पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.01.2014
Date of Reporting : 09.01.2014

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
37580	1740	39320	50.06	29175	295	29470	50.09	810.4	42.60

* 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	48.77	9.48		58.25	34.96	35.65	0.69	93.90	0.00
Haryana	51.32	0.42		51.73	58.82	58.22	-0.60	109.96	0.33
Rajasthan	116.81	2.13	15.01	133.95	66.34	63.14	-3.20	197.09	0.00
Delhi	18.01			18.01	50.58	48.73	-1.86	66.73	0.19
UP	124.22	3.31	15.60	143.13	96.32	95.62	-0.70	238.75	39.60
Uttarakhand		8.90		8.90	22.90	24.98	2.08	33.88	0.08
HP		4.16		4.16	21.06	21.63	0.57	25.79	0.72
J & K		5.63	0.00	5.63	31.61	34.79	3.18	40.42	1.70
Chandigarh				0.00	3.17	3.91	0.74	3.91	0.00
Total	**359.12**	**34.04**	**30.61**	**423.77**	**385.77**	**386.67**	**0.90**	**810.43**	**42.60**

*** 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	4538	0	-54	-513	3374	0	264	-63	-8.16
Haryana	5581	0	-88	-423	3697	0	131	-362	-11.47
Rajasthan	8929	0	-374	1097	7052	0	-202	720	26.49
Delhi	3553	0	120	-551	1494	0	-74	-1423	-19.95
UP	9910	1555	-661	1117	9849	295	173	594	14.51
Uttarakhand	1774	75	183	567	1200	0	40	481	11.68
HP	1282	10	-5	319	716	0	-89	410	9.05
J&K	1810	100	49	641	1701	0	172	583	11.65
Chandigarh	204	0	16	0	92	0	9	-15	-0.10
Total	**37580**	**1740**	**-814**	**2255**	**29175**	**295**	**424**	**926**	**33.69**

* 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	1946	2080	1698	45.12	1880	44.68	0.44
	Rihand I STPS	1000	859	982	643	19.04	794	18.69	0.35
	Rihand II STPS	1000	911	998	713	20.56	857	19.98	0.59
	Rihand III STPS	1000	455	507	400	10.72	447	10.51	0.21
	Dadri I STPS	840	815	868	639	17.61	734	17.82	-0.21
	Dadri II STPS	980	985	932	741	21.22	884	21.66	-0.45
	Unchahar I TPS	420	407	443	331	9.12	380	9.14	-0.02
	Unchahar II TPS	420	404	423	309	8.78	366	8.76	0.02
	Unchahar III TPS	210	201	217	154	4.36	182	4.37	-0.02
	ISTPP (Jhajjhar)	1500	1500	1022	635	17.45	727	17.38	0.07
	Dadri GPS	830	843	418	422	9.65	402	9.96	-0.31
	Anta GPS	419	430	268	243	6.32	263	6.31	0.01
	Auraiya GPS	663	675	380	166	5.51	230	5.42	0.09
	Sub Total (A)	**11282**	**10432**	**9538**	**7094**	**195.46**	**8144**	**194.69**	**0.77**
B. NPC	NAPS	440	324	362	364	7.78	324	7.78	0.00
	RAPS- B	440	238	229	232	4.80	200	5.71	-0.91
	RAPS- C	440	430	476	476	10.20	425	10.32	-0.12
	Sub Total (B)	**1320**	**992**	**1067**	**1072**	**22.78**	**949**	**23.81**	**-1.03**
C. NHPC	Chamera I HPS	540	388	360	0	1.70	71	1.68	0.02
	Chamera II HPS	300	300	70	0	0.99	41	1.14	-0.14
	Chamera III HPS	231	231	218	0	0.60	25	0.58	0.03
	Bairasuil HPS	180	0	0	0	0.00	0	0.00	0.00
	Salal-HPS	690	104	195	95	2.46	102	2.52	-0.06
	Tanakpur-HPS	94	23	24	22	0.59	24	0.56	0.03
	Uri-HPS	480	93	216	11	2.24	94	2.25	-0.01
	Uri-II HPS	120	60	122	42	1.40	58	1.45	-0.05
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	251	270	0	2.66	111	2.50	0.16
	Sewa-II HPS	120	119	122	0	0.60	25	0.54	0.05
	Sub Total (C)	**3425**	**1570**	**1597**	**170**	**13.24**	**552**	**13.20**	**0.03**
D.NJPC	Nathpa Jhakri	1500	1350	1087	0	7.08	295	6.94	0.14
	Sub Total (D)	1500	1350	1087	0	7.08	295	6.94	0.14
E. THDC	Tehri HPS	1000	1025	1031	0	8.84	368	8.70	0.14
	Koteshwar HPS	400	125	300	90	3.02	126	3.00	0.02
	Sub Total (E)	**1400**	**1150**	**1331**	**90**	**11.86**	**494**	**11.70**	**0.16**
F. BBMB	Bhakra HPS	1497	726	1010	510	17.75	740	17.43	0.32
	Dehar HPS	990	117	330	0	2.95	123	2.80	0.15
	Pong HPS	396	218	372	60	5.39	225	5.23	0.16
	Sub Total (F)	**2883**	**1061**	**1712**	**570**	**26.09**	**1087**	**25.46**	**0.63**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.37	16	0.36	0.01
	KWHEP HPS(IPP)	1000	0	150	0	3.76	157	3.72	0.05
	Malana Stg-II HPS	100	0	0	0	0.13	5	0.12	0.01
	Shree Cement TPS	300	0	251	253	5.92	247	6.42	-0.51
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	401	253	10.18	424	10.62	-0.44
H. Total Regional Entities (A-G)		**23472**	**16555**	**16733**	**9249**	**286.68**	**11945**	**286.42**	**0.26**

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	1060	935	23.83	993
	Guru Nanak Dev TPS(Bhatinda)	440	250	250	5.49	229
	Guru Hargobind Singh TPS(L.mbt)	920	962	772	19.44	810
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2272	1957	48.77	2032
	Total Hydro	1148	316	403	9.48	395
	Total Punjab	**3768**	**2588**	**2360**	**58.25**	**2427**
Haryana	Panipat TPS	1367	637	431	13.23	551
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	205	158	4.62	192
	RGTPP (khedar) (IPP)	1200	582	506	11.80	492
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1174	372	21.67	903
	Thermal (Total)	4944	2598	1467	51.32	2138
	Total Hydro	62	16	18	0.42	17
	Total Haryana	**5006**	**2614**	**1485**	**51.73**	**2156**
Rajasthan	kota TPS	1240	1132	1092	26.93	1122
	suratgarh TPS	1500	1056	1005	24.79	1033
	Chabra TPS	500	444	380	9.97	416
	Dholpur GPS	330	108	130	2.56	107
	Ramgarh GPS	111	127	131	3.50	146
	RAPS A (NPC)	300	175	175	4.13	172
	Barsingsar (NLC)	250	208	212	4.99	208
	Giral LTPS	250	66	53	1.40	58
	Rajwest LTPS (IPP)	1080	469	382	10.73	447
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	660	1225	1090	27.81	1159
	Thermal (Total)	6956	5010	4650	116.81	4867
	Total Hydro	550	63	54	2.13	89
	Wind power	2191	841	739	14.12	588
	Biomass	91	24	24	0.57	24
	Solar	201	0	0	0.32	13
	Renewable/Others (Total)	2483	865	763	15.01	625
	Total Rajasthan	**9989**	**5938**	**5467**	**133.95**	**5581**
UP	Anpara TPS	1630	1480	1474	31.80	1325
	Obra TPS	1288	391	505	9.50	396
	Paricha TPS	1140	967	969	21.00	875
	Panki TPS	210	90	90	2.00	83
	Harduaganj TPS	665	499	505	10.80	450
	Tanda TPS (NTPC)	440	297	294	7.34	306
	Roza TPS (IPP)	1200	594	545	16.21	675
	Anpara-C (IPP)	1200	1085	1071	25.58	1066
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0
	Thermal (Total)	8223	5403	5453	124.22	5176
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	146	135	3.31	138
	Cogeneration	981	650	650	15.60	650
	Total UP	**10131**	**6199**	**6238**	**143.13**	**5964**
Uttarakhand	Total Hydro	1303	494	284	8.90	371
	Total Uttarakhand	**1303**	**494**	**284**	**8.90**	**371**
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	165	143	3.61	150
	Pragati Gas Turbine	330	158	162	3.76	157
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	525	430	10.64	443
	Thermal (Total)	2232	848	735	18.01	750
	Total Delhi	**2232**	**848**	**735**	**18.01**	**750**
HP	Baspa HPS (IPP)	330	0	0	0.97	40
	Malana HPS (IPP)	86	0	0	0.18	8
	Other Hydro	589	175	81	3.01	126
	Total HP	**1005**	**175**	**81**	**4.16**	**173**
J & K	Baglihar HPS (IPP)	450	150	120	3.19	133
	Other Hydro	323	84	116	2.44	102
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**234**	**236**	**5.63**	235
Total State Control Area Generation		**34390**	**19090**	**16886**	**423.77**	**17657**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**4093**	**181925**	**115.45**	**4810**
Total Regional Availability(Gross)		**57862**	**39916**	**208060**	**825.90**	**34412**

IV. Total Hydro Generation:

Regional Entities Hydro	**10500**	**5877**	**830**	**62.53**	**2606**
State Control Area Hydro	**5368**	**1444**	**1211**	**34.04**	**1418**
Total Regional Hydro	**15868**	**7321**	**2041**	**96.57**	**4024**

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	300	300	500	0	7.74	0.00	7.74
Gwalior-Agra (D/C)	931	1290	1611	0	32.78	0.00	32.78
Zerda-Kankroli	-132	-273	80	274	0.00	2.24	-2.24
Zerda-Bhinmal	-89	-202	207	231	0.00	0.31	-0.31
Malanpur-Auraiya	-136	-47	0	136	0.00	1.46	-1.46
Badod-Kota/Morak	-58	-162	0	185	0.00	2.12	-2.12
Mundra-Mohindergarh(HVDC)	1998	1401	2005	0	42.60	0.00	42.60
Sub Total WR	**2814**	**2307**			**83.12**	**6.13**	**76.99**
Pusauli Bypass	100	50	100	421	1.65	1.59	0.06
MZP- GKP (D/C)	191	433	484	0	8.26	0.00	8.26
Patna-Balia(D/C)	600	561	881	0	14.87	0.00	14.87
B'Sharif-Balia (D/C)	289	254	434	0	6.64	0.00	6.64
Pusauli-Balia	-32	-43	62	89	0.00	0.73	-0.73
Gaya-Fatehpur (765 Kv)	-46	45	180	108	1.23	0.00	1.23
Pusauli-Sahupuri	155	178176	200	0	4.33	0.00	4.33
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)	54	172	407	41	4.65	0.00	4.65
Sub Total ER	**1279**	**179618**			**41.63**	**3.17**	**38.46**
Total IR Exch	**4093**	**181925**			**124.75**	**9.30**	**115.45**

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
34.63	0.30	34.93	22.61	3.79	-0.55	2.74	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
57.06	68.23	125.29	38.46	76.99	115.45	-18.60	8.76	-9.84

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	96.80	6.50	94.80	42.60	3.20

<---------- 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)
50.47	5.05	49.54	9.10	49.97	0.17	0.13	50.38	49.83

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	409	05:03	397	16:39	0.0	0.0	0.0	0.0
Gorakhpur	400	429	05:11	408	10:13	0.2	0.2	35.5	0.0
Bareilly	400	424	00:00	399	09:10	0.0	0.0	5.7	0.0
Kanpur	400	421	00:00	397	09:36	0.0	0.0	0.3	0.0
Dadri	400	424	05:04	398	09:56	0.0	0.0	18.1	0.0
Ballabhgarh	400	429	00:00	402	09:58	0.0	0.0	30.7	0.0
Bawana	400	428	02:31	401	09:57	0.0	0.0	38.1	0.0
Bassi	400	422	05:04	388	10:20	0.0	0.6	0.5	0.0
Hissar	400	417	22:56	388	09:57	28.6	28.9	0.0	0.0
Moga	400	420	20:50	390	09:56	0.0	0.0	0.0	0.0
Abdullapur	400	423	23:03	401	09:55	0.0	0.0	7.6	0.0
Nalagarh	400	427	23:06	407	11:38	0.0	0.0	35.7	0.0
Kishenpur	400	425	20:50	392	09:17	0.0	0.0	0.2	0.0
Wagoora	400	417	20:50	372	07:56	26.1	70.4	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	785	00:01	727	09:57	0.0	17.3	0.0	0.0
Balia	765	764	23:50	727	09:35	0.2	13.5	0.0	0.0
Moga	765	804	20:50	743	09:57	0.0	0.0	0.2	0.0
Agra	765	814	00:00	758	10:19	0.0	0.0	19.0	0.0
Bhiwani	765	805	00:00	756	09:57	0.0	0.0	17.1	0.0
Unnao	765	768	23:15	726	09:58	0.5	16.7	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	500.94	1127.29	493.67	858.11	146.34	510.69
Pong	426.72	384.05	411.36	544.90	410.16	504.32	56.04	356.34
Tehri	829.79	740.04	810.20	804.00	818.65	982.26	63.37	227.00
Koteshwar	612.50	598.50	608.86	4.03	NA	NA	227.00	198.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	48.18	46.43
Rihand	268.22	252.98	260.63	340.20	261.43	385.10	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	511.04	14.40	514.74	14.40	60.77	117.91

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 08.01.2014 :

1. Shallow fog in Punjab ,Haryana and UP.

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 : 08.01.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**