

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.09.2011
Date of Reporting : 13.09.2011

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
32634	2941	35575	49.48	28672	1050	29722	50.12	727.7	32.09

* 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:

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	60.96	18.23		79.19	88.00	85.30	-2.70	164.49	1.80
Haryana	52.10	0.82		52.92	49.23	45.07	-4.16	97.99	2.98
Rajasthan	64.88	3.24	6.47	74.59	32.33	29.11	-3.22	103.70	0.88
Delhi	18.51			18.51	72.47	69.79	-2.68	88.30	0.00
UP	43.58	17.69	0.60	61.86	128.12	129.96	1.83	191.82	25.94
Uttarakhand		19.54		19.54	8.12	8.61	0.49	28.15	0.49
HP		23.63		23.63	-0.19	-1.32	-1.13	22.31	0.00
J & K		13.58	0.00	13.58	16.80	12.29	-4.52	25.86	0.00
Chandigarh				0.00	5.98	5.09	-0.89	5.09	0.00
Total	240.03	96.73	7.07	343.83	400.86	383.89	-16.97	727.72	32.09

* Shortage furnished by the respective constituent.

II. B. State's Demand Met in MWs:

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	6462	600	-232	1184	5472	0	-23	1247	-28.73	
Haryana	4640	598	15	562	3761	0	-217	562	12.63	
Rajasthan	4737	203	25	-445	4195	0	-55	-508	-11.81	
Delhi	4145	0	-18	329	3145	0	-73	329	8.65	
UP	8841	1300	-191	1575	9369	1050	307	1558	37.77	
Uttarakhand	1138	240	-126	-200	1068	0	91	-200	-4.80	
HP	1052	0	-34	-1421	752	0	-125	-1394	-33.38	
J&K	1364	0	-9	-375	751	0	-472	-275	-8.10	
Chandigarh	255	0	-15	30	159	0	-61	30	0.72	
Total	32634	2941	-585	1239	28672	1050	-628	1350	30.41	

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

III. Regional Entities :

Entity	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
A. NTPC	Singrauli STPS	2000	1360	1559	1475	33.14	1381	32.33	0.81
	Rihand I STPS	1000	945	1041	1014	22.52	939	22.12	0.40
	Rihand II STPS	1000	480	518	517	11.43	476	11.25	0.18
	Dadri I STPS	840	799	809	615	16.56	690	16.60	-0.04
	Dadri II STPS	980	970	963	723	20.77	865	20.65	0.12
	Unchahar I TPS	440	395	447	339	9.03	376	9.19	-0.16
	Unchahar II TPS	440	252	432	160	5.77	240	5.78	-0.01
	Unchahar III TPS	210	194	216	165	4.41	184	4.45	-0.05
	ISTPP (Jhajjar)	500	470	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	752	371	360	8.29	345	8.71	-0.42
	Anta GPS	419	389	390	238	6.69	279	6.41	0.27
	Auraiya GPS	663	627	452	277	8.17	341	8.64	-0.47
	Sub Total (A)	9322	7633	7198	5883	146.78	6116	146.16	0.62
	B. NPC	NAPS	440	184	217	224	4.46	186	4.42
RAPS- B		440	197	216	218	4.63	193	4.73	-0.10
RAPS- C		440	420	468	775	10.12	422	10.08	0.04
Sub Total (B)		1320	801	901	1217	19.21	800	19.22	-0.02
C. NHPC	Chamera I HPS	540	534	540	540	12.48	520	12.39	0.09
	Chamera II HPS	300	297	302	298	7.14	298	7.15	-0.01
	Bairasuil HPS	180	97	120	60	1.83	76	1.93	-0.10
	Salal-HPS	690	627	625	625	14.96	623	15.05	-0.09
	Tanakpur-HPS	94	94	95	94	2.23	93	2.24	-0.01
	Uri-HPS	480	312	360	259	7.88	328	7.44	0.45
	Dhauliganga-HPS	280	277	280	278	6.77	282	6.70	0.07
	Dulhasti-HPS	390	387	410	191	8.99	375	8.71	0.28
	Sewa-II HPS	120	119	125	121	2.37	99	2.31	0.06
	Sub Total (C)	3074	2743	2857	2466	64.65	2694	63.91	0.74
D. NJPC	Nathpa Jhakri	1500	1610	1661	1607	38.40	1600	38.64	-0.24
	Sub Total (D)	1500	1610	1661	1607	38.40	1600	38.64	-0.24
E. THDC	Tehri HPS	1000	1060	1057	917	24.85	1036	24.75	0.10
	Koteshwar HPS	100	87	92	88	2.11	88	2.10	0.01
Sub Total (E)	1100	1147	1149	1005	26.97	1124	26.85	0.12	
F. BBMB	Bhakra HPS	1480	1227	1255	1255	30.14	1256	29.45	0.69
	Dehar HPS	990	584	825	620	14.61	609	14.03	0.58
	Pong HPS	396	237	306	186	6.02	251	5.69	0.33
	Sub Total (F)	2866	2049	2386	2061	50.77	2115	49.17	1.60
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	82	101	2.32	97	1.91	0.41
	KWHEP HPS(IPP)	1000	0	700	700	16.87	703	16.80	0.07
	Malana Stg-II HPS	100	0	92	86	1.84	77	0.00	1.84
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1442	0	874.24	887	21.02	876	18.70	2.32

H. Total Regional Entities (A-G)	20625	15983	17026	15126	367.79	15325	362.66	5.14
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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	1045.00	740.00	20.76	865
	Guru Nanak Dev TPS(Bhatinda)	440	108.00	108.00	21.46	894
	Guru Hargobind Singh TPS(L.mbt)	920	932.00	612.00	18.74	781
	Thermal (Total)	2620	2085.00	1460.00	60.96	2540
	Total Hydro	1148	940.00	669.00	18.23	760
	Total Punjab	3768	3025	2129	79.19	3300
Haryana	Panipat TPS	1360	750.00	741.00	17.79	741
	DCRTPP (Yamuna nagar)	600	510.00	264.00	10.38	433
	Faridabad GPS (NTPC)	432	190.00	195.00	4.68	195
	RGTPP (khedar) (IPP)	1200	890.00	824.00	19.24	802
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2340.00	2024.00	52.10	2171
	Total Hydro	62	32.00	29.00	0.82	34
		Total Haryana	3679	2372	2053	52.92
Rajasthan	kota TPS	1240	864.00	845.00	20.42	851
	suratgarh TPS	1500	1105.00	1162.00	26.10	1087
	Chabra TPS	500	229.00	225.00	5.21	217
	Dholpur GPS	330	263.00	277.00	6.34	264
	Ramgarh GPS	113	62.00	62.00	1.60	67
	RAPS A (NPC)	300	179.00	204.00	4.20	175
	Barsingar (NLC)	250	65.00	69.00	1.02	42
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0
	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	2767.00	2844.00	64.88	2703
	Total Hydro	550	182.00	50.00	3.24	135
	Wind power	1294	370.00	22.00	6.04	252
	Biomass	71	18.00	18.00	0.43	18
	Renewable/Others (Total)	1365	388	40	6.47	270
		Total Rajasthan	6668	3337	2934	74.59
UP	Anpara TPS	1630	1343	1253	8.00	333
	Obra TPS	1442	446	391	7.20	300
	Paricha TPS	640	30	346	8.50	354
	Panki TPS	210	59	63	1.30	54
	Harduaganj TPS	375	94	36	1.90	79
	Tanda TPS (NTPC)	440	284	231	6.58	274
	Roza TPS (IPP)	600	463	374	10.09	421
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	2719	2694	43.58	1816
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	356	0	7.23	301
	Cogeneration	951	25	25	0.60	25
		Total UP	7815	3536	3155	61.86
Uttarakhand	Total Hydro	1303	921	659	19.54	814
	Total Uttarakhand	1303	921	659	19.54	814
Delhi	Rajghat TPS	135	104	0	1.60	66
	Delhi Gas Turbine	282	109	110	2.61	109
	Pragati Gas Turbine	330	292	299	7.16	298
	Rithala GPS	108	26	29	0.62	26
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	335	315	6.53	272
	Thermal (Total)	2000	866	753	18.51	771
	Total Delhi	2000	866	753	18.51	771
HP	Baspa HPS (IPP)	330	332	332	7.86	327
	Malana HPS (IPP)	101	90	91	1.96	82
	Other Hydro	571	584	573	13.81	576
	Total HP	1002	1006	996	24	985
J & K	Baqilhar HPS (IPP)	450	442	441	10.20	425
	Other Hydro	323	119	166	3.38	141
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	561	607	13.58	566
Total State Control Area Generation		27191	15624	13286	343.83	13890
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1592	1795	43.40	1808
Total Regional Availability(Gross)		47816	34242	30207	755.02	31024

IV. Total Hydro Generation:

Regional Entities Hydro	9983	8927	8026	201.81	8409
State Control Area Hydro	5365	3998	3010	86.28	3595
Total Regional Hydro	15347	12925	11036	288.08	12003

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	-100	500	500	1.40	2.47	-1.07
Gwalior-Agra (D/C)	156	643	759	0	11.57	0.00	11.57
Zerda-Kankroli	-105	0	228	203	0.00	0.60	-0.60
Zerda-Bhinmal	-63	109	230	266	0.00	0.99	-0.99
Malanpur-Auraiya	-133	11	0	136	0.00	0.79	-0.79
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	-145	663			12.97	4.85	8.12
Pusaali Bypass	-67	-154	254	0	3.15	0.00	3.15
MZP- GKP (D/C)	974	792	1014	0	18.72	0.00	18.72
Patna-Balia(D/C)	218	158	240	0	4.07	0.00	4.07
B'Sharif-Balia (D/C)	504	216	544	0	6.39	0.00	6.39
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusaali-Sahupuri	144	152	167	0	3.52	0.00	3.52
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	38	0.00	0.57	-0.57
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1737	1132			35.85	0.57	35.28
Total IR Exch	1592	1795			48.82	5.42	43.40

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
21.64	3.85	25.49	3.70	27.63	-1.71	-3.41	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
27.48	23.33	50.81	35.28	8.12	43.40	7.80	-15.20	-7.40

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	0.90	2.40	8.00	22.20	91.40	77.20	22.00	0.60

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.39	13.05	48.83	20.09	49.83	0.81	0.23	50.22	49.08

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	416	18:07	408	16:36	0.0	0.0	0.0	0.0
Gorakhpur	400	433	07:54	411	22:16	0.0	0.0	45.6	4.2
Bareilly	400	419	08:00	394	18:51	0.0	0.0	0.0	0.0
Kanpur	400	419	09:00	400	15:17	0.0	0.0	0.0	0.0
Dadri	400	411	03:43	395	15:21	0.0	0.0	0.0	0.0
Ballabgarh	400	417	03:47	402	09:45	0.0	0.0	0.0	0.0
Bawana	400	413	03:47	396	15:22	0.0	0.0	0.0	0.0
Bassi	400	427	03:42	404	14:27	0.0	0.0	30.4	0.0
Hissar	400	413	03:47	397	18:50	0.0	0.0	0.0	0.0
Moga	400	421	03:44	406	18:56	0.0	0.0	1.6	0.0
Abdullapur	400	407	03:44	274	15:24	0.3	0.3	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	419	03:47	402	19:10	0.0	0.0	0.0	0.0
Wagoora	400	412	03:54	386	19:14	0.0	7.1	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	512.16	1650.87	512.12	1650.87	1153.43	912.14
Pong	426.72	384.05	423.17	1035.89	423.83	1082.23	577.72	333.43
Tehri	829.79	740.04	817.50	962.00	NA	NA	413.75	557.00
Koteshwar	612.50	598.50	609.00	3.98	NA	NA	613.00	138.00
Chamera-I	760.00	748.75	757.00	12.38	756.69	NA	316.06	338.05
Rihand	268.22	252.98	265.54	652.40	257.19	165.90	NA	NA
RPS	352.80	343.81	349.14	NA	349.41	NA	23.76	NA
Jawahar Sagar	298.70	295.78	298.00	NA	297.27	NA	44.46	NA
RSD	527.91	487.91	524.41	NA	523.83	NA	364.61	322.25

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.09.2011 :
Normal weather in Northern Region.

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 : 12.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER