

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.01.2013
Date of Reporting : 13.01.2013

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
33549	3744	37293	50.12	28537	2235	30772	50.23	745.6	82.21

* 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	49.20	11.57		60.77	33.16	33.30	0.15	94.07	2.83
Haryana	72.82	0.41		73.23	40.27	38.83	-1.43	112.06	0.26
Rajasthan	76.74	5.15	18.31	100.20	77.01	76.82	-0.19	177.03	1.80
Delhi	31.62			31.62	37.21	30.84	-6.37	62.46	0.10
UP	101.50	4.75	18.00	124.25	74.12	77.37	3.26	201.62	69.02
Uttarakhand		8.48		8.48	21.11	21.10	-0.01	29.58	4.87
HP		4.06		4.06	19.39	19.64	0.25	23.70	1.63
J & K		8.18	0.00	8.18	28.46	32.87	4.41	41.05	1.70
Chandigarh				0.00	3.58	3.99	0.41	3.99	0.00
Total	331.89	42.59	36.31	410.79	334.30	334.77	0.47	745.56	82.21

* 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	4517	600	-31	-421	3780	0	37	170	-4.87
Haryana	5261	52	4	-195	3997	0	-203	-270	-6.78
Rajasthan	7600	95	80	896	7161	0	-253	1272	40.29
Delhi	3170	1	-305	-459	1494	0	-173	-1564	-20.44
UP	8333	2688	-157	362	8476	2120	314	-179	-2.31
Uttarakhand	1487	180	-14	447	1072	115	15	442	11.55
HP	1145	28	-8	315	794	0	0	430	8.48
J&K	1829	100	-30	452	1662	0	227	532	9.44
Chandigarh	208	0	-11	29	101	0	13	-31	-0.04
Total	33549	3744	-473	1426	28537	2235	-23	803	35.33

* 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	2084	2082	46.88	1953	46.92	-0.04
	Rihand I STPS	1000	920	993	850	22.03	918	21.67	0.35
	Rihand II STPS	1000	975	1034	995	23.44	977	22.87	0.57
	Rihand III STPS	500	-10	0	0	-0.18	-7	-0.24	0.06
	Dadri I STPS	840	810	684	634	15.41	642	15.77	-0.35
	Dadri II STPS	980	975	990	873	20.44	852	21.15	-0.70
	Unchahar I TPS	420	406	434	412	9.66	402	9.66	-0.01
	Unchahar II TPS	420	405	437	428	9.64	401	9.64	0.00
	Unchahar III TPS	210	202	221	206	4.77	199	4.80	-0.03
	ISTPP (Jhajihar)	1500	980	880	633	17.22	718	15.18	2.05
	Dadri GPS	830	847	463	473	12.42	518	12.68	-0.26
	Anta GPS	419	427	250	260	6.24	260	6.58	-0.34
	Auraiya GPS	663	669	323	260	7.24	302	7.70	-0.47
	Sub Total (A)	10782	9561	8793	8106	195.22	8134	194.38	0.84
B. NPC	NAPS	440	142	164	163	3.40	142	3.41	-0.01
	RAPS- B	440	253	231	234	5.10	213	6.08	-0.98
	RAPS- C	440	220	236	239	5.10	213	5.28	-0.18
	Sub Total (B)	1320	615	631	636	13.60	567	14.77	-1.17
C. NHPC	Chamera I HPS	540	550	360	0	1.61	67	1.60	0.00
	Chamera II HPS	300	303	72	0	1.05	44	1.08	-0.03
	Chamera III HPS	231	231	70	0	0.57	24	0.58	0.00
	Bairasuil HPS	180	182	60	0	0.45	19	0.40	0.04
	Salal-HPS	690	107	225	32	2.74	114	2.69	0.04
	Tanakpur-HPS	94	25	21	25	0.62	26	0.61	0.00
	Uri-HPS	480	108	87	44	2.53	106	2.42	0.11
	Dhauliganga-HPS	280	210	72	0	1.02	42	1.01	0.01
	Dulhasti-HPS	390	257	222	0	2.41	101	2.48	-0.06
	Sewa-II HPS	120	120	116	0	0.27	11	0.29	-0.02
Sub Total (C)	3305	2092	1305	101	13.26	552	13.16	0.09	
D.NJPC	Nathpa Jhakri	1500	1350	1011	0	6.55	273	6.54	0.01
	Sub Total (D)	1500	1350	1011	0	6.55	273	6.54	0.01
E. THDC	Tehri HPS	1000	1020	1005	0	9.82	409	9.80	0.02
	Koteshwar HPS	400	400	399	86	3.44	143	3.40	0.04
Sub Total (E)	1400	1420	1404	86	13.27	553	13.20	0.06	
F. BBMB	Bhakra HPS	1480	650	1106	419	16.00	667	15.59	0.41
	Dehar HPS	990	127	495	145	3.10	129	3.05	0.06
	Pong HPS	396	192	306	66	4.76	198	5.01	-0.25
	Sub Total (F)	2866	968	1907	630	23.86	994	23.64	0.22
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.39	16	0.37	0.02
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	21	0	0.15	6	0.13	0.02
	Shree Cement TPS	300	0	281	144	6.11	255	6.12	0.00
	Budhil HPS(IPP)	70	0	0	0	0.03	1	0.03	0.00
	Sub Total (G)	1662	0	302	144	6.68	278	6.64	0.04
H. Total Regional Entities (A-G)	22836	16007	15353	9703	272.44	11352	272.34	0.10	

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	990	1052	23.36	973	
	Guru Nanak Dev TPS(Bhatinda)	440	190	218	4.53	189	
	Guru Hargobind Singh TPS(L.mbt)	920	960	976	21.31	888	
	Thermal (Total)	2620	2140	2246	49.20	2050	
	Total Hydro	1148	458	262	11.57	482	
	Total Punjab	3768	2598	2508	60.77	2532	
Haryana	Panipat TPS	1367	970	1085	25.53	1064	
	DCRTPP (Yamuna nagar)	600	281	284	6.65	277	
	Faridabad GPS (NTPC)	432	282	273	8.15	340	
	RGTPP (khedar) (IPP)	1200	935	867	21.96	915	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	583	353	10.53	439	
	Thermal (Total)	4944	196	2862	72.82	3034	
	Total Hydro	62	14	19	0.41	17	
	Total Haryana	5006	210	2881	73.23	3051	
	Rajasthan	kota TPS	1240	1178	1074	26.79	1116
		suratgarh TPS	1500	1091	954	24.64	1027
Chabra TPS		500	224	223	5.17	215	
Dholpur GPS		330	141	128	3.16	132	
Ramgarh GPS		111	43	41	1.06	44	
RAPS A (NPC)		300	217	217	4.77	199	
Barsingsar (NLC)		250	109	109	2.44	102	
Giral LTPS		250	66	128	1.63	68	
Rajwest LTPS (IPP)		675	298	362	7.09	296	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3367	3236	76.74	3198	
Total Hydro		550	165	123	5.15	214	
Wind power		2191	285	1147	17.63	734	
Biomass		91	22	22	0.53	22	
Solar		201	4	0	0.16	7	
Renewable/Others (Total)		2483	307	1169	18.31	763	
Total Rajasthan		8324	3839	4528	100.20	4175	
UP	Anpara TPS	1630	900	864	20.00	833	
	Obra TPS	1382	430	401	8.40	350	
	Paricha TPS	890	652	620	13.70	571	
	Panki TPS	210	125	65	1.60	67	
	Harduaganj TPS	665	44	42	1.00	42	
	Tanda TPS (NTPC)	440	404	404	9.83	410	
	Roza TPS (IPP)	1200	824	801	19.88	828	
	Anpara-C (IPP)	1200	791	703	18.38	766	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	365	8.71	363	
	Thermal (Total)	8067	4535	4265	101.50	4229	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	198	220	4.75	198	
	Cogeneration	981	750	750	18.00	750	
	Total UP	9975	5483	5235	124.25	5177	
Uttarakhand	Total Hydro	1303	431	311	8.48	353	
	Total Uttarakhand	1303	431	311	8.48	353	
Delhi	Raighat TPS	135	105	76	2.56	107	
	Delhi Gas Turbine	282	135	159	3.64	152	
	Pragati Gas Turbine	330	309	267	7.54	314	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	190	192	4.75	198	
	Badarpur TPS (NTPC)	705	580	570	13.14	548	
	Thermal (Total)	2237	1319	1264	31.62	1318	
Total Delhi	2237	1319	1264	31.62	1318		
HP	Baspa HPS (IPP)	330	30	0	1.03	43	
	Malana HPS (IPP)	86	32	0	0.16	7	
	Other Hydro	589	160	84	2.87	119	
	Total HP	1005	222	84	4	169	
J & K	Baglihar HPS (IPP)	450	152	150	3.63	151	
	Other Hydro	323	178	201	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	330	351	8.18	341	
Total State Control Area Generation		32574	14432	17162	410.79	17116	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3414	3068	92.69	3862	
Total Regional Availability(Gross)		55410	33199	29933	775.92	32330	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5648	817	57.47	2395
State Control Area Hydro	5368	1818	1370	42.59	1774
Total Regional Hydro	15731	7466	2187	100.06	4169

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	100	30	500	0	5.17	0.00	5.17
Gwalior-Agra (D/C)	630	526	895	0	15.74	0.00	15.74
Zerda-Kankroli	186	44	241	46	3.34	0.00	3.34
Zerda-Bhinmal	286	62	357	68	4.73	0.00	4.73
Malanpur-Auraiya	-120	-78	0	143	0.00	2.15	-2.15
Badod-Kota/Morak	43	38	74	44	7.63	0.00	7.63
Mundra-Mohindergarh(HVDC)	769	770	772	0	17.18	0.00	17.18
Sub Total WR	1894	1392			53.78	2.15	51.63
Pusauli Bypass	250	300	300	0	6.60	0.00	6.60
MZP- GKP (D/C)	372	504	504	0	8.98	0.00	8.98
Patna-Balia(D/C)	659	491	757	0	15.04	0.00	15.04
B'Sharif-Balia (D/C)	203	237	357	0	6.67	0.00	6.67
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-118	-89	0	132	0.00	0.89	-0.89
Gaya-Fatehpur (765 Kv)	44	130	237	0	2.96	0.00	2.96
Pusauli-Sahupuri	142	140	143	0	2.70	0.00	2.70
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	1520	1676			42.94	1.88	41.06
Total IR Exch	3414	3068			96.72	4.03	92.69

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
34.14	0.13	34.27	-0.09	6.36	1.68	22.60	-0.01	0.06

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
35.84	52.84	88.68	41.06	51.63	92.69	5.22	-1.20	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	5.87	93.79	87.92	64.20	6.21

<----- 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				
50.65	6.03	49.55	10.13	50.06	0.30	0.13	50.38	49.79

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	409	3:30	404	10:28	51.7	51.7	0.0	0.0
Gorakhpur	400	436	6:02	413	9:14	0.0	0.0	72.3	8.3
Bareilly	400	422	3:05	397	10:08	0.0	0.0	1.1	0.0
Kanpur	400	423	3:04	396	10:07	0.0	0.0	5.4	0.0
Dadri	400	418	3:06	397	11:22	0.0	0.0	0.0	0.0
Ballabgarh	400	426	3:04	402	9:53	0.0	0.0	10.5	0.0
Bawana	400	423	3:05	400	11:22	0.0	0.0	6.3	0.0
Bassi	400	432	4:02	392	7:40	0.0	0.0	11.5	1.0
Hissar	400	409	3:04	388	10:09	0.0	2.8	0.0	0.0
Moga	400	413	3:04	395	11:38	0.0	0.0	0.0	0.0
Abdullapur	400	421	3:04	402	11:13	0.0	0.0	0.3	0.0
Nalagarh	400	421	20:56	402	10:12	0.0	0.0	0.2	0.0
Kishenpur	400	416	13:02	393	18:40	0.0	0.0	0.0	0.0
Wagooora	400	408	13:00	370	18:41	21.5	56.2	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	492.53	817.99	500.11	1101.35	157.27	447.66
Pong	426.72	384.05	409.55	484.26	412.62	588.94	63.17	303.22
Tehri	829.79	740.04	806.80	715.00	818.65	982.26	34.69	235.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	261.18	500.10	263.38	617.70	NA	NA
RPS	352.80	343.81	348.44	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.82	NA	NA	NA	NA	NA
RSD	527.91	487.91	513.40	NA	508.48	NA	64.93	217.53

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.01.2013 :

1. Light Fog in some parts of eastern UP .

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 : 12.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER