पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.10.2013
Date of Reporting : 31.10.2013

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
33011	2175	35186	50.12	27213	755	27968	50.09	718.0	36.74

* 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	27.31	9.90		37.21	57.68	59.23	1.56	96.44	0.00
Haryana	48.45	0.71		49.16	54.07	52.76	-1.31	101.92	0.02
Rajasthan	70.61	3.28	9.21	83.09	78.70	77.33	-1.37	160.42	0.77
Delhi	20.11			20.11	45.24	43.27	-1.98	63.37	0.00
UP	129.05	2.98	1.20	133.23	74.77	71.67	-3.09	204.90	32.62
Uttarakhand		10.08		10.08	17.65	19.16	1.52	29.24	1.41
HP		8.75		8.75	11.77	14.99	3.22	23.74	0.23
J & K		8.61	0.00	8.61	22.50	25.96	3.46	34.56	1.70
Chandigarh				0.00	3.48	3.43	-0.05	3.43	0.00
Total	**295.52**	**44.29**	**10.41**	**350.22**	**365.85**	**367.80**	**1.95**	**718.02**	**36.74**

*** 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 transactior	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	4388	0	-50	153	3370	0	5	238	7.34
Haryana	4824	0	-174	-425	3696	0	-155	-436	-10.14
Rajasthan	7255	0	29	1505	6267	0	-124	1354	36.17
Delhi	3315	0	-126	-804	1653	5	-67	-1319	-21.62
UP	8766	2000	-434	-143	9088	750	-118	344	-1.25
Uttarakhand	1456	75	-11	336	1023	0	-5	350	8.09
HP	1134	0	41	-368	780	0	132	61	-0.26
J&K	1694	100	58	253	1248	0	212	161	3.99
Chandigarh	180	0	-2	-46	89	0	-11	-20	-0.36
Total	**33011**	**2175**	**-668**	**461**	**27213**	**755**	**-130**	**732**	**21.97**

* 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	1940	2083	2082	47.35	1973	46.52	0.83
	Rihand I STPS	1000	682	1013	663	16.33	680	15.92	0.40
	Rihand II STPS	1000	701	1037	611	16.39	683	16.22	0.16
	Rihand III STPS	1000	350	519	312	8.16	340	8.07	0.09
	Dadri I STPS	840	811	862	621	17.84	743	17.94	-0.10
	Dadri II STPS	980	980	1012	724	21.33	889	21.40	-0.08
	Unchahar I TPS	420	201	217	208	4.72	197	4.72	0.00
	Unchahar II TPS	420	404	433	372	9.27	386	9.29	-0.03
	Unchahar III TPS	210	201	218	182	4.60	192	4.61	0.00
	ISTPP (Jhajjhar)	1500	1480	987	636	17.26	719	17.28	-0.02
	Dadri GPS	830	810	583	430	12.61	526	12.95	-0.33
	Anta GPS	419	407	406	289	8.78	366	8.91	-0.13
	Auraiya GPS	663	644	155	160	3.66	153	3.69	-0.03
	Sub Total (A)	**11282**	**9609**	**9525**	**7290**	**188.29**	**7846**	**187.53**	**0.76**
B. NPC	NAPS	440	305	344	348	7.34	306	7.32	0.02
	RAPS- B	440	411	455	458	9.88	412	9.86	0.02
	RAPS- C	440	425	475	478	10.12	422	10.20	-0.08
	Sub Total (B)	**1320**	**1141**	**1274**	**1284**	**27.35**	**1139**	**27.38**	**-0.04**
C. NHPC	Chamera I HPS	540	540	360	0	1.67	70	1.60	0.07
	Chamera II HPS	300	300	199	0	2.04	85	1.88	0.15
	Chamera III HPS	231	231	65	0	1.27	53	1.21	0.06
	Bairasuil HPS	180	182	60	0	0.71	30	0.78	-0.08
	Salal-HPS	690	164	115	150	3.72	155	3.79	-0.07
	Tanakpur-HPS	94	56	67	59	1.39	58	1.34	0.05
	Uri-HPS	480	121	232	101	3.01	126	2.92	0.09
	Uri-II HPS	120	70	103	61	1.76	73	1.69	0.07
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	404	30	4.81	200	4.72	0.09
	Sewa-II HPS	120	119	32	0	0.41	17	0.38	0.03
	Sub Total (C)	**3425**	**2170**	**1637**	**401**	**20.78**	**866**	**20.31**	**0.48**
D.NJPC	Nathpa Jhakri	1500	1605	1262	248	12.23	510	11.97	0.26
	Sub Total (D)	1500	1605	1262	248	12.23	510	11.97	0.26
E. THDC	Tehri HPS	1000	1060	1036	0	6.45	269	6.30	0.15
	Koteshwar HPS	400	92	100	90	2.22	93	2.20	0.02
	Sub Total (E)	**1400**	**1152**	**1136**	**90**	**8.67**	**361**	**8.50**	**0.17**
F. BBMB	Bhakra HPS	1497	497	1034	372	12.45	519	11.92	0.53
	Dehar HPS	990	208	470	140	5.21	217	4.99	0.22
	Pong HPS	396	282	312	192	6.98	291	6.76	0.21
	Sub Total (F)	**2883**	**986**	**1816**	**704**	**24.64**	**1027**	**23.68**	**0.96**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	74	26	0.77	32	0.75	0.02
	KWHEP HPS(IPP)	1000	0	702	150	6.46	269	6.33	0.13
	Malana Stg-II HPS	100	0	50	0	0.35	15	0.37	-0.02
	Shree Cement TPS	300	0	266	156	5.82	242	5.48	0.34
	Budhil HPS(IPP)	70	0	10	5	0.21	9	0.23	-0.02
	Sub Total (G)	1662	0	1102	337	13.60	567	13.16	0.45
H. Total Regional Entities (A-G)		**23472**	**16663**	**17752**	**10354**	**295.56**	**12315**	**292.53**	**3.03**

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	600	600	15.68	653
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.92	80
	Guru Hargobind Singh TPS(L.mbt)	920	428	349	9.70	404
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1108	1029	27.31	1138
	Total Hydro	1148	311	427	9.90	412
	Total Punjab	**3768**	**1419**	**1456**	**37.21**	**1550**
Haryana	Panipat TPS	1367	512	497	12.49	520
	DCRTPP (Yamuna nagar)	600	277	241	6.22	259
	Faridabad GPS (NTPC)	432	191	185	4.44	185
	RGTPP (khedar) (IPP)	1200	563	419	12.06	502
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	557	557	13.24	552
	Thermal (Total)	4944	2100	1899	48.45	2019
	Total Hydro	62	29	29	0.71	30
	Total Haryana	**5006**	**2129**	**1928**	**49.16**	**2048**
Rajasthan	kota TPS	1240	949	1081	23.48	978
	suratgarh TPS	1500	1105	956	24.62	1026
	Chabra TPS	500	450	397	10.28	428
	Dholpur GPS	330	105	102	2.53	105
	Ramgarh GPS	111	138	132	3.17	132
	RAPS A (NPC)	300	179	179	3.92	163
	Barsingsar (NLC)	250	112	110	2.62	109
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	0	0	0.00	0
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	660	0	0	0.00	0
	Thermal (Total)	6956	3038	2957	70.61	2942
	Total Hydro	550	175	71	3.28	137
	Wind power	2191	194	640	7.70	321
	Biomass	91	35	35	0.83	35
	Solar	201	0	0	0.68	28
	Renewable/Others (Total)	2483	229	675	9.21	384
	Total Rajasthan	**9989**	**3442**	**3703**	**83.09**	**3462**
UP	Anpara TPS	1630	1384	1373	32.30	1346
	Obra TPS	1288	346	349	8.50	354
	Paricha TPS	1140	662	738	15.80	658
	Panki TPS	210	72	63	1.70	71
	Harduaganj TPS	665	243	231	4.80	200
	Tanda TPS (NTPC)	440	400	398	9.69	404
	Roza TPS (IPP)	1200	882	1080	24.80	1033
	Anpara-C (IPP)	1200	846	1075	24.74	1031
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	228	363	6.72	280
	Thermal (Total)	8223	5063	5670	129.05	5377
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	103	165	2.98	124
	Cogeneration	981	50	50	1.20	50
	Total UP	**10131**	**5216**	**5885**	**133.23**	**5551**
Uttarakhand	Total Hydro	1303	541	371	10.08	420
	Total Uttarakhand	**1303**	**541**	**371**	**10.08**	**420**
Delhi	Rajghat TPS	135	55	102	2.03	85
	Delhi Gas Turbine	282	77	80	1.90	79
	Pragati Gas Turbine	330	265	263	6.52	272
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	480	410	9.65	402
	Thermal (Total)	2232	877	855	20.11	838
	Total Delhi	**2232**	**877**	**855**	**20.11**	**838**
HP	Baspa HPS (IPP)	330	83	31	2.11	88
	Malana HPS (IPP)	86	91	0	0.44	18
	Other Hydro	589	308	242	6.20	258
	Total HP	**1005**	**482**	**273**	**8.75**	**364**
J & K	Baglihar HPS (IPP)	450	246	240	5.81	242
	Other Hydro	323	110	116	2.80	117
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**356**	**356**	**8.61**	359
Total State Control Area Generation		**34390**	**14462**	**14827**	**350.22**	**14592**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**3086**	**3782**	**98.62**	**4109**
Total Regional Availability(Gross)		**57862**	**35300**	**28963**	**744.40**	**31017**

IV. Total Hydro Generation:

Regional Entities Hydro	**10500**	**6677**	**1619**	**73.90**	**3079**
State Control Area Hydro	**5368**	**1997**	**1692**	**44.29**	**1845**
Total Regional Hydro	**15868**	**8674**	**3311**	**118.19**	**4924**

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	200	500	1.21	4.72	-3.51
Gwalior-Agra (D/C)	736	1210	1330	0	21.16	0.00	21.16
Zerda-Kankroli	-39	-154	46	277	0.00	2.32	-2.32
Zerda-Bhinmal	67	-73	133	150	0.00	0.12	-0.12
Malanpur-Auraiya	-133	-71	0	133	0.00	2.32	-2.32
Badod-Kota/Morak	-87	-115	0	170	0.00	2.52	-2.52
Mundra-Mohindergarh(HVDC)	1500	1200	1503	0	35.00	0.00	35.00
Sub Total WR	**1744**	**1697**			**57.37**	**12.00**	**45.37**
Pusauli Bypass	-100	-100	350	100	2.05	0.85	1.20
MZP- GKP (D/C)	476	762	896	0	15.85	0.00	15.85
Patna-Balia(D/C)	440	541	854	0	14.90	0.00	14.90
B'Sharif-Balia (D/C)	232	410	724	0	11.24	0.00	11.24
Pusauli-Balia	-36	67	142	59	1.23	0.00	1.23
Gaya-Fatehpur (765 Kv)	237	329	395	0	6.89	0.00	6.89
Pusauli-Sahupuri	128	109	140	0	2.79	0.00	2.79
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-33	0	37	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	0	0		0.00	0.00	0.00
Sub Total ER	**1342**	**2085**			**54.95**	**1.70**	**53.25**
Total IR Exch	**3086**	**3782**			**112.32**	**13.70**	**98.62**

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
31.10	2.26	33.36	8.76	-9.76	4.57	7.75	0.94	-0.94

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
47.64	40.92	88.57	53.25	45.37	98.62	5.61	4.45	10.05

VI. Frequency Profile <---------- % of Time Frequency ---------->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.20	2.80	98.90	9.90	96.30	29.90	0.90

<---------- 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)
50.33	13.05	49.42	17.38	49.93	0.18	0.11	50.37	49.80

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	410	04:03	402	08:31	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	418	21:51	398	08:39	0.0	0.0	0.0	0.0
Kanpur	400	418	21:51	400	12:11	0.0	0.0	0.0	0.0
Dadri	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	00:00	410	10:07	0.0	0.0	40.6	0.0
Bawana	400	427	03:03	405	18:39	0.0	0.0	27.3	0.0
Bassi	400	427	04:01	393	08:39	0.0	0.0	11.4	0.0
Hissar	400	419	04:03	397	18:22	0.0	0.0	0.0	0.0
Moga	400	423	04:03	400	08:36	0.0	0.0	5.0	0.0
Abdullapur	400	423	03:03	399	18:13	0.0	0.0	16.9	0.0
Nalagarh	400	424	00:01	402	18:14	0.0	0.0	18.3	0.0
Kishenpur	400	430	23:53	396	18:38	0.0	0.0	24.3	0.0
Wagoora	400	428	23:53	378	18:40	0.2	10.3	4.7	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	775	21:52	723	09:13	2.0	22.0	0.0	0.0
Balia	765	761	21:50	725	09:15	0.7	36.8	0.0	0.0
Moga	765	797	04:03	755	08:39	0.0	0.0	0.0	0.0
Agra	765	805	21:56	744	08:39	0.0	0.0	1.1	0.0
Bhiwani	765	808	04:22	768	18:22	0.0	0.0	11.8	0.0
Unnao	765	758	21:50	730	09:13	0.0	36.5	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	510.95	1590.18	504.10	1272.00	255.25	304.83
Pong	426.72	384.05	420.40	902.94	420.01	889.20	74.59	395.81
Tehri	829.79	740.04	NA	NA	818.65	982.26	NA	NA
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	753.60	NA	NA	NA	70.83	76.11
Rihand	268.22	252.98	261.82	407.50	263.56	516.00	NA	196.65
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	518.14	144.00	520.80	144.00	76.88	122.13

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 30.10.2013 :
1. Normal weather in NR.

XIII. Synchronisation of new generating units :
0.00

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 :
Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.
Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood
Vishnuprayag and Dhauliganga expected by Mar, 2014 .

Report for : 30.10.2013 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**