

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.09.2011
Date of Reporting : 09.09.2011

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
32505	2164	34669	49.75	30434	1030	31464	50.30	747.8	26.53

* 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	50.53	17.59		68.11	96.34	97.41	1.07	165.52	1.80
Haryana	67.63	0.79		68.41	47.19	41.07	-6.12	109.48	0.00
Rajasthan	57.59	2.21	3.40	63.21	33.60	37.26	3.65	100.46	0.29
Delhi	22.17			22.17	68.97	64.20	-4.76	86.38	0.13
UP	60.55	15.54	0.00	76.09	139.76	129.07	-10.69	205.16	22.74
Uttarakhand		21.67		21.67	8.58	6.40	-2.18	28.07	0.37
HP		23.55		23.55	1.33	-2.35	-3.68	21.19	0.00
J & K		13.98	0.00	13.98	18.08	12.26	-5.82	26.24	1.20
Chandigarh				0.00	5.70	5.31	-0.39	5.31	0.00
Total	258.46	95.31	3.40	357.18	419.54	390.63	-28.91	747.81	26.53

* 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	6755	600	-265	1558	6778	0	333	1581	37.18	
Haryana	5228	0	-198	596	4480	0	-167	469	13.07	
Rajasthan	4209	114	-103	-445	4174	0	319	-508	-11.81	
Delhi	3922	0	-214	329	3020	0	-190	329	8.62	
UP	8687	1300	-203	1573	9138	1030	-519	1573	37.76	
Uttarakhand	1257	150	-69	-200	1061	0	-197	-200	-4.80	
HP	880	0	-165	-1212	785	0	-247	-1237	-29.29	
J&K	1314	0	-106	-275	817	0	-499	-175	-5.70	
Chandigarh	253	0	-8	30	181	0	-20	30	0.72	
Total	32505	2164	-1331	1954	30434	1030	-1187	1863	45.75	

* 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 Net MU
A. NTPC	Singrauli STPS	2000	1885	2018	1472	40.84	1702	40.51	0.34
	Rihand I STPS	1000	950	1040	898	20.64	860	20.70	-0.06
	Rihand II STPS	1000	480	516	444	10.54	439	10.37	0.16
	Dadri I STPS	840	596	658	475	11.72	488	11.89	-0.18
	Dadri II STPS	980	970	1033	763	20.28	845	20.49	-0.20
	Unchahar I TPS	440	341	357	335	7.22	301	7.48	-0.26
	Unchahar II TPS	440	358	360	304	6.98	291	7.39	-0.41
	Unchahar III TPS	210	175	186	165	3.58	149	3.62	-0.04
	ISTPP (Jhajjar)	500	470	0	462	3.60	150	4.84	-1.24
	Dadri GPS	830	795	566	491	10.97	457	11.21	-0.24
	Anta GPS	419	389	250	234	5.65	236	5.62	0.03
	Auraiya GPS	663	458	310	281	6.77	282	6.70	0.07
	Sub Total (A)	9322	7867	7294	6324	148.79	6200	150.82	-2.03
	B. NPC	NAPS	440	184	223	233	4.53	189	4.42
RAPS- B		440	190	215	218	4.62	193	4.56	0.06
RAPS- C		440	420	459	474	10.12	422	10.08	0.04
Sub Total (B)		1320	794	897	925	19.27	803	19.06	0.22
C. NHPC	Chamera I HPS	540	534	540	540	12.71	529	12.82	-0.11
	Chamera II HPS	300	297	301	294	7.11	296	7.12	-0.02
	Bairasuil HPS	180	179	179	0	1.95	81	1.85	0.10
	Salal-HPS	690	627	625	625	15.01	626	15.05	-0.03
	Tanakpur-HPS	94	94	94	93	2.25	94	2.24	0.00
	Uri-HPS	480	308	360	235	6.96	290	7.36	-0.40
	Dhauliganga-HPS	280	277	280	280	6.70	279	6.46	0.24
	Dulhasti-HPS	390	387	409	152	8.53	355	8.50	0.02
	Sewa-II HPS	120	119	126	0	1.35	56	1.33	0.02
	Sub Total (C)	3074	2821	2914	2219	62.55	2606	62.74	-0.18
D. NJPC	Nathpa Jhakri	1500	1600	1601	1598	38.36	1598	38.39	-0.03
	Sub Total (D)	1500	1600	1601	1598	38.36	1598	38.39	-0.03
E. THDC	Tehri HPS	1000	1060	1061	916	24.72	1030	24.75	-0.03
	Koteshwar HPS	100	71	88	81	1.82	76	1.66	0.16
Sub Total (E)	1100	1131	1149	997	26.54	1106	26.41	0.13	
F. BBMB	Bhakra HPS	1480	1202	1233	1233	29.61	1234	28.85	0.76
	Dehar HPS	990	600	825	600	14.68	612	14.40	0.29
	Pong HPS	396	254	306	246	6.35	265	6.11	0.24
	Sub Total (F)	2866	2056	2364	2079	50.64	2110	49.35	1.29
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	100	83	2.03	84	2.32	-0.29
	KWHEP HPS(IPP)	500	0	600	600	13.86	578	14.40	-0.53
	Malana Stg-II HPS	50	0	88	90	2.05	85	0.00	2.05
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	892	0	788	773	17.94	747	16.71	1.22

H. Total Regional Entities (A-G)	20075	16269	17007	14915	364.09	15170	363.48	0.61
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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	1030.00	26.62	1109
	Guru Nanak Dev TPS(Bhatinda)	440	180.00	202.00	4.15	173
	Guru Hargobind Singh TPS(L.mbt)	920	947.00	766.00	19.76	823
	Thermal (Total)	2620	2377.00	1998.00	50.53	2105
	Total Hydro	1148	801.00	679.00	17.59	733
	Total Punjab	3768	3178	2677	68.11	2838
Haryana	Panipat TPS	1360	1174.00	1167.00	27.81	1159
	DCRTPP (Yamuna nagar)	600	463.00	529.00	11.83	493
	Faridabad GPS (NTPC)	432	396.00	322.00	8.13	339
	RGTPP (khedar) (IPP)	1200	930.00	610.00	19.85	827
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2963.00	2628.00	67.63	2818
	Total Hydro	62	31.00	32.00	0.79	33
	Total Haryana	3679	2994	2660	68.41	2850
	Rajasthan	kota TPS	1240	744.00	599.00	13.92
suratgarh TPS		1500	1130.00	978.00	25.03	1043
Chabra TPS		500	225.00	200.00	5.30	221
Dholpur GPS		330	266.00	255.00	6.29	262
Ramgarh GPS		113	62.00	62.00	0.99	41
RAPS A (NPC)		300	178.00	176.00	4.26	178
Barsingar (NLC)		250	72.00	77.00	1.80	75
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	2677.00	2347.00	57.59	2400
Total Hydro		550	146.00	48.00	2.21	92
Wind power		1294	51.00	80.00	2.97	124
Biomass		71	19.00	19.00	0.43	18
Renewable/Others (Total)		1365	70	99	3.40	142
Total Rajasthan		6668	2893	2494	63.21	2634
UP		Anpara TPS	1630	1132	862	20.10
	Obra TPS	1442	438	449	9.80	408
	Paricha TPS	640	393	399	8.20	342
	Panki TPS	210	56	70	1.30	54
	Harduaganj TPS	375	44	48	0.90	38
	Tanda TPS (NTPC)	440	292	277	7.13	297
	Roza TPS (IPP)	600	567	554	13.12	547
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	2922	2659	60.55	2523
	Vishnuparyag HPS (IPP)	400	436	436	10.45	436
	Other Hydro	527	238	0	5.09	212
	Cogeneration	951	0	0	0.00	0
	Total UP	7815	3596	3095	76.09	2735
	Uttarakhand	Total Hydro	1303	946	894	21.67
Total Uttarakhand		1303	946	894	21.67	903
Delhi	Rajghat TPS	135	63	64	1.51	63
	Delhi Gas Turbine	282	73	74	1.88	78
	Pragati Gas Turbine	330	295	270	7.25	302
	Rithala GPS	108	26	29	0.57	24
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	580	480	10.96	457
	Thermal (Total)	2000	1037	917	22.17	924
	Total Delhi	2000	1037	917	22.17	924
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	95	79	1.91	80
	Other Hydro	571	564	585	13.71	571
	Total HP	1002	989	994	24	981
J & K	Baqilhar HPS (IPP)	450	440	438	10.60	441
	Other Hydro	323	119	166	3.38	141
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	559	604	13.98	582
Total State Control Area Generation		27191	16192	14335	357.18	14447
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			620	2245	44.60	1858
Total Regional Availability(Gross)		47266	33819	31495	765.87	31476

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8816	7666	196.02	8168
State Control Area Hydro	5365	3710	3251	84.86	3536
Total Regional Hydro	14797	12526	10917	280.88	11703

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	-500	300	300	500	2.09	2.84	-0.75
Gwalior-Agra (D/C)	359	767	1173	0	18.39	0.00	18.39
Zerda-Kankroli	-67	93	218	130	1.52	0.00	1.52
Zerda-Bhinmal	-7	173	232	78	2.51	0.00	2.51
Malanpur-Auraiya	-93	15	0	121	0.75	0.00	0.75
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	-308	1348			25.25	2.84	22.41
Pusaali Bypass	-98	-120	95	187	0.15	2.71	-2.56
MZP- GKP (D/C)	497	480	609	0	11.59	0.00	11.59
Patna-Balia(D/C)	84	87	161	0	2.18	0.00	2.18
B'Sharif-Balia (D/C)	190	208	305	0	4.52	0.00	4.52
Barh - balia(D/C)	158	158	206	0	3.53	0.00	3.53
Pusaali-Sahupuri	133	116	157	0	3.55	0.00	3.55
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	38	0.00	0.61	-0.61
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	928	897			25.51	3.32	22.19
Total IR Exch	620	2245			50.76	6.16	44.60

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
19.85	2.70	22.55	6.64	39.76	-3.34	4.05	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
25.85	43.26	69.11	22.19	22.41	44.60	-3.66	-20.85	-24.51

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	2.30	5.20	8.90	87.40	83.70	46.20	7.40

<----- 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	4.11	48.80	19.12	49.95	0.58	0.23	50.39	49.04

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	421	07:50	410	00:01	0.0	0.0	0.3	0.0
Gorakhpur	400	430	07:48	409	22:15	0.0	0.0	53.0	0.0
Bareilly	400	420	08:00	398	14:28	0.0	0.0	0.0	0.0
Kanpur	400	420	09:00	404	14:26	0.0	0.0	0.0	0.0
Dadri	400	414	02:49	397	14:28	0.0	0.0	0.0	0.0
Ballabgarh	400	419	04:01	399	14:28	0.0	0.0	0.0	0.0
Bawana	400	415	03:59	397	14:28	0.0	0.0	0.0	0.0
Bassi	400	424	00:43	406	12:16	0.0	0.0	19.0	0.0
Hissar	400	412	02:41	397	14:27	0.0	0.0	0.0	0.0
Moga	400	420	01:12	404	14:28	0.0	0.0	0.0	0.0
Abdullapur	400	407	02:45	282	23:26	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	419	01:13	401	19:12	0.0	0.0	0.0	0.0
Wagoora	400	414	01:13	383	19:35	0.0	19.9	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	511.45	1620.46	512.37	1667.20	1125.17	921.29
Pong	426.72	384.05	422.53	1005.78	423.54	1066.19	507.96	356.31
Tehri	829.79	740.04	790.20	453.12	NA	NA	750.21	526.00
Koteshwar	612.50	598.50	606.90	3.10	NA	NA	526.00	132.00
Chamera-I	760.00	748.75	751.90	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 08.09.2011 :
Scattered rain 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 : 08.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER