

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.09.2012

Date of Reporting : 13.09.2012

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
36136	3970	40105	50.15	34840	1729	36569	50.14	842.0	66.51

* 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 * (MU)
Punjab	52.34	14.91		67.24	111.84	111.66	-0.18	178.90	1.73
Haryana	60.19	0.75		60.94	68.12	67.95	-0.17	128.89	5.65
Rajasthan	64.91	2.78	5.00	72.69	53.20	54.29	1.10	126.98	1.63
Delhi	24.78			24.78	74.93	71.13	-3.79	95.92	0.03
UP	82.89	16.05	0.48	99.43	119.49	121.81	2.32	221.23	52.88
Uttarakhand		19.84		19.84	10.86	9.11	-1.76	28.95	2.76
HP		24.32		24.32	0.73	0.51	-0.23	24.82	0.13
J & K		15.21	0.00	15.21	18.46	15.59	-2.87	30.81	1.70
Chandigarh				0.00	5.84	5.50	-0.34	5.50	0.00
Total	285.10	93.86	5.48	384.45	463.46	457.55	-5.91	841.99	66.51

* 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	7573	600	-93	1503	7280	0	-10	2142	47.65	
Haryana	5452	1050	3	621	5402	0	-156	428	16.82	
Rajasthan	5922	51	-27	612	4931	119	217	137	4.30	
Delhi	4379	0	-152	413	3528	0	13	195	7.36	
UP	8680	2098	14	605	10827	1610	246	1556	23.36	
Uttarakhand	1119	70	-16	-37	781	0	-143	-115	-1.90	
HP	1160	0	35	-1047	891	0	-44	-1093	-25.42	
J&K	1596	100	-21	-224	1007	0	-219	-267	-5.88	
Chandigarh	255	0	-21	10	193	0	-17	0	0.63	
Total	36136	3970	-278	2455	34840	1729	-113	2983	66.91	

* 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	1425	1542	1551	34.01	1417	33.83	0.18
Rihand I STPS	1000	840	920	917	19.92	830	19.85	0.07
Rihand II STPS	1000	965	1033	1023	22.97	957	22.89	0.08
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	581	635	485	11.47	478	12.40	-0.93
Dadri II STPS	980	970	992	746	20.32	847	21.35	-1.03
Unchahar I TPS	420	197	205	211	4.58	191	4.65	-0.07
Unchahar II TPS	420	400	418	429	9.28	387	9.31	-0.03
Unchahar III TPS	210	199	206	215	4.59	191	4.61	-0.02
ISTPP (Jhajhar)	1000	940	739	768	18.06	753	18.48	-0.42
Dadri GPS	830	793	581	547	12.84	535	13.27	-0.44
Anta GPS	419	393	268	237	5.71	238	5.82	-0.11
Auraiya GPS	663	624	307	311	7.20	300	8.13	-0.93
Sub Total (A)	10282	8328	7846	7440	170.94	7123	174.60	-3.65
B. NPC								
NAPS	440	258	294	296	6.15	256	6.19	-0.04
RAPS- B	440	397	449	449	9.72	405	9.53	0.19
RAPS- C	440	410	463	462	9.84	410	9.84	0.00
Sub Total (B)	1320	1065	1206	1207	25.71	1071	25.56	0.15
C. NHPC								
Chamera I HPS	540	534	540	540	12.80	533	12.81	-0.02
Chamera II HPS	300	300	301	300	7.13	297	7.18	-0.05
Chamera III HPS	231	231	233	233	5.23	218	5.55	-0.32
Bairasuil HPS	180	120	180	120	2.60	109	2.75	-0.15
Salai-HPS	690	666	664	664	15.89	662	15.98	-0.09
Tanakpur-HPS	94	94	94	95	2.23	93	2.24	-0.01
Uri-HPS	480	408	479	474	11.25	469	9.41	1.83
Dhauliganga-HPS	280	277	278	279	6.72	280	6.71	0.01
Duihasti-HPS	390	387	406	406	9.23	385	9.19	0.04
Sewa-II HPS	120	80	85	80	1.80	75	1.73	0.07
Sub Total (C)	3305	3096	3260	3191	74.87	3119	73.55	1.31
D.NJPC								
Natpna Jhakri	1500	1605	1515	1516	36.25	1510	36.00	0.25
Sub Total (D)	1500	1605	1515	1516	36.25	1510	36.00	0.25
E. THDC								
Tehri HPS	1000	1050	1056	1011	17.24	718	17.00	0.24
Koteshwar HPS	400	379	391	191	5.75	240	5.70	0.05
Sub Total (E)	1400	1429	1447	1202	22.99	958	22.70	0.29
F. BBMB								
Bhakra HPS	1480	801	1231	544	19.68	820	19.21	0.47
Dehar HPS	990	613	660	630	15.09	629	14.70	0.39
Pong HPS	396	207	366	126	5.17	215	5.01	0.16
Sub Total (F)	2866	1620	2257	1300	39.94	1664	38.92	1.02
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	188	103	3.12	130	2.97	0.14
KWHEP HPS(IPP)	1000	0	1010	1012	23.87	995	22.61	1.27
Malana Stg-II HPS	100	0	102	85	2.18	91	1.88	0.30
Shree Cement TPS	300	0	108	72	2.26	94	2.25	0.00
Budhil HPS(IPP)	70	0	0	39	0.62	26	0.17	0.45
Sub Total (G)	1662	0	1408	1311	32.05	1335	29.88	2.17
H. Total Regional Entities (A-G)	22336	17143	18939	17167	402.75	16781	401.21	1.53

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	1233	1080	27.12	1130	
	Guru Nanak Dev TPS(Bhatinda)	440	208	190	4.48	187	
	Guru Hargobind Singh TPS(L.mbt)	920	945	949	20.73	864	
	Thermal (Total)	2620	2386	2219	52.34	2181	
	Total Hydro	1148	872	371	14.91	621	
	Total Punjab	3768	3258	2590	67.24	2802	
Haryana	Panipat TPS	1367	954	1111	23.98	999	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	396	401	8.62	359	
	RGTPP (kheldar) (IPP)	1200	841	768	19.90	829	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	524	403	7.69	320	
	Thermal (Total)	4944	2715	2683	60.19	2508	
	Total Hydro	62	28	31	0.75	31	
	Total Haryana	5006	2743	2714	60.94	2539	
Rajasthan	kota TPS	1240	826	666	18.19	758	
	suratgarh TPS	1500	1078	718	21.64	902	
	Chabra TPS	500	437	438	10.47	436	
	Dholpur GPS	330	182	137	3.49	146	
	Ramgarh GPS	111	65	41	1.21	50	
	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	330	96	5.74	239	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3093	2271	64.91	2704	
	Total Hydro	550	201	116	2.78	116	
	Wind power	1843	23	119	1.59	66	
	Biomass	91	21	21	0.50	21	
	Solar	128	0	0	0.15	6	
	Renewable/Others (Total)	2062	44	140	5.00	209	
	Total Rajasthan	7767	3338	2527	72.69	3029	
	UP	Anpara TPS	1630	989	1139	22.30	929
		Obra TPS	1382	312	371	7.80	325
Paricha TPS		890	410	433	9.00	375	
Panki TPS		210	60	90	2.20	92	
Harduaganj TPS		665	253	221	4.30	179	
Tanda TPS (NTPC)		440	291	290	7.15	298	
Roza TPS (IPP)		1200	540	824	15.55	648	
Anpara-C (IPP)		1200	325	464	9.18	383	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	195	243	5.41	226	
Thermal (Total)		8067	3375	4075	82.89	3454	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	283	0	5.59	233	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	4114	4531	99.43	3707	
Uttarakhand		Total Hydro	1303	865	868	19.84	827
	Total Uttarakhand	1303	865	868	19.84	827	
Delhi	Raighat TPS	135	49	47	1.29	54	
	Delhi Gas Turbine	282	223	185	4.82	201	
	Pragati Gas Turbine	330	295	265	7.05	294	
	Rithala GPS	108	20	20	0.65	27	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	540	505	10.98	457	
	Thermal (Total)	2237	1127	1022	24.78	1033	
	Total Delhi	2237	1127	1022	24.78	1033	
HP	Baspa HPS (IPP)	330	305	305	7.47	311	
	Malana HPS (IPP)	86	97	87	2.12	88	
	Other Hydro	589	624	609	14.73	614	
	Total HP	1005	1026	1001	24	1013	
J & K	Baglihar HPS (IPP)	450	434	436	10.48	437	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	619	646	15.21	634	
Total State Control Area Generation		32017	17090	15899	384.45	15583	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2352	3382	79.50	3312	
Total Regional Availability(Gross)		54353	38381	36448	866.69	35676	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9779	8409	203.21	8467
State Control Area Hydro	5368	3894	3033	93.86	3475
Total Regional Hydro	15731	13673	11442	297.07	11942

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	100	300	500	0	5.31	0.00	5.31	0.00	5.31
Gwalior-Agra (D/C)	376	580	813	0	14.73	0.00	14.73	0.00	14.73
Zerda-Kankroli	-54	26	71	144	0.00	0.74	-0.74	0.74	-0.74
Zerda-Bhinmal	-7	97	172	117	0.67	0.00	-0.67	0.67	-0.67
Malanpur-Auraiya	-82	-59	0	82	0.00	0.53	-0.53	0.53	-0.53
Badod-Kota/Morak	-5	119	72	19	1.64	0.00	-1.64	1.64	-1.64
Mundra-Mohindergarh(HVDC)	476	428	533	0	11.58	0.00	11.58	0.00	11.58
Sub Total WR	804	1491			33.93	1.27			32.66
Pusauli Bypass	300	300	300	0	7.03	0.00	7.03	0.00	7.03
MZP- GKP (D/C)	536	718	870	0	17.01	0.00	17.01	0.00	17.01
Patna-Balia(D/C)	348	360	467	0	9.14	0.00	9.14	0.00	9.14
B'Sharif-Balia (D/C)	282	333	485	0	8.52	0.00	8.52	0.00	8.52
Barh - Balia(D/C)	0	0	300	0	1.61	0.00	-1.61	1.61	-1.61
Pusauli-Balia	-67	-54	24	77	0.00	0.87	-0.87	0.87	-0.87
Gaya-Fatehpur (765 Kv)	19	81	154	60	1.54	0.00	-1.54	1.54	-1.54
Pusauli-Sahupuri	175	178	182	0	3.65	0.00	3.65	0.00	3.65
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	0.79	-0.79	0.79	-0.79
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1548	1891			48.50	1.66			46.84
Total IR Exch	2352	3382			82.43	2.93			79.50

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
32.01	2.94	34.95	14.46	16.86	0.93	5.42	1.17	-1.05
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
51.51	26.10	77.61	46.84	32.66	79.50	-4.67	6.56	1.89

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	0.20	3.90	92.10	88.40	48.30	7.70
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.52	6.03	49.45	5.34	49.99	0.24	0.16	50.33	49.74

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	413	20:58	403	10:19	0.0	0.0	0.0	0.0
Gorakhpur	400	426	16:55	402	2:24	0.0	0.0	37.9	0.0
Bareilly	400	420	18:02	396	1:44	0.0	0.0	0.0	0.0
Kanpur	400	417	14:03	404	10:18	0.0	0.0	0.0	0.0
Dadri	400	413	6:02	397	10:14	0.0	0.0	0.0	0.0
Ballabhgarh	400	420	3:32	403	10:19	0.0	0.0	0.0	0.0
Bawana	400	414	4:58	400	10:14	0.0	0.0	0.0	0.0
Bassi	400	435	3:32	410	10:30	0.0	0.0	47.2	6.4
Hissar	400	409	18:01	394	10:23	0.0	0.0	0.0	0.0
Moga	400	413	22:43	18	8:12	0.7	1.9	0.0	0.0
Abdullapur	400	410	3:36	400	10:09	0.0	0.0	0.0	0.0
Nalagarh	400	411	5:01	396	15:45	0.0	0.0	0.0	0.0
Kishenpur	400	411	4:21	398	19:28	0.0	0.0	0.0	0.0
Wagoora	400	410	4:21	385	19:30	0.0	6.7	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	501.92	1179.55	512.16	1650.87	961.21	571.52
Pong	426.72	384.05	419.03	848.35	423.17	1035.89	603.97	298.40
Tehri	829.79	740.04	822.00	1011.51	818.65	982.26	431.59	378.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	301.68	347.42
Rihand	268.22	252.98	262.74	463.00	265.42	643.70	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	514.81	NA	524.47	NA	349.94	250.01

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.09.2012 :

1: Partial rains in Delhi, Haryana.

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 : 12.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER