पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.09.2011
Date of Reporting : 26.09.2011

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
32068	1733	33801	49.70	29038	2857	31895	49.84	720.5	58.09

* 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	51.28	19.32		70.60	74.52	77.34	2.82	147.94	13.15
Haryana	67.17	1.03		68.19	40.18	47.71	7.54	115.91	3.32
Rajasthan	58.99	1.12	12.11	72.22	25.42	43.27	17.85	115.49	5.71
Delhi	25.78			25.78	59.18	53.09	-6.09	78.87	0.11
UP	40.36	17.72	1.20	59.28	99.76	124.59	24.83	183.87	32.14
Uttarakhand		20.03		20.03	3.25	5.83	2.58	25.87	2.07
HP		17.67		17.67	2.26	4.70	2.43	22.37	0.00
J & K		14.17	0.00	14.17	12.43	11.72	-0.71	25.89	1.60
Chandigarh				0.00	4.75	4.33	-0.43	4.33	0.00
Total	**243.57**	**91.07**	**13.31**	**347.95**	**321.76**	**372.58**	**50.83**	**720.53**	**58.09**

*** 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 (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	6149	395	-137	883	6404	0	234	941	21.45
Haryana	5317	92	532	305	4582	212	279	262	6.92
Rajasthan	4771	241	386	-355	4967	615	1290	-408	-9.46
Delhi	3659	0	-161	353	3034	0	-407	303	8.12
UP	8451	865	1512	1294	7063	2030	424	829	26.15
Uttarakhand	1072	140	-57	-200	1123	0	225	-200	-4.80
HP	1020	0	146	-1569	851	0	199	-1034	-30.79
J&K	1413	0	120	-375	856	0	-194	-275	-8.10
Chandigarh	216	0	-31	30	158	0	2	30	0.72
Total	**32068**	**1733**	**2310**	**366**	**29038**	**2857**	**2052**	**448**	**10.20**

* 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	557	531	733	13.35	556	13.38	-0.02
	Rihand I STPS	1000	765	885	807	18.63	776	18.35	0.28
	Rihand II STPS	1000	465	501	504	11.29	470	11.16	0.13
	Dadri I STPS	840	800	864	870	19.31	804	19.01	0.30
	Dadri II STPS	980	972	1028	1027	23.58	982	23.33	0.25
	Unchahar I TPS	440	287	313	329	6.95	290	6.88	0.07
	Unchahar II TPS	440	143	155	166	3.47	144	3.44	0.03
	Unchahar III TPS	210	143	155	168	3.47	145	3.44	0.03
	ISTPP (Jhajjar)	500	470	0	0	0.43	18	1.58	-1.15
	Dadri GPS	830	768	747	794	17.92	747	18.14	-0.23
	Anta GPS	419	388	387	395	9.22	384	9.02	0.19
	Auraiya GPS	663	619	608	625	14.49	604	14.53	-0.04
	Sub Total (A)	**9322**	**6377**	**6174**	**6418**	**142.10**	**5921**	**142.25**	**-0.15**
B. NPC	NAPS	440	190	224	230	4.57	191	4.56	0.01
	RAPS- B	440	198	217	218	4.67	195	4.75	-0.08
	RAPS- C	440	420	472	474	10.17	424	10.08	0.09
	Sub Total (B)	**1320**	**808**	**913**	**922**	**19.41**	**809**	**19.39**	**0.02**
C. NHPC	Chamera I HPS	540	534	540	0	8.22	343	8.02	0.20
	Chamera II HPS	300	297	293	200	5.01	209	4.65	0.36
	Bairasuil HPS	180	120	120	20	2.13	89	1.93	0.19
	Salal-HPS	690	421	456	508	10.11	421	10.07	0.05
	Tanakpur-HPS	94	93	95	95	2.28	95	2.24	0.04
	Uri-HPS	480	480	480	480	11.60	483	11.52	0.08
	Dhauliganga-HPS	280	277	215	208	5.41	225	4.75	0.66
	Dulhasti-HPS	390	388	409	258	9.28	387	9.38	-0.09
	Sewa-II HPS	120	119	124	125	2.94	123	2.93	0.02
	Sub Total (C)	**3074**	**2728**	**2732**	**1894**	**56.99**	**2374**	**55.48**	1.51
D.NJPC	Nathpa Jhakri	1500	1600	1606	506	25.48	1062	25.44	0.04
	Sub Total (D)	1500	1600	1606	506	25.48	1062	25.44	0.04
E. THDC	Tehri HPS	1000	1050	948	0	5.36	223	5.00	0.36
	Koteshwar HPS	100	87	87	87	2.11	88	2.09	0.02
	Sub Total (E)	**1100**	**1137**	**1035**	**87**	**7.47**	**311**	**7.09**	0.38
F. BBMB	Bhakra HPS	1480	1075	1255	990	26.27	1095	25.79	0.48
	Dehar HPS	990	531	852	420	12.90	538	12.75	0.15
	Pong HPS	396	239	306	186	6.02	251	5.74	0.28
	Sub Total (F)	**2866**	**1845**	**2413**	**1596**	**45.19**	**1883**	**44.28**	0.91
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	56	56	1.35	56	1.31	0.05
	KWHEP HPS(IPP)	1000	0	730	590	12.48	520	14.52	-2.04
	Malana Stg-II HPS	100	0	35	50	1.17	49	0.00	1.17
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1442	0	821	696	15.00	625	15.82	-0.83
H. Total Regional Entities (A-G)		**20625**	**14495**	**15694**	**12119**	**311.64**	**12985**	**309.76**	**1.89**

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	1040.00	1245.00	24.50	1021
	Guru Nanak Dev TPS(Bhatinda)	440	282.00	287.00	5.85	244
	Guru Hargobind Singh TPS(L.mbt)	920	950.00	950.00	20.94	872
	Thermal (Total)	2620	2272.00	2482.00	51.28	2137
	Total Hydro	1148	726.00	520.00	19.32	805
	Total Punjab	**3768**	**2998**	**3002**	**70.60**	**2942**
Haryana	Panipat TPS	1360	1156.00	1151.00	27.76	1157
	DCRTPP (Yamuna nagar)	600	267.00	473.00	7.67	320
	Faridabad GPS (NTPC)	432	396.00	404.00	9.70	404
	RGTPP (khedar) (IPP)	1200	831.00	771.00	22.04	918
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2650.00	2799.00	67.17	2799
	Total Hydro	62	39.00	39.00	1.03	43
	Total Haryana	**3679**	**2689**	**2838**	**68.19**	**2841**
Rajasthan	kota TPS	1240	862.00	763.00	19.65	819
	suratgarh TPS	1500	1171.00	941.00	24.63	1026
	Chabra TPS	500	226.00	80.00	4.66	194
	Dholpur GPS	330	132.00	126.00	3.16	131
	Ramgarh GPS	113	62.00	62.00	1.04	43
	RAPS A (NPC)	300	178.00	178.00	4.32	180
	Barsingsar (NLC)	250	0.00	0.00	0.00	0
	Giral LTPS (IPP)	250	100.00	75.00	1.53	64
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	2731.00	2225.00	58.99	2458
	Total Hydro	550	65.00	52.00	1.12	47
	Wind power	1294	403.00	505.00	11.55	481
	Biomass	71	25.00	25.00	0.57	24
	Renewable/Others (Total)	1365	428	530	12.11	505
	Total Rajasthan	**6668**	**3224**	**2807**	**72.22**	**3009**
UP	Anpara TPS	1630	507	714	12.90	538
	Obra TPS	1442	93	110	2.10	88
	Paricha TPS	640	403	407	8.70	363
	Panki TPS	210	70	65	1.40	58
	Harduaganj TPS	375	44	40	0.90	38
	Tanda TPS (NTPC)	440	244	258	6.42	267
	Roza TPS (IPP)	600	284	500	7.94	331
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	1645	2094	40.36	1682
	Vishnuparyag HPS (IPP)	400	436	436	10.45	435
	Other Hydro	527	304	73	7.27	303
	Cogeneration	951	50	50	1.20	50
	Total UP	**7815**	**2435**	**2653**	**59.28**	**2035**
Uttarakhand	Total Hydro	1303	847	790	20.03	835
	Total Uttarakhand	**1303**	**847**	**790**	**20.03**	**835**
Delhi	Rajghat TPS	135	101	95	2.58	108
	Delhi Gas Turbine	282	109	112	2.63	110
	Pragati Gas Turbine	330	291	301	7.37	307
	Rithala GPS	108	26	29	0.64	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	605	560	12.55	523
	Thermal (Total)	2000	1132	1097	25.78	1074
	Total Delhi	**2000**	**1132**	**1097**	**25.78**	**1074**
HP	Baspa HPS (IPP)	330	229	129	4.67	194
	Malana HPS (IPP)	101	51	44	1.12	47
	Other Hydro	571	516	423	11.89	495
	Total HP	**1002**	**796**	**596**	**18**	**736**
J & K	Baglihar HPS (IPP)	450	442	442	10.61	442
	Other Hydro	323	114	138	3.56	148
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**556**	**580**	**14.17**	591
Total State Control Area Generation		**27191**	**14677**	**14363**	**347.95**	**14062**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**3157**	**3193**	**70.86**	**2953**
Total Regional Availability(Gross)		**47816**	**33528**	**29675**	**730.45**	**30000**

IV. Total Hydro Generation:

Regional Entities Hydro	**9983**	**8607**	**4779**	**150.13**	**6255**
State Control Area Hydro	**5365**	**3333**	**2650**	**80.62**	**3359**
Total Regional Hydro	**15347**	**11940**	**7429**	**230.74**	**9614**

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	100	0	200	100	0.84	0.35	0.50
Gwalior-Agra (D/C)	900	885	1201	0	22.25	0.00	22.25
Zerda-Kankroli	186	252	305	29	3.35	0.00	3.35
Zerda-Bhinmal	177	237	319	66	3.55	0.00	3.55
Malanpur-Auraiya	-38	-34	0	25	0.00	0.44	-0.44
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	**1325**	**1340**			**29.99**	**0.79**	**29.20**
Pusauli Bypass	264	255	263	0	6.10	0.00	6.10
MZP- GKP (D/C)	543	848	910	0	16.09	0.00	16.09
Patna-Balia(D/C)	327	318	421	0	7.71	0.00	7.71
B'Sharif-Balia (D/C)	495	435	607	0	11.14	0.00	11.14
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	80	29	98	0	1.30	0.00	1.30
K'nasa-Sahupuri	158	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.67	-0.67
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1832**	**1853**			**42.33**	**0.67**	**41.66**
Total IR Exch	**3157**	**3193**			**72.32**	**1.46**	**70.86**

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
11.23	3.63	14.86	-1.67	12.62	-0.38	-2.22	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
12.81	9.49	22.30	41.66	29.20	70.86	28.85	19.71	48.56

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	0.30	7.00	48.70	93.00	51.30	1.70	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	18.03	49.09	21.05	49.70	1.09	0.14	50.00	49.57

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	425	08:59	420	03:21	0.0	0.0	100.0	0.0
Gorakhpur	400	435	01:23	412	18:52	0.0	0.0	58.8	7.2
Bareilly	400	422	08:00	404	05:29	0.0	0.0	1.2	0.0
Kanpur	400	421	09:00	407	19:42	0.0	0.0	0.3	0.0
Dadri	400	413	02:49	402	18:52	0.0	0.0	0.0	0.0
Ballabhgarh	400	419	18:02	405	19:11	0.0	0.0	0.0	0.0
Bawana	400	416	02:45	401	19:45	0.0	0.0	0.0	0.0
Bassi	400	421	02:48	403	09:38	0.0	0.0	0.2	0.0
Hissar	400	413	02:44	399	19:45	0.0	0.0	0.0	0.0
Moga	400	421	02:47	407	09:38	0.0	0.0	0.6	0.0
Abdullapur	400	414	02:44	396	19:09	0.0	0.0	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	415	02:45	400	19:16	0.0	0.0	0.0	0.0
Wagoora	400	407	02:44	391	09:40	0.0	0.0	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	511.99	1650.87	512.21	1650.87	641.18	784.94
Pong	426.72	384.05	423.67	1066.19	424.62	1114.45	191.00	332.95
Tehri	829.79	740.04	817.85	962.25	NA	NA	266.50	120.00
Koteshwar	612.50	598.50	608.90	3.98	NA	NA	120.00	140.00
Chamera-I	760.00	748.75	754.84	NA	NA	NA	218.67	329.50
Rihand	268.22	252.98	265.91	679.00	258.17	209.50	NA	NA
RPS	352.80	343.81	349.81	NA	349.13	NA	148.21	NA
Jawahar Sagar	298.70	295.78	297.82	NA	NA	NA	297.18	105.34
RSD	527.91	487.91	524.75	NA	524.07	NA	310.13	375.31

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.09.2011 :

Normal weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 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 : 25.09.2011 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**