

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.09.2012

Date of Reporting : 08.09.2012

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
34546	3620	38166	49.93	33216	1614	34830	50.32	800.2	46.83

* 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	45.79	15.14		60.93	112.48	112.33	-0.15	173.26	1.80
Haryana	58.50	0.83		59.32	57.76	59.03	1.28	118.35	7.12
Rajasthan	67.42	2.86	12.48	82.76	46.45	41.01	-5.44	123.77	0.00
Delhi	20.47			20.47	71.15	64.11	-7.04	84.58	0.11
UP	77.83	14.89	0.48	93.20	118.96	118.05	-0.91	211.25	35.10
Uttarakhand		15.60		15.60	13.31	15.92	2.61	31.51	0.99
HP		23.66		23.66	1.03	0.55	-0.47	24.21	0.00
J & K		15.30	0.00	15.30	14.88	12.31	-2.57	27.61	1.70
Chandigarh				0.00	5.76	5.62	-0.14	5.62	0.00
Total	270.02	88.27	12.96	371.24	441.77	428.93	-12.84	800.17	46.83

* 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	7316	600	-83	1613	7168	0	-71	2207	49.41	
Haryana	5398	682	-68	915	5040	629	76	607	14.29	
Rajasthan	5741	0	-210	76	5023	0	-269	112	1.63	
Delhi	3928	90	32	367	3234	0	-110	344	6.94	
UP	8018	1900	-521	631	9687	985	409	924	21.25	
Uttarakhand	1279	245	64	-45	1252	0	105	-115	-1.87	
HP	1082	3	6	-1070	854	0	-103	-1022	-24.70	
J&K	1526	100	-99	-166	761	0	-287	-264	-4.76	
Chandigarh	258	0	-8	0	196	0	-3	-20	0.35	
Total	34546	3620	-887	2322	33216	1614	-253	2774	62.55	

* 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)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1915	2059	1867	44.43	1851	44.24	0.19
Rihand I STPS	1000	450	514	453	9.90	413	9.81	0.10
Rihand II STPS	1000	965	1038	910	20.86	869	20.73	0.13
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	590	470	448	10.41	434	10.83	-0.41
Dadri II STPS	980	960	812	704	18.59	774	19.57	-0.98
Unchahar I TPS	420	197	205	170	4.10	171	4.24	-0.14
Unchahar II TPS	420	400	435	310	7.83	326	7.88	-0.05
Unchahar III TPS	210	199	217	151	3.83	159	3.85	-0.03
ISTPP (Jhajhar)	1000	950	496	400	9.24	385	9.53	-0.29
Dadri GPS	830	609	339	335	7.83	326	7.88	-0.05
Anta GPS	419	392	222	202	5.17	216	5.20	-0.02
Auraiya GPS	663	619	317	248	6.45	269	6.28	0.17
Sub Total (A)	10282	8246	7124	6198	148.64	6193	150.03	-1.39
B. NPC								
NAPS	440	260	296	302	6.29	262	6.24	0.05
RAPS- B	440	398	446	448	9.68	403	9.55	0.13
RAPS- C	440	410	444	452	9.54	398	9.84	-0.30
Sub Total (B)	1320	1068	1186	1202	25.51	1063	25.63	-0.12
C. NHPC								
Chamera I HPS	540	534	540	540	12.78	533	12.81	-0.03
Chamera II HPS	300	300	303	286	7.18	299	7.21	-0.04
Chamera III HPS	231	224	234	232	5.40	225	5.47	-0.07
Bairasuil HPS	180	138	120	120	2.92	122	2.90	0.02
Salai-HPS	690	639	658	638	15.29	637	15.41	-0.12
Tanakpur-HPS	94	93	95	95	2.27	95	2.26	0.01
Uri-HPS	480	362	421	349	8.65	361	8.23	0.43
Dhauliganga-HPS	280	277	282	278	6.72	280	6.69	0.02
Dulhasi-HPS	390	376	411	382	9.09	379	9.03	0.07
Sewa-II HPS	120	80	85	77	1.80	75	1.81	-0.01
Sub Total (C)	3305	3022	3149	2997	72.09	3004	71.82	0.27
D.NJPC								
Natpna Jhakri	1500	1605	1514	1517	36.23	1509	36.00	0.23
Sub Total (D)	1500	1605	1514	1517	36.23	1509	36.00	0.23
E. THDC								
Tehri HPS	1000	1050	1056	1012	24.98	1041	25.00	-0.02
Koteshwar HPS	400	390	392	388	9.31	388	9.36	-0.05
Sub Total (E)	1400	1440	1448	1400	34.29	1429	34.36	-0.07
F. BBMB								
Bhakra HPS	1480	774	1259	564	18.95	790	18.58	0.37
Dehar HPS	990	610	660	600	15.15	631	14.64	0.51
Pong HPS	396	287	366	180	6.88	287	5.01	1.87
Sub Total (F)	2866	1671	2285	1344	40.98	1708	38.22	2.76
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	186	104	3.09	129	2.80	0.29
KWHEP HPS(IPP)	1000	0	1010	1016	23.05	961	21.84	1.22
Malana Stg-II HPS	100	0	107	104	2.43	101	2.10	0.33
Shree Cement TPS	300	0	112	72	2.00	83	1.97	0.03
Budhil HPS(IPP)	70	0	70	70	1.51	63	1.39	0.13
Sub Total (G)	1662	0	1485	1366	32.09	1337	30.09	2.00
H. Total Regional Entities (A-G)	22336	17052	18191	16024	389.83	16243	386.15	3.67

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	1036	1031	23.03	959	
	Guru Nanak Dev TPS(Bhatinda)	440	95	95	1.96	82	
	Guru Hargobind Singh TPS(L.mbt)	920	940	931	20.81	867	
	Thermal (Total)	2620	2071	2057	45.79	1908	
	Total Hydro	1148	869	495	15.14	631	
	Total Punjab	3768	2940	2552	60.93	2539	
Haryana	Panipat TPS	1367	995	1014	24.16	1007	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	188	169	4.00	167	
	RGTPP (khedar) (IPP)	1200	733	713	15.43	643	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	559	593	14.91	621	
	Thermal (Total)	4944	2475	2489	58.50	2437	
	Total Hydro	62	33	30	0.83	34	
	Total Haryana	5006	2508	2519	59.32	2472	
Rajasthan	kota TPS	1240	815	842	19.44	810	
	suratgarh TPS	1500	1097	1066	23.37	974	
	Chabra TPS	500	431	439	9.63	401	
	Dholpur GPS	330	144	140	3.34	139	
	Ramgarh GPS	111	37	38	0.91	38	
	RAPS A (NPC)	300	170	170	4.16	173	
	Barsingsar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	48	23	0.90	38	
	Rajwest LTPS (IPP)	540	230	230	5.67	236	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2972	2948	67.42	2809	
	Total Hydro	550	121	115	2.86	119	
	Wind power	1843	514	224	8.95	373	
	Biomass	91	24	24	0.57	24	
	Solar	128	0	0	0.08	4	
	Renewable/Others (Total)	2062	538	248	12.48	520	
	Total Rajasthan	7767	3631	3311	82.76	3448	
	UP	Anpara TPS	1630	804	710	16.10	671
		Obra TPS	1382	345	357	7.60	317
Paricha TPS		890	434	431	9.00	375	
Panki TPS		210	115	125	2.70	113	
Harduaganj TPS		665	38	36	0.80	33	
Tanda TPS (NTPC)		440	186	188	4.76	198	
Roza TPS (IPP)		1200	828	833	17.93	747	
Anpara-C (IPP)		1200	485	471	11.50	479	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	324	297	7.44	310	
Thermal (Total)		8067	3559	3448	77.83	3243	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	153	0	4.43	184	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	4168	3904	93.20	3447	
Uttarakhand		Total Hydro	1303	637	647	15.60	650
	Total Uttarakhand	1303	637	647	15.60	650	
Delhi	Raighat TPS	135	43	44	1.07	45	
	Delhi Gas Turbine	282	76	79	1.75	73	
	Pragati Gas Turbine	330	296	262	6.91	288	
	Rithala GPS	108	37	20	0.59	25	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	500	435	10.15	423	
	Thermal (Total)	2237	952	840	20.47	853	
	Total Delhi	2237	952	840	20.47	853	
HP	Baspa HPS (IPP)	330	331	301	7.59	316	
	Malana HPS (IPP)	86	63	88	1.75	73	
	Other Hydro	589	614	587	14.32	597	
	Total HP	1005	1008	976	24	986	
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	16467	15397	371.24	15032	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1979	2401	65.37	2724	
Total Regional Availability(Gross)		54353	36637	33822	826.43	33999	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9699	8482	212.16	8840
State Control Area Hydro	5368	3444	2911	88.27	3242
Total Regional Hydro	15731	13143	11393	300.43	12082

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	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	200	-50	400	150	1.51	0.93	0.58		
Gwalior-Agra (D/C)	344	531	774	0	13.54	0.00	13.54		
Zerda-Kankroli	-73	-68	0	151	0.00	1.83	-1.83		
Zerda-Bhinmal	-42	0	80	180	0.00	0.66	-0.66		
Malanpur-Auraiya	-101	-27	0	108	0.00	0.74	-0.74		
Badod-Kota/Morak	6	33	54	96	0.00	0.21	-0.21		
Mundra-Mohindergarh(HVDC)	481	482	483	0	11.74	0.00	11.74		
Sub Total WR	815	901			26.79	4.35	22.43		
Pusauli Bypass	200	200	200	0	4.86	0.00	4.86		
MZP- GKP (D/C)	436	648	760	0	13.28	0.00	13.28		
Patna-Balia(D/C)	343	234	481	0	8.43	0.00	8.43		
B'Sharif-Balia (D/C)	138	288	335	0	5.82	0.00	5.82		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	-95	-42	0	143	0.00	1.32	-1.32		
Gaya-Fatehpur (765 Kv)	35	47	130	80	9.04	0.00	9.04		
Pusauli-Sahupuri	152	150	176	0	3.85	0.00	3.85		
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	1164	1500			45.28	2.34	42.94		
Total IR Exch	1979	2401			72.06	6.69	65.37		

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
28.36	3.03	31.38	14.51	18.71	-1.04	1.38	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
52.08	17.26	69.33	42.94	22.43	65.37	-9.14	5.17	-3.96

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	1.30	6.80	91.80	86.30	45.00	6.90
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.40	3.03	49.27	19.32	49.97	0.31	0.17	50.36	49.66

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	418	4:04	404	22:51	0.0	0.0	0.0	0.0
Gorakhpur	400	431	7:56	416	0:39	0.0	0.0	79.7	1.9
Bareilly	400	421	7:50	399	23:06	0.0	0.0	0.3	0.0
Kanpur	400	427	3:04	405	23:05	0.0	0.0	22.3	0.0
Dadri	400	418	4:02	400	14:26	0.0	0.0	0.0	0.0
Ballabgarh	400	424	3:05	402	19:31	0.0	0.0	10.0	0.0
Bawana	400	420	4:02	0	14:27	3.6	3.6	0.0	0.0
Bassi	400	436	3:02	403	19:31	0.0	0.0	53.2	7.4
Hissar	400	412	4:02	396	19:30	0.0	0.0	0.0	0.0
Moga	400	408	3:02	394	19:30	0.0	0.0	0.0	0.0
Abdullapur	400	415	4:05	284	9:43	0.1	0.1	0.0	0.0
Nalagarh	400	411	4:02	394	15:55	0.0	0.0	0.0	0.0
Kishenpur	400	412	3:02	395	19:31	0.0	0.0	0.0	0.0
Wagoora	400	413	3:02	384	19:30	0.0	6.0	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	499.61	1076.64	511.21	1605.30	1101.64	512.87
Pong	426.72	384.05	418.08	807.91	422.41	1005.78	844.44	476.20
Tehri	829.79	740.04	821.50	1023.38	818.65	982.26	611.07	545.00
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 07.09.2012 :

1: Normal weather in NR.

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 : 07.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER