

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.09.2011

Date of Reporting : 08.09.2011

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
33530	2436	35966	49.94	31445	650	32095	50.16	763.1	29.73

* 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 (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others	Total					
Punjab	48.22	16.62		64.84	97.24	97.30	0.05	162.14	1.80
Haryana	59.05	0.87		59.92	52.63	49.94	-2.69	109.86	5.77
Rajasthan	60.14	1.93	5.02	67.09	33.70	35.20	1.51	102.29	0.28
Delhi	22.05			22.05	66.94	64.67	-2.28	86.71	0.00
UP	60.12	14.56	0.00	74.67	139.48	142.32	2.84	216.99	21.08
Uttarakhand		20.44		20.44	8.64	9.46	0.82	29.90	0.80
HP		23.49		23.49	0.84	-0.88	-1.72	22.61	0.00
J & K		14.37	0.00	14.37	16.84	12.90	-3.95	27.27	0.00
Chandigarh				0.00	5.75	5.37	-0.38	5.37	0.00
Total	249.57	92.27	5.02	346.86	422.07	416.27	-5.80	763.13	29.73

* 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	7051	600	-201	1558	6629	0	55	1581	36.98	
Haryana	5149	310	23	596	4459	0	-5	596	13.55	
Rajasthan	4548	46	333	-445	4173	0	31	-508	-11.81	
Delhi	3968	0	-12	319	3080	0	-78	319	8.41	
UP	8877	1400	241	1573	10043	650	659	1573	37.76	
Uttarakhand	1297	80	22	-150	1160	0	12	-150	-3.60	
HP	1020	0	-37	-1287	814	0	-176	-1290	-30.76	
J&K	1367	0	-20	-375	914	0	-326	-245	-7.92	
Chandigarh	253	0	-5	30	173	0	-36	30	0.72	
Total	33530	2436	344	1819	31445	650	136	1907	43.33	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

A. NTPC	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
		Singrauli STPS	2000	1817	2037	1785	43.58	1816	43.44
	Rihand I STPS	1000	934	1032	937	21.37	890	21.44	-0.07
	Rihand II STPS	1000	480	519	514	11.03	460	11.11	-0.08
	Dadri I STPS	840	596	634	460	10.86	453	11.22	-0.36
	Dadri II STPS	980	970	1018	726	19.13	797	20.02	-0.89
	Unchahar I TPS	440	366	363	355	7.67	319	7.87	-0.21
	Unchahar II TPS	440	365	363	308	7.17	299	7.26	-0.10
	Unchahar III TPS	210	183	196	171	3.80	158	3.69	0.10
	ISTPP (Jhajjar)	500	470	418	410	8.80	367	7.90	0.90
	Dadri GPS	830	759	375	330	9.55	398	10.32	-0.77
	Anta GPS	419	389	254	230	5.22	218	5.51	-0.29
	Auraiya GPS	663	454	314	280	6.62	276	6.88	-0.26
	Sub Total (A)	9322	7783	7523	6506	154.78	6449	156.67	-1.89
B. NPC	NAPS	440	184	218	223	4.43	185	4.42	0.01
	RAPS- B	440	190	422	423	9.10	379	4.56	4.54
	RAPS- C	440	420	466	470	10.13	422	10.08	0.05
	Sub Total (B)	1320	794	1106	1116	23.66	986	19.06	4.60
C. NHPC	Chamera I HPS	540	534	540	540	12.30	513	12.82	-0.52
	Chamera II HPS	300	297	301	300	7.08	295	7.09	-0.02
	Bairasuil HPS	180	179	179	120	1.98	83	1.89	0.10
	Salal-HPS	690	627	625	625	14.52	605	15.04	-0.53
	Tanakpur-HPS	94	94	94	94	2.20	92	2.26	-0.06
	Uri-HPS	480	310	377	236	7.24	302	7.11	0.13
	Dhauliganga-HPS	280	254	280	280	7.10	296	5.08	2.02
	Dulhasti-HPS	390	387	410	154	8.45	352	9.14	-0.69
	Sewa-II HPS	120	119	121	0	1.60	67	1.70	-0.10
	Sub Total (C)	3074	2800	2927	2349	62.47	2603	62.13	0.34
D.NJPC	Natpha Jhakri	1500	1600	1607	1602	38.38	1599	38.40	-0.02
	Sub Total (D)	1500	1600	1607	1602	38.38	1599	38.40	-0.02
E. THDC	Tehri HPS	1000	985	792	921	22.78	949	23.00	-0.22
	Koteshwar HPS	100	87	89	87	2.15	90	2.05	0.10
	Sub Total (E)	1100	1072	881	1008	24.93	1039	25.05	-0.12
F. BBMB	Bhakra HPS	1480	1202	1233	1233	29.27	1220	28.85	0.42
	Dehar HPS	990	600	825	600	14.67	611	14.40	0.27
	Pong HPS	396	226	306	186	5.48	228	5.41	0.07
	Sub Total (F)	2866	2027	2364	2019	49.42	2059	48.66	0.76
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	100	89	2.05	85	2.32	-0.27
	KWHEP HPS(IPP)	500	0	700	700	13.81	575	14.27	-0.46
	Malana Stg-II HPS	50	0	0	0	1.69	70	0.00	1.69
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	892	0	800	879	17.55	731	16.58	0.96

H. Total Regional Entities (A-G)	20075	16077	17208	15479	371.17	15466	366.55	4.63
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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	1250.00	1080.00	26.03	1085
	Guru Nanak Dev TPS(Bhatinda)	440	202.00	197.00	4.17	174
	Guru Hargobind Singh TPS(L.mbt)	920	959.00	782.00	18.02	751
	Thermal (Total)	2620	2411.00	2059.00	48.22	2009
	Total Hydro	1148	626.00	696.00	16.62	692
	Total Punjab	3768	3037	2755	64.84	2702
Haryana	Panipat TPS	1360	1169.00	1075.00	26.69	1112
	DCRTPP (Yamuna nagar)	600	531.00	521.00	11.99	500
	Faridabad GPS (NTPC)	432	401.00	322.00	8.12	339
	RGTPP (Khedar) (IPP)	1200	377.00	518.00	12.25	510
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2478.00	2436.00	59.05	2461
	Total Hydro	62	32.00	32.00	0.87	36
		Total Haryana	3679	2510	2468	59.92
Rajasthan	kota TPS	1240	870.00	784.00	18.46	769
	suratgarh TPS	1500	1120.00	980.00	23.38	974
	Chabra TPS	500	194.00	244.00	4.95	206
	Dholpur GPS	330	276.00	275.00	6.42	268
	Ramgarh GPS	113	62.00	62.00	0.99	41
	RAPS A (NPC)	300	172.00	174.00	4.22	176
	Barsingar (NLC)	250	90.00	61.00	1.72	72
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0
	Rajwast LTPS (IPP)	135	0.00	0.00	0.00	0
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	2784.00	2580.00	60.14	2506
	Total Hydro	550	73.00	49.00	1.93	80
	Wind power	1294	207.00	112.00	4.61	192
	Biomass	71	18.00	18.00	0.40	17
	Renewable/Others (Total)	1365	225	130	5.02	209
	Total Rajasthan	6668	3082	2759	67.09	2795
UP	Anpara TPS	1630	861	919	19.70	821
	Obra TPS	1442	422	549	11.40	475
	Paricha TPS	640	401	391	8.60	358
	Panki TPS	210	65	60	1.20	50
	Harduaganj TPS	375	46	48	0.80	33
	Tanda TPS (NTPC)	440	281	222	6.56	273
	Roza TPS (IPP)	600	567	455	11.85	494
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	2643	2644	60.12	2505
	Vishnuparyag HPS (IPP)	400	436	436	10.01	417
	Other Hydro	527	288	0	4.55	190
	Cogeneration	951	0	0	0.00	0
		Total UP	7815	3367	3080	74.67
Uttarakhand	Total Hydro	1303	900	845	20.44	851
	Total Uttarakhand	1303	900	845	20.44	851
Delhi	Rajghat TPS	135	63	58	1.90	79
	Delhi Gas Turbine	282	73	75	1.93	81
	Pragati Gas Turbine	330	296	273	7.10	296
	Rithala GPS	108	26	29	0.66	28
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	500	475	10.46	436
	Thermal (Total)	2000	958	910	22.05	919
		Total Delhi	2000	958	910	22.05
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	88	78	1.91	80
	Other Hydro	571	574	578	13.66	569
		Total HP	1002	992	986	23
J & K	Baglihar HPS (IPP)	450	440	439	10.56	440
	Other Hydro	323	155	180	3.81	159
	Gas/Diesel/Others	183	0	0	0.00	0
		Total J & K	956	595	619	14.37
Total State Control Area Generation		27191	15441	14422	346.86	14036
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2300	2744	62.92	2622
Total Regional Availability(Gross)		47266	34949	32645	780.95	32123

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8579	7857	192.73	8031
State Control Area Hydro	5365	3506	3227	82.26	3428
Total Regional Hydro	14797	12085	11084	274.99	11458

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 MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	0	400	500	50	5.71	0.06	5.65
Gwalior-Agra (D/C)	761	1049	1266	0	24.04	0.00	24.04
Zerda-Kankroli	51	0	179	44	0.90	0.00	0.90
Zerda-Bhinmal	145	397	404	27	5.30	0.00	5.30
Malanpur-Auraiya	4	-68	15	116	-1.34	0.00	-1.34
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	961	1778			34.61	0.06	34.55
Pusauli Bypass	-72	-167	40	321	0.22	3.53	-3.32
MZP- GKP (D/C)	716	628	994	0	16.34	0.00	16.34
Patna-Balia(D/C)	124	181	244	0	3.78	0.00	3.78
B'Sharif-Balia (D/C)	265	213	405	0	5.95	0.00	5.95
Barh - balia(D/C)	202	0	265	0	2.44	0.00	2.44
Pusauli-Sahupuri	140	143	186	0	3.93	0.00	3.93
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	38	0.00	0.75	-0.75
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1339	966			32.65	4.29	28.37
Total IR Exch	2300	2744			67.26	4.35	62.92

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
18.62	2.49	21.11	8.87	35.12	-2.15	6.08	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
27.83	40.72	68.55	28.37	34.55	62.92	0.54	-6.17	-5.63

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	1.40	4.90	88.10	84.60	62.30	10.50

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.42	13.02	49.32	19.16	50.02	0.29	0.17	50.40	0.00

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	415	11:04	406	00:17	0.0	0.0	0.0	0.0
Gorakhpur	400	429	17:18	412	11:49	0.0	0.0	53.9	0.0
Bareilly	400	415	08:00	393	14:18	0.0	0.0	0.0	0.0
Kanpur	400	416	09:00	402	11:55	0.0	0.0	0.0	0.0
Dadri	400	412	04:09	398	14:17	0.0	0.0	0.0	0.0
Ballabgarh	400	417	03:36	400	14:14	0.0	0.0	0.0	0.0
Bawana	400	413	03:42	398	15:26	0.0	0.0	0.0	0.0
Bassi	400	421	03:37	397	14:17	0.0	0.0	1.9	0.0
Hissar	400	412	03:35	398	14:14	0.0	0.0	0.0	0.0
Moga	400	420	03:47	405	14:15	0.0	0.0	0.0	0.0
Abdullapur	400	406	03:36	283	23:44	0.1	0.1	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	414	23:44	399	08:40	0.0	0.0	0.0	0.0
Wagoora	400	412	03:49	388	19:14	0.0	5.2	0.0	0.0

VIII. Reservoir Parameters:

Name of Reservoir	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	500.50	1114.30	498.74	1041.47	1237.78	767.10
Pong	426.72	384.05	415.47	693.24	406.09	370.28	668.50	333.71
Tehri	829.79	740.04	788.70	425.68	NA	NA	624.16	526.00
Koteshwar	612.50	598.50	606.90	3.10	NA	NA	526.00	132.00
Chamera-I	760.00	748.75	751.07	12.30	752.00	NA	265.13	297.67
Rihand	268.22	252.98	259.08	255.50	256.28	127.50	NA	NA
RPS	352.80	343.81	346.44	NA	NA	NA	246.70	0.00
Jawahar Sagar	298.70	295.78	297.27	NA	NA	NA	88.80	230.56
RSD	527.91	487.91	508.31	NA	515.85	NA	275.21	255.73

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 07.09.2011 :

1 :Partial Rains in NCR region , HP , J & K , Uttaranchal and east UP.

XII. Synchronisation of new generating units :

1. KWHEP (JP) UNIT -3 (250 MW) Declared commercial w.e.f 00:00 hrs / 08-09-2011.

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 : 07.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER