

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.01.2013
Date of Reporting : 10.01.2013

I. Regional Availability/Demand:

Evening Peak (19:00 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
35517	4344	39860	50.04	28243	2045	30288	50.17	758.5	82.01

* 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	50.34	12.66		63.00	29.61	30.05	0.44	93.05	6.71
Haryana	64.45	0.44		64.89	41.02	40.82	-0.20	105.71	6.36
Rajasthan	86.19	4.50	1.79	92.47	80.83	82.59	1.76	175.06	4.01
Delhi	30.47			30.47	45.05	41.70	-3.35	72.17	0.02
UP	119.64	4.88	18.00	142.52	76.02	76.50	0.49	219.02	57.78
Uttarakhand		8.31		8.31	19.80	20.85	1.05	29.16	4.36
HP		3.67		3.67	20.81	20.31	-0.50	23.98	1.08
J & K		3.18	0.00	3.18	27.47	32.64	5.17	35.82	1.70
Chandigarh				0.00	4.22	4.57	0.35	4.57	0.00
Total	351.09	37.64	19.79	408.51	344.83	350.03	5.20	758.54	82.01

* 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 (19:00 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	
Punjab	4859	843	76	-415	3505	0	64	45	-7.37
Haryana	5135	422	-188	-181	3683	0	-140	-262	-6.11
Rajasthan	7431	702	397	1238	6964	0	-57	1674	38.96
Delhi	3673	0	-127	-211	1699	0	12	-1796	-18.21
UP	9583	2183	-155	-121	8815	1965	-32	-179	-3.70
Uttarakhand	1569	80	28	410	1080	80	-8	448	9.51
HP	1234	14	-76	377	754	0	-28	416	8.87
J&K	1795	100	-63	352	1641	0	283	432	8.32
Chandigarh	237	0	1	11	101	0	13	-31	0.44
Total	35517	4344	-107	1460	28243	2045	108	748	30.71

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	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	1955	2101	2096	47.39	1974	46.92	0.47
	Rihand I STPS	1000	920	992	973	22.11	921	22.08	0.03
	Rihand II STPS	1000	975	1037	1024	23.37	974	23.40	-0.03
	Rihand III STPS	500	227	319	281	5.14	214	5.38	-0.24
	Dadri I STPS	840	654	840	631	15.58	649	15.52	0.06
	Dadri II STPS	980	830	1000	766	19.76	823	19.84	-0.09
	Unchahar I TPS	420	406	440	404	9.61	400	9.74	-0.14
	Unchahar II TPS	420	404	441	410	9.51	396	9.70	-0.18
	Unchahar III TPS	210	202	219	211	4.81	200	4.85	-0.04
	ISTPP (Jhajihar)	1500	871	626	362	15.41	642	15.63	-0.22
	Dadri GPS	830	836	662	457	14.44	602	14.64	-0.20
	Anta GPS	419	438	421	354	9.42	392	9.54	-0.12
	Auraiya GPS	663	511	427	284	8.74	364	8.70	0.04
	Sub Total (A)	10782	9229	9525	8253	205.28	8553	205.94	-0.66
B. NPC	NAPS	440	300	333	338	7.17	299	7.20	-0.03
	RAPS- B	440	420	459	468	10.16	423	10.08	0.08
	RAPS- C	440	220	237	239	4.95	206	5.28	-0.33
	Sub Total (B)	1320	940	1029	1045	22.28	928	22.56	-0.28
C. NHPC	Chamera I HPS	540	550	360	0	1.66	69	1.65	0.01
	Chamera II HPS	300	303	0	0	1.07	45	1.16	-0.09
	Chamera III HPS	231	231	68	0	0.58	24	0.57	0.00
	Bairasuil HPS	180	182	60	0	0.44	18	0.41	0.03
	Salal-HPS	690	103	216	30	2.71	113	2.61	0.10
	Tanakpur-HPS	94	21	31	17	0.57	24	0.56	0.01
	Uri-HPS	480	111	220	39	2.62	109	2.40	0.22
	Dhauliganga-HPS	280	210	71	0	1.05	44	1.05	0.00
	Dulhasti-HPS	390	259	275	0	2.85	119	2.61	0.24
	Sewa-II HPS	120	120	118	0	0.34	14	0.37	-0.03
	Sub Total (C)	3305	2089	1419	86	13.88	578	13.40	0.48
D.NJPC	Nathpa Jhakri	1500	1350	824	0	5.87	245	6.20	-0.33
	Sub Total (D)	1500	1350	824	0	5.87	245	6.20	-0.33
E. THDC	Tehri HPS	1000	1020	1020	0	9.82	409	9.80	0.02
	Koteshwar HPS	400	400	400	86	3.47	145	3.40	0.07
Sub Total (E)	1400	1420	1420	86	13.29	554	13.20	0.09	
F. BBMB	Bhakra HPS	1480	661	1106	419	16.29	679	15.86	0.43
	Dehar HPS	990	106	495	0	2.62	109	2.56	0.06
	Pong HPS	396	188	306	66	4.69	195	5.01	-0.32
	Sub Total (F)	2866	955	1907	485	23.60	983	23.42	0.18
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.38	16	0.36	0.01
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	19	0	0.14	6	0.13	0.01
	Shree Cement TPS	300	0	287	217	6.46	269	6.47	-0.01
	Budhil HPS(IPP)	70	0	0	0	0.03	1	0.03	0.00
	Sub Total (G)	1662	0	306	217	7.01	292	6.99	0.02
H. Total Regional Entities (A-G)	22836	15983	16430	10172	291.22	12134	291.71	-0.49	

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	1050	950	23.44	977	
	Guru Nanak Dev TPS(Bhatinda)	440	218	295	5.49	229	
	Guru Hargobind Singh TPS(L.mbt)	920	965	949	21.40	892	
	Thermal (Total)	2620	2233	2194	50.34	2097	
	Total Hydro	1148	630	270	12.66	528	
	Total Punjab	3768	2863	2464	63.00	2625	
Haryana	Panipat TPS	1367	906	1127	25.36	1057	
	DCRTPP (Yamuna nagar)	600	280	281	6.63	276	
	Faridabad GPS (NTPC)	432	432	277	9.70	404	
	RGTPP (khedar) (IPP)	1200	565	486	12.43	518	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	599	371	10.33	431	
	Thermal (Total)	4944	196	2542	64.45	2685	
	Total Hydro	62	18	20	0.44	18	
	Total Haryana	5006	214	2562	64.89	2704	
	Rajasthan	kota TPS	1240	1171	1092	27.21	1134
		suratgarh TPS	1500	1108	947	25.70	1071
Chabra TPS		500	400	332	9.33	389	
Dholpur GPS		330	142	130	3.25	135	
Ramgarh GPS		111	79	84	2.02	84	
RAPS A (NPC)		300	217	217	4.64	193	
Barsingsar (NLC)		250	219	108	3.96	165	
Giral LTPS		250	64	66	1.32	55	
Rajwest LTPS (IPP)		675	363	364	8.77	366	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3763	3340	86.19	3591	
Total Hydro		550	192	80	4.50	187	
Wind power		2191	13	0	1.09	45	
Biomass		91	23	23	0.54	23	
Solar		201	4	0	0.16	7	
Renewable/Others (Total)		2483	36	23	1.79	74	
Total Rajasthan		8324	3991	3443	92.47	3853	
UP	Anpara TPS	1630	1218	1211	28.20	1175	
	Obra TPS	1382	482	492	11.70	488	
	Paricha TPS	890	636	630	15.30	638	
	Panki TPS	210	63	0	0.90	38	
	Harduaganj TPS	665	260	240	6.00	250	
	Tanda TPS (NTPC)	440	399	406	9.85	410	
	Roza TPS (IPP)	1200	1098	1031	26.00	1083	
	Anpara-C (IPP)	1200	616	608	14.64	610	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	363	7.05	294	
	Thermal (Total)	8067	5137	4981	119.64	4985	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	229	197	4.88	203	
	Cogeneration	981	750	750	18.00	750	
	Total UP	9975	6116	5928	142.52	5938	
Uttarakhand	Total Hydro	1303	471	292	8.31	346	
	Total Uttarakhand	1303	471	292	8.31	346	
Delhi	Raighat TPS	135	57	107	1.65	69	
	Delhi Gas Turbine	282	146	82	2.90	121	
	Pragati Gas Turbine	330	314	266	7.46	311	
	Rithala GPS	108	20	0	0.13	5	
	Bawana GPS	677	193	128	4.18	174	
	Badarpur TPS (NTPC)	705	620	580	14.15	590	
	Thermal (Total)	2237	1350	1163	30.47	1270	
	Total Delhi	2237	1350	1163	30.47	1270	
HP	Baspa HPS (IPP)	330	30	0	0.83	34	
	Malana HPS (IPP)	86	32	0	0.20	8	
	Other Hydro	589	135	83	2.64	110	
	Total HP	1005	197	83	4	153	
J & K	Baglihar HPS (IPP)	450	134	132	3.18	132	
	Other Hydro	323	0	0	0.00	0	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	134	132	3.18	132	
Total State Control Area Generation		32574	15336	16067	408.51	17021	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2457	3467	85.27	3553	
Total Regional Availability(Gross)		55410	34223	29706	785.00	32708	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5589	657	57.16	2382
State Control Area Hydro	5368	1871	1074	37.64	1568
Total Regional Hydro	15731	7460	1731	94.80	3950

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	200	300	500	100	5.63	0.02	5.61
Gwalior-Agra (D/C)	312	569	827	0	12.38	0.00	12.38
Zerda-Kankroli	-18	80	161	26	1.68	0.00	1.68
Zerda-Bhinmal	91	185	309	0	4.17	0.00	4.17
Malanpur-Auraiya	-189	-92	0	189	0.00	2.38	-2.38
Badod-Kota/Morak	-11	46	53	109	0.00	0.20	-0.20
Mundra-Mohindergarh(HVDC)	799	796	799	0	18.49	0.00	18.49
Sub Total WR	1184	1884			42.35	2.60	39.75
Pusaui Bypass	300	300	300	0	6.64	0.00	6.64
MZP- GKP (D/C)	244	442	751	0	14.69	0.00	14.69
Patna-Balia(D/C)	539	411	751	0	14.69	0.00	14.69
B'Sharif-Balia (D/C)	124	242	471	0	5.41	0.00	5.41
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusaui-Balia	-113	-58	27	113	0.00	1.58	-1.58
Gaya-Fatehpur (765 Kv)	68	192	279	0	3.83	0.00	3.83
Pusaui-Sahupuri	143	91	152	0	2.83	0.00	2.83
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-37	0	48	0.00	0.99	-0.99
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1273	1583			48.08	2.56	45.52
Total IR Exch	2457	3467			90.44	5.17	85.27

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
37.83	0.25	38.08	-0.27	5.91	0.13	19.71	0.72	-0.70

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
38.66	42.10	80.76	45.52	39.75	85.27	6.86	-2.35	4.51

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	2.20	87.60	85.40	63.00	12.40

<----- 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				
50.53	18.01	49.53	20.08	50.03	0.26	0.16	50.37	49.82

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	405	13:15	397	6:28	0.0	0.0	0.0	0.0
Gorakhpur	400	430	13:06	416	21:25	0.0	0.0	76.7	0.0
Bareilly	400	418	13:16	400	10:13	0.0	0.0	0.0	0.0
Kanpur	400	415	0:00	399	9:05	0.0	0.0	0.0	0.0
Dadri	400	416	0:00	400	9:20	0.0	0.0	0.0	0.0
Ballabgarh	400	422	4:31	403	10:13	0.0	0.0	5.4	0.0
Bawana	400	421	4:31	403	10:09	0.0	0.0	0.8	0.0
Bassi	400	427	4:04	394	8:38	0.0	0.0	8.7	0.0
Hissar	400	409	6:05	391	10:18	0.0	0.0	0.0	0.0
Moga	400	414	20:19	395	12:17	0.0	0.0	0.0	0.0
Abdullapur	400	421	4:33	403	11:22	0.0	0.0	0.1	0.0
Nalagarh	400	420	20:16	401	11:05	0.0	0.0	0.0	0.0
Kishenpur	400	414	6:06	389	12:12	0.0	0.9	0.0	0.0
Wagooa	400	403	6:08	361	18:49	33.9	78.9	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	492.97	827.99	500.47	1114.30	157.19	451.65
Pong	426.72	384.05	409.79	484.26	412.78	588.94	61.31	301.35
Tehri	829.79	740.04	806.75	743.75	818.65	982.26	35.47	231.00
Koteswar	612.50	598.50	609.30	4.21	NA	NA	231.00	230.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	42.22	44.86
Rihand	268.22	252.98	266.94	500.10	263.50	617.70	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	515.02	NA	509.91	NA	58.67	250.83

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.01.2013 :

1. fog in Haryana , West UP and shallow fog Delhi/NCR .

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 : 09.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER