पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.10.2013
Date of Reporting : 29.10.2013

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
32706	2761	35467	50.27	27449	780	28229	50.22	710.8	30.41

* 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	28.50	9.96		38.46	55.08	57.19	2.11	95.65	0.00
Haryana	39.63	0.71		40.34	54.12	59.04	4.91	99.38	0.00
Rajasthan	73.67	3.76	4.81	82.24	76.14	73.67	-2.47	155.90	0.00
Delhi	19.35			19.35	46.67	45.21	-1.46	64.55	0.02
UP	131.30	3.04	1.20	135.55	75.03	71.21	-3.83	206.75	27.49
Uttarakhand		10.48		10.48	17.38	18.39	1.01	28.87	0.75
HP		9.32		9.32	11.38	14.02	2.65	23.34	0.45
J & K		8.61	0.00	8.61	21.76	24.20	2.44	32.80	1.70
Chandigarh				0.00	3.65	3.53	-0.12	3.53	0.00
Total	**292.45**	**45.87**	**6.01**	**344.34**	**361.21**	**366.44**	**5.23**	**710.77**	**30.41**

*** 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	4333	0	31	110	3508	0	81	201	3.23
Haryana	4703	556	204	-295	4041	0	153	-476	-15.03
Rajasthan	7019	0	-468	1452	5859	0	145	1404	35.79
Delhi	3212	0	-113	-557	1884	0	-103	-1015	-15.24
UP	8955	2030	-188	-109	9123	780	-56	500	-0.53
Uttarakhand	1463	75	5	329	1003	0	-11	333	7.83
HP	1118	0	42	-357	711	0	16	37	-1.36
J&K	1720	100	92	143	1222	0	102	150	3.19
Chandigarh	183	0	-5	-41	98	0	-10	-15	-0.32
Total	**32706**	**2761**	**-400**	**676**	**27449**	**780**	**317**	**1117**	**17.56**

* 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	2078	1732	44.56	1856	44.53	0.02
	Rihand I STPS	1000	675	857	630	15.46	644	15.53	-0.07
	Rihand II STPS	1000	701	1035	614	16.19	674	16.00	0.19
	Rihand III STPS	1000	350	499	351	8.28	345	8.30	-0.02
	Dadri I STPS	840	810	714	637	14.47	603	14.68	-0.21
	Dadri II STPS	980	980	950	699	19.90	829	20.08	-0.18
	Unchahar I TPS	420	201	177	158	4.10	171	4.16	-0.07
	Unchahar II TPS	420	404	407	322	8.15	340	8.21	-0.06
	Unchahar III TPS	210	201	189	154	4.08	170	4.12	-0.04
	ISTPP (Jhajjhar)	1500	1480	828	636	17.84	743	16.98	0.86
	Dadri GPS	830	804	761	554	16.66	694	16.42	0.24
	Anta GPS	419	409	386	256	8.55	356	8.59	-0.04
	Auraiya GPS	663	644	153	160	3.66	153	3.68	-0.02
	Sub Total (A)	**11282**	**9599**	**9034**	**6903**	**181.89**	**7579**	**181.28**	**0.61**
B. NPC	NAPS	440	303	346	346	7.32	305	7.27	0.05
	RAPS- B	440	410	455	458	9.86	411	9.84	0.02
	RAPS- C	440	425	477	475	10.16	423	10.20	-0.04
	Sub Total (B)	**1320**	**1138**	**1278**	**1279**	**27.34**	**1139**	**27.31**	**0.03**
C. NHPC	Chamera I HPS	540	540	360	0	2.78	116	2.75	0.03
	Chamera II HPS	300	300	200	0	2.00	83	1.95	0.04
	Chamera III HPS	231	231	16	0	1.41	59	1.21	0.20
	Bairasuil HPS	180	182	20	0	0.78	33	0.73	0.06
	Salal-HPS	690	188	324	207	4.52	188	4.50	0.02
	Tanakpur-HPS	94	61	68	60	1.42	59	1.46	-0.04
	Uri-HPS	480	131	224	45	3.22	134	3.13	0.09
	Uri-II HPS	120	77	103	61	1.91	79	1.85	0.06
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	297	398	0	4.53	189	4.86	-0.33
	Sewa-II HPS	120	119	79	0	0.59	24	0.57	0.01
	Sub Total (C)	**3425**	**2126**	**1792**	**373**	**23.15**	**964**	**23.01**	**0.14**
D.NJPC	Nathpa Jhakri	1500	1605	1284	173	12.71	530	12.50	0.21
	Sub Total (D)	1500	1605	1284	173	12.71	530	12.50	0.21
E. THDC	Tehri HPS	1000	1060	1005	0	6.63	276	6.50	0.13
	Koteshwar HPS	400	92	100	90	2.22	93	2.20	0.02
	Sub Total (E)	**1400**	**1152**	**1105**	**90**	**8.85**	**369**	**8.70**	**0.15**
F. BBMB	Bhakra HPS	1497	502	1034	374	12.57	524	12.06	0.51
	Dehar HPS	990	212	470	140	5.17	215	5.08	0.09
	Pong HPS	396	275	312	192	6.88	287	6.61	0.27
	Sub Total (F)	**2883**	**989**	**1816**	**706**	**24.62**	**1026**	**23.75**	**0.87**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	94	26	0.83	35	0.81	0.03
	KWHEP HPS(IPP)	1000	0	897	150	6.46	269	6.47	-0.01
	Malana Stg-II HPS	100	0	50	0	0.41	17	0.45	-0.04
	Shree Cement TPS	300	0	266	152	4.76	198	4.67	0.09
	Budhil HPS(IPP)	70	0	10	9	0.13	5	0.26	-0.13
	Sub Total (G)	1662	0	1317	337	12.59	525	12.66	-0.07
H. Total Regional Entities (A-G)		**23472**	**16609**	**17626**	**9861**	**291.15**	**12131**	**289.20**	**1.94**

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	630	660	16.27	678
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	2.00	83
	Guru Hargobind Singh TPS(L.mbt)	920	405	455	10.24	427
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1115	1195	28.50	1188
	Total Hydro	1148	308	427	9.96	415
	Total Punjab	**3768**	**1423**	**1622**	**38.46**	**1603**
Haryana	Panipat TPS	1367	61	76	2.03	84
	DCRTPP (Yamuna nagar)	600	277	249	6.35	265
	Faridabad GPS (NTPC)	432	177	160	4.27	178
	RGTPP (khedar) (IPP)	1200	276	249	9.68	403
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	538	707	17.31	721
	Thermal (Total)	4944	1329	1441	39.63	1651
	Total Hydro	62	30	29	0.71	30
	Total Haryana	**5006**	**1359**	**1470**	**40.34**	**1681**
Rajasthan	kota TPS	1240	1133	1098	26.72	1113
	suratgarh TPS	1500	1042	991	24.13	1005
	Chabra TPS	500	444	383	10.03	418
	Dholpur GPS	330	108	97	2.55	106
	Ramgarh GPS	111	138	150	3.48	145
	RAPS A (NPC)	300	179	179	3.98	166
	Barsingsar (NLC)	250	113	113	2.62	109
	Giral LTPS	250	0	41	0.16	7
	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	3157	3052	73.67	3070
	Total Hydro	550	151	120	3.76	156
	Wind power	2191	129	82	3.14	131
	Biomass	91	33	33	0.79	33
	Solar	201	0	0	0.88	37
	Renewable/Others (Total)	2483	162	115	4.81	200
	Total Rajasthan	**9989**	**3470**	**3287**	**82.24**	**3426**
UP	Anpara TPS	1630	1345	1400	31.60	1317
	Obra TPS	1288	523	517	11.50	479
	Paricha TPS	1140	800	892	18.20	758
	Panki TPS	210	90	80	1.90	79
	Harduaganj TPS	665	475	450	10.50	438
	Tanda TPS (NTPC)	440	395	393	9.59	400
	Roza TPS (IPP)	1200	869	1080	23.43	976
	Anpara-C (IPP)	1200	659	806	18.01	750
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	241	363	6.57	274
	Thermal (Total)	8223	5397	5981	131.30	5471
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	145	123	3.04	127
	Cogeneration	981	50	50	1.20	50
	Total UP	**10131**	**5592**	**6154**	**135.55**	**5648**
Uttarakhand	Total Hydro	1303	544	364	10.48	437
	Total Uttarakhand	**1303**	**544**	**364**	**10.48**	**437**
Delhi	Rajghat TPS	135	101	49	1.83	76
	Delhi Gas Turbine	282	82	83	1.88	78
	Pragati Gas Turbine	330	262	263	6.71	280
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	425	415	8.92	372
	Thermal (Total)	2232	870	810	19.35	806
	Total Delhi	**2232**	**870**	**810**	**19.35**	**806**
HP	Baspa HPS (IPP)	330	59	79	2.28	95
	Malana HPS (IPP)	86	91	0	0.47	20
	Other Hydro	589	286	248	6.57	274
	Total HP	**1005**	**436**	**327**	**9.32**	**388**
J & K	Baglihar HPS (IPP)	450	242	238	5.81	242
	Other Hydro	323	110	116	2.80	117
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**352**	**354**	**8.61**	359
Total State Control Area Generation		**34390**	**14046**	**14388**	**344.34**	**14347**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**2881**	**3899**	**87.00**	**3625**
Total Regional Availability(Gross)		**57862**	**34553**	**28148**	**722.49**	**30104**

IV. Total Hydro Generation:

Regional Entities Hydro	**10500**	**7038**	**1518**	**77.03**	**3209**
State Control Area Hydro	**5368**	**1966**	**1744**	**45.87**	**1911**
Total Regional Hydro	**15868**	**9004**	**3262**	**122.90**	**5121**

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	-200	-350	0	350	0.00	4.25	-4.25
Gwalior-Agra (D/C)	702	978	1221	0	17.31	0.00	17.31
Zerda-Kankroli	-92	-195	0	250	0.00	3.28	-3.28
Zerda-Bhinmal	24	-74	133	183	0.00	0.15	-0.15
Malanpur-Auraiya	-112	-76	0	129	0.00	2.24	-2.24
Badod-Kota/Morak	-62	-142	0	173	0.00	2.93	-2.93
Mundra-Mohindergarh(HVDC)	1501	1500	1506	0	36.25	0.00	36.25
Sub Total WR	**1761**	**1641**			**53.57**	**12.85**	**40.71**
Pusauli Bypass	-100	-100	0	100	0.00	2.44	-2.44
MZP- GKP (D/C)	437	857	880	0	17.38	0.00	17.38
Patna-Balia(D/C)	286	582	582	0	11.31	0.00	11.31
B'Sharif-Balia (D/C)	240	447	480	0	9.36	0.00	9.36
Pusauli-Balia	10	75	98	0	1.22	0.00	1.22
Gaya-Fatehpur (765 Kv)	164	311	439	0	7.54	0.00	7.54
Pusauli-Sahupuri	118	119	143	0	2.77	0.00	2.77
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	**1120**	**2258**			**49.58**	**3.29**	**46.29**
Total IR Exch	**2881**	**3899**			**103.14**	**16.14**	**87.00**

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
30.41	2.12	32.54	8.78	-8.87	0.48	6.97	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
42.74	45.07	87.82	46.29	40.71	87.00	3.54	-4.36	-0.81

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	0.50	93.50	2.60	93.00	58.30	6.50

<---------- 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)
50.38	13.10	49.62	17.54	50.03	0.14	0.12	50.41	49.93

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	09:28	0.0	0.0	0.0	0.0
Gorakhpur	400	420	00:00	407	18:00	0.0	0.0	0.0	0.0
Bareilly	400	422	21:53	402	09:41	0.0	0.0	0.5	0.0
Kanpur	400	420	03:03	401	09:40	0.0	0.0	0.0	0.0
Dadri	400	424	03:03	406	09:41	0.0	0.0	16.7	0.0
Ballabhgarh	400	432	03:02	410	09:41	0.0	0.0	45.0	3.5
Bawana	400	428	03:02	409	09:41	0.0	0.0	40.4	0.0
Bassi	400	428	04:02	398	08:16	0.0	0.0	22.1	0.0
Hissar	400	419	03:03	399	09:41	0.0	0.0	0.0	0.0
Moga	400	423	03:02	402	18:08	0.0	0.0	9.0	0.0
Abdullapur	400	424	21:52	402	18:36	0.0	0.0	17.8	0.0
Nalagarh	400	430	03:03	403	18:12	0.0	0.0	36.5	0.0
Kishenpur	400	429	03:04	399	18:38	0.0	0.0	20.2	0.0
Wagoora	400	422	03:03	384	18:44	0.0	9.2	1.9	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	00:00	729	09:51	0.0	12.1	0.0	0.0
Balia	765	759	00:00	724	17:54	0.5	41.8	0.0	0.0
Moga	765	800	03:04	759	18:09	0.0	0.0	0.0	0.0
Agra	765	811	21:53	752	09:40	0.0	0.0	14.5	0.0
Bhiwani	765	768	00:00	746	09:18	0.0	0.0	0.0	0.0
Unnao	765	760	00:00	734	09:41	0.0	19.7	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	511.04	1605.30	504.06	1272.20	296.25	307.27
Pong	426.72	384.05	420.76	916.71	420.39	902.94	74.42	369.25
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	NA	NA	NA	NA	NA	NA
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 28.10.2013 :
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 : 28.10.2013 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**