पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.11.2011
Date of Reporting : 12.11.2011

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
28898	3119	32017	49.93	24941	1310	26251	49.89	652.8	57.03

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Energy 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	49.16	11.29		60.46	24.24	22.64	-1.60	83.09	2.90
Haryana	60.38	0.84		61.22	25.63	27.89	2.26	89.11	4.93
Rajasthan	85.78	5.25	4.02	95.04	44.78	52.17	7.39	147.21	17.10
Delhi	27.69			27.69	40.46	35.08	-5.39	62.77	0.04
UP	86.59	8.29	1.20	96.09	88.47	91.69	3.22	187.77	30.56
Uttarakhand		10.14		10.14	16.52	17.31	0.80	27.46	0.00
HP		7.24		7.24	14.89	14.64	-0.26	21.88	0.00
J & K		6.27	0.00	6.27	20.86	23.68	2.82	29.95	1.50
Chandigarh				0.00	3.49	3.52	0.03	3.52	0.00
Total	**309.61**	**49.32**	**5.22**	**364.15**	**279.34**	**288.60**	**9.27**	**652.75**	**57.03**

*** Shortage furnished by the respective constituent.**

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 transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	4109	150	-219	-564	2977	0	-66	-590	-11.97
Haryana	4036	924	-10	-87	3055	0	-213	-104	-2.49
Rajasthan	6318	680	417	95	6502	269	777	220	6.74
Delhi	3045	0	-108	-275	1628	6	-476	-482	-8.11
UP	7226	1365	-1178	391	8029	1035	547	391	9.39
Uttarakhand	1430	0	45	316	960	0	45	316	7.58
HP	1040	0	-222	-305	727	0	72	-47	-3.53
J&K	1502	0	-3	54	968	0	-8	133	2.36
Chandigarh	192	0	-23	0	95	0	5	-30	-0.24
Total	**28898**	**3119**	**-1301**	**-375**	**24941**	**1310**	**683**	**-192**	**-0.27**

* 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	1862	1832	2052	45.04	1877	44.69	0.35
	Rihand I STPS	1000	770	1000	823	18.66	777	18.48	0.18
	Rihand II STPS	1000	970	1033	1032	23.51	980	23.28	0.23
	Dadri I STPS	840	769	835	661	18.15	756	17.93	0.23
	Dadri II STPS	980	922	995	984	22.31	929	22.13	0.18
	Unchahar I TPS	440	323	440	345	7.83	326	7.76	0.08
	Unchahar II TPS	440	328	440	345	7.93	331	7.87	0.07
	Unchahar III TPS	210	162	221	170	3.82	159	3.88	-0.06
	ISTPP (Jhajjhar)	500	341	366	375	8.02	334	8.20	-0.18
	Dadri GPS	830	613	560	539	12.99	541	12.96	0.03
	Anta GPS	419	399	319	305	7.94	331	7.63	0.31
	Auraiya GPS	663	630	452	466	10.96	457	11.17	-0.21
	Sub Total (A)	**9322**	**8089**	**8493**	**8097**	**187.16**	**7799**	**185.96**	**1.20**
B. NPC	NAPS	440	199	228	232	4.74	197	4.78	-0.04
	RAPS- B	440	410	446	453	9.71	405	9.84	-0.13
	RAPS- C	440	420	474	476	10.19	425	10.08	0.11
	Sub Total (B)	**1320**	**1029**	**1148**	**1161**	**24.64**	**1027**	**24.70**	**-0.06**
C. NHPC	Chamera I HPS	540	534	360	0	2.04	85	2.07	-0.03
	Chamera II HPS	300	297	197	0	1.72	72	1.65	0.07
	Bairasuil HPS	180	179	30	0	0.68	28	0.66	0.02
	Salal-HPS	690	149	230	207	3.77	157	3.59	0.18
	Tanakpur-HPS	94	53	55	48	1.25	52	1.18	0.07
	Uri-HPS	480	157	226	120	4.19	174	3.98	0.20
	Dhauliganga-HPS	280	277	273	0	1.73	72	1.65	0.07
	Dulhasti-HPS	390	388	124	0	4.86	203	4.58	0.29
	Sewa-II HPS	120	119	58	0	0.47	19	0.48	-0.01
	Sub Total (C)	**3074**	**2151**	**1553**	**375**	**20.69**	**862**	**19.83**	0.86
D.NJPC	Nathpa Jhakri	1500	1600	1591	0	11.50	479	11.00	0.50
	Sub Total (D)	1500	1600	1591	0	11.50	479	11.00	0.50
E. THDC	Tehri HPS	1000	693	1037	0	3.60	150	3.50	0.10
	Koteshwar HPS	100	53	0	88	1.28	53	1.25	0.03
	Sub Total (E)	**1100**	**746**	**1037**	**88**	**4.88**	**203**	**4.75**	0.13
F. BBMB	Bhakra HPS	1480	611	967	416	15.02	626	14.67	0.35
	Dehar HPS	990	188	495	0	4.68	195	4.51	0.17
	Pong HPS	396	231	300	186	5.79	241	5.55	0.24
	Sub Total (F)	**2866**	**1030**	**1762**	**602**	**25.49**	**1062**	**24.73**	0.77
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.54	22	0.56	-0.02
	KWHEP HPS(IPP)	1000	0	270	174	6.42	268	6.37	0.05
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	130	114	2.70	113	2.59	0.11
	Sub Total (G)	1442	0	400	287.7	9.66	403	9.52	0.15
H. Total Regional Entities (A-G)		**20625**	**14647**	**15984**	**10611**	**284.03**	**11834**	**280.49**	**3.54**

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	1050.00	1045.00	23.10	962
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	215.00	4.62	192
	Guru Hargobind Singh TPS(L.mbt)	920	963.00	964.00	21.45	894
	Thermal (Total)	2620	2228.00	2224.00	49.16	2048
	Total Hydro	1148	590.00	267.00	11.29	471
	Total Punjab	**3768**	**2818**	**2491**	**60.46**	**2519**
Haryana	Panipat TPS	1360	1054.00	975.00	24.87	1036
	DCRTPP (Yamuna nagar)	600	269.00	274.00	6.62	276
	Faridabad GPS (NTPC)	432	410.00	417.00	9.70	404
	RGTPP (khedar) (IPP)	1200	864.00	715.00	19.20	800
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2597.00	2381.00	60.38	2516
	Total Hydro	62	39.00	35.00	0.84	35
	Total Haryana	**3679**	**2636**	**2416**	**61.22**	**2551**
Rajasthan	kota TPS	1240	1182.00	1172.00	27.57	1149
	suratgarh TPS	1500	1148.00	1117.00	26.70	1112
	Chabra TPS	500	391.00	405.00	10.23	426
	Dholpur GPS	330	280.00	280.00	6.90	287
	Ramgarh GPS	113	65.00	65.00	1.47	61
	RAPS A (NPC)	300	172.00	175.00	4.36	182
	Barsingsar (NLC)	250	49.00	96.00	1.61	67
	Giral LTPS (IPP)	250	65.00	50.00	1.36	57
	Rajwest LTPS (IPP)	135	240.00	70.00	5.58	233
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3592.00	3430.00	85.78	3574
	Total Hydro	550	208.00	156.00	5.25	219
	Wind power	1294	41.00	363.00	2.99	125
	Biomass	71	47.00	47.00	1.03	43
	Renewable/Others (Total)	1365	88	410	4.02	168
	Total Rajasthan	**6668**	**3888**	**3996**	**95.04**	**3960**
UP	Anpara TPS	1630	1514	1389	32.00	1333
	Obra TPS	1442	505	541	10.90	454
	Paricha TPS	640	372	391	8.10	338
	Panki TPS	210	162	135	3.50	146
	Harduaganj TPS	375	171	0	1.10	46
	Tanda TPS (NTPC)	440	398	403	10.90	454
	Roza TPS (IPP)	600	567	567	13.50	563
	Anpara-C (IPP)	600	198	270	5.32	222
	Thermal (Total)	5937	3959	3764	86.59	3608
	Vishnuparyag HPS (IPP)	400	159	149	3.64	152
	Other Hydro	527	161	0	4.66	194
	Cogeneration	951	50	50	1.20	50
	Total UP	**7815**	**4329**	**3963**	**96.09**	**3852**
Uttarakhand	Total Hydro	1303	509	280	10.14	423
	Total Uttarakhand	**1303**	**509**	**280**	**10.14**	**423**
Delhi	Rajghat TPS	135	96	108	2.15	90
	Delhi Gas Turbine	282	150	154	3.92	163
	Pragati Gas Turbine	330	299	307	7.47	311
	Rithala GPS	108	21	29	0.55	23
	Bawana GPS	440	150	35	3.26	136
	Badarpur TPS (NTPC)	705	475	440	10.35	431
	Thermal (Total)	2000	1191	1138	27.69	1154
	Total Delhi	**2000**	**1191**	**1138**	**27.69**	**1154**
HP	Baspa HPS (IPP)	330	57	57	1.88	79
	Malana HPS (IPP)	101	2	0	0.40	17
	Other Hydro	571	247	180	4.96	207
	Total HP	**1002**	**306**	**237**	**7**	**302**
J & K	Baglihar HPS (IPP)	450	293	146	4.54	189
	Other Hydro	323	54	100	1.73	72
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**347**	**246**	**6.27**	261
Total State Control Area Generation		**27191**	**16024**	**14767**	**364.15**	**15021**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**-52**	**742**	**16.98**	**708**
Total Regional Availability(Gross)		**47816**	**31956**	**26120**	**665.16**	**27564**

IV. Total Hydro Generation:

Regional Entities Hydro	**9983**	**6343**	**1353**	**72.22**	**3009**
State Control Area Hydro	**5365**	**2160**	**1221**	**45.68**	**1903**
Total Regional Hydro	**15347**	**8503**	**2574**	**117.91**	**4913**

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	-100	-400	0	400	0.00	5.96	-5.96
Gwalior-Agra (D/C)	0	201	919	372	3.49	0.00	3.49
Zerda-Kankroli	-246	-252	0	313	0.00	5.36	-5.36
Zerda-Bhinmal	-128	-120	129	185	0.00	2.25	-2.25
Malanpur-Auraiya	-182	-259	0	270	0.00	4.33	-4.33
Badod-Kota/Morak	-164	-198	0	230	0.00	3.78	-3.78
Sub Total WR	**-820**	**-1028**			**3.49**	**21.67**	**-18.19**
Pusauli Bypass	53	264	374	79	4.41	0.12	4.28
MZP- GKP (D/C)	251	596	680	0	11.36	0.00	11.36
Patna-Balia(D/C)	244	476	567	0	9.94	0.00	9.94
B'Sharif-Balia (D/C)	152	380	440	0	7.41	0.00	7.41
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	104	96	141	0	2.57	0.00	2.57
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-42	0	48	0.00	0.40	-0.40
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**768**	**1770**			**35.69**	**0.53**	**35.17**
Total IR Exch	**-52**	**742**			**39.18**	**22.20**	**16.98**

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
19.82	1.07	20.88	3.65	-2.39	-1.66	-2.48	0.00	0.00

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
22.87	-9.24	13.64	35.17	-18.19	16.98	12.29	-8.95	3.34

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	16.20	60.40	83.80	39.60	1.90	0.00

<---------- 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)
50.17	18.02	49.18	14.19	49.66	1.40	0.16	50.09	0.00

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	409	04:43	405	00:12	0.0	0.0	0.0	0.0
Gorakhpur	400	428	20:53	414	00:25	0.0	0.0	67.3	0.0
Bareilly	400	422	20:54	402	10:33	0.0	0.0	1.7	0.0
Kanpur	400	420	03:03	403	10:33	0.0	0.0	0.0	0.0
Dadri	400	420	03:03	400	10:31	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	03:03	401	10:29	0.0	0.0	5.6	0.0
Bawana	400	422	03:03	402	09:33	0.0	0.0	4.0	0.0
Bassi	400	427	03:03	396	18:54	0.0	0.0	6.1	0.0
Hissar	400	415	02:58	396	10:33	0.0	0.0	0.0	0.0
Moga	400	423	03:03	404	09:32	0.0	0.0	4.0	0.0
Abdullapur	400	424	02:58	402	11:12	0.0	0.0	7.2	0.0
Nalagarh	400	428	22:37	408	11:12	0.0	0.0	37.7	0.0
Kishenpur	400	415	04:22	394	10:33	0.0	0.0	0.0	0.0
Wagoora	400	401	03:03	367	19:10	45.7	76.1	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	509.22	1515.08	510.98	1590.18	250.01	382.28
Pong	426.72	384.05	419.57	875.55	422.04	990.81	51.23	332.26
Tehri	829.79	740.04	817.20	942.25	NA	NA	83.11	81.00
Koteshwar	612.50	598.50	601.80	1.15	NA	NA	91.00	132.00
Chamera-I	760.00	748.75	754.60	NA	NA	NA	70.22	56.12
Rihand	268.22	252.98	264.93	609.00	257.80	192.40	NA	NA
RPS	352.80	343.81	353.49	NA	NA	NA	NA	89.33
Jawahar Sagar	298.70	295.78	297.76	NA	NA	NA	NA	88.43
RSD	527.91	487.91	520.17	NA	520.54	NA	100.47	182.87

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 11.11.2011 :

Normal weather

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 : 11.11.2011 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**