

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.01.2013
Date of Reporting : 24.01.2013

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
33468	3406	36874	50.05	25947	630	26577	50.44	729.9	65.64

* 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	46.60	7.99		54.59	36.75	36.43	-0.32	91.02	2.82
Haryana	64.03	0.53		64.56	28.19	28.13	-0.07	92.69	1.14
Rajasthan	84.67	5.48	4.97	95.12	78.25	79.60	1.34	174.71	0.14
Delhi	29.69			29.69	37.14	35.22	-1.92	64.91	0.01
UP	108.56	6.59	19.20	134.34	70.58	73.60	3.02	207.94	56.96
Uttarakhand		6.70		6.70	22.94	24.79	1.84	31.48	2.49
HP		4.44		4.44	19.55	20.01	0.47	24.46	0.38
J & K		7.00	0.00	7.00	32.09	31.84	-0.25	38.84	1.70
Chandigarh				0.00	3.56	3.90	0.35	3.90	0.00
Total	333.55	38.73	24.17	396.44	329.04	333.50	4.46	729.95	65.64

* 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	4700	600	-6	-159	3035	0	33	265	-0.97
Haryana	5007	82	85	-215	2879	0	-37	-793	-11.88
Rajasthan	7417	0	5	1223	6579	0	118	1219	34.61
Delhi	3301	0	-11	-744	1472	0	-88	-1807	-27.71
UP	8724	2518	13	-144	8740	630	3	185	-3.69
Uttarakhand	1593	80	47	506	1160	0	56	567	12.92
HP	1119	26	-90	255	796	0	12	395	8.21
J&K	1400	100	-181	408	1194	0	-129	486	9.63
Chandigarh	208	0	-24	0	93	0	0	-31	-0.19
Total	33468	3406	-162	1131	25947	630	-32	486	20.93

* 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	1865	1891	2053	44.96	1873	44.70	0.26
	Rihand I STPS	1000	925	994	943	21.79	908	21.90	-0.12
	Rihand II STPS	1000	975	1041	941	22.79	950	23.02	-0.23
	Rihand III STPS	500	440	474	381	10.48	437	10.34	0.15
	Dadri I STPS	840	810	853	622	17.68	737	17.87	-0.20
	Dadri II STPS	980	975	1002	701	21.41	892	21.88	-0.48
	Unchahar I TPS	420	406	407	331	9.02	376	8.93	0.09
	Unchahar II TPS	420	405	374	311	8.83	368	8.70	0.13
	Unchahar III TPS	210	202	212	156	4.46	186	4.40	0.06
	ISTPP (Jhajihar)	1500	980	472	346	9.48	395	9.92	-0.45
	Dadri GPS	830	848	294	328	7.63	318	7.71	-0.08
	Anta GPS	419	435	168	151	4.05	169	4.11	-0.06
	Auraiya GPS	663	671	218	227	5.70	237	5.54	0.15
	Sub Total (A)	10782	9937	8400	7491	188.26	7844	189.03	-0.77
B. NPC	NAPS	440	142	164	169	3.42	143	3.41	0.02
	RAPS- B	440	424	470	471	10.23	426	10.18	0.05
	RAPS- C	440	438	471	477	10.17	424	10.51	-0.35
	Sub Total (B)	1320	1004	1105	1117	23.82	993	24.10	-0.28
C. NHPC	Chamera I HPS	540	550	360	0	2.39	99	2.32	0.07
	Chamera II HPS	300	202	199	0	1.33	55	1.18	0.15
	Chamera III HPS	231	154	73	0	0.96	40	0.79	0.18
	Bairasuil HPS	180	182	120	0	0.48	20	0.42	0.07
	Salal-HPS	690	130	225	70	3.18	133	3.14	0.04
	Tanakpur-HPS	94	31	31	27	0.69	29	0.76	-0.07
	Uri-HPS	480	200	212	207	4.78	199	4.86	-0.08
	Dhauliganga-HPS	280	284	139	0	1.11	46	1.04	0.07
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	61	0	0.34	14	0.36	-0.02
Sub Total (C)	3305	1852	1420	304	15.26	636	14.86	0.39	
D.NJPC	Nathpa Jhakri	1500	1605	1219	0	5.64	235	5.70	-0.06
	Sub Total (D)	1500	1605	1219	0	5.64	235	5.70	-0.06
E. THDC	Tehri HPS	1000	960	964	0	9.22	384	9.20	0.02
	Sub Total (E)	1400	1360	1366	70	12.71	530	12.70	0.01
F. BBMB	Bhakra HPS	1480	597	1105	408	14.55	606	14.32	0.23
	Dehar HPS	990	123	495	0	3.23	135	2.96	0.27
	Pong HPS	396	215	306	65	5.41	225	5.01	0.40
	Sub Total (F)	2866	935	1906	473	23.19	966	22.28	0.91
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.35	14	0.33	0.02
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	18	0	0.14	6	0.12	0.02
	Shree Cement TPS	300	0	139	129	3.38	141	4.16	-0.78
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	163	129	3.91	163	4.61	-0.69
H. Total Regional Entities (A-G)	22836	16693	15579	9584	272.79	11366	273.27	-0.48	

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	1240	1055	25.21	1050	
	Guru Nanak Dev TPS(Bhatinda)	440	343	295	6.93	289	
	Guru Hargobind Singh TPS(L.mbt)	920	704	532	14.46	602	
	Thermal (Total)	2620	2287	1882	46.60	1942	
	Total Hydro	1148	283	198	7.99	333	
	Total Punjab	3768	2570	2080	54.59	2275	
Haryana	Panipat TPS	1367	662	600	15.74	656	
	DCRTPP (Yamuna nagar)	600	281	281	6.64	277	
	Faridabad GPS (NTPC)	432	280	274	6.66	278	
	RGTPP (khedar) (IPP)	1200	1110	892	24.52	1022	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	585	353	10.47	436	
	Thermal (Total)	4944	2918	2400	64.03	2668	
	Total Hydro	62	22	22	0.53	22	
	Total Haryana	5006	2940	2422	64.56	2690	
	Rajasthan	kota TPS	1240	1016	1056	26.54	1106
		suratgarh TPS	1500	953	691	23.10	963
Chabra TPS		500	442	382	9.84	410	
Dholpur GPS		330	107	140	2.76	115	
Ramgarh GPS		111	44	47	1.12	47	
RAPS A (NPC)		300	197	204	4.85	202	
Barsingsar (NLC)		250	110	111	2.53	105	
Giral LTTPS		250	131	100	2.85	119	
Rajwest LTTPS (IPP)		675	476	477	11.07	461	
VSLP LTTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3476	3208	84.67	3528	
Total Hydro		550	240	125	5.48	228	
Wind power		2191	129	340	4.17	174	
Biomass		91	27	27	0.65	27	
Solar		201	4	0	0.15	6	
Renewable/Others (Total)		2483	156	367	4.97	207	
Total Rajasthan		8324	3872	3700	95.12	3963	
UP	Anpara TPS	1630	1138	1153	27.20	1133	
	Obra TPS	1382	453	456	10.80	450	
	Paricha TPS	890	622	580	14.30	596	
	Panki TPS	210	122	0	2.30	96	
	Harduaganj TPS	665	40	32	2.30	96	
	Tanda TPS (NTPC)	440	404	401	9.84	410	
	Roza TPS (IPP)	1200	807	783	19.66	819	
	Anpara-C (IPP)	1200	591	490	13.84	576	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	322	401	8.32	347	
	Thermal (Total)	8067	4499	4296	108.56	4523	
	Vishnuparyag HPS (IPP)	400	73	79	1.82	76	
	Other Hydro	527	203	213	4.76	199	
	Cogeneration	981	800	800	19.20	800	
	Total UP	9975	5575	5388	134.34	5522	
	Uttarakhand	Total Hydro	1303	416	180	6.70	279
Total Uttarakhand		1303	416	180	6.70	279	
Delhi	Raighat TPS	135	104	105	2.42	101	
	Delhi Gas Turbine	282	156	110	3.40	142	
	Pragati Gas Turbine	330	208	260	6.23	259	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	218	209	5.17	215	
	Badarpur TPS (NTPC)	705	605	492	12.47	520	
	Thermal (Total)	2237	1291	1176	29.69	1237	
Total Delhi	2237	1291	1176	29.69	1237		
HP	Baspa HPS (IPP)	330	0	0	1.16	48	
	Malana HPS (IPP)	86	32	0	0.18	7	
	Other Hydro	589	149	89	3.11	130	
	Total HP	1005	181	89	4	185	
J & K	Baglihar HPS (IPP)	450	152	150	3.60	150	
	Other Hydro	323	120	170	3.40	142	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	272	320	7.00	292	
Total State Control Area Generation		32574	17117	15355	396.44	16443	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2949	2698	78.90	3287	
Total Regional Availability(Gross)		55410	35645	27637	748.13	31096	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5929	847	57.28	2387
State Control Area Hydro	5368	1617	1147	38.73	1538
Total Regional Hydro	15731	7546	1994	96.01	3925

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	200	350	300	3.13	0.92	2.21
Gwalior-Agra (D/C)	431	376	843	0	12.54	0.00	12.54
Zerda-Kankroli	95	-8	168	68	1.33	0.00	1.33
Zerda-Bhinmal	162	60	266	19	3.24	0.00	3.24
Malanpur-Auraiya	-98	-90	0	99	0.00	1.78	-1.78
Badod-Kota/Morak	19	-79	44	89	0.00	0.87	-0.87
Mundra-Mohindergarh(HVDC)	1116	1114	1119	0	27.04	0.00	27.04
Sub Total WR	1825	1573			47.28	3.57	43.71
Pusauli Bypass	400	400	400	0	9.70	0.00	9.70
MZP- GKP (D/C)	184	180	336	0	5.34	0.00	5.34
Patna-Balia(D/C)	459	510	694	0	14.17	0.00	14.17
B'Sharif-Balia (D/C)	62	91	265	0	3.73	0.00	3.73
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-244	-194	0	244	0.00	2.23	-2.23
Gaya-Fatehpur (765 Kv)	110	51	207	14	2.32	0.00	2.32
Pusauli-Sahupuri	185	124	206	0	3.24	0.00	3.24
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-37	0	48	0.00	1.09	-1.09
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1124	1125			38.50	3.32	35.19
Total IR Exch	2949	2698			85.78	6.88	78.90

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
33.20	0.25	33.46	-3.22	12.81	1.54	6.76	-3.05	3.16

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
28.71	49.96	78.67	35.19	43.71	78.90	6.47	-6.24	0.23

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	83.10	80.90	49.69	16.90

<----- 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				
50.54	4.05	49.56	6.48	50.02	0.30	0.17	50.49	49.76

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	407	4:04	406	13:29	22.0	22.0	0.0	0.0
Gorakhpur	400	432	16:03	407	11:15	0.0	0.0	49.5	0.4
Bareilly	400	424	4:04	401	6:49	0.0	0.0	2.4	0.0
Kanpur	400	419	4:04	399	11:12	0.0	0.0	0.0	0.0
Dadri	400	421	4:05	401	11:14	0.0	0.0	0.0	0.0
Ballabgarh	400	425	4:03	404	11:13	0.0	0.0	17.7	0.0
Bawana	400	424	4:04	406	11:07	0.0	0.0	13.0	0.0
Bassi	400	427	4:04	394	11:11	0.0	0.0	2.5	0.0
Hissar	400	412	4:04	394	11:15	0.0	0.0	0.0	0.0
Moga	400	414	1:14	395	6:49	0.0	0.0	0.0	0.0
Abdullapur	400	425	3:05	299	16:21	0.0	0.0	27.0	0.0
Nalagarh	400	423	3:01	406	11:09	0.0	0.0	7.2	0.0
Kishenpur	400	415	13:17	383	18:24	0.0	7.5	0.0	0.0
Wagoora	400	406	13:17	357	18:40	47.8	82.5	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	490.12	738.95	497.97	1018.16	154.81	404.87
Pong	426.72	384.05	407.87	425.81	412.10	566.84	85.77	357.27
Tehri	829.79	740.04	800.10	608.45	818.65	982.26	35.20	225.00
Koteswar	612.50	598.50	610.90	4.95	NA	NA	225.00	232.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	50.12	64.19
Rihand	268.22	252.98	260.54	500.10	263.07	617.70	NA	NA
RPS	352.80	343.81	348.28	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.61	NA	NA	NA	NA	NA
RSD	527.91	487.91	512.19	NA	505.56	NA	52.09	85.21

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.01.2013 :

1.Shallow fog is reported in some parts of East 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 : 23.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER