पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.09.2012
Date of Reporting : 01.10.2012

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
35953	3409	39361	50.11	32181	3285	35465	50.10	794.9	85.26

* 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	55.36	9.55		64.91	88.52	89.01	0.48	153.92	5.60
Haryana	55.44	0.25		55.68	67.49	67.44	-0.05	123.12	14.62
Rajasthan	78.41	1.64	3.67	83.72	59.89	62.10	2.21	145.82	15.01
Delhi	25.80			25.80	53.04	49.03	-4.01	74.84	0.02
UP	89.45	15.15	0.00	104.60	110.80	108.22	-2.59	212.82	43.39
Uttarakhand		15.80		15.80	8.29	10.51	2.22	26.31	4.92
HP		15.89		15.89	6.81	7.77	0.96	23.65	0.00
J & K		15.32	0.00	15.32	16.11	15.05	-1.06	30.37	1.70
Chandigarh				0.00	4.18	4.04	-0.14	4.04	0.00
Total	**304.46**	**73.58**	**3.67**	**381.71**	**415.14**	**413.16**	**-1.98**	**794.88**	**85.26**

*** 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	6997	600	-92	1454	6353	0	125	1436	34.61
Haryana	5377	504	-115	411	4811	836	24	300	8.52
Rajasthan	6785	169	89	1032	5187	579	140	-70	15.96
Delhi	3512	0	-192	-162	2901	0	-150	-506	-6.87
UP	8840	1900	-202	503	10031	1640	173	2020	23.58
Uttarakhand	1436	135	289	-52	948	230	-53	-70	-1.58
HP	1071	0	36	-668	850	0	62	-347	-10.14
J&K	1724	100	170	-195	948	0	-167	-195	-4.74
Chandigarh	211	0	-9	-32	152	0	6	-10	-0.11
Total	**35953**	**3409**	**-25**	**2290**	**32181**	**3285**	**159**	**2558**	**59.23**

* 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	1430	1527	1568	34.30	1429	34.31	-0.01
	Rihand I STPS	1000	808	944	876	19.44	810	19.34	0.10
	Rihand II STPS	1000	910	1031	966	21.85	911	21.80	0.05
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	800	621	802	15.90	663	16.41	-0.51
	Dadri II STPS	980	908	896	810	19.44	810	20.08	-0.64
	Unchahar I TPS	420	403	433	439	9.59	400	9.55	0.04
	Unchahar II TPS	420	400	426	438	9.45	394	9.50	-0.06
	Unchahar III TPS	210	200	211	216	4.73	197	4.75	-0.02
	ISTPP (Jhajjhar)	1000	950	776	786	17.46	727	17.71	-0.25
	Dadri GPS	830	801	547	581	13.55	564	13.85	-0.30
	Anta GPS	419	393	269	261	6.11	255	5.92	0.19
	Auraiya GPS	663	424	287	301	7.08	295	7.14	-0.06
	Sub Total (A)	**10282**	**8426**	**7968**	**8044**	**178.89**	**7454**	**180.37**	**-1.48**
B. NPC	NAPS	440	266	305	308	6.36	265	6.38	-0.03
	RAPS- B	440	411	452	456	9.72	405	9.86	-0.14
	RAPS- C	440	455	456	468	9.87	411	10.92	-1.05
	Sub Total (B)	**1320**	**1132**	**1213**	**1232**	**25.95**	**1081**	**27.17**	**-1.22**
C. NHPC	Chamera I HPS	540	534	540	0	5.58	232	5.60	-0.02
	Chamera II HPS	300	300	286	30	4.13	172	4.09	0.04
	Chamera III HPS	231	218	233	0	2.90	121	2.89	0.01
	Bairasuil HPS	180	182	120	60	1.68	70	1.73	-0.05
	Salal-HPS	690	374	449	351	8.44	352	8.97	-0.53
	Tanakpur-HPS	94	94	95	95	2.29	95	2.24	0.05
	Uri-HPS	480	475	479	479	11.62	484	11.48	0.13
	Dhauliganga-HPS	280	280	258	10	4.17	174	4.05	0.12
	Dulhasti-HPS	390	387	408	377	9.28	387	9.26	0.01
	Sewa-II HPS	120	80	85	84	1.94	81	1.91	0.02
	Sub Total (C)	**3305**	**2923**	**2953**	**1486**	**52.01**	**2167**	**52.22**	-0.21
D.NJPC	Nathpa Jhakri	1500	1605	1222	390	17.27	719	17.28	-0.01
	Sub Total (D)	1500	1605	1222	390	17.27	719	17.28	-0.01
E. THDC	Tehri HPS	1000	1050	1056	0	5.17	215	5.00	0.17
	Koteshwar HPS	400	370	284	0	1.54	64	1.50	0.04
	Sub Total (E)	**1400**	**1420**	**1340**	**0**	**6.71**	**280**	**6.50**	0.21
F. BBMB	Bhakra HPS	1480	809	1258	570	19.81	825	19.41	0.40
	Dehar HPS	990	480	495	495	11.51	480	11.52	-0.01
	Pong HPS	396	242	366	180	5.93	247	5.01	0.92
	Sub Total (F)	**2866**	**1530**	**2119**	**1245**	**37.25**	**1552**	**35.94**	1.31
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	67	70	1.52	64	2.17	-0.65
	KWHEP HPS(IPP)	1000	0	420	442	9.39	391	10.01	-0.62
	Malana Stg-II HPS	100	0	41	40	0.84	35	0.79	0.06
	Shree Cement TPS	300	0	136	123	3.07	128	3.10	-0.02
	Budhil HPS(IPP)	70	0	60	30	0.79	33	0.72	0.07
	Sub Total (G)	1662	0	724	705	15.62	651	16.78	-1.17
H. Total Regional Entities (A-G)		**22336**	**17036**	**17539**	**13102**	**333.69**	**13904**	**336.26**	**-2.56**

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	1260	1260	28.24	1177
	Guru Nanak Dev TPS(Bhatinda)	440	273	272	5.86	244
	Guru Hargobind Singh TPS(L.mbt)	920	964	949	21.26	886
	Thermal (Total)	2620	2497	2481	55.36	2307
	Total Hydro	1148	353	308	9.55	398
	Total Punjab	**3768**	**2850**	**2789**	**64.91**	**2705**
Haryana	Panipat TPS	1367	1031	1031	25.14	1047
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	400	406	9.83	409
	RGTPP (khedar) (IPP)	1200	468	432	11.24	468
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	352	352	9.24	385
	Thermal (Total)	4944	2251	2221	55.44	2310
	Total Hydro	62	11	10	0.25	10
	Total Haryana	**5006**	**2262**	**2231**	**55.68**	**2320**
Rajasthan	kota TPS	1240	1075	1071	25.33	1055
	suratgarh TPS	1500	1070	913	22.36	932
	Chabra TPS	500	446	418	10.31	430
	Dholpur GPS	330	143	143	5.35	223
	Ramgarh GPS	111	75	68	1.87	78
	RAPS A (NPC)	300	179	179	4.20	175
	Barsingsar (NLC)	250	111	110	2.58	108
	Giral LTPS	250	0	57	0.58	24
	Rajwest LTPS (IPP)	540	243	347	5.83	243
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3342	3306	78.41	3267
	Total Hydro	550	90	143	1.64	68
	Wind power	1843	0	58	1.54	64
	Biomass	91	20	20	0.49	20
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	20	78	3.67	153
	Total Rajasthan	**7767**	**3452**	**3527**	**83.72**	**3488**
UP	Anpara TPS	1630	1200	1076	24.90	1038
	Obra TPS	1382	400	404	8.50	354
	Paricha TPS	890	359	324	1.50	63
	Panki TPS	210	180	170	3.70	154
	Harduaganj TPS	665	0	237	7.70	321
	Tanda TPS (NTPC)	440	400	398	9.69	404
	Roza TPS (IPP)	1200	1080	1121	26.24	1093
	Anpara-C (IPP)	1200	0	0	0.00	0
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	297	284	7.22	301
	Thermal (Total)	8067	3916	4014	89.45	3727
	Vishnuparyag HPS (IPP)	400	371	368	8.71	363
	Other Hydro	527	285	0	6.44	268
	Cogeneration	981	0	0	0.00	0
	Total UP	**9975**	**4572**	**4382**	**104.60**	**3995**
Uttarakhand	Total Hydro	1303	598	743	15.80	658
	Total Uttarakhand	**1303**	**598**	**743**	**15.80**	**658**
Delhi	Rajghat TPS	135	109	106	2.59	108
	Delhi Gas Turbine	282	77	81	1.82	76
	Pragati Gas Turbine	330	268	301	6.72	280
	Rithala GPS	108	21	21	0.30	13
	Bawana GPS	677	227	226	5.29	220
	Badarpur TPS (NTPC)	705	405	410	9.09	379
	Thermal (Total)	2237	1107	1145	25.80	1075
	Total Delhi	**2237**	**1107**	**1145**	**25.80**	**1075**
HP	Baspa HPS (IPP)	330	88	138	3.20	133
	Malana HPS (IPP)	86	34	23	0.85	35
	Other Hydro	589	541	493	11.84	493
	Total HP	**1005**	**663**	**654**	**16**	**662**
J & K	Baglihar HPS (IPP)	450	439	437	10.59	441
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**624**	**647**	**15.32**	638
Total State Control Area Generation		**32017**	**16128**	**16118**	**381.71**	**15542**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**3745**	**4137**	**90.43**	**3768**
Total Regional Availability(Gross)		**54353**	**37412**	**33357**	**805.84**	**33214**

IV. Total Hydro Generation:

Regional Entities Hydro	**10364**	**8162**	**3673**	**124.99**	**5208**
State Control Area Hydro	**5368**	**2624**	**2505**	**73.58**	**2703**
Total Regional Hydro	**15731**	**10786**	**6178**	**198.57**	**7911**

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	500	300	500	0	9.88	0.00	9.88
Gwalior-Agra (D/C)	561	808	837	0	15.06	0.00	15.06
Zerda-Kankroli	96	82	126	25	1.02	0.00	1.02
Zerda-Bhinmal	214	108	267	0	3.42	0.00	3.42
Malanpur-Auraiya	-78	-12	0	101	0.00	1.17	-1.17
Badod-Kota/Morak	107	85	128	0	1.87	0.00	1.87
Mundra-Mohindergarh(HVDC)	604	604	606	0	14.59	0.00	14.59
Sub Total WR	**2004**	**1975**			**45.83**	**1.17**	**44.66**
Pusauli Bypass	-300	-150	0	300	0.00	4.82	-4.82
MZP- GKP (D/C)	722	808	1100	0	20.45	0.00	20.45
Patna-Balia(D/C)	368	569	591	0	10.54	0.00	10.54
B'Sharif-Balia (D/C)	228	262	363	0	5.78	0.00	5.78
Barh - Balia(D/C)	369	346	400	0	7.69	0.00	7.69
Pusauli-Balia	245	195	245	0	3.19	0.00	3.19
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	156	174	181	0	3.97	0.00	3.97
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-47	-42	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1741**	**2162**			**51.62**	**5.85**	**45.77**
Total IR Exch	**3745**	**4137**			**97.45**	**7.02**	**90.43**

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
31.64	2.66	34.29	12.78	22.64	-0.01	7.49	-0.02	0.06

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
47.04	45.72	92.76	45.77	44.66	90.43	-1.27	-1.06	-2.33

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	3.10	93.50	90.40	46.60	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)
50.40	17.13	49.58	18.27	49.99	0.20	0.14	50.36	49.85

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	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	428	07:22	409	00:54	0.0	0.0	21.3	0.0
Bareilly	400	418	07:52	400	14:04	0.0	0.0	0.0	0.0
Kanpur	400	418	07:53	405	11:43	0.0	0.0	0.0	0.0
Dadri	400	416	07:52	405	11:40	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	02:30	410	11:42	0.0	0.0	17.3	0.0
Bawana	400	421	07:52	410	11:26	0.0	0.0	0.2	0.0
Bassi	400	434	02:26	401	06:34	0.0	0.0	47.8	4.1
Hissar	400	414	02:58	399	11:33	0.0	0.0	0.0	0.0
Moga	400	413	02:48	395	11:38	0.0	0.0	0.0	0.0
Abdullapur	400	419	07:54	294	07:07	0.1	0.1	0.0	0.0
Nalagarh	400	419	07:53	401	11:27	0.0	0.0	0.0	0.0
Kishenpur	400	415	02:53	394	19:37	0.0	0.0	0.0	0.0
Wagoora	400	414	02:50	383	20:04	0.0	8.2	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	505.13	1312.37	511.80	1635.65	473.29	564.41
Pong	426.72	384.05	422.55	1005.78	423.42	1051.02	232.25	333.35
Tehri	829.79	740.04	823.95	1085.00	818.65	982.26	182.95	112.00
Koteshwar	612.50	598.50	608.20	3.76	NA	NA	112.00	102.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	164.66	151.47
Rihand	268.22	252.98	264.14	554.30	265.54	650.20	NA	NA
RPS	352.80	343.81	352.76	NA	349.33	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.82	NA	297.67	NA	NA	106.75
RSD	527.91	487.91	521.08	NA	523.81	NA	192.24	144.05

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 30.09.2012 :

1: Normal weather in NR.

XII. Synchronisation of new generating units :

11.ICT-IV(1500MVA) at Jhatikara charged at 05.35 hrs.

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

Following elements were Ist time charged/Synchronised on 30.09.2012.

1. 400 kV Bamnoli-Jhatikara Ckt-II Synchronised at 18.19 hrs,(7) ICT-II (1000 MVA) at 765 kV Bhiwani charged at 13.52 hrs.
2. 400 kV Mundaka-Jhatikara Ckt-I synchronised at 23.02 hrs,(8) 125 MVAR bus reactor at Manesar charged at 22.23 hrs.
3. 400 kV Mundaka-Jhatikara-II Synchronised at 23.52 hrs,(9). ICT-I (1500 MVA) At Jhatikara charged at 04.40 hrs.
4.240 MVAR Line reactor (used as bus reactor) of 765 Agra-Jhatikara line at Jhatikara charged at 23.15 hrs
5.250 MVAR Bus reactor at 765 kV Balia charged at 21.35 hrs.(10).ICT-III(1500 MVA) at Jhatikara charged at 05.11 hrs.
6. 240 MVAR Line reactor(used as bus reactor) of 765 kV Balia -Gaya line at Balia charged at 22.50 hrs.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.09.2012 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**