

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.09.2012

Date of Reporting : 23.09.2012

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
34438	4007	38445	50.14	31174	2256	33430	50.18	770.4	68.38

* 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	40.35	8.58		48.93	84.89	85.80	0.91	134.72	1.80
Haryana	49.69	0.81		50.50	63.01	62.20	-0.81	112.71	11.72
Rajasthan	75.29	1.60	11.89	88.78	56.16	56.52	0.36	145.29	1.70
Delhi	22.82			22.82	61.37	58.66	-2.71	81.49	0.11
UP	85.59	15.67	0.48	101.74	103.89	105.52	1.63	207.26	49.80
Uttarakhand		21.48		21.48	7.92	9.46	1.54	30.93	0.00
HP		19.03		19.03	3.53	3.64	0.12	22.68	1.55
J & K		15.32	0.00	15.32	16.39	15.45	-0.94	30.77	1.70
Chandigarh				0.00	4.81	4.56	-0.25	4.56	0.00
Total	273.75	82.49	12.37	368.60	401.98	401.81	-0.16	770.42	68.38

* 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	6139	600	22	771	5457	0	94	1473	29.69	
Haryana	4779	1165	-42	355	4587	203	-85	397	9.46	
Rajasthan	6650	0	36	570	5882	55	192	230	9.50	
Delhi	3783	9	-286	226	2993	0	-78	44	4.23	
UP	8463	2133	-155	499	9069	1998	329	743	15.59	
Uttarakhand	1592	0	246	-150	1161	0	-11	-175	-3.92	
HP	1147	0	39	-864	893	0	-26	-672	-17.60	
J&K	1651	100	44	-252	988	0	-155	-404	-7.93	
Chandigarh	235	0	7	19	145	0	-18	-16	0.35	
Total	34438	4007	-89	1174	31174	2256	243	1621	39.37	

* 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	1430	1559	1513	34.25	1427	33.99	0.25
Rihand I STPS	1000	764	878	808	17.93	747	17.93	0.00
Rihand II STPS	1000	822	1016	857	19.28	803	19.30	-0.02
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	600	638	460	10.16	423	10.47	-0.31
Dadri II STPS	980	970	979	755	18.30	762	19.84	-1.54
Unchahar I TPS	420	393	425	347	8.57	357	8.59	-0.02
Unchahar II TPS	420	400	425	309	8.26	344	8.43	-0.16
Unchahar III TPS	210	199	210	156	4.15	173	4.20	-0.05
ISTPP (Jhajihar)	1000	950	415	489	10.81	451	11.36	-0.55
Dadri GPS	830	798	379	404	8.91	371	9.43	-0.52
Anta GPS	419	393	230	231	5.31	221	5.31	0.00
Auraiya GPS	663	421	258	275	6.30	263	6.32	-0.02
Sub Total (A)	10282	8141	7412	6604	152.24	6343	155.18	-2.94
B. NPC								
NAPS	440	261	301	307	6.37	265	6.26	0.11
RAPS- B	440	406	452	450	9.70	404	9.74	-0.04
RAPS- C	440	455	462	465	9.90	413	10.92	-1.02
Sub Total (B)	1320	1122	1215	1222	25.98	1082	26.93	-0.95
C. NHPC								
Chamera I HPS	540	534	540	540	12.83	535	12.81	0.02
Chamera II HPS	300	300	301	280	6.46	269	6.50	-0.04
Chamera III HPS	231	187	234	230	4.19	174	4.08	0.11
Bairasuil HPS	180	143	120	120	2.66	111	2.79	-0.13
Salai-HPS	690	555	629	545	13.29	554	13.52	-0.23
Tanakpur-HPS	94	94	94	94	2.25	94	2.24	0.00
Uri-HPS	480	468	477	478	11.10	462	11.40	-0.30
Dhauliganga-HPS	280	277	278	143	5.53	231	5.62	-0.08
Dulhasti-HPS	390	387	412	264	9.12	380	9.12	0.01
Sewa-II HPS	120	80	84	41	1.89	79	1.92	-0.03
Sub Total (C)	3305	3023	3169	2735	69.32	2888	70.01	-0.69
D.NJPC								
Natpca Jhakri	1500	1605	1513	746	23.02	959	22.85	0.16
Sub Total (D)	1500	1605	1513	746	23.02	959	22.85	0.16
E. THDC								
Tehri HPS	1000	1050	1053	733	14.13	589	14.00	0.13
Koteshwar HPS	400	382	382	102	4.65	194	4.60	0.05
Sub Total (E)	1400	1432	1435	835	18.78	783	18.60	0.18
F. BBMB								
Bhakra HPS	1480	574	1087	399	14.29	595	13.78	0.51
Dehar HPS	990	616	660	620	15.06	628	14.79	0.27
Pong HPS	396	227	366	126	5.46	228	5.01	0.45
Sub Total (F)	2866	1417	2113	1145	34.81	1450	33.58	1.23
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	110	77	2.22	93	2.14	0.09
KWHEP HPS(IPP)	1000	0	212	275	12.81	534	11.29	1.53
Malana Stg-II HPS	100	0	45	44	1.06	44	0.93	0.13
Shree Cement TPS	300	0	136	95	25.73	1072	2.76	22.96
Budhil HPS(IPP)	70	0	10	60	1.10	46	0.20	0.90
Sub Total (G)	1662	0	513	551	42.92	1788	17.32	25.61
H. Total Regional Entities (A-G)	22336	16741	17370	13838	367.06	15294	344.46	22.60

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	847	633	17.48	728	
	Guru Nanak Dev TPS(Bhatinda)	440	100	100	2.04	85	
	Guru Hargobind Singh TPS(L.mbt)	920	944	950	20.83	868	
	Thermal (Total)	2620	1891	1683	40.35	1681	
	Total Hydro	1148	575	226	8.58	357	
	Total Punjab	3768	2466	1909	48.93	2039	
Haryana	Panipat TPS	1367	1107	1092	26.36	1098	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	396	394	9.69	404	
	RGTPP (khedar) (IPP)	1200	0	448	6.03	251	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	426	131	7.62	318	
	Thermal (Total)	4944	1929	2065	49.69	2071	
	Total Hydro	62	33	31	0.81	34	
	Total Haryana	5006	1962	2096	50.50	2104	
	Rajasthan	kota TPS	1240	862	869	20.23	843
suratgarh TPS		1500	1097	1012	25.28	1053	
Chabra TPS		500	452	447	10.62	443	
Dholpur GPS		330	133	136	3.21	134	
Ramgarh GPS		111	55	58	1.47	61	
RAPS A (NPC)		300	179	179	4.19	175	
Barsingar (NLC)		250	111	109	2.30	96	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	338	258	8.00	333	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3227	3068	75.29	3137	
Total Hydro		550	49	48	1.60	67	
Wind power		1843	507	467	9.94	414	
Biomass		91	15	15	0.35	15	
Solar		128	0	0	0.00	0	
Renewable/Others (Total)		2062	522	482	11.89	495	
Total Rajasthan		7767	3798	3598	88.78	3699	
UP		Anpara TPS	1630	890	1176	24.40	1017
		Obra TPS	1382	410	305	8.30	346
		Paricha TPS	890	543	534	11.50	479
	Panki TPS	210	105	110	2.40	100	
	Harduaganj TPS	665	78	130	3.00	125	
	Tanda TPS (NTPC)	440	393	395	9.66	402	
	Roza TPS (IPP)	1200	540	540	12.99	541	
	Anpara-C (IPP)	1200	487	446	11.31	471	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	105	95	2.03	84	
	Thermal (Total)	8067	3551	3731	85.59	3566	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	277	0	5.22	217	
	Cogeneration	981	20	20	0.48	20	
	Total UP	9975	4284	4187	101.74	3804	
	Uttarakhand	Total Hydro	1303	892	903	21.48	895
Total Uttarakhand		1303	892	903	21.48	895	
Delhi	Raighat TPS	135	101	98	2.39	100	
	Delhi Gas Turbine	282	74	73	1.86	78	
	Pragati Gas Turbine	330	286	266	6.72	280	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	495	595	11.85	494	
	Thermal (Total)	2237	956	1032	22.82	951	
	Total Delhi	2237	956	1032	22.82	951	
HP	Baspa HPS (IPP)	330	192	121	4.41	184	
	Malana HPS (IPP)	86	54	23	1.14	47	
	Other Hydro	589	568	564	13.49	562	
	Total HP	1005	814	708	19	793	
J & K	Baglihar HPS (IPP)	450	442	440	10.59	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	650	15.32	639	
Total State Control Area Generation		32017	15799	15083	368.60	14923	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1961	3346	74.47	3103	
Total Regional Availability(Gross)		54353	35130	32267	810.13	33320	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8597	5857	162.02	6751
State Control Area Hydro	5368	3267	2566	82.49	3001
Total Regional Hydro	15731	11864	8423	244.51	9752

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	0	-50	100	200	1.30	0.67	0.63
Gwalior-Agra (D/C)	191	631	758	0	12.98	0.00	12.98
Zerda-Kankroli	-94	81	86	117	0.21	0.00	0.21
Zerda-Bhinmal	-85	119	173	175	1.17	0.00	1.17
Malanpur-Auraiya	-136	-33	0	136	0.00	0.83	-0.83
Badod-Kota/Morak	2	44	97	57	0.89	0.00	0.89
Mundra-Mohinderghar(HVDC)	565	568	582	0	13.50	0.00	13.50
Sub Total WR	443	1360			30.05	1.50	28.55
Pusauli Bypass	200	200	250	0	6.05	0.00	6.05
MZP- GKP (D/C)	292	724	742	0	13.20	0.00	13.20
Patna-Balia(D/C)	522	406	639	0	10.98	0.00	10.98
B'Sharif-Balia (D/C)	412	409	563	0	10.40	0.00	10.40
Barh - Balia(D/C)	0	0	282	0	1.08	0.00	1.08
Pusauli-Balia	-11	-8	135	64	0.03	0.00	0.03
Gaya-Fatehpur (765 Kv)	0	139	209	0	1.58	0.00	1.58
Pusauli-Sahupuri	150	158	175	0	3.63	0.00	3.63
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-47	-42	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1518	1986			46.95	1.03	45.92
Total IR Exch	1961	3346			77.00	2.53	74.47

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
29.54	3.79	33.33	5.89	7.05	8.48	-0.18	-0.32	0.33
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
47.38	23.07	70.45	45.92	28.55	74.47	-1.46	5.48	4.02

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	0.90	88.30	87.40	60.30	11.70

<----- 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				
50.42	13.02	49.53	18.42	50.04	0.20	0.13	50.38	49.93

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	415	20:58	407	10:29	0.0	0.0	0.0	0.0
Gorakhpur	400	427	17:01	409	23:07	0.0	0.0	39.1	0.0
Bareilly	400	420	8:04	403	11:20	0.0	0.0	0.0	0.0
Kanpur	400	421	2:54	407	10:43	0.0	0.0	2.4	0.0
Dadri	400	419	2:50	405	11:23	0.0	0.0	0.0	0.0
Ballabhgarh	400	427	2:56	410	10:42	0.0	0.0	37.2	0.0
Bawana	400	422	2:56	407	11:21	0.0	0.0	4.1	0.0
Bassi	400	431	21:31	411	6:00	4.8	4.8	50.4	0.2
Hissar	400	414	2:55	398	15:43	0.0	0.0	0.0	0.0
Moga	400	415	2:56	398	15:40	0.0	0.0	0.0	0.0
Abdullapur	400	421	2:49	405	19:00	0.1	0.1	0.8	0.0
Nalagarh	400	420	6:04	405	15:42	0.0	0.0	0.0	0.0
Kishenpur	400	418	3:01	398	19:28	0.0	0.0	0.0	0.0
Wagoora	400	417	3:01	385	19:35	0.0	7.0	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	504.84	1298.95	512.17	1650.87	749.06	399.89
Pong	426.72	384.05	422.39	1005.78	423.84	1082.23	657.94	253.58
Tehri	829.79	740.04	822.80	1065.00	818.65	982.26	328.35	482.00
Koteshwar	612.50	598.50	609.30	4.21	NA	NA	482.00	504.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	337.32	346.75
Rihand	268.22	252.98	264.11	552.20	265.54	652.40	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	520.00	NA	524.83	NA	360.44	46.18

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.09.2012 :

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 : 22.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER