पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.10.2013
Date of Reporting : 30.10.2013

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
33993	2275	36268	50.23	27182	750	27932	50.10	719.4	37.46

* 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	28.38	10.16		38.54	54.24	57.49	3.26	96.03	0.00
Haryana	48.57	0.70		49.26	58.51	58.64	0.13	107.90	0.70
Rajasthan	71.69	3.28	16.49	91.46	71.80	64.30	-7.49	155.76	0.00
Delhi	19.75			19.75	46.12	45.59	-0.54	65.34	0.04
UP	128.70	2.66	1.20	132.56	75.53	72.13	-3.40	204.69	35.01
Uttarakhand		9.75		9.75	17.83	19.41	1.58	29.16	0.00
HP		9.11		9.11	11.25	14.66	3.41	23.77	0.00
J & K		8.61	0.00	8.61	22.15	24.73	2.58	33.34	1.70
Chandigarh				0.00	3.56	3.44	-0.12	3.44	0.00
Total	**297.09**	**44.25**	**17.69**	**359.03**	**360.99**	**360.39**	**-0.60**	**719.42**	**37.46**

*** 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 transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	4405	0	-63	120	3423	0	95	205	2.54
Haryana	5415	0	-123	-114	3868	0	-68	-423	-8.74
Rajasthan	7051	0	-363	1235	5894	0	-185	1409	36.01
Delhi	3310	0	-149	-727	1855	0	-44	-1185	-20.03
UP	9285	2100	-324	-109	9035	750	-239	358	-1.09
Uttarakhand	1429	75	18	335	1007	0	-2	351	7.98
HP	1133	0	103	-363	779	0	122	56	-1.37
J&K	1787	100	70	242	1223	0	100	150	3.73
Chandigarh	180	0	-5	-46	99	0	-5	-18	-0.35
Total	**33993**	**2275**	**-837**	**574**	**27182**	**750**	**-226**	**904**	**18.67**

* 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	2037	44.37	1849	44.47	-0.10
	Rihand I STPS	1000	682	1006	662	15.67	653	15.35	0.32
	Rihand II STPS	1000	701	1038	622	15.74	656	15.43	0.31
	Rihand III STPS	1000	350	504	312	7.79	325	7.59	0.20
	Dadri I STPS	840	811	851	627	18.94	789	16.99	1.95
	Dadri II STPS	980	980	1016	714	20.32	847	20.44	-0.12
	Unchahar I TPS	420	201	193	207	4.21	175	4.24	-0.04
	Unchahar II TPS	420	404	430	373	8.11	338	8.05	0.05
	Unchahar III TPS	210	201	209	183	3.93	164	3.95	-0.02
	ISTPP (Jhajjhar)	1500	1418	927	630	17.42	726	18.55	-1.13
	Dadri GPS	830	808	586	567	15.52	647	15.71	-0.19
	Anta GPS	419	405	388	269	8.66	361	8.85	-0.20
	Auraiya GPS	663	645	155	160	3.65	152	3.65	0.00
	Sub Total (A)	**11282**	**9546**	**9386**	**7363**	**184.32**	**7680**	**183.28**	**1.05**
B. NPC	NAPS	440	305	346	348	7.40	308	7.32	0.08
	RAPS- B	440	412	452	455	9.87	411	9.89	-0.01
	RAPS- C	440	425	477	477	10.18	424	10.20	-0.02
	Sub Total (B)	**1320**	**1142**	**1275**	**1280**	**27.46**	**1144**	**27.41**	**0.05**
C. NHPC	Chamera I HPS	540	540	360	0	2.81	117	2.75	0.06
	Chamera II HPS	300	300	201	0	2.06	86	1.99	0.07
	Chamera III HPS	231	231	68	0	1.23	51	1.20	0.03
	Bairasuil HPS	180	182	20	0	0.78	33	0.82	-0.04
	Salal-HPS	690	188	330	152	4.37	182	4.50	-0.13
	Tanakpur-HPS	94	59	70	50	1.37	57	1.43	-0.06
	Uri-HPS	480	129	159	103	3.03	126	3.10	-0.07
	Uri-II HPS	120	75	78	60	1.66	69	1.78	-0.12
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	390	12	4.72	197	4.62	0.10
	Sewa-II HPS	120	119	41	0	0.50	21	0.46	0.04
	Sub Total (C)	**3425**	**2211**	**1717**	**377**	**22.52**	**938**	**22.65**	**-0.13**
D.NJPC	Nathpa Jhakri	1500	1605	924	160	12.57	524	12.53	0.04
	Sub Total (D)	1500	1605	924	160	12.57	524	12.53	0.04
E. THDC	Tehri HPS	1000	1060	920	0	6.65	277	6.50	0.15
	Koteshwar HPS	400	92	100	90	2.22	93	2.20	0.02
	Sub Total (E)	**1400**	**1152**	**1020**	**90**	**8.87**	**370**	**8.70**	**0.17**
F. BBMB	Bhakra HPS	1497	486	1030	372	12.31	513	11.67	0.64
	Dehar HPS	990	208	470	140	5.11	213	4.99	0.12
	Pong HPS	396	282	312	186	6.94	289	6.76	0.18
	Sub Total (F)	**2883**	**976**	**1812**	**698**	**24.36**	**1015**	**23.42**	**0.94**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	74	27	0.77	32	0.75	0.03
	KWHEP HPS(IPP)	1000	0	674	150	6.23	260	6.25	-0.02
	Malana Stg-II HPS	100	0	50	0	0.35	15	0.33	0.02
	Shree Cement TPS	300	0	266	151	5.14	214	5.05	0.09
	Budhil HPS(IPP)	70	0	10	5	0.21	9	0.24	-0.03
	Sub Total (G)	1662	0	1074	333	12.70	529	12.61	0.09
H. Total Regional Entities (A-G)		**23472**	**16631**	**17208**	**10301**	**292.80**	**12200**	**290.59**	**2.21**

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	690	630	16.39	683
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	2.05	85
	Guru Hargobind Singh TPS(L.mbt)	920	501	341	9.94	414
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1271	1051	28.38	1182
	Total Hydro	1148	301	403	10.16	423
	Total Punjab	**3768**	**1572**	**1454**	**38.54**	**1606**
Haryana	Panipat TPS	1367	526	496	12.52	522
	DCRTPP (Yamuna nagar)	600	283	269	6.53	272
	Faridabad GPS (NTPC)	432	197	152	4.50	187
	RGTPP (khedar) (IPP)	1200	565	374	11.67	486
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	525	530	13.36	556
	Thermal (Total)	4944	2096	1821	48.57	2024
	Total Hydro	62	30	29	0.70	29
	Total Haryana	**5006**	**2126**	**1850**	**49.26**	**2053**
Rajasthan	kota TPS	1240	1124	1099	26.37	1099
	suratgarh TPS	1500	1034	952	23.41	975
	Chabra TPS	500	447	398	9.84	410
	Dholpur GPS	330	103	98	2.55	106
	Ramgarh GPS	111	135	114	2.93	122
	RAPS A (NPC)	300	179	179	4.00	167
	Barsingsar (NLC)	250	111	113	2.60	108
	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	3133	2953	71.69	2987
	Total Hydro	550	175	71	3.28	137
	Wind power	2191	505	628	14.77	615
	Biomass	91	37	34	0.81	34
	Solar	201	0	0	0.91	38
	Renewable/Others (Total)	2483	542	662	16.49	687
	Total Rajasthan	**9989**	**3850**	**3686**	**91.46**	**3811**
UP	Anpara TPS	1630	1389	1381	32.80	1367
	Obra TPS	1288	354	347	8.60	358
	Paricha TPS	1140	699	725	17.30	721
	Panki TPS	210	63	72	1.50	63
	Harduaganj TPS	665	268	463	7.50	313
	Tanda TPS (NTPC)	440	395	396	9.56	398
	Roza TPS (IPP)	1200	1053	1080	23.30	971
	Anpara-C (IPP)	1200	1013	831	21.79	908
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	274	252	6.36	265
	Thermal (Total)	8223	5508	5547	128.70	5363
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	99	122	2.66	111
	Cogeneration	981	50	50	1.20	50
	Total UP	**10131**	**5657**	**5719**	**132.56**	**5523**
Uttarakhand	Total Hydro	1303	507	346	9.75	406
	Total Uttarakhand	**1303**	**507**	**346**	**9.75**	**406**
Delhi	Rajghat TPS	135	103	102	2.42	101
	Delhi Gas Turbine	282	79	83	1.90	79
	Pragati Gas Turbine	330	261	263	6.40	267
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	465	415	9.03	376
	Thermal (Total)	2232	908	863	19.75	823
	Total Delhi	**2232**	**908**	**863**	**19.75**	**823**
HP	Baspa HPS (IPP)	330	60	30	2.21	92
	Malana HPS (IPP)	86	96	0	0.40	16
	Other Hydro	589	278	249	6.51	271
	Total HP	**1005**	**434**	**279**	**9.11**	**380**
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**	**15410**	**14553**	**359.03**	**14960**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**1967**	**3395**	**79.84**	**3326**
Total Regional Availability(Gross)		**57862**	**34585**	**28249**	**731.67**	**30486**

IV. Total Hydro Generation:

Regional Entities Hydro	**10500**	**6271**	**1502**	**75.68**	**3153**
State Control Area Hydro	**5368**	**1902**	**1606**	**44.25**	**1844**
Total Regional Hydro	**15868**	**8173**	**3108**	**119.93**	**4997**

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	100	300	0.77	4.14	-3.37
Gwalior-Agra (D/C)	516	805	1112	0	16.86	0.00	16.86
Zerda-Kankroli	-98	-257	0	296	0.00	2.26	-2.26
Zerda-Bhinmal	-104	-204	83	438	0.00	3.19	-3.19
Malanpur-Auraiya	-132	-91	0	148	0.00	2.44	-2.44
Badod-Kota/Morak	-151	-193	0	285	0.00	4.15	-4.15
Mundra-Mohindergarh(HVDC)	1200	1500	1504	0	33.36	0.00	33.36
Sub Total WR	**931**	**1260**			**50.99**	**16.18**	**34.82**
Pusauli Bypass	-100	-100	0	100	0.00	2.42	-2.42
MZP- GKP (D/C)	347	853	876	0	15.62	0.00	15.62
Patna-Balia(D/C)	299	485	688	0	11.61	0.00	11.61
B'Sharif-Balia (D/C)	257	423	648	0	10.55	0.00	10.55
Pusauli-Balia	14	70	158	0	1.84	0.00	1.84
Gaya-Fatehpur (765 Kv)	143	317	389	0	5.92	0.00	5.92
Pusauli-Sahupuri	111	120	137	0	2.75	0.00	2.75
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	**1036**	**2135**			**48.29**	**3.27**	**45.02**
Total IR Exch	**1967**	**3395**			**99.28**	**19.45**	**79.84**

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
32.89	2.03	34.92	8.79	-9.58	6.64	2.59	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
51.29	34.49	85.78	45.02	34.82	79.84	-6.27	0.33	-5.95

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	0.00	0.80	96.20	2.30	95.40	49.40	3.80

<---------- 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)
50.31	19.59	49.59	18.41	50.00	0.12	0.11	50.27	49.94

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	413	00:00	405	19:05	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	419	04:06	400	09:25	0.0	0.0	0.0	0.0
Kanpur	400	419	04:01	401	08:50	0.0	0.0	0.0	0.0
Dadri	400	424	04:01	403	09:38	0.0	0.0	15.1	0.0
Ballabhgarh	400	430	04:25	423	20:29	0.0	0.0	100.0	0.0
Bawana	400	428	03:01	406	18:41	0.0	0.0	35.5	0.0
Bassi	400	429	04:02	397	08:52	0.0	0.0	15.4	0.0
Hissar	400	419	03:01	395	09:13	0.0	0.0	0.0	0.0
Moga	400	423	03:01	399	08:50	0.0	0.0	9.1	0.0
Abdullapur	400	424	03:09	400	18:06	0.0	0.0	4.9	0.0
Nalagarh	400	427	03:01	401	18:06	0.0	0.0	33.5	0.0
Kishenpur	400	428	02:49	397	18:23	0.0	0.0	19.8	0.0
Wagoora	400	423	02:48	377	18:24	0.6	11.4	5.7	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	767	17:29	729	18:43	0.0	4.8	0.0	0.0
Balia	765	755	04:02	728	18:25	0.0	14.1	0.0	0.0
Moga	765	798	03:02	754	09:10	0.0	0.0	0.0	0.0
Agra	765	809	04:02	759	08:37	0.0	0.0	11.2	0.0
Bhiwani	765	801	20:57	767	18:40	0.0	0.0	0.3	0.0
Unnao	765	760	17:30	730	18:40	0.0	11.3	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 29.10.2013 :
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 : 29.10.2013 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**