

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.09.2012

Date of Reporting : 10.09.2012

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
33568	4370	37937	50.09	32002	620	32623	50.18	770.9	45.77

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages *
Punjab	45.93	11.12		57.05	103.96	104.79	0.82	161.83	1.80
Haryana	58.32	0.82		59.14	52.02	54.15	2.14	113.29	14.15
Rajasthan	49.62	2.28	12.47	64.36	52.41	51.13	-1.28	115.49	1.83
Delhi	20.63			20.63	65.79	62.04	-3.75	82.67	0.06
UP	81.00	16.44	0.48	97.92	114.41	115.75	1.34	213.67	26.16
Uttarakhand		18.55		18.55	13.03	12.89	-0.14	31.45	0.07
HP		23.20		23.20	0.82	-0.54	-1.36	22.66	0.00
J & K		15.21	0.00	15.21	15.39	9.88	-5.51	25.10	1.70
Chandigarh				0.00	5.39	4.78	-0.61	4.78	0.00
Total	255.50	87.63	12.95	356.07	423.23	414.88	-8.35	770.94	45.77

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

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	6984	600	-195	1805	6833	0	93	2153	49.77	
Haryana	4831	1087	-71	401	4492	809	179	416	9.86	
Rajasthan	5190	520	319	211	4511	0	-49	183	4.23	
Delhi	3938	3	-83	355	3143	0	-191	282	7.70	
UP	8460	1990	0	569	9997	-189	699	823	16.91	
Uttarakhand	1337	70	7	-38	1279	0	-7	-97	-1.58	
HP	1031	0	-46	-1028	853	0	-58	-1062	-24.76	
J&K	1556	100	-106	-174	715	0	-393	-296	-5.11	
Chandigarh	240	0	-2	14	180	0	-22	0	0.41	
Total	33568	4370	-177	2116	32002	620	252	2402	57.43	

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

III. Regional Entities :

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 [OG:(+ve), UG: (-ve)]	
								UI Net MU	UI Net MU
A. NTPC									
Singrauli STPS	2000	1559	1836	1816	35.90	1496	36.44	-0.53	
Rihand I STPS	1000	795	910	736	17.15	715	17.23	-0.08	
Rihand II STPS	1000	965	1004	996	20.71	863	20.91	-0.20	
Rihand III STPS	500	0	0	0	0.00	0	0	0.00	
Dadri I STPS	840	595	452	460	10.26	427	10.67	-0.41	
Dadri II STPS	980	960	915	760	17.27	720	18.07	-0.80	
Unchahar I TPS	420	197	186	167	3.89	162	3.91	-0.02	
Unchahar II TPS	420	400	343	307	7.09	296	7.12	-0.02	
Unchahar III TPS	210	199	178	153	3.59	149	3.63	-0.05	
ISTPP (Jhajhar)	1000	950	454	422	8.16	340	8.51	-0.35	
Dadri GPS	830	609	350	354	8.30	346	8.56	-0.26	
Anta GPS	419	393	200	220	5.03	209	5.14	-0.11	
Auraiya GPS	663	620	304	312	6.92	289	7.19	-0.26	
Sub Total (A)	10282	8240	7132	6703	144.27	6011	147.37	-3.10	
B. NPC									
NAPS	440	261	297	301	6.24	260	6.26	-0.03	
RAPS- B	440	403	438	445	9.47	395	9.67	-0.20	
RAPS- C	440	410	454	453	9.70	404	9.84	-0.14	
Sub Total (B)	1320	1074	1189	1199	25.40	1058	25.78	-0.37	
C. NHPC									
Chamera I HPS	540	534	540	540	12.82	534	12.82	0.00	
Chamera II HPS	300	300	299	299	7.15	298	7.10	0.05	
Chamera III HPS	231	231	233	232	5.55	231	5.56	-0.01	
Bairasuil HPS	180	138	120	120	2.80	117	2.94	-0.14	
Salai-HPS	690	129	667	0	3.38	141	3.31	0.07	
Tanakpur-HPS	94	94	78	36	2.25	94	2.26	-0.01	
Uri-HPS	480	450	479	348	10.30	429	10.31	-0.02	
Dhauliganga-HPS	280	277	277	279	6.69	279	6.72	-0.03	
Dulhasi-HPS	390	344	402	245	8.31	346	8.38	-0.07	
Sewa-II HPS	120	80	79	40	1.73	72	1.75	-0.02	
Sub Total (C)	3305	2577	3174	2139	60.97	2540	61.15	-0.18	
D.NJPC									
Natpna Jhakri	1500	1605	1515	1518	36.21	1509	36.00	0.21	
Sub Total (D)	1500	1605	1515	1518	36.21	1509	36.00	0.21	
E. THDC									
Tehri HPS	1000	1050	1022	1051	24.53	1022	25.00	-0.47	
Koteswar HPS	400	390	387	393	8.57	357	8.60	-0.03	
Sub Total (E)	1400	1440	1409	1444	33.11	1379	33.60	-0.49	
F. BBMB									
Bhakra HPS	1480	771	1257	570	18.80	783	18.50	0.30	
Dehar HPS	990	623	660	600	15.11	630	14.96	0.15	
Pong HPS	396	268	366	186	6.68	278	5.01	1.67	
Sub Total (F)	2866	1662	2283	1356	40.59	1691	38.46	2.13	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	216	176	3.41	142	2.83	0.59	
KWHEP HPS(IPP)	1000	0	979	1012	21.84	910	21.47	0.36	
Malana Stg-II HPS	100	0	56	86	1.54	64	1.65	-0.12	
Shree Cement TPS	300	0	108	99	2.00	84	2.02	-0.01	
Budhil HPS(IPP)	70	0	69	69	1.60	67	1.39	0.21	
Sub Total (G)	1662	0	1428	1442	30.39	1266	29.36	1.03	
H. Total Regional Entities (A-G)	22336	16598	18130	15801	370.94	15456	371.71	-0.77	

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	1188	1110	25.02	1042
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.87	78
	Guru Hargobind Singh TPS(L.mbt)	920	949	946	19.04	793
	Thermal (Total)	2620	2227	2146	45.93	1914
	Total Hydro	1148	611	327	11.12	463
	Total Punjab	3768	2838	2473	57.05	2377
Haryana	Panipat TPS	1367	975	711	22.04	918
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	171	136	4.25	177
	RGTPP (khedar) (IPP)	1200	884	787	20.55	856
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	439	485	11.49	479
	Thermal (Total)	4944	2469	2119	58.32	2430
	Total Hydro	62	32	32	0.82	34
	Total Haryana	5006	2501	2151	59.14	2464
Rajasthan	kota TPS	1240	567	599	13.47	561
	suratgarh TPS	1500	659	616	14.28	595
	Chabra TPS	500	223	375	8.12	339
	Dholpur GPS	330	140	143	3.25	135
	Ramgarh GPS	111	27	27	0.78	32
	RAPS A (NPC)	300	175	175	4.16	173
	Barsingar (NLC)	250	0	0	0.00	0
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	351	275	5.55	231
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2142	2210	49.62	2067
	Total Hydro	550	90	82	2.28	95
	Wind power	1843	312	215	9.58	399
	Biomass	91	22	22	0.53	22
	Solar	128	0	0	0.08	4
	Renewable/Others (Total)	2062	334	237	12.47	520
		Total Rajasthan	7767	2566	2529	64.36
UP	Anpara TPS	1630	1082	747	18.10	754
	Obra TPS	1382	432	415	10.30	429
	Paricha TPS	890	366	394	9.20	383
	Panki TPS	210	59	54	1.30	54
	Harduaganj TPS	665	29	31	0.50	21
	Tanda TPS (NTPC)	440	282	184	6.58	274
	Roza TPS (IPP)	1200	590	815	18.22	759
	Anpara-C (IPP)	1200	446	444	10.64	443
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	230	311	6.17	257
	Thermal (Total)	8067	3516	3395	81.00	3375
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	211	0	5.98	249
	Cogeneration	981	20	20	0.48	20
		Total UP	9975	4183	3851	97.92
Uttarakhand	Total Hydro	1303	774	774	18.55	773
	Total Uttarakhand	1303	774	774	18.55	773
Delhi	Raighat TPS	135	93	42	1.52	63
	Delhi Gas Turbine	282	77	78	1.73	72
	Pragati Gas Turbine	330	293	261	6.67	278
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	500	485	10.72	447
	Thermal (Total)	2237	963	866	20.63	860
	Total Delhi	2237	963	866	20.63	860
HP	Baspa HPS (IPP)	330	298	298	7.36	307
	Malana HPS (IPP)	86	104	55	1.84	77
	Other Hydro	589	579	613	14.00	583
		Total HP	1005	981	966	23
J & K	Baglihar HPS (IPP)	450	438	434	10.48	437
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
		Total J & K	956	623	644	15.21
Total State Control Area Generation		32017	15429	14254	356.07	14400
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2064	2686	59.02	2459
Total Regional Availability(Gross)		54353	35623	32741	786.03	32315

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9632	7731	197.66	8236
State Control Area Hydro	5368	3322	2825	87.63	3215
Total Regional Hydro	15731	12954	10556	285.29	11451

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	Import	Export	
Vindhychal B/B	200	200	200	0	4.84	0	4.84	0.00	4.84
Gwalior-Agra (D/C)	228	437	692	0	10.57	0.00	10.57	0.00	10.57
Zerda-Kankroli	2	1	76	79	0.00	0.13	-0.13	0.00	-0.13
Zerda-Bhinmal	26	38	113	91	0.42	0.00	0.42	0.00	0.42
Malanpur-Auraiya	-80	-56	0	124	0.00	1.13	-1.13	0.00	-1.13
Badod-Kota/Morak	26	14	49	41	0.00	0.25	-0.25	0.00	-0.25
Mundra-Mohindergarh(HVDC)	281	283	285	0	7.03	0.00	7.03	0.00	7.03
Sub Total WR	683	917			22.86	1.51	21.35		
Pusauli Bypass	100	100	100	0	2.40	0.00	2.40	0.00	2.40
MZP- GKP (D/C)	592	700	830	0	15.27	0.00	15.27	0.00	15.27
Patna-Balia(D/C)	348	343	433	0	8.25	0.00	8.25	0.00	8.25
B'Sharif-Balia (D/C)	282	320	470	0	7.13	0.00	7.13	0.00	7.13
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Balia	-40	51	51	190	0.00	0.20	-0.20	0.00	-0.20
Gaya-Fatehpur (765 Kv)	0	97	264	0	2.21	0.00	2.21	0.00	2.21
Pusauli-Sahupuri	144	183	193	0	3.64	0.00	3.64	0.00	3.64
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	1.02	-1.02	0.00	-1.02
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1381	1769			38.90	1.22	37.68		
Total IR Exch	2064	2686			61.76	2.73	59.02		

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
26.77	3.32	30.09	11.65	19.59	-0.25	-1.80	7.25	-7.14
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
48.75	16.35	65.09	37.68	21.35	59.02	-11.07	5.00	-6.07

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	0.00	2.01	87.01	85.00	34.76	12.99
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.56	6.02	49.50	22.06	50.15	0.43	0.11	50.43	49.75

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	412	7:07	401	0:00	0.0	0.0	0.0	0.0
Gorakhpur	400	432	18:27	410	0:03	0.0	0.0	63.8	2.2
Bareilly	400	420	4:11	402	19:06	0.0	0.0	0.0	0.0
Kanpur	400	424	16:13	406	19:06	0.0	0.0	20.0	0.0
Dadri	400	415	17:58	403	19:05	0.0	0.0	0.0	0.0
Ballabhgarh	400	422	4:02	407	19:05	0.0	0.0	5.1	0.0
Bawana	400	416	3:13	403	19:05	0.0	0.0	0.0	0.0
Bassi	400	434	0:32	409	19:05	0.0	0.0	86.5	11.5
Hissar	400	412	0:32	399	19:05	0.0	0.0	0.0	0.0
Moga	400	410	0:30	395	10:42	0.0	0.0	0.0	0.0
Abdullapur	400	413	4:02	399	19:09	0.0	0.0	0.0	0.0
Nalagarh	400	409	0:32	399	19:09	0.0	0.0	0.0	0.0
Kishenpur	400	416	3:05	400	19:06	0.0	0.0	0.0	0.0
Wagoora	400	419	4:01	387	19:59	0.0	5.0	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	500.88	1127.29	511.45	1620.46	1260.13	541.47
Pong	426.72	384.05	418.60	821.34	422.53	1005.78	1103.19	382.39
Tehri	829.79	740.04	821.55	1044.51	818.65	982.26	676.13	552.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	326.52	347.63
Rihand	268.22	252.98	262.28	435.50	264.05	548.10	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	512.92	NA	523.98	NA	388.51	166.90

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.09.2012 :

1: Rains in Rajasthan, HP , Ultranchal , J & K ,Partly in UP.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 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 : 09.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER