पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.01.2012
Date of Reporting : 10.01.2012

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
30955	2878	33833	49.82	23454	0	23454	50.41	661.0	32.93

* 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	50.38	5.00		55.38	30.09	31.93	1.84	87.31	1.80
Haryana	52.34	0.52		52.86	25.50	39.26	13.76	92.12	0.00
Rajasthan	69.01	4.01	6.19	79.21	50.60	71.64	21.05	150.86	3.31
Delhi	27.61			27.61	39.02	34.72	-4.29	62.33	0.09
UP	86.22	4.99	15.60	106.81	83.17	76.42	-6.75	183.23	25.83
Uttarakhand		9.00		9.00	19.83	20.89	1.06	29.89	0.00
HP		4.15		4.15	20.21	17.68	-2.53	21.83	0.00
J & K		4.62	0.00	4.62	23.67	25.12	1.45	29.74	1.90
Chandigarh				0.00	3.52	3.70	0.18	3.70	0.00
Total	**285.56**	**32.29**	**21.79**	**339.65**	**295.60**	**321.36**	**25.77**	**661.01**	**32.93**

*** 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 transactio	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	4454	600	84	-333	3134	0	342	-808	-9.07
Haryana	4104	0	331	-201	2915	0	53	-201	-4.49
Rajasthan	6773	631	1216	201	5876	0	456	276	8.77
Delhi	3294	2	-373	-25	1373	0	163	-340	-3.13
UP	8153	1545	-364	265	7211	0	-85	265	6.36
Uttarakhand	1479	0	18	430	950	0	-70	430	10.32
HP	1147	0	-319	124	641	0	-128	405	7.75
J&K	1351	100	-206	301	1262	0	17	296	6.59
Chandigarh	200	0	-10	0	92	0	-8	-30	-0.24
Total	**30955**	**2878**	**377**	**761**	**23454**	**0**	**740**	**292**	**22.86**

* 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	2090	1832	46.14	1923	45.87	0.28
	Rihand I STPS	1000	900	987	741	23.90	996	20.90	3.00
	Rihand II STPS	1000	977	1039	765	22.61	942	22.59	0.02
	Dadri I STPS	840	794	692	621	16.80	700	17.33	-0.53
	Dadri II STPS	980	967	948	870	20.50	854	23.01	-2.51
	Unchahar I TPS	440	379	435	275	8.46	352	8.54	-0.09
	Unchahar II TPS	440	379	441	281	8.49	354	8.47	0.01
	Unchahar III TPS	210	189	220	145	4.25	177	4.26	-0.01
	ISTPP (Jhajjhar)	1000	475	372	339	8.74	364	8.86	-0.12
	Dadri GPS	830	735	519	485	13.10	546	13.11	-0.01
	Anta GPS	419	431	310	238	7.10	296	6.92	0.18
	Auraiya GPS	663	660	312	291	7.36	306	7.58	-0.22
	Sub Total (A)	**9822**	**8825**	**8365**	**6883**	**187.44**	**7810**	**187.44**	**0.00**
B. NPC	NAPS	440	239	281	280	5.79	241	5.74	0.05
	RAPS- B	440	419	469	473	10.30	429	10.06	0.24
	RAPS- C	440	420	473	475	10.22	426	10.08	0.14
	Sub Total (B)	**1320**	**1078**	**1223**	**1228**	**26.30**	**1096**	**25.87**	**0.43**
C. NHPC	Chamera I HPS	540	0	0	0	0.00	0	0.00	0.00
	Chamera II HPS	300	297	175	0	1.15	48	1.21	-0.06
	Bairasuil HPS	180	179	80	0	0.50	21	0.49	0.00
	Salal-HPS	690	130	207	70	3.32	138	3.12	0.20
	Tanakpur-HPS	94	30	32	25	0.68	28	0.69	-0.01
	Uri-HPS	480	135	159	43	2.80	117	2.81	-0.01
	Dhauliganga-HPS	280	277	140	0	0.93	39	0.98	-0.06
	Dulhasti-HPS	390	388	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	79	40	0	0.47	19	0.45	0.01
	Sub Total (C)	**3074**	**1515**	**833**	**138**	**9.83**	**410**	**9.77**	0.07
D.NJPC	Nathpa Jhakri	1500	956	1346	0	6.99	291	6.97	0.02
	Sub Total (D)	1500	956	1346	0	6.99	291	6.97	0.02
E. THDC	Tehri HPS	1000	1020	1015	0	8.47	353	8.50	-0.03
	Koteshwar HPS	200	119	205	0	2.75	115	2.70	0.05
	Sub Total (E)	**1200**	**1139**	**1220**	**0**	**11.22**	**467**	**11.20**	0.02
F. BBMB	Bhakra HPS	1480	663	917	522	16.20	675	15.92	0.28
	Dehar HPS	990	120	495	0	2.90	121	2.87	0.03
	Pong HPS	396	163	306	126	4.25	177	3.91	0.34
	Sub Total (F)	**2866**	**946**	**1718**	**648**	**23.35**	**973**	**22.70**	0.65
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.32	14	0.29	0.03
	KWHEP HPS(IPP)	1000	0	287	0	3.94	164	3.96	-0.02
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	136	200	5.09	212	4.57	0.52
	Sub Total (G)	1442	0	423	200	9.35	390	8.82	0.53
H. Total Regional Entities (A-G)		**21225**	**14459**	**15128**	**9097**	**274.49**	**11437**	**272.76**	**1.72**

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	1050	1060	25.79	1075
	Guru Nanak Dev TPS(Bhatinda)	440	215	215	4.51	188
	Guru Hargobind Singh TPS(L.mbt)	920	958	754	20.08	837
	Thermal (Total)	2620	2223	2029	50.38	2099
	Total Hydro	1148	428	368	5.00	208
	Total Punjab	**3768**	**2651**	**2397**	**55.38**	**2308**
Haryana	Panipat TPS	1360	1043	831	22.03	918
	DCRTPP (Yamuna nagar)	600	274	271	6.61	275
	Faridabad GPS (NTPC)	432	439	322	9.80	408
	RGTPP (khedar) (IPP)	1200	522	524	13.90	579
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Thermal (Total)	3617	2278	1948	52.34	2181
	Total Hydro	62	26	22	0.52	22
	Total Haryana	**3679**	**2304**	**1970**	**52.86**	**2203**
Rajasthan	kota TPS	1240	1169	1069	27.05	1127
	suratgarh TPS	1500	669	1046	14.90	621
	Chabra TPS	500	230	192	5.72	238
	Dholpur GPS	330	228	228	5.47	228
	Ramgarh GPS	113	65	66	1.64	68
	RAPS A (NPC)	300	180	183	4.47	186
	Barsingsar (NLC)	250	0	0	0.00	0
	Giral LTPS (IPP)	250	138	138	2.45	102
	Rajwest LTPS (IPP)	540	340	340	7.30	304
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3019	3262	69.01	2876
	Total Hydro	550	205	92	4.01	167
	Wind power	1294	3	94	1.11	46
	Biomass	71	45	45	1.08	45
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	48	139	6.19	258
	Total Rajasthan	**7073**	**3272**	**3493**	**79.21**	**3301**
UP	Anpara TPS	1630	1410	1567	33.80	1408
	Obra TPS	1442	586	651	13.70	571
	Paricha TPS	640	176	195	4.60	192
	Panki TPS	210	153	170	3.50	146
	Harduaganj TPS	415	124	138	1.10	46
	Tanda TPS (NTPC)	440	399	306	9.42	393
	Roza TPS (IPP)	900	495	383	10.60	442
	Anpara-C (IPP)	1200	322	252	6.50	271
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	117	136	3.00	125
	Thermal (Total)	7057	3782	3798	86.22	3593
	Vishnuparyag HPS (IPP)	400	84	84	2.04	85
	Other Hydro	527	118	30	2.95	123
	Cogeneration	951	650	650	15.60	650
	Total UP	**8935**	**4634**	**4562**	**106.81**	**4365**
Uttarakhand	Total Hydro	1303	477	293	9.00	375
	Total Uttarakhand	**1303**	**477**	**293**	**9.00**	**375**
Delhi	Rajghat TPS	135	51	49	1.30	54
	Delhi Gas Turbine	282	199	148	4.20	175
	Pragati Gas Turbine	330	313	269	7.20	300
	Rithala GPS	108	19	33	0.41	17
	Bawana GPS	440	182	28	2.70	113
	Badarpur TPS (NTPC)	705	540	295	11.80	492
	Thermal (Total)	2000	1304	834	27.61	1150
	Total Delhi	**2000**	**1304**	**834**	**27.61**	**1150**
HP	Baspa HPS (IPP)	330	0	0	0.83	35
	Malana HPS (IPP)	101	2	0	0.22	9
	Other Hydro	571	132	102	3.10	129
	Total HP	**1002**	**134**	**102**	**4**	**173**
J & K	Baglihar HPS (IPP)	450	143	142	3.39	141
	Other Hydro	323	25	120	1.24	51
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**168**	**262**	**4.62**	193
Total State Control Area Generation		**28716**	**14944**	**13913**	**339.65**	**14067**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**2243**	**1510**	**56.40**	**2350**
Total Regional Availability(Gross)		**49941**	**32315**	**24520**	**670.53**	**27854**

IV. Total Hydro Generation:

Regional Entities Hydro	**10083**	**5540**	**986**	**60.75**	**2531**
State Control Area Hydro	**5365**	**1556**	**1169**	**30.25**	**1261**
Total Regional Hydro	**15447**	**7096**	**2155**	**91.00**	**3792**

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	0	-400	200	500	0.30	6.13	-5.84
Gwalior-Agra (D/C)	524	737	1308	0	20.82	0.00	20.82
Zerda-Kankroli	-108	-82	198	126	0.31	0.00	0.31
Zerda-Bhinmal	-49	23	0	103	2.80	0.00	2.80
Malanpur-Auraiya	-103	-147	0	204	0.00	6.94	-6.94
Badod-Kota/Morak	30	47	113	40	1.06	0.00	1.06
Sub Total WR	**294**	**178**			**25.28**	**13.07**	**12.21**
Pusauli Bypass	-303	300	300	330	2.90	3.69	-0.79
MZP- GKP (D/C)	790	341	898	0	14.62	0.00	14.62
Patna-Balia(D/C)	344	356	451	0	8.78	0.00	8.78
B'Sharif-Balia (D/C)	637	251	888	0	11.34	0.00	11.34
Barh - balia(D/C)	373	0	474	0	8.13	0.00	8.13
Pusauli-Sahupuri	138	116	154	0	3.05	0.00	3.05
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.93	-0.93
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1949**	**1332**			**48.81**	**4.62**	**44.19**
Total IR Exch	**2243**	**1510**			**74.09**	**17.69**	**56.40**

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
22.22	0.43	22.65	10.99	14.34	1.08	2.63	2.77	-2.77

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
37.49	7.79	45.28	44.19	12.21	56.40	6.70	4.42	11.12

VI. Frequency Profile <---------- % of Time Frequency ---------->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.10	4.90	21.50	82.60	66.00	30.10	12.50

<---------- Frequency (Hz) ---------->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.46	2.33	49.20	19.09	49.89	0.68	0.24	50.43	49.59

VII. Voltage profile

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	02:14	395	16:51	0.0	0.0	0.0	0.0
Gorakhpur	400	434	19:16	4	14:23	0.2	0.2	48.5	2.1
Bareilly	400	425	00:00	393	06:48	0.0	0.0	10.5	0.0
Kanpur	400	422	02:16	390	06:46	0.0	0.0	2.1	0.0
Dadri	400	423	02:16	397	06:47	0.0	0.0	9.5	0.0
Ballabhgarh	400	426	02:14	394	06:48	0.0	0.0	17.4	0.0
Bawana	400	427	02:12	397	06:47	0.0	0.0	20.9	0.0
Bassi	400	426	04:09	381	06:48	0.0	2.3	2.7	0.0
Hissar	400	420	02:30	390	06:45	0.0	0.0	0.0	0.0
Moga	400	426	02:14	400	06:45	0.0	0.0	18.5	0.0
Abdullapur	400	428	02:07	294	23:39	0.0	0.0	19.0	0.0
Nalagarh	400	431	02:13	406	06:14	0.0	0.0	29.7	1.2
Kishenpur	400	419	17:18	388	18:52	0.0	1.2	0.0	0.0
Wagoora	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0

VIII. 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	500.47	1114.30	503.11	1232.31	185.16	468.56
Pong	426.72	384.05	412.78	588.94	416.34	730.66	66.49	263.88
Tehri	829.79	740.04	808.80	743.75	818.65	982.26	54.98	200.00
Koteshwar	612.50	598.50	608.50	3.76	NA	NA	170.00	162.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	263.44	508.00	257.04	159.40	NA	NA
RPS	352.80	343.81	349.83	NA	348.47	NA	NA	157.92
Jawahar Sagar	298.70	295.78	297.55	NA	297.85	NA	NA	200.14
RSD	527.91	487.91	509.29	NA	511.64	NA	43.64	114.20

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.01.2012 :

1. Normal & Cold weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Genration at Dulhasti remianed zero due to evacuation problem.

Report for : 09.01.2012 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**