

पाँवर सिस्टम ऑपरेशन कापोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.09.2011
Date of Reporting : 14.09.2011

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
33717	3039	36756	49.35	31639	780	32419	50.06	768.6	30.14

* 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	47.46	19.74		67.21	93.76	89.07	-4.70	156.27	1.80
Haryana	54.93	0.84		55.78	46.78	49.92	3.14	105.70	2.26
Rajasthan	66.08	2.81	4.05	72.93	34.35	35.93	1.57	108.86	1.67
Delhi	20.64			20.64	75.06	71.51	-3.56	92.15	0.00
UP	66.19	18.62	0.60	85.41	130.82	137.24	6.41	222.65	23.32
Uttarakhand		19.01		19.01	8.35	9.74	1.39	28.75	1.09
HP		23.57		23.57	-0.26	-0.93	-0.67	22.64	0.00
J & K		13.58	0.00	13.58	16.80	12.68	-4.12	26.26	0.00
Chandigarh				0.00	5.80	5.37	-0.43	5.37	0.00
Total	255.30	98.17	4.65	358.13	411.47	410.51	-0.96	768.64	30.14

* 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	6943	600	-19	1184	6390	0	-243	1247	28.73	
Haryana	4590	710	41	562	4559	0	527	562	12.63	
Rajasthan	4741	254	233	-445	4551	0	-21	-508	-11.81	
Delhi	4335	0	-10	329	3403	0	-188	329	8.65	
UP	9170	1315	191	1575	9725	780	480	1575	37.80	
Uttarakhand	1251	160	92	-200	1165	0	-96	-200	-4.80	
HP	1047	0	-33	-1421	799	0	-118	-1411	-33.40	
J&K	1386	0	-6	-375	874	0	-328	-275	-8.10	
Chandigarh	254	0	-13	30	173	0	-35	30	0.72	
Total	33717	3039	476	1239	31639	780	-22	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)	UI (OG:(+ve), UG: (-ve))	
								Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1446	1607	1533	35.47	1478	34.69	0.78
	Rihand I STPS	1000	944	1038	1036	22.83	951	22.64	0.19
	Rihand II STPS	1000	480	517	514	11.58	483	11.51	0.07
	Dadri I STPS	840	796	873	629	17.52	730	17.37	0.15
	Dadri II STPS	980	970	1020	795	21.54	897	21.59	-0.05
	Unchahar I TPS	440	400	427	438	9.39	391	9.48	-0.10
	Unchahar II TPS	440	397	440	426	9.32	388	9.30	0.02
	Unchahar III TPS	210	198	216	217	4.71	196	4.69	0.02
	ISTPP (Jhajjar)	500	470	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	716	547	332	9.83	410	10.39	-0.56
	Anta GPS	419	389	386	401	8.30	346	7.13	1.18
	Auraiya GPS	663	617	461	440	10.38	433	10.58	-0.20
	Sub Total (A)	9322	7822	7532	6761	160.87	6703	159.36	1.50
	B. NPC	NAPS	440	186	226	224	4.45	186	4.46
RAPS- B		440	197	216	217	4.61	192	4.73	-0.12
RAPS- C		440	420	469	475	10.13	422	10.08	0.05
Sub Total (B)		1320	803	911	916	19.19	799	19.27	-0.08
C. NHPC	Chamera I HPS	540	534	540	540	12.82	534	12.82	0.00
	Chamera II HPS	300	297	301	300	7.17	299	7.19	-0.02
	Bairasuil HPS	180	142	179	60	1.93	80	1.83	0.10
	Salal-HPS	690	627	625	625	14.95	623	15.05	-0.10
	Tanakpur-HPS	94	91	95	95	2.28	95	2.24	0.03
	Uri-HPS	480	313	449	308	7.98	332	7.91	0.07
	Dhauliganga-HPS	280	277	280	280	6.71	280	6.77	-0.06
	Dulhasti-HPS	390	387	412	411	9.37	390	8.97	0.39
	Sewa-II HPS	120	119	122	40	1.69	70	1.66	0.03
	Sub Total (C)	3074	2787	3003	2659	64.87	2703	64.44	0.43
D. NJPC	Nathpa Jhakri	1500	1600	1605	1611	38.23	1593	38.40	-0.17
	Sub Total (D)	1500	1600	1605	1611	38.23	1593	38.40	-0.17
E. THDC	Tehri HPS	1000	963	1049	916	23.14	964	22.80	0.34
	Koteswar HPS	100	89	92	88	2.11	88	2.10	0.01
Sub Total (E)	1100	1052	1141	1004	25.26	1052	24.90	0.35	
F. BBMB	Bhakra HPS	1480	1227	1255	1255	30.18	1258	29.45	0.73
	Dehar HPS	990	586	825	580	14.58	608	14.06	0.53
	Pong HPS	396	239	306	186	6.00	250	5.74	0.26
	Sub Total (F)	2866	2052	2386	2021	50.76	2115	49.24	1.52
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	83	83	1.99	83	1.91	0.08
	KWHEP HPS(IPP)	1000	0	700	700	16.81	700	16.80	0.01
	Malana Stg-II HPS	100	0	92	86	1.83	76	0.00	1.83
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1442	0	875.24	869	20.63	860	18.70	1.92

H. Total Regional Entities (A-G)	20625	16116	17453	15841	379.79	15825	374.32	5.47
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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	1255.00	24.21	1009
	Guru Nanak Dev TPS(Bhatinda)	440	108.00	108.00	2.27	94
	Guru Hargobind Singh TPS(L.mbt)	920	945.00	948.00	20.98	874
	Thermal (Total)	2620	2098.00	2311.00	47.46	1978
	Total Hydro	1148	1025.00	670.00	19.74	823
	Total Punjab	3768	3123	2981	67.21	2800
Haryana	Panipat TPS	1360	748.00	756.00	17.77	740
	DCRTPP (Yamuna nagar)	600	533.00	509.00	11.66	486
	Faridabad GPS (NTPC)	432	186.00	195.00	4.58	191
	RGTPP (khedar) (IPP)	1200	863.00	695.00	20.92	872
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2330.00	2155.00	54.93	2289
	Total Hydro	62	31.00	32.00	0.84	35
	Total Haryana	3679	2361	2187	55.78	2324
	Rajasthan	kota TPS	1240	873.00	871.00	20.24
suratgarh TPS		1500	1121.00	1130.00	26.45	1102
Chabra TPS		500	225.00	224.00	5.39	225
Dholpur GPS		330	271.00	275.00	6.36	265
Ramgarh GPS		113	62.00	62.00	1.62	68
RAPS A (NPC)		300	182.00	192.00	4.31	180
Barsingar (NLC)		250	81.00	55.00	1.70	71
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	2815.00	2809.00	66.08	2753
Total Hydro		550	164.00	136.00	2.81	117
Wind power		1294	30.00	104.00	3.62	151
Biomass		71	18.00	18.00	0.43	18
Renewable/Others (Total)		1365	48	122	4.05	169
Total Rajasthan		6668	3027	3067	72.93	3039
UP		Anpara TPS	1630	1302	1217	29.70
	Obra TPS	1442	572	542	13.30	554
	Paricha TPS	640	354	356	8.60	358
	Panki TPS	210	0	56	0.40	17
	Harduaganj TPS	375	40	38	0.90	38
	Tanda TPS (NTPC)	440	281	284	6.89	287
	Roza TPS (IPP)	600	279	279	6.40	267
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	2828	2772	66.19	2758
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	363	0	8.17	340
	Cogeneration	951	25	25	0.60	25
	Total UP	7815	3652	3233	85.41	3123
Uttarakhand	Total Hydro	1303	780	924	19.01	792
	Total Uttarakhand	1303	780	924	19.01	792
Delhi	Rajghat TPS	135	90	95	1.93	80
	Delhi Gas Turbine	282	107	111	2.52	105
	Pragati Gas Turbine	330	290	300	7.12	297
	Rithala GPS	108	26	29	0.58	24
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	515	330	8.50	354
	Thermal (Total)	2000	1028	865	20.64	860
	Total Delhi	2000	1028	865	20.64	860
HP	Baspa HPS (IPP)	330	330	330	7.93	330
	Malana HPS (IPP)	101	90	85	1.88	79
	Other Hydro	571	574	574	13.76	573
	Total HP	1002	994	989	24	982
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	15526	14853	358.13	14486
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2465	1244	47.03	1960
Total Regional Availability(Gross)		47816	35444	31938	784.95	32271

IV. Total Hydro Generation:

Regional Entities Hydro	9983	9010	8164	199.74	8322
State Control Area Hydro	5365	3918	3358	87.72	3655
Total Regional Hydro	15347	12928	11522	287.46	11977

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	-200	0	500	0.00	4.36	-4.36
Gwalior-Agra (D/C)	433	462	955	0	14.13	0.00	14.13
Zerda-Kankroli	40	-2	220	169	0.28	0.60	-0.32
Zerda-Bhinmal	55	33	256	112	1.19	0.00	1.19
Malanpur-Auraiya	-41	-55	95	0	0.75	0.00	0.75
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	487	238			16.35	4.96	11.39
Pusaui Bypass	192	-263	192	269	0.97	2.04	-1.07
MZP- GKP (D/C)	1016	590	1248	0	19.79	0.00	19.79
Patna-Balia(D/C)	394	149	436	0	5.46	0.00	5.46
B'Sharif-Balia (D/C)	286	396	677	0	8.54	0.00	8.54
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	126	166	172	0	3.49	0.00	3.49
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	1978	1006			38.25	2.61	35.64
Total IR Exch	2465	1244			54.60	7.57	47.03

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
22.52	3.78	26.30	3.70	25.65	-1.32	-3.57	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
28.68	21.26	49.93	35.64	11.39	47.03	6.96	-9.86	-2.90

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	0.40	6.30	26.40	93.70	83.60	10.30	0.00

<----- 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				
50.20	18.01	49.10	19.07	49.80	0.74	0.18	50.15	49.21

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	417	17:28	408	22:15	0.0	0.0	0.0	0.0
Gorakhpur	400	435	07:36	10	20:35	0.1	0.1	35.8	4.9
Bareilly	400	420	08:00	390	12:29	0.0	0.0	0.0	0.0
Kanpur	400	419	09:00	396	12:28	0.0	0.0	0.0	0.0
Dadri	400	412	07:32	391	14:23	0.0	0.0	0.0	0.0
Ballabgarh	400	411	18:05	404	09:45	0.0	0.0	0.0	0.0
Bawana	400	414	04:00	391	14:35	0.0	0.0	0.0	0.0
Bassi	400	432	03:33	402	12:28	0.0	0.0	40.8	1.9
Hissar	400	412	03:31	391	14:39	0.0	0.0	0.0	0.0
Moga	400	421	03:34	401	14:23	0.0	0.0	0.2	0.0
Abdullapur	400	407	03:04	245	12:21	0.2	0.3	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	418	03:33	401	19:05	0.0	0.0	0.0	0.0
Wagoora	400	411	03:05	384	19:05	0.0	7.4	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	512.23	1667.20	512.34	1667.20	1161.78	913.44
Pong	426.72	384.05	423.24	1051.02	408.28	435.19	536.58	334.39
Tehri	829.79	740.04	817.65	962.25	NA	NA	475.64	518.00
Koteshwar	612.50	598.50	609.00	3.98	NA	NA	613.00	138.00
Chamera-I	760.00	748.75	756.70	12.81	756.20	NA	305.32	347.54
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 13.09.2011 :
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 : 13.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER