

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.09.2012

Date of Reporting : 09.09.2012

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
34267	3963	38230	50.05	32074	1179	33253	50.04	779.2	40.77

* 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	47.90	11.35		59.25	108.67	107.79	-0.88	167.04	1.80
Haryana	58.92	0.83		59.75	55.56	55.71	0.16	115.46	6.20
Rajasthan	60.99	2.14	7.79	70.92	47.64	41.07	-6.57	111.99	0.28
Delhi	20.01			20.01	67.85	63.66	-4.19	83.67	0.14
UP	78.32	17.86	0.48	96.66	115.58	115.38	-0.20	212.03	29.21
Uttarakhand		18.12		18.12	12.62	14.11	1.49	32.23	1.39
HP		23.51		23.51	1.66	0.40	-1.26	23.91	0.06
J & K		15.30	0.00	15.30	16.23	12.45	-3.78	27.75	1.70
Chandigarh				0.00	5.59	5.14	-0.45	5.14	0.00
Total	266.14	89.11	8.27	363.52	431.39	415.71	-15.68	779.23	40.77

* 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	7188	600	-23	1536	7118	0	-105	2112	48.00
Haryana	5055	981	-99	722	4661	596	-84	433	11.87
Rajasthan	5352	192	152	112	4378	0	-318	116	2.66
Delhi	3800	0	-207	342	3137	32	-67	348	8.08
UP	8667	1860	1	603	9504	551	319	921	19.14
Uttarakhand	1339	230	20	-22	1301	0	82	-93	-1.48
HP	1063	0	-83	-988	868	0	-63	-1036	-23.98
J&K	1557	100	-47	-166	914	0	-205	-264	-4.76
Chandigarh	246	0	-18	-5	193	0	2	-20	0.30
Total	34267	3963	-305	2135	32074	1179	-439	2517	59.83

* 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	UI
A. NTPC									
Singrauli STPS	2000	1915	2074	1916	45.06	1878	44.39	0.68	
Rihand I STPS	1000	463	515	438	10.65	444	10.41	0.24	
Rihand II STPS	1000	965	1037	892	21.97	916	21.56	0.41	
Rihand III STPS	500	0	0	0	0.00	0		0.00	
Dadri I STPS	840	595	459	475	10.48	437	10.53	-0.06	
Dadri II STPS	980	960	990	724	19.03	793	19.31	-0.28	
Unchahar I TPS	420	197	218	191	4.32	180	4.31	0.00	
Unchahar II TPS	420	400	422	319	8.27	345	7.91	0.36	
Unchahar III TPS	210	199	216	156	3.99	166	3.89	0.10	
ISTPP (Jhajjar)	1000	950	489	432	8.54	356	8.78	-0.24	
Dadri GPS	830	605	370	331	7.95	331	8.06	-0.11	
Anta GPS	419	393	236	206	4.87	203	4.78	0.08	
Auraiya GPS	663	624	282	315	6.76	282	6.71	0.05	
Sub Total (A)	10282	8265	7308	6395	151.90	6329	150.65	1.24	
B. NPC									
NAPS	440	261	304	304	6.28	262	6.26	0.01	
RAPS- B	440	400	446	445	9.64	402	9.60	0.04	
RAPS- C	440	410	447	448	9.54	398	9.84	-0.30	
Sub Total (B)	1320	1071	1197	1197	25.47	1061	25.70	-0.24	
C. NHPC									
Chamera I HPS	540	534	540	540	12.82	534	12.82	0.00	
Chamera II HPS	300	300	300	301	7.18	299	7.08	0.10	
Chamera III HPS	231	231	232	231	5.55	231	5.50	0.05	
Bairasuil HPS	180	128	120	120	2.84	118	2.85	-0.01	
Salai-HPS	690	621	654	653	14.85	619	14.90	-0.05	
Tanakpur-HPS	94	89	95	95	2.28	95	2.26	0.03	
Uri-HPS	480	375	420	360	9.44	393	8.52	0.92	
Dhauliganga-HPS	280	277	278	278	6.70	279	6.63	0.06	
Dulhasi-HPS	390	59	267	0	1.31	55	1.55	-0.24	
Sewa-II HPS	120	80	84	80	1.77	74	1.69	0.08	
Sub Total (C)	3305	2693	2990	2658	64.74	2698	63.79	0.95	
D.NJPC									
Natpna Jhakri	1500	1605	1510	1517	36.23	1509	36.00	0.22	
Sub Total (D)	1500	1605	1510	1517	36.23	1509	36.00	0.22	
E. THDC									
Tehri HPS	1000	1050	1052	1062	25.10	1046	25.00	0.10	
Koteshwar HPS	400	387	393	392	9.30	388	9.29	0.01	
Sub Total (E)	1400	1437	1445	1454	34.40	1433	34.29	0.11	
F. BBMB									
Bhakra HPS	1480	777	1257	569	18.95	790	18.66	0.29	
Dehar HPS	990	623	660	630	15.22	634	14.96	0.26	
Pong HPS	396	269	366	180	6.50	271	5.01	1.49	
Sub Total (F)	2866	1669	2283	1379	40.67	1695	38.62	2.05	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	189	105	3.32	138	3.05	0.27	
KWHEP HPS(IPP)	1000	0	1011	1012	21.27	886	21.77	-0.51	
Malana Stg-II HPS	100	0	103	97	2.28	95	2.05	0.24	
Shree Cement TPS	300	0	120	74	2.35	98	2.17	0.18	
Budhil HPS(IPP)	70	0	69	69	1.65	69	1.39	0.27	
Sub Total (G)	1662	0	1492	1357	30.87	1286	30.43	0.44	
H. Total Regional Entities (A-G)	22336	16739	18225	15957	384.26	16011	379.48	4.78	

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	1258	1043	25.00	1042	
	Guru Nanak Dev TPS(Bhatinda)	440	95	95	1.96	82	
	Guru Hargobind Singh TPS(L.mbt)	920	954	950	20.94	873	
	Thermal (Total)	2620	2307	2088	47.90	1996	
	Total Hydro	1148	523	528	11.35	473	
Total Punjab	3768	2830	2616	59.25	2469		
Haryana	Panipat TPS	1367	972	1000	23.77	991	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	188	187	4.26	178	
	RGTPP (kheldar) (IPP)	1200	732	815	18.83	785	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	491	478	12.06	502	
	Thermal (Total)	4944	2383	2480	58.92	2455	
	Total Hydro	62	32	33	0.83	35	
Total Haryana	5006	2415	2513	59.75	2489		
Rajasthan	kota TPS	1240	657	592	14.82	618	
	suratgarh TPS	1500	857	996	21.40	892	
	Chabra TPS	500	427	374	9.64	402	
	Dholpur GPS	330	137	137	3.28	137	
	Ramgarh GPS	111	20	38	0.68	28	
	RAPS A (NPC)	300	175	170	4.18	174	
	Barsingar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	0	42	0.22	9	
	Rajwest LTPS (IPP)	540	315	230	6.77	282	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2588	2579	60.99	2541	
	Total Hydro	550	172	114	2.14	89	
	Wind power	1843	90	263	5.03	209	
	Biomass	91	22	22	0.54	22	
	Solar	128	0	0	0.08	4	
	Renewable/Others (Total)	2062	112	285	7.79	325	
	Total Rajasthan	7767	2872	2978	70.92	2955	
	UP	Anpara TPS	1630	734	748	17.00	708
		Obra TPS	1382	431	311	8.10	338
Paricha TPS		890	409	403	9.40	392	
Panki TPS		210	50	108	1.50	63	
Harduaganj TPS		665	27	32	0.70	29	
Tanda TPS (NTPC)		440	188	192	4.81	200	
Roza TPS (IPP)		1200	828	833	19.01	792	
Anpara-C (IPP)		1200	450	420	10.41	434	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	297	324	7.39	308	
Thermal (Total)		8067	3414	3371	78.32	3263	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	297	0	7.39	308	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	4167	3827	96.66	3592	
Uttarakhand	Total Hydro	1303	775	761	18.12	755	
	Total Uttarakhand	1303	775	761	18.12	755	
Delhi	Raighat TPS	135	43	48	0.96	40	
	Delhi Gas Turbine	282	78	78	1.73	72	
	Pragati Gas Turbine	330	295	263	6.70	279	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	490	470	10.62	443	
	Thermal (Total)	2237	906	859	20.01	834	
Total Delhi	2237	906	859	20.01	834		
HP	Baspa HPS (IPP)	330	302	302	7.57	315	
	Malana HPS (IPP)	86	66	52	1.44	60	
	Other Hydro	589	629	621	14.50	604	
	Total HP	1005	997	975	24	979	
J & K	Baglihar HPS (IPP)	450	438	438	10.57	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	623	648	15.30	638	
Total State Control Area Generation		32017	15585	15177	363.52	14711	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2191	1772	48.93	2039	
Total Regional Availability(Gross)		54353	36001	32906	796.71	32760	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9531	8222	202.90	8454
State Control Area Hydro	5368	3419	3059	89.11	3277
Total Regional Hydro	15731	12950	11281	292.01	11731

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	50	200	50	2.39	0.12	2.27		
Gwalior-Agra (D/C)	308	351	731	0	11.24	0.00	11.24		
Zerda-Kankroli	-21	-81	0	136	0.00	1.72	-1.72		
Zerda-Bhinmal	27	-57	62	158	0.00	0.82	-0.82		
Malanpur-Auraiya	-98	-66	0	107	0.00	1.20	-1.20		
Badod-Kota/Morak	-10	-43	35	68	0.00	0.33	-0.33		
Mundra-Mohindergarh(HVDC)	483	482	484	0	11.75	0.00	11.75		
Sub Total WR	889	636			25.38	4.18	21.20		
Pusauli Bypass	200	200	200	0	4.40	0.00	4.40		
MZP- GKP (D/C)	488	474	708	0	11.87	0.00	11.87		
Patna-Balia(D/C)	283	323	383	0	6.10	0.00	6.10		
B'Sharif-Balia (D/C)	112	171	375	0	3.83	0.00	3.83		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	-70	-88	0	134	0.00	1.35	-1.35		
Gaya-Fatehpur (765 Kv)	172	-71	172	105	0.32	0.00	0.32		
Pusauli-Sahupuri	162	152	187	0	3.58	0.00	3.58		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-45	-25	0	48	0.00	1.02	-1.02		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1302	1136			30.10	2.37	27.73		
Total IR Exch	2191	1772			55.48	6.55	48.93		

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
26.13	3.32	29.45	13.65	19.59	-1.01	-1.42	7.22	-7.09
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
49.30	16.42	65.73	27.73	21.20	48.93	-21.57	4.78	-16.80

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	0.10	2.10	8.80	94.80	88.10	27.60	3.10
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.41	17.04	49.16	19.10	49.91	0.36	0.17	50.36	49.50

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	5:59	399	22:08	0.0	0.0	0.0	0.0
Gorakhpur	400	434	17:23	410	23:16	0.0	0.0	69.3	4.3
Bareilly	400	421	6:02	401	11:35	0.0	0.0	0.2	0.0
Kanpur	400	424	6:02	406	19:08	0.0	0.0	8.6	0.0
Dadri	400	416	6:02	400	11:33	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	6:02	405	11:12	0.0	0.0	13.1	0.0
Bawana	400	417	6:02	401	11:35	0.0	0.0	0.0	0.0
Bassi	400	433	3:02	411	19:08	0.0	0.0	79.9	6.6
Hissar	400	411	3:03	400	11:33	0.0	0.0	0.0	0.0
Moga	400	410	3:03	399	11:29	0.0	0.0	0.0	0.0
Abdullapur	400	413	6:02	287	0:10	0.1	0.1	0.0	0.0
Nalagarh	400	410	6:02	400	12:46	0.0	0.0	0.0	0.0
Kishenpur	400	414	1:00	399	19:27	0.0	0.0	0.0	0.0
Wagoora	400	415	1:33	388	19:22	0.0	2.8	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 08.09.2012 :

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 : 08.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER