पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.04.2013
Date of Reporting : 13.04.2013

I. Regional Availability/Demand:

Evening Peak (20:00 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
33923	4087	38010	49.81	29216	3431	32647	50.18	699.4	85.23

* 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	49.39	7.43		56.81	43.09	43.72	0.63	100.53	3.71
Haryana	47.58	0.59		48.17	47.27	46.69	-0.58	94.86	2.56
Rajasthan	89.54	0.12	5.17	94.83	48.52	46.32	-2.20	141.15	1.38
Delhi	27.85			27.85	46.01	45.26	-0.76	73.10	1.91
UP	99.66	5.63	19.20	124.49	80.79	82.16	1.37	206.65	68.96
Uttarakhand		10.38		10.38	16.75	18.87	2.13	29.25	3.28
HP		9.64		9.64	11.74	12.76	1.02	22.41	1.73
J & K		7.19	0.00	7.19	20.88	20.13	-0.75	27.32	1.70
Chandigarh				0.00	4.08	4.16	0.09	4.16	0.00
Total	**314.02**	**40.98**	**24.37**	**379.37**	**319.13**	**320.07**	**0.94**	**699.44**	**85.23**

*** 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 (20:00 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	6613	391	71	-89	5885	108	-81	378	3.53
Haryana	4671	577	38	46	3696	0	-69	-473	-5.73
Rajasthan	6193	308	-69	500	5798	0	-193	221	8.21
Delhi	3361	221	-110	-97	2448	0	-116	-408	-5.14
UP	8879	2330	-275	-24	8383	3140	135	117	0.98
Uttarakhand	1467	160	186	338	986	160	-32	323	8.18
HP	1109	0	-64	-355	804	23	89	7	-2.38
J&K	1424	100	-118	-19	1098	0	73	-35	-0.75
Chandigarh	206	0	-11	0	118	0	1	0	0.46
Total	**33923**	**4087**	**-352**	**298**	**29216**	**3431**	**-193**	**131**	**7.37**

* 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	1245	1363	1368	30.49	1270	29.88	0.61
	Rihand I STPS	1000	925	1000	996	22.27	928	22.20	0.07
	Rihand II STPS	1000	975	1047	1039	23.40	975	23.40	0.00
	Rihand III STPS	500	468	497	507	11.31	471	11.24	0.08
	Dadri I STPS	840	807	803	824	18.97	791	19.37	-0.40
	Dadri II STPS	980	477	512	520	11.76	490	11.42	0.35
	Unchahar I TPS	420	405	442	428	9.70	404	9.68	0.02
	Unchahar II TPS	420	400	442	431	9.53	397	9.52	0.01
	Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar)	1500	995	517	361	8.95	373	9.31	-0.36
	Dadri GPS	830	794	389	514	10.34	431	10.61	-0.27
	Anta GPS	419	389	244	246	5.90	246	5.92	-0.02
	Auraiya GPS	663	627	304	316	7.20	300	6.90	0.30
	Sub Total (A)	**10782**	**8507**	**7560**	**7550**	**169.82**	**7076**	**169.44**	**0.38**
B. NPC	NAPS	440	0	0	0 0	0.00	0	0.00	0.00
	RAPS- B	440	417	461	232	10.05	419	10.01	0.04
	RAPS- C	440	430	469	475	10.18	424	10.32	-0.14
	Sub Total (B)	**1320**	**847**	**930**	**707**	**20.23**	**843**	**20.33**	**-0.10**
C. NHPC	Chamera I HPS	540	550	540	0	5.46	227	5.30	0.16
	Chamera II HPS	300	310	307	0	2.80	117	3.07	-0.27
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	182	180	20	2.10	87	2.07	0.03
	Salal-HPS	690	236	205	199	5.95	248	6.00	-0.05
	Tanakpur-HPS	94	29	32	26	0.71	29	0.70	0.01
	Uri-HPS	480	476	480	480	11.62	484	11.66	-0.04
	Dhauliganga-HPS	280	280	282	0	1.69	70	1.67	0.02
	Dulhasti-HPS	390	387	396	0	4.40	183	4.21	0.19
	Sewa-II HPS	120	119	0	37	2.21	92	2.32	-0.11
	Sub Total (C)	**3305**	**2568**	**2422**	**762**	**36.94**	**1539**	**37.00**	-0.06
D.NJPC	Nathpa Jhakri	1500	1605	1314	0	11.08	461	11.00	0.07
	Sub Total (D)	1500	1605	1314	0	11.08	461	11.00	0.07
E. THDC	Tehri HPS	1000	540	545	0	7.65	319	7.50	0.15
	Koteshwar HPS	400	300	289	0	3.46	144	3.40	0.06
	Sub Total (E)	**1400**	**840**	**834**	**0**	**11.11**	**463**	**10.90**	0.21
F. BBMB	Bhakra HPS	1480	304	307	313	7.54	314	7.30	0.24
	Dehar HPS	990	304	825	310	7.59	316	7.30	0.30
	Pong HPS	396	11	120	0	0.33	14	5.01	-4.68
	Sub Total (F)	**2866**	**619**	**1252**	**623**	**15.46**	**644**	**19.60**	-4.14
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	30	31	0.72	30	0.69	0.03
	KWHEP HPS(IPP)	1000	0	438	0	6.17	257	6.00	0.17
	Malana Stg-II HPS	100	0	0	0	0.31	13	0.30	0.01
	Shree Cement TPS	300	0	267	203	5.99	250	5.62	0.37
	Budhil HPS(IPP)	70	0	25	10	0.41	17	0.41	0.00
	Sub Total (G)	1662	0	760	244	13.60	567	13.02	0.58
H. Total Regional Entities (A-G)		**22836**	**14986**	**15072**	**9886**	**278.23**	**11593**	**281.28**	**-3.05**

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	1053	1052	23.69	987
	Guru Nanak Dev TPS(Bhatinda)	440	204	202	4.34	181
	Guru Hargobind Singh TPS(L.mbt)	920	965	963	21.36	890
	Thermal (Total)	2620	2222	2217	49.39	2058
	Total Hydro	1148	342	237	7.43	309
	Total Punjab	**3768**	**2564**	**2454**	**56.81**	**2367**
Haryana	Panipat TPS	1367	846	846	20.34	848
	DCRTPP (Yamuna nagar)	600	559	561	13.12	547
	Faridabad GPS (NTPC)	432	165	163	5.22	218
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	375	370	8.90	371
	Thermal (Total)	4944	1945	1940	47.58	1983
	Total Hydro	62	22	25	0.59	25
	Total Haryana	**5006**	**1967**	**1965**	**48.17**	**2007**
Rajasthan	kota TPS	1240	981	1166	24.57	1024
	suratgarh TPS	1500	1128	1138	26.45	1102
	Chabra TPS	500	439	431	10.54	439
	Dholpur GPS	330	137	135	3.36	140
	Ramgarh GPS	111	82	38	1.07	45
	RAPS A (NPC)	300	190	190	4.72	197
	Barsingsar (NLC)	250	0	0	0.00	0
	Giral LTPS	250	57	33	1.22	51
	Rajwest LTPS (IPP)	1080	684	622	17.61	734
	VSLP LTPS (IPP)	135	0		0.00	0
	Thermal (Total)	5696	3698	3753	89.54	3731
	Total Hydro	550	0	0	0.12	5
	Wind power	2191	74	417	3.12	130
	Biomass	91	28	28	0.68	28
	Solar	201	0	0	1.37	57
	Renewable/Others (Total)	2483	102	445	5.17	215
	Total Rajasthan	**8729**	**3800**	**4198**	**94.83**	**3951**
UP	Anpara TPS	1630	1227	1265	29.70	1238
	Obra TPS	1382	447	450	11.00	458
	Paricha TPS	890	702	603	14.80	617
	Panki TPS	210	77	77	1.80	75
	Harduaganj TPS	665	304	274	5.90	246
	Tanda TPS (NTPC)	440	299	299	7.40	308
	Roza TPS (IPP)	1200	279	275	6.59	275
	Anpara-C (IPP)	1200	519	526	12.75	531
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	405	9.71	405
	Thermal (Total)	8067	4259	4174	99.66	4153
	Vishnuparyag HPS (IPP)	400	99	89	2.18	91
	Other Hydro	527	183	138	3.46	144
	Cogeneration	981	800	800	19.20	800
	Total UP	**9975**	**5341**	**5201**	**124.49**	**5097**
Uttarakhand	Total Hydro	1303	455	434	10.38	432
	Total Uttarakhand	**1303**	**455**	**434**	**10.38**	**432**
Delhi	Rajghat TPS	135	105	100	2.52	105
	Delhi Gas Turbine	282	221	229	5.53	230
	Pragati Gas Turbine	330	288	262	6.98	291
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	31	0	0.13	5
	Badarpur TPS (NTPC)	705	595	490	12.69	529
	Thermal (Total)	2237	1240	1081	27.85	1160
	Total Delhi	**2237**	**1240**	**1081**	**27.85**	**1160**
HP	Baspa HPS (IPP)	330	71	44	1.23	51
	Malana HPS (IPP)	86	15	0	0.36	15
	Other Hydro	589	374	338	8.06	336
	Total HP	**1005**	**460**	**382**	**9.64**	**402**
J & K	Baglihar HPS (IPP)	450	248	244	5.79	241
	Other Hydro	323	46	93	1.40	58
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**294**	**337**	**7.19**	300
Total State Control Area Generation		**32979**	**16121**	**16052**	**379.37**	**15716**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**2260**	**2786**	**61.18**	**2549**
Total Regional Availability(Gross)		**55815**	**33453**	**28724**	**718.78**	**29858**

IV. Total Hydro Generation:

Regional Entities Hydro	**10364**	**6290**	**1416**	**81.78**	**3408**
State Control Area Hydro	**5368**	**1756**	**1553**	**40.98**	**1617**
Total Regional Hydro	**15731**	**8046**	**2969**	**122.76**	**5025**

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 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	0	0	5.35	0.00	5.35
Gwalior-Agra (D/C)	405	989	1174	0	19.37	0.00	19.37
Zerda-Kankroli	-182	-184	0	310	0.00	4.83	-4.83
Zerda-Bhinmal	-134	-128	0	244	0.00	3.40	-3.40
Malanpur-Auraiya	-110	-65	0	144	0.00	1.79	-1.79
Badod-Kota/Morak	-62	-135	0	212	0.00	2.65	-2.65
Mundra-Mohindergarh(HVDC)	1266	1269	1269	0	30.66	0.00	30.66
Sub Total WR	**1483**	**2046**			**55.38**	**12.67**	**42.71**
Pusauli Bypass	150	150	150	0	3.65	0.00	3.65
MZP- GKP (D/C)	50	124	228	0	1.33	0.00	1.33
Patna-Balia(D/C)	342	298	455	0	7.88	0.00	7.88
B'Sharif-Balia (D/C)	104	49	222	0	2.68	0.00	2.68
Pusauli-Balia	-64	-45	53	140	0.00	1.34	-1.34
Gaya-Fatehpur (765 Kv)	92	127	182	0	2.28	0.00	2.28
Pusauli-Sahupuri	139	77	169	0	2.96	0.00	2.96
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**777**	**740**			**20.78**	**2.31**	**18.47**
Total IR Exch	**2260**	**2786**			**76.16**	**14.98**	**61.18**

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
27.20	0.50	27.70	-2.87	-10.73	-4.59	12.44	-2.30	2.30

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
17.94	36.89	54.83	18.47	42.71	61.18	0.53	5.82	6.35

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	0.80	7.20	98.40	92.00	25.50	0.80

<---------- 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)
50.27	8.01	49.37	21.07	49.91	0.28	0.14	50.26	49.69

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	414	0:11	402	6:25	0.0	0.0	0.0	0.0
Gorakhpur	400	428	15:05	409	9:35	0.0	0.0	41.8	0.0
Bareilly	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Kanpur	400	422	4:08	404	18:57	0.0	0.0	4.2	0.0
Dadri	400	423	2:06	404	18:57	0.0	0.0	6.9	0.0
Ballabhgarh	400	429	2:04	408	18:57	0.0	0.0	35.4	0.0
Bawana	400	424	2:45	404	18:59	0.0	0.0	12.7	0.0
Bassi	400	430	3:18	412	5:30	0.0	0.0	51.4	0.0
Hissar	400	416	2:44	398	19:23	0.0	0.0	0.0	0.0
Moga	400	421	2:04	401	19:10	0.0	0.0	0.7	0.0
Abdullapur	400	425	2:04	406	18:59	0.0	0.0	16.8	0.0
Nalagarh	400	429	2:05	407	19:23	0.0	0.0	26.0	0.0
Kishenpur	400	427	0:11	402	19:23	0.0	0.0	21.8	0.0
Wagoora	400	419	0:12	386	19:14	0.0	3.9	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	778	4:07	747	20:32	0.0	0.0	0.0	0.0
Balia	765	773	15:00	728	9:39	0.0	30.6	0.0	0.0
Moga	765	791	2:47	753	19:23	0.0	0.0	0.0	0.0
Agra	765	795	2:06	761	20:33	0.0	0.0	0.0	0.0
Bhiwani	765	794	2:07	759	18:57	0.0	0.0	0.0	0.0
Unnao	765	776	4:07	750	18:57	0.0	0.0	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	478.27	420.92	474.81	350.94	296.68	226.17
Pong	426.72	384.05	400.13	223.85	402.97	288.96	61.87	22.71
Tehri	829.79	740.04	767.85	186.00	818.65	982.26	65.80	226.00
Koteshwar	612.50	598.50	610.20	4.44	609.90	4.44	223.00	223.00
Chamera-I	760.00	748.75	756.79	NA	NA	NA	139.36	147.29
Rihand	268.22	252.98	257.40	175.00	259.11	257.10	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	NA
RSD	527.91	487.91	506.81	NA	496.38	NA	96.08	142.52

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 12.04.2013 :

1.Normal weather.

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 :

Report for : 12.04.2013 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**