पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.04.2012
Date of Reporting : 16.04.2012

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
30182	1308	31490	49.97	22627	0	22627	49.99	594.5	11.43

* 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	40.80	9.39		50.19	41.93	38.71	-3.21	88.90	1.80
Haryana	49.45	0.59		50.04	30.16	32.10	1.94	82.14	0.81
Rajasthan	74.44	0.00	2.36	76.80	31.93	42.67	10.74	119.47	0.04
Delhi	21.93			21.93	46.95	34.35	-12.60	56.29	0.00
UP	84.29	5.88	9.60	99.77	74.00	70.15	-3.85	169.92	6.53
Uttarakhand		8.51		8.51	11.76	16.50	4.75	25.02	1.06
HP		9.23		9.23	11.06	11.42	0.36	20.65	0.00
J & K		12.64	0.00	12.64	16.02	16.29	0.28	28.93	1.20
Chandigarh				0.00	3.62	3.17	-0.45	3.17	0.00
Total	**270.91**	**46.23**	**11.96**	**329.10**	**267.42**	**265.38**	**-2.04**	**594.48**	**11.43**

*** 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	3861	450	-231	-94	3520	0	-217	-94	-2.24
Haryana	4217	373	388	74	3024	0	-83	74	1.78
Rajasthan	5538	0	544	-315	4472	0	491	-315	-7.56
Delhi	2759	0	-97	447	1990	0	-347	252	8.89
UP	10234	165	501	465	6671	0	-682	265	7.36
Uttarakhand	1101	220	38	47	980	0	262	47	1.14
HP	914	0	-109	-311	766	0	24	59	-2.61
J&K	1390	100	-92	-333	1100	0	24	-333	-8.00
Chandigarh	168	0	-34	0	104	0	-7	0	0.00
Total	**30182**	**1308**	**908**	**-19**	**22627**	**0**	**-535**	**-44**	**-1.25**

* 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	1460	1593	1596	35.17	1465	34.94	0.23
	Rihand I STPS	1000	905	989	959	21.25	885	20.63	0.62
	Rihand II STPS	1000	975	1044	1021	22.88	953	22.34	0.54
	Dadri I STPS	840	803	675	617	14.02	584	13.73	0.29
	Dadri II STPS	980	470	374	362	9.13	381	9.27	-0.14
	Unchahar I TPS	440	403	418	347	8.47	353	8.30	0.17
	Unchahar II TPS	440	200	184	159	4.04	168	3.88	0.17
	Unchahar III TPS	210	199	191	159	4.11	171	3.99	0.12
	ISTPP (Jhajjhar)	1000	477	500	494	11.57	482	11.01	0.56
	Dadri GPS	830	823	557	515	12.56	524	12.54	0.02
	Anta GPS	419	390	197	240	5.89	246	5.51	0.39
	Auraiya GPS	663	616	465	440	9.98	416	9.69	0.29
	Sub Total (A)	**9822**	**7722**	**7187**	**6909**	**159.08**	**6628**	**155.83**	**3.25**
B. NPC	NAPS	440	272	305	312	6.52	271	6.53	-0.01
	RAPS- B	440	388	424	432	10.24	427	9.31	0.93
	RAPS- C	440	416	469	472	10.17	424	9.98	0.18
	Sub Total (B)	**1320**	**1076**	**1198**	**1216**	**26.93**	**1122**	**25.82**	**1.10**
C. NHPC	Chamera I HPS	540	534	540	0	6.86	286	6.54	0.32
	Chamera II HPS	300	297	292	0	3.61	150	3.61	0.00
	Bairasuil HPS	180	114	182	120	2.37	99	2.34	0.03
	Salal-HPS	690	388	471	234	9.00	375	9.30	-0.30
	Tanakpur-HPS	94	24	33	18	0.66	27	0.71	-0.05
	Uri-HPS	480	480	480	479	11.50	479	11.39	0.11
	Dhauliganga-HPS	280	277	278	0	1.42	59	1.37	0.05
	Dulhasti-HPS	390	388	392	125	4.93	205	5.04	-0.11
	Sewa-II HPS	120	119	121	101	2.77	115	2.77	0.00
	Sub Total (C)	**3074**	**2620**	**2789**	**1077**	**43.12**	**1797**	**43.07**	0.05
D.NJPC	Nathpa Jhakri	1500	1600	1603	0	8.82	368	8.85	-0.02
	Sub Total (D)	1500	1600	1603	0	8.82	368	8.85	-0.02
E. THDC	Tehri HPS	1000	564	503	0	5.06	211	5.00	0.06
	Koteshwar HPS	300	219	206	0	2.86	119	2.70	0.16
	Sub Total (E)	**1300**	**783**	**709**	**0**	**7.92**	**330**	**7.70**	0.22
F. BBMB	Bhakra HPS	1480	399	598	388	9.84	410	9.58	0.26
	Dehar HPS	990	240	660	145	6.72	280	5.75	0.97
	Pong HPS	396	6	120	0	0.18	8	0.15	0.03
	Sub Total (F)	**2866**	**645**	**1378**	**533**	**16.74**	**698**	**15.48**	1.26
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	40	0	0.31	13	0.31	0.01
	KWHEP HPS(IPP)	1000	0	552	150	4.64	193	5.27	-0.63
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	128	66	2.48	103	3.61	-1.13
	Sub Total (G)	1592	0	720	216	7.43	310	9.19	-1.75
H. Total Regional Entities (A-G)		**21475**	**14445**	**15584**	**9951**	**270.04**	**11252**	**265.94**	**4.10**

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	836	835	18.67	778
	Guru Nanak Dev TPS(Bhatinda)	440	0	0	0.74	31
	Guru Hargobind Singh TPS(L.mbt)	920	967	972	21.40	891
	Thermal (Total)	2620	1803	1807	40.80	1700
	Total Hydro	1148	384	409	9.39	391
	Total Punjab	**3768**	**2187**	**2216**	**50.19**	**2091**
Haryana	Panipat TPS	1360	835	825	20.08	837
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	394	413	8.49	354
	RGTPP (khedar) (IPP)	1200	887	807	20.88	870
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2116	2045	49.45	2060
	Total Hydro	62	10	22	0.59	25
	Total Haryana	**4339**	**2126**	**2067**	**50.04**	**2085**
Rajasthan	kota TPS	1240	949	758	20.34	847
	suratgarh TPS	1500	1373	915	29.56	1232
	Chabra TPS	500	0	0	0.00	0
	Dholpur GPS	330	273	275	6.20	258
	Ramgarh GPS	111	18	18	0.37	15
	RAPS A (NPC)	300	190	169	4.73	197
	Barsingsar (NLC) IPP	250	113	221	2.54	106
	Giral LTPS	250	49	0	0.97	41
	Rajwest LTPS (IPP)	540	363	345	9.73	405
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3328	2701	74.44	3102
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	76	90	1.22	51
	Biomass	91	48	48	1.14	48
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	1934	124	138	2.36	98
	Total Rajasthan	**7640**	**3452**	**2839**	**76.80**	**3200**
UP	Anpara TPS	1630	1253	1245	29.20	1217
	Obra TPS	1382	458	437	10.90	454
	Paricha TPS	640	385	354	8.90	371
	Panki TPS	210	131	131	3.00	125
	Harduaganj TPS	415	0	0	0.00	0
	Tanda TPS (NTPC)	440	193	196	4.51	188
	Roza TPS (IPP)	1200	1112	811	10.82	451
	Anpara-C (IPP)	1200	486	461	10.80	450
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	193	216	6.16	257
	Thermal (Total)	7567	4211	3851	84.29	3512
	Vishnuparyag HPS (IPP)	400	109	109	2.56	107
	Other Hydro	527	238	0	3.32	138
	Cogeneration	981	400	400	9.60	400
	Total UP	**9475**	**4958**	**4360**	**99.77**	**4050**
Uttarakhand	Total Hydro	1303	438	314	8.51	355
	Total Uttarakhand	**1303**	**438**	**314**	**8.51**	**355**
Delhi	Rajghat TPS	135	101	101	2.72	113
	Delhi Gas Turbine	282	157	157	3.93	164
	Pragati Gas Turbine	330	144	147	3.62	151
	Rithala GPS	108	35	37	0.89	37
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	495	485	10.77	449
	Thermal (Total)	2000	932	927	21.93	914
	Total Delhi	**2000**	**932**	**927**	**21.93**	**914**
HP	Baspa HPS (IPP)	330	0	0	1.08	45
	Malana HPS (IPP)	101	32	0	0.30	12
	Other Hydro	571	298	297	7.85	327
	Total HP	**1002**	**330**	**297**	**9**	**385**
J & K	Baglihar HPS (IPP)	450	438	436	9.63	401
	Other Hydro	323	120	128	3.01	125
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**558**	**564**	**12.64**	527
Total State Control Area Generation		**30483**	**14981**	**13584**	**329.10**	**13606**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**1567**	**-9**	**9.30**	**388**
Total Regional Availability(Gross)		**51958**	**32132**	**23526**	**608.45**	**25245**

IV. Total Hydro Generation:

Regional Entities Hydro	**10033**	**7071**	**1760**	**81.55**	**3398**
State Control Area Hydro	**5365**	**1958**	**1606**	**43.67**	**1820**
Total Regional Hydro	**15397**	**9029**	**3366**	**125.22**	**5218**

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	-100	-300	0	500	0.00	6.21	-6.21
Gwalior-Agra (D/C)	428	401	867	158	7.75	0.00	7.75
Zerda-Kankroli	-65	-209	0	413	0.00	5.01	-5.01
Zerda-Bhinmal	-33	-175	26	368	0.00	3.75	-3.75
Malanpur-Auraiya	-100	-72	0	240	0.00	2.53	-2.53
Badod-Kota/Morak	31	-33	60	90	0.00	0.96	-0.96
Sub Total WR	**161**	**-388**			**7.75**	**18.46**	**-10.71**
Pusauli Bypass	-175	-346	0	346	0.00	4.76	-4.76
MZP- GKP (D/C)	688	170	790	0	8.61	0.00	8.61
Patna-Balia(D/C)	236	245	400	0	6.65	0.00	6.65
B'Sharif-Balia (D/C)	206	154	372	0	4.95	0.00	4.95
Barh - Balia(D/C)	265	0	304	0	1.49	0.00	1.49
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	180	130	186	0	4.02	0.00	4.02
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-42	-34	0	49	0.00	1.05	-1.05
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1406**	**379**			**25.81**	**5.80**	**20.01**
Total IR Exch	**1567**	**-9**			**33.56**	**24.26**	**9.30**

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
23.24	0.78	24.03	-5.09	-1.99	-0.27	3.75	1.68	-1.68

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
20.35	-6.46	13.89	20.01	-10.71	9.30	-0.34	-4.25	-4.59

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	1.20	8.00	97.10	90.30	20.20	1.70

<---------- 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)
50.36	17.44	49.16	23.05	49.89	0.32	0.14	50.33	49.52

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	04:05	397	18:22	0.0	0.0	0.0	0.0
Gorakhpur	400	433	08:03	398	18:13	0.0	0.0	62.7	4.1
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	421	00:00	397	19:19	0.0	0.0	1.9	0.0
Dadri	400	426	00:00	405	19:07	0.0	0.0	22.5	0.0
Ballabhgarh	400	429	00:00	406	19:07	0.0	0.0	30.1	0.0
Bawana	400	428	02:55	406	18:13	0.0	0.0	29.3	0.0
Bassi	400	431	00:00	399	19:20	0.0	0.0	21.4	0.9
Hissar	400	419	02:53	397	18:14	0.0	0.0	0.0	0.0
Moga	400	427	02:36	408	19:20	0.0	0.0	26.2	0.0
Abdullapur	400	430	04:03	250	11:21	0.2	0.2	27.3	0.0
Nalagarh	400	431	22:06	402	08:51	0.0	0.0	37.5	0.1
Kishenpur	400	421	02:53	402	19:40	0.0	0.0	2.2	0.0
Wagoora	400	407	03:42	380	20:25	0.0	17.0	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	474.72	345.61	484.27	569.03	285.38	325.73
Pong	426.72	384.05	403.01	288.96	410.21	504.32	53.72	11.58
Tehri	829.79	740.04	763.05	145.78	818.65	982.26	80.51	203.00
Koteshwar	612.50	598.50	612.30	5.73	NA	NA	203.00	152.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	202.56	239.51
Rihand	268.22	252.98	259.05	252.90	255.03	77.40	NA	NA
RPS	352.80	343.81	347.65	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.16	NA	NA	NA	NA	NA
RSD	527.91	487.91	497.17	NA	505.49	NA	295.32	299.42

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 15.04.2012 :

1. Scattered rains in J&K, HP,Punjab.

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 : 15.04.2012 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**