पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.02.2012
Date of Reporting : 19.02.2012

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
31447	2634	34081	49.99	26610	650	27260	50.10	719.3	45.68

* 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	49.00	11.82		60.81	39.72	40.58	0.86	101.40	2.02
Haryana	56.26	0.57		56.83	23.92	41.18	17.26	98.01	5.95
Rajasthan	88.24	5.46	17.00	110.70	45.79	53.20	7.41	163.90	1.30
Delhi	29.35			29.35	36.92	28.93	-7.99	58.27	0.00
UP	91.56	6.06	14.40	112.02	86.02	93.92	7.90	205.94	32.16
Uttarakhand		9.87		9.87	17.90	18.88	0.98	28.75	1.94
HP		4.10		4.10	19.47	19.96	0.49	24.06	0.02
J & K		4.58	0.00	4.58	25.00	30.90	5.90	35.48	2.30
Chandigarh				0.00	3.52	3.53	0.01	3.53	0.00
Total	**314.41**	**42.45**	**31.40**	**388.26**	**298.26**	**331.08**	**32.82**	**719.34**	**45.68**

*** 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	4514	150	-33	-287	3747	0	385	-407	-6.66
Haryana	4401	589	773	-131	3545	0	587	-131	-3.15
Rajasthan	6558	0	428	12	6522	0	101	62	4.27
Delhi	3047	0	-24	-126	1402	0	-313	-413	-5.29
UP	8787	1595	-85	265	7990	650	336	265	6.36
Uttarakhand	1390	150	48	350	1046	0	96	350	8.40
HP	1051	0	-370	223	813	0	199	323	7.25
J&K	1513	150	74	261	1450	0	296	268	5.99
Chandigarh	186	0	-18	0	95	0	14	-41	-0.33
Total	**31447**	**2634**	**792**	**567**	**26610**	**650**	**1702**	**275**	**16.84**

* 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	1765	1885	1757	42.46	1769	42.00	0.46
	Rihand I STPS	1000	920	1000	796	21.68	903	21.42	0.26
	Rihand II STPS	1000	975	1038	809	23.00	958	22.66	0.34
	Dadri I STPS	840	798	498	441	11.58	482	11.65	-0.07
	Dadri II STPS	980	976	1010	732	21.70	904	21.83	-0.14
	Unchahar I TPS	440	406	440	369	9.47	394	9.43	0.04
	Unchahar II TPS	440	352	441	232	8.16	340	8.05	0.11
	Unchahar III TPS	210	202	219	168	4.64	193	4.60	0.03
	ISTPP (Jhajjhar)	1000	0	0	502	0.00	0	0.00	0.00
	Dadri GPS	830	696	574	394	12.19	508	12.49	-0.30
	Anta GPS	419	429	349	296	8.23	343	8.14	0.09
	Auraiya GPS	663	654	464	391	10.61	442	10.62	-0.01
	Sub Total (A)	**9822**	**8173**	**7918**	**6887**	**173.70**	**7238**	**172.88**	**0.82**
B. NPC	NAPS	440	139	161	160	3.33	139	3.34	-0.01
	RAPS- B	440	425	469	477	10.27	428	10.20	0.07
	RAPS- C	440	420	476	473	10.24	427	10.08	0.16
	Sub Total (B)	**1320**	**984**	**1106**	**1110**	**23.84**	**994**	**23.62**	**0.23**
C. NHPC	Chamera I HPS	540	534	540	0	4.01	167	4.01	0.01
	Chamera II HPS	300	297	265	0	1.42	59	1.44	-0.02
	Bairasuil HPS	180	120	120	0	1.21	50	1.26	-0.05
	Salal-HPS	690	146	301	30	3.37	140	3.37	0.00
	Tanakpur-HPS	94	26	29	19	0.53	22	0.53	0.00
	Uri-HPS	480	229	237	100	5.51	230	5.63	-0.12
	Dhauliganga-HPS	280	140	120	0	0.73	30	0.72	0.01
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	121	80	1.08	45	0.89	0.20
	Sub Total (C)	**3074**	**1610**	**1733**	**229**	**17.87**	**745**	**17.84**	0.02
D.NJPC	Nathpa Jhakri	1500	1133	1593	0	5.78	241	6.00	-0.22
	Sub Total (D)	1500	1133	1593	0	5.78	241	6.00	-0.22
E. THDC	Tehri HPS	1000	741	901	0	8.34	347	8.40	-0.06
	Koteshwar HPS	200	158	292	81	3.10	129	3.10	0.00
	Sub Total (E)	**1200**	**899**	**1193**	**81**	**11.44**	**477**	**11.50**	-0.06
F. BBMB	Bhakra HPS	1480	777	995	416	19.38	808	18.65	0.73
	Dehar HPS	990	126	495	0	3.42	143	3.03	0.40
	Pong HPS	396	197	300	60	4.85	202	4.72	0.13
	Sub Total (F)	**2866**	**1100**	**1790**	**476**	**27.65**	**1152**	**26.39**	1.26
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.24	10	0.23	0.01
	KWHEP HPS(IPP)	1000	0	552	0	3.37	140	3.36	0.00
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	140	146	3.42	143	3.47	-0.05
	Sub Total (G)	1442	0	692	146	7.03	293	7.06	-0.04
H. Total Regional Entities (A-G)		**21225**	**13899**	**16025**	**8929**	**267.31**	**11138**	**265.30**	**2.01**

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	1045	950	22.67	945
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.72	197
	Guru Hargobind Singh TPS(L.mbt)	920	972	969	21.60	900
	Thermal (Total)	2620	2235	2137	49.00	2042
	Total Hydro	1148	388	258	11.82	492
	Total Punjab	**3768**	**2623**	**2395**	**60.81**	**2534**
Haryana	Panipat TPS	1360	865	882	21.25	885
	DCRTPP (Yamuna nagar)	600	278	280	6.55	273
	Faridabad GPS (NTPC)	432	416	325	9.93	414
	RGTPP (khedar) (IPP)	1200	767	653	18.53	772
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2326	2140	56.26	2344
	Total Hydro	62	22	23	0.57	24
	Total Haryana	**4339**	**2348**	**2163**	**56.83**	**2368**
Rajasthan	kota TPS	1240	1171	1170	27.63	1151
	suratgarh TPS	1500	1380	1345	32.00	1333
	Chabra TPS	500	373	449	8.72	363
	Dholpur GPS	330	186	205	4.47	186
	Ramgarh GPS	113	44	45	1.10	46
	RAPS A (NPC)	300	182	185	4.52	188
	Barsingsar (NLC)	250	116	116	2.59	108
	Giral LTPS (IPP)	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	281	337	7.21	300
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3733	3852	88.24	3677
	Total Hydro	550	215	150	5.46	227
	Wind power	1294	210	823	10.34	431
	Biomass	71	50	50	1.21	50
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	260	873	17.00	708
	Total Rajasthan	**7073**	**4208**	**4875**	**110.70**	**4612**
UP	Anpara TPS	1630	1386	1362	33.00	1375
	Obra TPS	1442	605	588	14.40	600
	Paricha TPS	640	196	206	4.90	204
	Panki TPS	210	144	167	3.80	158
	Harduaganj TPS	415	264	222	5.70	238
	Tanda TPS (NTPC)	440	366	232	7.34	306
	Roza TPS (IPP)	900	549	437	11.88	495
	Anpara-C (IPP)	1200	396	325	8.58	357
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	73	81	1.97	82
	Thermal (Total)	7057	3979	3620	91.56	3815
	Vishnuparyag HPS (IPP)	400	74	64	1.65	69
	Other Hydro	527	278	0	4.40	184
	Cogeneration	951	600	600	14.40	600
	Total UP	**8935**	**4931**	**4284**	**112.02**	**4599**
Uttarakhand	Total Hydro	1303	516	325	9.87	411
	Total Uttarakhand	**1303**	**516**	**325**	**9.87**	**411**
Delhi	Rajghat TPS	135	104	104	2.46	103
	Delhi Gas Turbine	282	83	80	1.90	79
	Pragati Gas Turbine	330	308	265	7.25	302
	Rithala GPS	108	13	180	0.55	23
	Bawana GPS	440	148	42	4.19	175
	Badarpur TPS (NTPC)	705	585	540	12.99	541
	Thermal (Total)	2000	1241	1182	29.35	1223
	Total Delhi	**2000**	**1241**	**1182**	**29.35**	**1223**
HP	Baspa HPS (IPP)	330	0	0	1.00	42
	Malana HPS (IPP)	101	0	0	0.17	7
	Other Hydro	571	177	58	2.93	122
	Total HP	**1002**	**177**	**58**	**4**	**171**
J & K	Baglihar HPS (IPP)	450	110	120	2.82	118
	Other Hydro	323	82	124	1.76	73
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**192**	**244**	**4.58**	191
Total State Control Area Generation		**29376**	**16236**	**15526**	**388.26**	**16109**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**1463**	**3490**	**78.43**	**3268**
Total Regional Availability(Gross)		**50601**	**33724**	**27945**	**734.00**	**30514**

IV. Total Hydro Generation:

Regional Entities Hydro	**10083**	**7001**	**932**	**69.77**	**2907**
State Control Area Hydro	**5365**	**1788**	**1058**	**40.80**	**1700**
Total Regional Hydro	**15447**	**8789**	**1990**	**110.57**	**4607**

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	250	200	250	0	5.26	0.00	5.26
Gwalior-Agra (D/C)	354	1111	1332	0	21.89	0.00	21.89
Zerda-Kankroli	-65	-38	145	89	0.35	0.00	0.35
Zerda-Bhinmal	-5	142	310	52	2.64	0.00	2.64
Malanpur-Auraiya	-125	-11	0	133	0.00	1.19	-1.19
Badod-Kota/Morak	-5	28	39	27	0.48	0.00	0.48
Sub Total WR	**404**	**1432**			**30.63**	**1.19**	**29.44**
Pusauli Bypass	36	100	250	0	3.31	0.00	3.31
MZP- GKP (D/C)	238	540	748	0	12.48	0.00	12.48
Patna-Balia(D/C)	341	362	581	0	10.02	0.00	10.02
B'Sharif-Balia (D/C)	348	593	814	0	13.79	0.00	13.79
Barh - balia(D/C)	0	383	668	0	8.11	0.00	8.11
Pusauli-Sahupuri	126	112	168	0	1.95	0.00	1.95
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.66	-0.66
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1059**	**2058**			**49.65**	**0.66**	**48.99**
Total IR Exch	**1463**	**3490**			**80.28**	**1.85**	**78.43**

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
22.65	0.43	23.07	8.81	10.32	-0.38	10.63	2.84	-2.84

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
34.34	16.62	50.96	48.99	29.44	78.43	14.65	12.82	27.47

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	1.70	19.30	95.80	88.20	17.80	2.50

<---------- 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)
50.43	4.04	49.34	6.41	49.85	0.53	0.17	50.34	49.68

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	408	01:58	394	14:13	0.0	0.0	0.0	0.0
Gorakhpur	400	431	18:03	403	06:26	0.0	0.0	41.8	0.3
Bareilly	400	422	18:05	397	06:26	0.0	0.0	0.3	0.0
Kanpur	400	415	02:04	396	06:21	0.0	0.0	0.0	0.0
Dadri	400	422	04:02	400	10:08	0.0	0.0	3.1	0.0
Ballabhgarh	400	424	03:42	399	12:06	0.0	0.0	13.0	0.0
Bawana	400	427	04:04	401	10:08	0.0	0.0	21.6	0.0
Bassi	400	422	04:04	394	06:26	0.0	0.0	1.2	0.0
Hissar	400	415	04:04	390	12:46	0.0	0.0	0.0	0.0
Moga	400	421	21:03	413	22:19	0.0	0.0	2.0	0.0
Abdullapur	400	425	20:58	400	16:47	0.1	0.1	12.7	0.0
Nalagarh	400	427	04:02	400	10:07	0.0	0.0	25.9	0.0
Kishenpur	400	420	04:04	390	12:47	0.0	0.0	0.0	0.0
Wagoora	400	402	04:04	374	13:47	12.7	71.9	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	490.87	758.57	495.77	937.45	145.94	585.62
Pong	426.72	384.05	409.35	474.29	412.89	600.05	51.00	309.95
Tehri	829.79	740.04	789.40	439.29	818.65	982.26	50.60	216.00
Koteshwar	612.50	598.50	607.40	3.32	NA	NA	216.00	206.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	88.85	109.96
Rihand	268.22	252.98	261.95	415.40	256.15	122.50	NA	NA
RPS	352.80	343.81	348.65	NA	NA	NA	NA	264.22
Jawahar Sagar	298.70	295.78	298.03	NA	NA	NA	NA	243.16
RSD	527.91	487.91	499.90	NA	504.01	NA	140.45	190.35

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.02.2012 :

1. Normal weather in NR.

XII. Synchronisation of new generating units :

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

1. 765/400 KV ICT-2(1500MVA) HAS BEEN CHARGED(FIRST TIME) AT 1735 HRS SUCCESSFULLY AT LUCKNOW S/S

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 18.02.2012 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**