पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.03.2013
Date of Reporting : 09.03.2013

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
30215	2256	32471	49.85	27709	1115	28824	50.08	720.2	56.88

* 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	26.60	11.07		37.67	54.74	54.48	-0.26	92.15	1.28
Haryana	44.16	0.49		44.65	55.70	54.72	-0.99	99.37	1.93
Rajasthan	101.65	4.32	5.37	111.33	67.05	66.03	-1.02	177.36	0.42
Delhi	31.00			31.00	29.66	28.06	-1.60	59.05	0.02
UP	94.20	7.54	19.20	120.93	82.07	82.98	0.91	203.91	50.14
Uttarakhand		11.97		11.97	18.14	17.48	-0.66	29.45	1.40
HP		8.11		8.11	14.85	13.65	-1.20	21.76	1.70
J & K		9.54	0.00	9.54	26.05	24.17	-1.88	33.71	0.00
Chandigarh				0.00	3.64	3.41	-0.23	3.41	0.00
Total	**297.61**	**53.02**	**24.57**	**375.20**	**351.90**	**344.97**	**-6.93**	**720.16**	**56.88**

*** 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	4281	0	-290	-112	3298	0	-88	324	1.28
Haryana	4728	50	56	111	3949	0	-65	-51	-1.49
Rajasthan	6408	0	-363	529	7391	0	62	704	17.82
Delhi	3073	6	92	-982	1444	0	30	-1774	-29.11
UP	7781	2020	-658	-118	8709	1115	110	-42	-1.83
Uttarakhand	1466	80	-25	415	1002	0	5	267	8.14
HP	859	0	-120	-262	670	0	-58	174	0.98
J&K	1495	100	-94	13	1159	0	-91	20	0.40
Chandigarh	124	0	-59	-30	87	0	-16	0	-0.33
Total	**30215**	**2256**	**-1460**	**-436**	**27709**	**1115**	**-110**	**-378**	**-4.14**

* 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	1970	2107	2114	47.68	1987	47.07	0.61
	Rihand I STPS	1000	930	1008	995	22.43	935	22.11	0.32
	Rihand II STPS	1000	966	1040	992	22.95	956	23.00	-0.04
	Rihand III STPS	500	414	451	500	9.79	408	9.93	-0.14
	Dadri I STPS	840	807	811	638	17.14	714	18.07	-0.93
	Dadri II STPS	980	969	705	692	16.73	697	15.68	1.05
	Unchahar I TPS	420	407	438	441	9.82	409	9.55	0.28
	Unchahar II TPS	420	405	430	441	9.66	403	9.35	0.31
	Unchahar III TPS	210	202	219	220	4.84	202	4.67	0.17
	ISTPP (Jhajjhar)	1500	995	419	407	9.17	382	9.28	-0.11
	Dadri GPS	830	629	329	337	7.76	323	7.81	-0.05
	Anta GPS	419	405	240	193	5.27	220	5.18	0.09
	Auraiya GPS	663	647	150	157	3.58	149	3.73	-0.15
	Sub Total (A)	**10782**	**9746**	**8347**	**8127**	**186.83**	**7785**	**185.42**	**1.41**
B. NPC	NAPS	440	305	335	344	7.19	300	7.32	-0.13
	RAPS- B	440	425	460	464	10.05	419	10.20	-0.15
	RAPS- C	440	430	473	477	10.19	425	10.32	-0.13
	Sub Total (B)	**1320**	**1160**	**1268**	**1285**	**27.43**	**1143**	**27.84**	**-0.41**
C. NHPC	Chamera I HPS	540	550	540	0	4.49	187	4.39	0.10
	Chamera II HPS	300	281	201	0	2.46	103	2.41	0.05
	Chamera III HPS	231	231	162	0	1.48	62	1.32	0.15
	Bairasuil HPS	180	182	180	120	2.30	96	2.05	0.25
	Salal-HPS	690	294	367	238	7.18	299	6.81	0.36
	Tanakpur-HPS	94	28	32	25	0.70	29	0.65	0.04
	Uri-HPS	480	463	478	408	11.25	469	10.64	0.61
	Dhauliganga-HPS	280	216	141	0	0.96	40	0.97	-0.02
	Dulhasti-HPS	390	257	269	0	3.02	126	2.72	0.29
	Sewa-II HPS	120	120	126	119	2.87	120	2.90	-0.03
	Sub Total (C)	**3305**	**2621**	**2496**	**910**	**36.70**	**1529**	**34.87**	1.82
D.NJPC	Nathpa Jhakri	1500	1350	1266	0	7.07	294	6.80	0.27
	Sub Total (D)	1500	1350	1266	0	7.07	294	6.80	0.27
E. THDC	Tehri HPS	1000	852	857	0	8.65	361	8.50	0.15
	Koteshwar HPS	400	400	392	90	3.28	137	3.30	-0.02
	Sub Total (E)	**1400**	**1252**	**1249**	**90**	**11.93**	**497**	**11.80**	0.13
F. BBMB	Bhakra HPS	1480	571	994	417	14.08	587	13.70	0.39
	Dehar HPS	990	263	495	140	6.96	290	6.32	0.64
	Pong HPS	396	175	306	60	4.48	187	5.01	-0.53
	Sub Total (F)	**2866**	**1009**	**1795**	**617**	**25.52**	**1063**	**25.02**	0.50
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.55	23	0.49	0.06
	KWHEP HPS(IPP)	1000	0	149	0	3.68	153	3.66	0.02
	Malana Stg-II HPS	100	0	36	0	0.28	12	0.21	0.07
	Shree Cement TPS	300	0	111	182	3.16	132	2.95	0.21
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	296	182	7.67	320	7.31	0.36
H. Total Regional Entities (A-G)		**22836**	**17138**	**16717**	**11211**	**303.15**	**12631**	**299.05**	**4.09**

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	630	510	13.61	567
	Guru Nanak Dev TPS(Bhatinda)	440	120	105	2.50	104
	Guru Hargobind Singh TPS(L.mbt)	920	520	364	10.49	437
	Thermal (Total)	2620	1270	979	26.60	1108
	Total Hydro	1148	407	423	11.07	461
	Total Punjab	**3768**	**1677**	**1402**	**37.67**	**1570**
Haryana	Panipat TPS	1367	843	839	20.37	849
	DCRTPP (Yamuna nagar)	600	278	281	6.62	276
	Faridabad GPS (NTPC)	432	161	161	4.08	170
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	611	550	13.09	546
	Thermal (Total)	4944	1893	1831	44.16	1840
	Total Hydro	62	22	15	0.49	20
	Total Haryana	**5006**	**1915**	**1846**	**44.65**	**1860**
Rajasthan	kota TPS	1240	1077	1154	27.66	1153
	suratgarh TPS	1500	1159	1337	30.26	1261
	Chabra TPS	500	367	350	9.12	380
	Dholpur GPS	330	141	141	3.32	139
	Ramgarh GPS	111	71	67	1.80	75
	RAPS A (NPC)	300	183	183	4.78	199
	Barsingsar (NLC)	250	193	110	3.14	131
	Giral LTPS	250	110	103	2.42	101
	Rajwest LTPS (IPP)	675	729	905	19.15	798
	VSLP LTPS (IPP)	135	0		0.00	0
	Thermal (Total)	5291	4030	4350	101.65	4235
	Total Hydro	550	100	237	4.32	180
	Wind power	2191	179	101	4.50	187
	Biomass	91	28	28	0.67	28
	Solar	201	0	0	0.20	8
	Renewable/Others (Total)	2483	207	129	5.37	224
	Total Rajasthan	**8324**	**4337**	**4716**	**111.33**	**4639**
UP	Anpara TPS	1630	1566	1563	33.60	1400
	Obra TPS	1382	226	237	4.90	204
	Paricha TPS	890	501	484	10.40	433
	Panki TPS	210	95	85	1.90	79
	Harduaganj TPS	665	287	279	5.30	221
	Tanda TPS (NTPC)	440	403	403	9.86	411
	Roza TPS (IPP)	1200	810	810	19.52	813
	Anpara-C (IPP)	1200	0	0	0.00	0
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	363	405	8.72	364
	Thermal (Total)	8067	4251	4266	94.20	3925
	Vishnuparyag HPS (IPP)	400	79	75	1.79	75
	Other Hydro	527	182	265	5.75	240
	Cogeneration	981	800	800	19.20	800
	Total UP	**9975**	**5312**	**5406**	**120.93**	**4964**
Uttarakhand	Total Hydro	1303	595	414	11.97	499
	Total Uttarakhand	**1303**	**595**	**414**	**11.97**	**499**
Delhi	Rajghat TPS	135	58	55	1.46	61
	Delhi Gas Turbine	282	120	122	2.98	124
	Pragati Gas Turbine	330	272	262	6.58	274
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	291	224	6.35	264
	Badarpur TPS (NTPC)	705	640	580	13.64	568
	Thermal (Total)	2237	1381	1243	31.00	1292
	Total Delhi	**2237**	**1381**	**1243**	**31.00**	**1292**
HP	Baspa HPS (IPP)	330	0	0	0.81	34
	Malana HPS (IPP)	86	36	0	0.30	12
	Other Hydro	589	272	250	7.00	292
	Total HP	**1005**	**308**	**250**	**8.11**	**338**
J & K	Baglihar HPS (IPP)	450	123	241	4.99	208
	Other Hydro	323	95	130	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**218**	**371**	**9.54**	397
Total State Control Area Generation		**32574**	**15743**	**15648**	**375.20**	**15559**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**2010**	**2542**	**61.01**	**2542**
Total Regional Availability(Gross)		**55410**	**34470**	**29401**	**739.36**	**30732**

IV. Total Hydro Generation:

Regional Entities Hydro	**10364**	**6991**	**1617**	**85.73**	**3572**
State Control Area Hydro	**5368**	**1832**	**1975**	**53.02**	**2135**
Total Regional Hydro	**15731**	**8823**	**3592**	**138.75**	**5707**

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	-150	-300	50	300	0.19	4.11	-3.92
Gwalior-Agra (D/C)	0	436	547	0	8.34	0.00	8.34
Zerda-Kankroli	-66	-65	18	167	0.00	1.14	-1.14
Zerda-Bhinmal	16	5	147	159	0.00	0.46	-0.46
Malanpur-Auraiya	-149	-87	0	155	0.00	2.50	-2.50
Badod-Kota/Morak	-152	-100	0	152	0.00	1.82	-1.82
Mundra-Mohindergarh(HVDC)	1050	1052	1053	0	24.84	0.00	24.84
Sub Total WR	**549**	**941**			**33.37**	**10.03**	**23.35**
Pusauli Bypass	200	200	200	0	4.85	0.00	4.85
MZP- GKP (D/C)	168	310	363	0	5.63	0.00	5.63
Patna-Balia(D/C)	558	632	1096	0	15.53	0.00	15.53
B'Sharif-Balia (D/C)	306	253	452	0	6.78	0.00	6.78
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	45	-24	139	66	0.00	0.36	-0.36
Gaya-Fatehpur (765 Kv)	97	160	287	0	3.71	0.00	3.71
Pusauli-Sahupuri	125	110	151	0	2.54	0.00	2.54
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	44	0.00	1.01	-1.01
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1461**	**1601**			**39.04**	**1.37**	**37.67**
Total IR Exch	**2010**	**2542**			**72.41**	**11.40**	**61.01**

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
47.16	0.15	47.31	-4.73	-3.04	1.24	-10.52	-2.18	2.20

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
41.65	26.99	68.63	37.67	23.35	61.01	-3.98	-3.64	-7.62

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	0.00	0.31	7.46	98.37	91.22	56.15	1.32

<---------- 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)
50.45	17.06	49.40	22.03	50.01	0.19	0.11	50.26	49.70

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	406	0:00	400	5:44	0.0	0.0	0.0	0.0
Gorakhpur	400	421	5:28	409	10:30	0.0	0.0	2.3	0.0
Bareilly	400	420	5:30	407	10:40	0.0	0.0	0.0	0.0
Kanpur	400	414	21:43	399	6:22	0.0	0.0	0.0	0.0
Dadri	400	418	4:03	401	10:06	0.0	0.0	0.0	0.0
Ballabhgarh	400	421	4:03	403	10:07	0.0	0.0	0.5	0.0
Bawana	400	421	2:30	405	10:06	0.0	0.0	0.6	0.0
Bassi	400	419	18:16	390	6:21	0.0	0.0	0.0	0.0
Hissar	400	409	21:32	391	16:38	0.0	0.0	0.0	0.0
Moga	400	412	4:03	394	16:38	0.0	0.0	0.0	0.0
Abdullapur	400	424	21:34	405	16:38	0.0	0.0	5.9	0.0
Nalagarh	400	427	4:03	404	16:38	0.0	0.0	20.1	0.0
Kishenpur	400	416	17:05	398	9:18	0.0	0.0	0.0	0.0
Wagoora	400	403	17:04	381	6:56	0.0	44.2	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	484.97	585.65	485.32	593.99	247.21	392.10
Pong	426.72	384.05	403.00	288.96	406.89	397.88	109.98	352.23
Tehri	829.79	740.04	786.60	411.99	818.65	982.26	62.18	229.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	116.02	111.62
Rihand	268.22	252.98	258.96	NA	260.97	NA	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	508.79	NA	497.39	NA	123.35	182.22

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.03.2013 :

'Normal Weather in Northern Region.

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 :

Report for : 08.03.2013 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**