

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.09.2012
Date of Reporting : 21.09.2012

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
33541	3392	36934	50.11	29963	1130	31093	50.19	748.9	56.78

* 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	21.68	5.06		26.74	90.86	91.73	0.87	118.47	1.80
Haryana	54.46	0.83		55.29	64.90	63.88	-1.02	119.17	1.71
Rajasthan	71.88	1.94	4.09	77.91	51.59	56.05	4.46	133.96	8.95
Delhi	24.00			24.00	65.92	61.17	-4.75	85.16	0.04
UP	85.05	16.71	0.48	102.24	104.80	101.83	-2.96	204.08	40.17
Uttarakhand		20.81		20.81	10.37	10.04	-0.33	30.85	0.38
HP		20.45		20.45	1.33	1.69	0.36	22.14	2.03
J & K		15.32	0.00	15.32	16.48	15.08	-1.40	30.41	1.70
Chandigarh				0.00	5.38	4.63	-0.75	4.63	0.00
Total	257.07	81.13	4.57	342.76	411.63	406.10	-5.54	748.86	56.78

* 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	5604	600	57	825	4602	0	95	1473	32.42	
Haryana	5447	370	-51	599	4784	0	-28	625	15.61	
Rajasthan	5988	266	73	432	5641	0	439	178	5.12	
Delhi	3896	0	-326	115	2974	0	-197	105	4.83	
UP	8262	1900	-343	492	8853	1130	-136	741	13.51	
Uttarakhand	1356	150	28	-129	1181	0	-103	-79	-2.81	
HP	1098	6	-2	-997	842	0	-32	-813	-22.29	
J&K	1663	100	53	-252	942	0	-57	-404	-7.93	
Chandigarh	228	0	-23	31	145	0	-45	0	0.69	
Total	33541	3392	-535	1116	29963	1130	-64	1825	39.14	

* 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	1259	1334	1323	29.49	1229	29.48	0.01
Rihand I STPS	1000	764	918	654	16.96	707	17.02	-0.05
Rihand II STPS	1000	782	1026	665	17.41	725	17.40	0.01
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	598	626	462	11.27	470	11.38	-0.11
Dadri II STPS	980	970	989	700	18.45	769	19.89	-1.45
Unchahar I TPS	420	197	222	183	4.31	180	4.52	-0.21
Unchahar II TPS	420	400	430	317	8.40	350	8.61	-0.21
Unchahar III TPS	210	199	213	154	4.13	172	4.23	-0.11
ISTPP (Jhajjar)	1000	950	480	350	9.12	380	9.47	-0.35
Dadri GPS	830	798	390	397	8.77	365	9.42	-0.65
Anta GPS	419	393	245	207	5.25	219	5.29	-0.04
Auraiya GPS	663	420	277	225	6.34	264	6.34	0.00
Sub Total (A)	10282	7730	7150	5637	139.89	5829	143.06	-3.17
B. NPC								
NAPS	440	268	297	303	6.30	262	6.43	-0.13
RAPS- B	440	408	448	451	9.72	405	9.79	-0.07
RAPS- C	440	455	462	455	9.87	411	10.92	-1.05
Sub Total (B)	1320	1131	1207	1209	25.90	1079	27.14	-1.25
C. NHPC								
Chamera I HPS	540	535	540	360	12.04	502	11.85	0.19
Chamera II HPS	300	300	302	301	7.18	299	7.05	0.13
Chamera III HPS	231	231	233	234	5.49	229	5.51	-0.02
Bairasuil HPS	180	157	182	182	3.48	145	3.10	0.39
Salal-HPS	690	658	648	656	15.60	650	15.69	-0.09
Tanakpur-HPS	94	94	94	87	2.18	91	2.24	-0.07
Uri-HPS	480	475	478	465	11.12	463	10.78	0.34
Dhauliganga-HPS	280	277	278	278	6.68	279	6.68	0.01
Dulhasti-HPS	390	387	402	361	9.23	385	9.17	0.06
Sewa-II HPS	120	80	84	82	1.92	80	1.79	0.12
Sub Total (C)	3305	3193	3241	3006	74.92	3122	73.85	1.07
D.NJPC								
Natpha Jhakri	1500	1605	1522	1013	28.79	1199	29.57	-0.79
Sub Total (D)	1500	1605	1522	1013	28.79	1199	29.57	-0.79
E. THDC								
Tehri HPS	1000	1050	1064	1004	24.91	1038	25.00	-0.09
Koteshwar HPS	400	382	380	270	7.69	320	7.70	-0.02
Sub Total (E)	1400	1432	1444	1274	32.59	1358	32.70	-0.11
F. BBMB								
Bhakra HPS	1480	609	1103	515	14.83	618	14.61	0.22
Dehar HPS	990	616	495	600	14.62	609	14.79	-0.17
Pong HPS	396	88	306	0	2.00	83	5.01	-3.00
Sub Total (F)	2866	1313	1904	1115	31.45	1311	34.41	-2.96
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	120	81	2.40	100	2.30	0.11
KWHEP HPS(IPP)	1000	0	900	620	15.86	661	17.11	-1.25
Malana Stg-II HPS	100	0	51	44	0.11	5	1.29	-1.18
Shree Cement TPS	300	0	98	45	1.84	77	1.63	0.21
Budhil HPS(IPP)	70	0	19	9	0.06	3	0.20	-0.14
Sub Total (G)	1662	0	1188	799	20.28	845	22.53	-2.25
H. Total Regional Entities (A-G)	22336	16404	17656	14053	353.81	14742	363.26	-9.45

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	475	210	7.81	326	
	Guru Nanak Dev TPS(Bhatinda)	440	105	108	2.22	92	
	Guru Hargobind Singh TPS(L.mbt)	920	805	424	11.65	486	
	Thermal (Total)	2620	1385	742	21.68	903	
	Total Hydro	1148	465	96	5.06	211	
	Total Punjab	3768	1850	838	26.74	1114	
Haryana	Panipat TPS	1367	1094	1064	26.15	1090	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	169	140	3.71	155	
	RGTPP (khedar) (IPP)	1200	493	653	11.85	494	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	532	469	12.75	531	
	Thermal (Total)	4944	2288	2326	54.46	2269	
	Total Hydro	62	32	33	0.83	34	
	Total Haryana	5006	2320	2359	55.29	2304	
Rajasthan	kota TPS	1240	789	846	20.08	837	
	suratgarh TPS	1500	1121	1089	25.76	1073	
	Chabra TPS	500	226	214	5.44	227	
	Dholpur GPS	330	202	135	3.42	142	
	Ramgarh GPS	111	57	58	1.49	62	
	RAPS A (NPC)	300	179	179	4.17	174	
	Barsingar (NLC)	250	111	108	2.58	107	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	423	389	8.95	373	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3108	3018	71.88	2995	
	Total Hydro	550	155	116	1.94	81	
	Wind power	1843	16	91	1.68	70	
	Biomass	91	15	15	0.36	15	
	Solar	128	0	0	0.11	5	
	Renewable/Others (Total)	2062	31	106	4.09	170	
	Total Rajasthan	7767	3294	3240	77.91	3246	
	UP	Anpara TPS	1630	1097	1090	23.40	975
		Obra TPS	1382	290	438	6.80	283
		Paricha TPS	890	607	534	12.50	521
Panki TPS		210	115	120	2.50	104	
Harduaganj TPS		665	215	200	4.60	192	
Tanda TPS (NTPC)		440	389	395	9.60	400	
Roza TPS (IPP)		1200	540	531	12.97	541	
Anpara-C (IPP)		1200	449	477	11.33	472	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	68	23	1.35	56	
Thermal (Total)		8067	3770	3808	85.05	3544	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	255	0	6.25	261	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	4481	4264	102.24	3824	
Uttarakhand		Total Hydro	1303	874	862	20.81	867
		Total Uttarakhand	1303	874	862	20.81	867
Delhi	Raighat TPS	135	100	93	2.57	107	
	Delhi Gas Turbine	282	74	75	1.94	81	
	Pragati Gas Turbine	330	296	264	6.95	290	
	Rithala GPS	108	19	21	0.40	17	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	580	523	12.13	506	
	Thermal (Total)	2237	1069	976	24.00	1000	
	Total Delhi	2237	1069	976	24.00	1000	
HP	Baspa HPS (IPP)	330	328	169	5.40	225	
	Malana HPS (IPP)	86	61	66	1.54	64	
	Other Hydro	589	571	570	13.51	563	
	Total HP	1005	960	805	20	852	
J & K	Baglihar HPS (IPP)	450	442	438	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	648	15.32	639	
Total State Control Area Generation		32017	15475	13992	342.76	13846	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1920	2871	62.32	2597	
Total Regional Availability(Gross)		54353	35051	30916	758.89	31185	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9182	7153	186.12	7755
State Control Area Hydro	5368	3368	2560	81.13	2944
Total Regional Hydro	15731	12550	9713	267.25	10700

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	150	50	300	0	3.81	0.00	3.81		3.81
Gwalior-Agra (D/C)	240	539	624	0	10.63	0.00	10.63		10.63
Zerda-Kankroli	-31	34	106	70	0.00	0.44	-0.44		-0.44
Zerda-Bhinmal	33	90	145	33	0.96	0.00	0.96		0.96
Malanpur-Auraiya	-112	-54	0	119	0.00	1.60	-1.60		-1.60
Badod-Kota/Morak	-5	48	39	24	0.29	0.00	0.29		0.29
Mundra-Mohindergarh(HVDC)	587	597	602	0	14.29	0.00	14.29		14.29
Sub Total WR	862	1304			29.98	2.04	27.94		
Pusauli Bypass	250	250	250	0	6.04	0.00	6.04		6.04
MZP- GKP (D/C)	346	592	644	0	12.43	0.00	12.43		12.43
Patna-Balia(D/C)	234	184	303	0	5.80	0.00	5.80		5.80
B'Sharif-Balia (D/C)	158	228	337	0	5.88	0.00	5.88		5.88
Barh - Balia(D/C)	0	224	239	0	1.06	0.00	1.06		1.06
Pusauli-Balia	-90	-40	0	94	0.00	1.41	-1.41		-1.41
Gaya-Fatehpur (765 Kv)	34	0	159	0	2.03	0.00	2.03		2.03
Pusauli-Sahupuri	171	154	182	0	3.53	0.00	3.53		3.53
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.98	-0.98		-0.98
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		0.00
Sub Total ER	1058	1567			36.77	2.39	34.38		
Total IR Exch	1920	2871			66.75	4.43	62.32		

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
30.02	3.72	33.73	2.76	12.07	4.24	-2.85	-0.79	0.81
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
39.95	25.03	64.98	34.38	27.94	62.32	-5.57	2.91	-2.66

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	1.40	84.90	83.50	65.80	15.10

<----- 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				
50.44	18.03	49.55	19.18	50.05	0.23	0.14	50.46	0.00

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	2:55	408	0:00	0.0	0.0	0.0	0.0
Gorakhpur	400	432	6:09	419	9:30	0.0	0.0	89.9	2.7
Bareilly	400	420	4:00	404	16:23	0.0	0.0	0.0	0.0
Kanpur	400	423	4:00	410	16:23	0.0	0.0	23.1	0.0
Dadri	400	419	3:58	406	14:36	0.0	0.0	0.0	0.0
Ballabhgarh	400	427	3:56	411	19:15	0.0	0.0	42.1	0.0
Bawana	400	423	4:00	407	19:14	0.0	0.0	19.6	0.0
Bassi	400	428	1:06	407	19:21	0.0	0.0	36.1	0.0
Hissar	400	416	4:02	401	9:41	0.0	0.0	0.0	0.0
Moga	400	417	4:01	401	18:57	0.0	0.0	0.0	0.0
Abdullapur	400	420	3:58	295	8:32	0.2	0.2	0.0	0.0
Nalagarh	400	419	4:00	406	11:36	0.0	0.0	0.0	0.0
Kishenpur	400	417	4:00	399	19:13	0.0	0.0	0.0	0.0
Wagoora	400	414	2:58	387	19:21	0.0	4.7	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	504.63	1298.95	512.24	1667.20	859.02	383.30
Pong	426.72	384.05	422.24	990.81	423.85	1082.23	870.77	112.62
Tehri	829.79	740.04	822.95	1060.00	818.65	982.26	374.76	543.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	352.91	326.52
Rihand	268.22	252.98	264.05	548.10	265.60	656.80	NA	NA
RPS	352.80	343.81	352.64	NA	NA	NA	167.89	NA
Jawahar Sagar	298.70	295.78	297.12	NA	NA	NA	677.88	NA
RSD	527.91	487.91	515.42	NA	524.44	NA	544.62	233.10

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 20.09.2012 :

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 : 20.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER