

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.09.2012

Date of Reporting : 14.09.2012

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
35640	3825	39465	50.09	35035	461	35496	50.22	843.2	39.10

* 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	53.43	14.60		68.03	111.89	112.19	0.29	180.21	1.80
Haryana	65.37	0.74		66.11	69.43	69.33	-0.10	135.44	4.15
Rajasthan	64.28	2.57	5.47	72.32	52.90	54.93	2.03	127.25	3.11
Delhi	23.74			23.74	75.92	72.58	-3.34	96.32	0.12
UP	76.00	15.77	0.48	92.26	122.74	121.73	-1.01	213.98	27.51
Uttarakhand		17.64		17.64	12.20	11.48	-0.72	29.12	0.46
HP		24.00		24.00	1.07	1.11	0.04	25.11	0.25
J & K		15.21	0.00	15.21	19.01	14.95	-4.06	30.16	1.70
Chandigarh				0.00	5.95	5.63	-0.32	5.63	0.00
Total	282.82	90.54	5.95	379.31	471.11	463.91	-7.20	843.22	39.10

* 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	7375	600	-124	1487	7608	0	12	2133	47.12	
Haryana	5608	907	-128	1017	5263	223	70	627	18.40	
Rajasthan	5386	453	52	349	5116	29	88	178	3.22	
Delhi	4365	9	-183	377	3515	0	-24	267	7.84	
UP	8523	1677	-48	645	10323	210	-29	1223	23.45	
Uttarakhand	1317	80	28	-28	1132	0	-202	-74	-1.41	
HP	1188	0	19	-1036	917	0	-30	-1079	-25.14	
J&K	1611	100	-26	-224	972	0	-270	-368	-7.15	
Chandigarh	267	0	-8	20	189	0	-21	0	0.60	
Total	35640	3825	-418	2608	35035	461	-405	2906	66.94	

* 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	1553	1529	34.20	1425	34.20	-0.01
Rihand I STPS	1000	827	837	898	19.38	807	19.82	-0.44
Rihand II STPS	1000	965	1028	1006	22.93	955	23.08	-0.15
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	600	635	465	12.51	521	12.79	-0.29
Dadri II STPS	980	970	991	768	19.74	823	21.37	-1.62
Unchahar I TPS	420	197	197	193	4.28	178	4.62	-0.34
Unchahar II TPS	420	400	209	173	4.32	180	9.17	-4.85
Unchahar III TPS	210	199	209	173	4.32	180	4.54	-0.22
ISTPP (Jhajhar)	1000	940	811	582	17.65	736	17.88	-0.23
Dadri GPS	830	793	579	574	13.56	565	14.00	-0.44
Anta GPS	419	393	255	258	5.87	244	5.97	-0.10
Auraiya GPS	663	624	313	313	7.39	308	8.39	-1.00
Sub Total (A)	10282	8334	7617	6932	166.15	6923	175.84	-9.69
B. NPC								
NAPS	440	258	298	297	6.20	258	6.19	0.01
RAPS- B	440	397	449	451	9.77	407	9.53	0.24
RAPS- C	440	410	462	463	9.87	411	9.84	0.03
Sub Total (B)	1320	1065	1209	1211	25.84	1077	25.56	0.28
C. NHPC								
Chamera I HPS	540	534	540	540	12.73	531	12.81	-0.08
Chamera II HPS	300	300	300	302	7.17	299	7.20	-0.02
Chamera III HPS	231	228	233	233	5.17	215	5.48	-0.31
Bairasuil HPS	180	120	120	120	2.72	114	2.40	0.32
Salai-HPS	690	666	664	664	15.87	661	15.98	-0.11
Tanakpur-HPS	94	91	93	94	2.01	84	2.24	-0.23
Uri-HPS	480	426	470	480	10.39	433	10.38	0.01
Dhauliganga-HPS	280	277	278	276	6.69	279	6.68	0.00
Duihasti-HPS	390	387	402	393	9.16	382	9.22	-0.06
Sewa-II HPS	120	80	85	80	1.80	75	1.82	-0.03
Sub Total (C)	3305	3109	3185	3182	73.71	3071	74.22	-0.51
D.NJPC								
Natpna Jhakri	1500	1605	1517	1616	36.70	1529	36.45	0.25
Sub Total (D)	1500	1605	1517	1616	36.70	1529	36.45	0.25
E. THDC								
Tehri HPS	1000	1050	1055	1002	20.44	852	20.50	-0.06
Koteswar HPS	400	390	389	100	7.24	302	7.25	-0.01
Sub Total (E)	1400	1440	1444	1102	27.68	1153	27.75	-0.07
F. BBMB								
Bhakra HPS	1480	813	1231	544	19.85	827	19.51	0.34
Dehar HPS	990	613	660	620	15.14	631	14.70	0.44
Pong HPS	396	202	366	120	4.95	206	5.01	-0.06
Sub Total (F)	2866	1628	2257	1284	39.94	1664	39.22	0.72
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	182	92	3.05	127	2.75	0.30
KWHEP HPS(IPP)	1000	0	1010	1010	23.64	985	22.95	0.69
Malana Stg-II HPS	100	0	102	82	2.18	91	1.88	0.31
Shree Cement TPS	300	0	103	74	2.23	93	2.27	-0.05
Budhil HPS(IPP)	70	0	0	39	0.62	26	0.17	0.45
Sub Total (G)	1662	0	1397	1297	31.72	1322	30.03	1.69
H. Total Regional Entities (A-G)	22336	17180	18626	16624	401.74	16739	409.06	-7.32

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	1251	1244	27.68	1153	
	Guru Nanak Dev TPS(Bhatinda)	440	208	217	5.07	211	
	Guru Hargobind Singh TPS(L.mbt)	920	932	943	20.68	862	
	Thermal (Total)	2620	2391	2404	53.43	2226	
	Total Hydro	1148	699	535	14.60	608	
	Total Punjab	3768	3090	2939	68.03	2834	
Haryana	Panipat TPS	1367	1104	1084	26.68	1112	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	395	401	9.20	383	
	RGTPP (khedar) (IPP)	1200	750	757	17.96	748	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	500	450	11.54	481	
	Thermal (Total)	4944	2749	2692	65.37	2724	
	Total Hydro	62	29	29	0.74	31	
	Total Haryana	5006	2778	2721	66.11	2755	
Rajasthan	kota TPS	1240	659	643	15.51	646	
	suratgarh TPS	1500	1112	1097	25.97	1082	
	Chabra TPS	500	428	445	10.19	425	
	Dholpur GPS	330	140	140	3.26	136	
	Ramgarh GPS	111	71	65	1.61	67	
	RAPS A (NPC)	300	179	179	4.16	173	
	Barsingar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	270	144	3.57	149	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2859	2713	64.28	2678	
	Total Hydro	550	57	116	2.57	107	
	Wind power	1843	17	105	2.32	97	
	Biomass	91	20	20	0.47	20	
	Solar	128	0	0	0.12	5	
	Renewable/Others (Total)	2062	37	125	5.47	228	
	Total Rajasthan	7767	2953	2954	72.32	3013	
	UP	Anpara TPS	1630	1004	897	23.10	963
		Obra TPS	1382	340	349	8.30	346
Paricha TPS		890	383	385	9.80	408	
Panki TPS		210	77	99	1.90	79	
Harduaganj TPS		665	275	221	5.50	229	
Tanda TPS (NTPC)		440	286	294	7.19	300	
Roza TPS (IPP)		1200	549	540	12.81	534	
Anpara-C (IPP)		1200	0	467	1.70	71	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	185	284	5.70	237	
Thermal (Total)		8067	3099	3536	76.00	3167	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	225	0	5.31	221	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	3780	3992	92.26	3408	
Uttarakhand		Total Hydro	1303	741	838	17.64	735
	Total Uttarakhand	1303	741	838	17.64	735	
Delhi	Raighat TPS	135	91	49	1.58	66	
	Delhi Gas Turbine	282	147	144	3.55	148	
	Pragati Gas Turbine	330	293	261	6.81	284	
	Rithala GPS	108	21	37	0.60	25	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	540	475	11.20	467	
	Thermal (Total)	2237	1092	966	23.74	989	
	Total Delhi	2237	1092	966	23.74	989	
HP	Baspa HPS (IPP)	330	335	304	7.57	316	
	Malana HPS (IPP)	86	108	82	2.12	88	
	Other Hydro	589	624	587	14.31	596	
	Total HP	1005	1067	973	24	1000	
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	16120	16029	379.31	15369	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2427	3780	79.19	3300	
Total Regional Availability(Gross)		54353	37173	36433	860.24	35408	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9697	8368	206.90	8621
State Control Area Hydro	5368	3437	3137	90.54	3337
Total Regional Hydro	15731	13134	11505	297.44	11957

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	-100	250	250	100	4.48	0.59	3.89		
Gwalior-Agra (D/C)	315	612	811	0	13.84	0.00	13.84		
Zerda-Kankroli	-18	12	36	128	0.00	0.67	-0.67		
Zerda-Bhinmal	58	84	129	70	1.20	0.00	1.20		
Malanpur-Auraiya	-103	-44	0	123	0.00	0.78	-0.78		
Badod-Kota/Morak	37	101	127	11	0.46	0.00	0.46		
Mundra-Mohindergarh(HVDC)	475	533	534	0	12.23	0.00	12.23		
Sub Total WR	664	1548			32.21	2.03	30.18		
Pusauli Bypass	300	300	300	0	7.19	0.00	7.19		
MZP- GKP (D/C)	626	800	900	0	17.44	0.00	17.44		
Patna-Balia(D/C)	374	455	467	0	9.25	0.00	9.25		
B'Sharif-Balia (D/C)	285	496	496	0	9.27	0.00	9.27		
Barh - Balia(D/C)	0	0	327	0	1.81	0.00	1.81		
Pusauli-Balia	-33	-13	0	186	0.00	0.79	-0.79		
Gaya-Fatehpur (765 Kv)	97	40	149	0	1.92	0.00	1.92		
Pusauli-Sahupuri	159	179	179	0	3.72	0.00	3.72		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-45	-25	0	48	0.00	0.79	-0.79		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1763	2232			50.59	1.58	49.01		
Total IR Exch	2427	3780			82.80	3.61	79.19		

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
31.56	3.72	35.28	17.39	16.94	1.05	2.28	0.52	-0.39
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
54.24	23.54	77.78	49.01	30.18	79.19	-5.22	6.64	1.42

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	0.07	1.39	94.38	92.98	77.50	5.62

<----- 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				
50.45	13.03	49.49	19.12	50.10	0.22	0.10	50.39	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	18:04	405	0:28	0.0	0.0	0.0	0.0
Gorakhpur	400	425	5:06	405	1:10	0.0	0.0	9.4	0.0
Bareilly	400	421	18:04	400	0:23	0.0	0.0	0.1	0.0
Kanpur	400	421	18:01	407	0:19	0.0	0.0	0.6	0.0
Dadri	400	412	3:09	400	10:49	0.0	0.0	0.0	0.0
Ballabhgarh	400	421	3:17	407	10:47	0.0	0.0	0.6	0.0
Bawana	400	415	8:07	401	10:49	0.0	0.0	0.0	0.0
Bassi	400	433	3:05	410	10:31	0.0	0.0	72.8	3.0
Hissar	400	410	3:08	395	14:19	0.0	0.0	0.0	0.0
Moga	400	415	3:12	398	9:26	0.0	0.0	0.0	0.0
Abdullapur	400	410	3:16	398	10:49	0.0	0.0	0.0	0.0
Nalagarh	400	409	3:03	390	14:17	0.0	0.0	0.0	0.0
Kishenpur	400	413	2:36	400	20:07	0.0	0.0	0.0	0.0
Wagoora	400	411	2:42	386	20:09	0.0	5.7	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	502.17	1192.70	512.23	1667.20	996.64	586.75
Pong	426.72	384.05	419.23	848.35	423.24	1051.02	843.44	287.19
Tehri	829.79	740.04	822.25	1045.00	818.65	982.26	562.67	448.00
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	262.80	466.80	265.61	650.20	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	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 13.09.2012 :

1: Partial rains in UP, Punjab , J & K , HP,Uttranchal.

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 : 13.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER