पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.11.2012
Date of Reporting : 17.11.2012

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
31705	2225	33930	50.30	26073	866	26939	50.23	694.4	40.97

* 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	43.93	8.84		52.77	34.76	34.88	0.12	87.65	1.80
Haryana	46.36	0.68		47.03	45.85	46.87	1.02	93.90	1.86
Rajasthan	91.09	4.51	5.70	101.30	60.18	61.30	1.13	162.60	0.42
Delhi	27.78			27.78	31.19	28.33	-2.87	56.10	0.04
UP	115.59	5.99	1.68	123.26	83.25	80.36	-2.89	203.62	34.04
Uttarakhand		9.01		9.01	17.46	18.90	1.43	27.91	1.11
HP		6.78		6.78	14.83	16.32	1.50	23.10	0.00
J & K		9.58	0.00	9.58	26.58	26.51	-0.07	36.10	1.70
Chandigarh				0.00	3.31	3.44	0.13	3.44	0.00
Total	**324.74**	**45.40**	**7.38**	**377.51**	**317.41**	**316.92**	**-0.49**	**694.43**	**40.97**

*** 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 transactio	STOA/PX transactio
Punjab	4449	600	-252	-47	3012	0	111	-213	-2.27
Haryana	4468	575	16	114	3137	0	-86	54	1.93
Rajasthan	6770	0	-130	306	6487	116	82	710	16.79
Delhi	3017	0	-64	-1148	1502	0	-150	-2052	-36.41
UP	8587	950	-266	-32	8757	750	-81	634	3.66
Uttarakhand	1540	0	80	397	970	0	-52	359	8.43
HP	1190	0	83	4	720	0	72	145	2.80
J&K	1490	100	-435	533	1397	0	73	389	8.53
Chandigarh	194	0	-5	0	91	0	6	-31	-0.34
Total	**31705**	**2225**	**-973**	**129**	**26073**	**866**	**-25**	**-4**	**3.13**

* 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	1871	2076	1735	44.70	1863	44.89	-0.19
	Rihand I STPS	1000	460	505	505	10.91	455	11.04	-0.13
	Rihand II STPS	1000	975	1033	1004	23.32	972	23.40	-0.08
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	810	853	850	18.94	789	19.42	-0.48
	Dadri II STPS	980	975	989	1005	22.70	946	23.34	-0.64
	Unchahar I TPS	420	402	437	351	8.76	365	9.21	-0.45
	Unchahar II TPS	420	405	439	339	8.72	364	8.93	-0.20
	Unchahar III TPS	210	202	219	174	4.48	187	4.58	-0.10
	ISTPP (Jhajjhar)	1500	470	425	300	9.02	376	9.22	-0.19
	Dadri GPS	830	834	518	560	13.53	564	13.72	-0.19
	Anta GPS	419	410	198	244	5.79	241	5.84	-0.05
	Auraiya GPS	663	668	315	325	7.45	311	8.40	-0.95
	Sub Total (A)	**10782**	**8482**	**8007**	**7392**	**178.32**	**7430**	**181.98**	**-3.66**
B. NPC	NAPS	440	280	313	316	6.70	279	6.72	-0.02
	RAPS- B	440	418	460	464	9.98	416	10.03	-0.05
	RAPS- C	440	460	456	474	10.13	422	11.04	-0.91
	Sub Total (B)	**1320**	**1158**	**1229**	**1254**	**26.80**	**1117**	**27.79**	**-0.99**
C. NHPC	Chamera I HPS	540	545	540	0	2.20	92	2.20	0.00
	Chamera II HPS	300	303	278	0	1.75	73	1.81	-0.06
	Chamera III HPS	231	231	202	0	1.05	44	1.11	-0.06
	Bairasuil HPS	180	182	20	0	0.64	27	0.72	-0.08
	Salal-HPS	690	147	133	146	3.17	132	3.21	-0.04
	Tanakpur-HPS	94	46	45	48	1.10	46	1.11	-0.01
	Uri-HPS	480	128	161	51	2.65	110	2.93	-0.28
	Dhauliganga-HPS	280	288	282	0	1.40	58	1.41	-0.01
	Dulhasti-HPS	390	388	79	0	0.21	9	3.85	-3.64
	Sewa-II HPS	120	120	356	0	3.59	149	0.21	3.38
	Sub Total (C)	**3305**	**2376**	**2096**	**245**	**17.76**	**740**	**18.55**	-0.79
D.NJPC	Nathpa Jhakri	1500	1605	1019	0	8.43	351	8.50	-0.07
	Sub Total (D)	1500	1605	1019	0	8.43	351	8.50	-0.07
E. THDC	Tehri HPS	1000	1050	1001	0	5.14	214	5.00	0.14
	Koteshwar HPS	400	310	307	0	1.36	57	1.35	0.01
	Sub Total (E)	**1400**	**1360**	**1308**	**0**	**6.49**	**271**	**6.35**	0.14
F. BBMB	Bhakra HPS	1480	655	1099	412	16.04	668	15.73	0.31
	Dehar HPS	990	169	495	0	4.31	180	4.06	0.25
	Pong HPS	396	337	366	306	8.29	345	5.01	3.28
	Sub Total (F)	**2866**	**1161**	**1960**	**718**	**28.64**	**1193**	**24.80**	3.84
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.64	26	0.65	-0.01
	KWHEP HPS(IPP)	1000	0	250	0	4.76	198	4.85	-0.09
	Malana Stg-II HPS	100	0	32	13	0.28	11	0.28	-0.01
	Shree Cement TPS	300	0	275	262	5.85	244	5.90	-0.06
	Budhil HPS(IPP)	70	0	9	0	0.22	9	0.42	-0.20
	Sub Total (G)	1662	0	566	275	11.74	489	12.10	-0.36
H. Total Regional Entities (A-G)		**22836**	**16143**	**16185**	**9884**	**278.19**	**11591**	**280.07**	**-1.88**

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	1160	1080	26.42	1101
	Guru Nanak Dev TPS(Bhatinda)	440	95	217	2.96	123
	Guru Hargobind Singh TPS(L.mbt)	920	750	649	14.55	606
	Thermal (Total)	2620	2005	1946	43.93	1830
	Total Hydro	1148	458	271	8.84	368
	Total Punjab	**3768**	**2463**	**2217**	**52.77**	**2199**
Haryana	Panipat TPS	1367	943	904	22.07	920
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	104	104	2.45	102
	RGTPP (khedar) (IPP)	1200	536	436	12.46	519
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	374	372	9.38	391
	Thermal (Total)	4944	1957	1816	46.36	1932
	Total Hydro	62	26	28	0.68	28
	Total Haryana	**5006**	**1983**	**1844**	**47.03**	**1960**
Rajasthan	kota TPS	1240	1163	1162	27.88	1162
	suratgarh TPS	1500	1232	1244	29.95	1248
	Chabra TPS	500	438	384	9.85	410
	Dholpur GPS	330	133	137	3.16	132
	Ramgarh GPS	111	72	73	1.91	79
	RAPS A (NPC)	300	172	172	4.25	177
	Barsingsar (NLC)	250	103	106	2.40	100
	Giral LTPS	250	64	63	1.39	58
	Rajwest LTPS (IPP)	540	486	365	10.31	429
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3863	3706	91.09	3795
	Total Hydro	550	184	230	4.51	188
	Wind power	2191	44	19	0.60	25
	Biomass	91	19	19	0.45	19
	Solar	201	4	0	0.14	6
	Renewable/Others (Total)	2483	63	38	5.70	238
	Total Rajasthan	**8189**	**4110**	**3974**	**101.30**	**4221**
UP	Anpara TPS	1630	1210	1243	29.00	1208
	Obra TPS	1382	354	500	10.80	450
	Paricha TPS	890	362	345	8.80	367
	Panki TPS	210	133	144	3.30	138
	Harduaganj TPS	665	160	175	4.10	171
	Tanda TPS (NTPC)	440	291	400	8.55	356
	Roza TPS (IPP)	1200	959	1062	25.27	1053
	Anpara-C (IPP)	1200	882	844	21.02	876
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	200	203	4.75	198
	Thermal (Total)	8067	4551	4916	115.59	4816
	Vishnuparyag HPS (IPP)	400	123	114	2.47	103
	Other Hydro	527	131	147	3.53	147
	Cogeneration	981	70	70	1.68	70
	Total UP	**9975**	**4875**	**5247**	**123.26**	**5033**
Uttarakhand	Total Hydro	1303	439	366	9.01	376
	Total Uttarakhand	**1303**	**439**	**366**	**9.01**	**376**
Delhi	Rajghat TPS	135	99	75	2.08	87
	Delhi Gas Turbine	282	114	84	2.08	87
	Pragati Gas Turbine	330	306	266	7.33	305
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	221	219	6.20	258
	Badarpur TPS (NTPC)	705	490	420	10.10	421
	Thermal (Total)	2237	1230	1064	27.78	1157
	Total Delhi	**2237**	**1230**	**1064**	**27.78**	**1157**
HP	Baspa HPS (IPP)	330	0	53	1.51	63
	Malana HPS (IPP)	86	15	17	0.35	15
	Other Hydro	589	212	171	4.91	205
	Total HP	**1005**	**227**	**241**	**7**	**282**
J & K	Baglihar HPS (IPP)	450	254	288	6.40	267
	Other Hydro	323	120	175	3.18	133
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**374**	**463**	**9.58**	399
Total State Control Area Generation		**32439**	**15701**	**15416**	**377.51**	**15627**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**753**	**1368**	**51.57**	**2149**
Total Regional Availability(Gross)		**55275**	**32639**	**26668**	**707.27**	**29367**

IV. Total Hydro Generation:

Regional Entities Hydro	**10364**	**6665**	**976**	**67.00**	**2791**
State Control Area Hydro	**5368**	**1839**	**1746**	**45.40**	**1789**
Total Regional Hydro	**15731**	**8504**	**2722**	**112.39**	**4580**

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	-400	0	400	0.00	5.77	-5.77
Gwalior-Agra (D/C)	250	356	552	0	7.68	0.00	7.68
Zerda-Kankroli	-60	-118	0	178	0.00	2.17	-2.17
Zerda-Bhinmal	-10	88	131	158	0.24	0.00	0.24
Malanpur-Auraiya	-143	-131	0	179	0.00	3.00	-3.00
Badod-Kota/Morak	-116	-107	0	148	0.00	2.50	-2.50
Mundra-Mohindergarh(HVDC)	250	250	250	0	20.41	0.00	20.41
Sub Total WR	**-79**	**-62**			**28.33**	**13.44**	**14.89**
Pusauli Bypass	250	250	250	0	6.43	0.00	6.43
MZP- GKP (D/C)	184	350	476	0	7.97	0.00	7.97
Patna-Balia(D/C)	402	294	619	0	10.53	0.00	10.53
B'Sharif-Balia (D/C)	70	214	314	0	5.23	0.00	5.23
Barh - Balia(D/C)	0	292	306	0	2.95	0.00	2.95
Pusauli-Balia	-234	-170	0	274	0.00	1.92	-1.92
Gaya-Fatehpur (765 Kv)	51	102	213	0	3.10	0.00	3.10
Pusauli-Sahupuri	149	132	156	0	3.34	0.00	3.34
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**832**	**1430**			**39.55**	**2.87**	**36.68**
Total IR Exch	**753**	**1368**			**67.88**	**16.31**	**51.57**

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
34.68	0.67	35.35	3.57	-14.24	-3.09	6.54	1.08	-1.00

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
36.92	15.18	52.10	36.68	14.89	51.57	-0.24	-0.29	-0.53

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	0.00	0.10	81.20	81.10	71.80	18.80

<---------- 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)
50.48	14.11	49.70	17.41	50.08	0.25	0.13	50.45	49.97

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	417	1:28	415	11:44	4.0	4.0	0.0	0.0
Gorakhpur	400	431	8:10	416	11:37	0.0	0.0	91.6	3.8
Bareilly	400	419	2:00	406	6:24	0.0	0.0	0.0	0.0
Kanpur	400	424	1:58	405	11:30	0.0	0.0	7.8	0.0
Dadri	400	426	1:27	409	11:11	0.0	0.0	36.1	0.0
Ballabhgarh	400	434	1:58	412	11:09	0.0	0.0	58.4	5.7
Bawana	400	429	1:57	411	11:27	0.0	0.0	41.9	0.0
Bassi	400	432	20:34	404	8:51	0.0	0.0	59.9	1.7
Hissar	400	420	0:55	404	10:38	0.0	0.0	0.0	0.0
Moga	400	427	0:38	406	9:06	0.0	0.0	19.9	0.0
Abdullapur	400	428	0:37	412	11:09	0.0	0.0	40.5	0.0
Nalagarh	400	432	0:14	415	11:09	0.0	0.0	60.1	2.7
Kishenpur	400	424	0:36	395	18:31	0.0	0.0	3.1	0.0
Wagoora	400	413	0:55	372	18:31	8.4	37.8	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	502.66	1209.87	508.90	1500.16	222.83	435.40
Pong	426.72	384.05	417.81	794.52	419.10	848.35	60.77	507.35
Tehri	829.79	740.04	823.35	1065.84	818.65	982.26	69.98	110.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	61.93	50.50
Rihand	268.22	252.98	262.95	500.10	264.81	617.70	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	520.96	NA	519.58	NA	62.47	41.23

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 16.11.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

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 : 16.11.2012 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**