaya-Fatehpur (765 Kv)	33	48	194	64	1.50	0.00	1.50
Pusauli-Sahupuri	142	121	188	0	3.29	0.00	3.29
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-30	0	37	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	24	117	295	0	3.35	0.00	3.35
Sub Total ER	**969**	**1341**			**40.89**	**2.96**	**37.93**
Total IR Exch	**4135**	**3739**			**128.19**	**8.58**	**119.61**

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
32.51	0.28	32.79	22.69	3.78	-1.04	7.98	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
54.50	69.08	123.59	37.93	81.68	119.61	-16.58	12.60	-3.98

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	1.00	92.20	2.20	91.20	57.80	7.80

<---------- 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)
50.37	17.02	49.56	7.27	50.02	0.15	0.12	50.33	49.74

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	410	00:19	398	09:07	0.0	0.0	0.0	0.0
Gorakhpur	400	424	00:22	407	08:30	0.0	0.0	16.3	0.0
Bareilly	400	423	00:01	395	06:55	0.0	0.0	7.8	0.0
Kanpur	400	420	23:50	396	09:08	0.0	0.0	0.0	0.0
Dadri	400	425	00:19	400	11:15	0.0	0.0	24.1	0.0
Ballabhgarh	400	431	00:18	405	11:17	0.0	0.0	42.8	0.6
Bawana	400	430	00:42	403	11:18	0.0	0.0	31.8	0.0
Bassi	400	426	19:44	395	09:10	0.0	0.0	20.1	0.0
Hissar	400	416	00:18	391	11:17	0.0	0.0	0.0	0.0
Moga	400	415	00:02	392	11:08	0.0	0.0	0.0	0.0
Abdullapur	400	423	00:42	401	11:22	0.0	0.0	6.8	0.0
Nalagarh	400	425	00:42	402	14:34	18.0	18.0	22.6	0.0
Kishenpur	400	411	13:01	392	06:48	0.0	0.0	0.0	0.0
Wagoora	400	401	13:01	367	22:04	62.6	94.7	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	00:18	730	08:38	0.0	15.3	0.0	0.0
Balia	765	767	12:00	727	07:25	0.3	11.0	0.0	0.0
Moga	765	792	00:42	748	11:15	0.0	0.0	0.0	0.0
Agra	765	814	23:55	760	09:08	0.0	0.0	24.6	0.0
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Unnao	765	769	00:01	734	09:08	0.0	3.4	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	499.32	1064.89	492.08	798.09	165.65	535.33
Pong	426.72	384.05	410.42	504.32	409.31	474.29	54.85	345.41
Tehri	829.79	740.04	807.25	745.00	818.65	982.26	66.00	217.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	41.96	43.72
Rihand	268.22	252.98	260.45	329.80	261.06	364.10	NA	NA
RPS	352.80	343.81	348.89	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	510.41	14.40	513.05	14.40	50.74	89.88

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 14.01.2014 :
1.Shallow fog in Punjab,Haryana & dense fog Uttar pradesh.

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 : 14.01.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**