

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरगिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.01.2013
Date of Reporting : 23.01.2013

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
33229	3076	36305	50.17	25842	630	26472	50.33	730.8	59.35

* 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	49.89	7.71		57.60	33.82	33.76	-0.05	91.36	2.02
Haryana	63.32	0.54		63.86	26.75	26.21	-0.54	90.07	0.63
Rajasthan	93.41	5.10	5.24	103.75	77.64	76.07	-1.58	179.82	1.87
Delhi	30.60			30.60	36.67	33.54	-3.13	64.14	0.04
UP	111.69	4.81	19.20	135.70	71.66	72.82	1.16	208.52	51.08
Uttarakhand		7.51		7.51	22.82	24.34	1.52	31.85	1.97
HP		4.15		4.15	19.27	20.22	0.95	24.37	0.04
J & K		7.00	0.00	7.00	31.30	29.79	-1.51	36.79	1.70
Chandigarh				0.00	3.45	3.88	0.44	3.88	0.00
Total	348.90	36.82	24.44	410.16	323.37	320.64	-2.73	730.80	59.35

* 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	4616	600	140	-264	2999	0	-62	273	-2.34
Haryana	4855	53	48	-215	2936	0	132	-686	-10.95
Rajasthan	7228	0	-144	1328	6448	0	-114	1233	36.60
Delhi	3296	0	-44	-666	1466	0	1	-1832	-26.13
UP	8717	2323	-295	-119	8918	630	-2	-155	-6.38
Uttarakhand	1680	0	79	522	1177	0	80	560	13.20
HP	1154	0	-51	247	797	0	37	395	8.15
J&K	1470	100	-107	408	1008	0	-240	486	9.63
Chandigarh	213	0	-12	0	94	0	10	-31	-0.24
Total	33229	3076	-386	1241	25842	630	-159	244	21.53

* 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	1843	2090	1510	44.22	1843	44.12	0.10
	Rihand I STPS	1000	925	998	935	21.78	908	22.01	-0.23
	Rihand II STPS	1000	975	1036	971	22.88	953	23.16	-0.28
	Rihand III STPS	500	214	505	0	5.41	226	4.85	0.56
	Dadri I STPS	840	810	686	615	15.68	654	16.31	-0.63
	Dadri II STPS	980	975	1001	695	20.64	860	21.88	-1.24
	Unchahar I TPS	420	406	400	371	9.35	389	9.63	-0.28
	Unchahar II TPS	420	405	378	419	9.35	389	9.60	-0.25
	Unchahar III TPS	210	202	220	210	4.70	196	4.80	-0.10
	ISTPP (Jhajihar)	1500	980	470	345	9.50	396	10.13	-0.63
	Dadri GPS	830	848	335	336	8.27	345	8.30	-0.03
	Anta GPS	419	435	184	185	4.50	187	4.89	-0.40
	Auraiya GPS	663	671	253	154	5.10	212	5.41	-0.32
	Sub Total (A)	10782	9688	8556	6746	181.38	7557	185.10	-3.72
B. NPC	NAPS	440	142	168	167	3.45	144	3.41	0.04
	RAPS- B	440	426	470	471	10.23	426	10.22	0.01
	RAPS- C	440	438	474	477	10.25	427	10.51	-0.26
	Sub Total (B)	1320	1006	1112	1115	23.94	997	24.14	-0.21
C. NHPC	Chamera I HPS	540	550	360	0	2.07	86	2.15	-0.08
	Chamera II HPS	300	202	168	0	1.01	42	1.06	-0.05
	Chamera III HPS	231	231	75	0	0.57	24	0.56	0.01
	Bairasuil HPS	180	182	70	0	0.47	20	0.48	-0.01
	Salal-HPS	690	122	226	45	3.06	127	2.93	0.13
	Tanakpur-HPS	94	29	32	25	0.69	29	0.72	-0.03
	Uri-HPS	480	216	238	240	5.16	215	4.65	0.51
	Dhauliganga-HPS	280	284	139	0	0.62	26	0.63	-0.01
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	66	0	0.25	10	0.24	0.01
Sub Total (C)	3305	1935	1374	310	13.90	579	13.41	0.49	
D.NJPC	Nathpa Jhakri	1500	1605	1205	0	5.52	230	6.00	-0.48
	Sub Total (D)	1500	1605	1205	0	5.52	230	6.00	-0.48
E. THDC	Tehri HPS	1000	960	963	0	9.17	382	9.20	-0.03
	Koteshwar HPS	400	400	401	90	3.33	139	3.40	-0.07
Sub Total (E)	1400	1360	1364	90	12.51	521	12.60	-0.09	
F. BBMB	Bhakra HPS	1480	586	1105	336	14.20	592	14.05	0.15
	Dehar HPS	990	122	280	0	3.12	130	2.92	0.20
	Pong HPS	396	216	306	60	5.42	226	5.01	0.41
	Sub Total (F)	2866	923	1691	396	22.74	948	21.98	0.76
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.34	14	0.33	0.01
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	17	0	0.14	6	0.11	0.02
	Shree Cement TPS	300	0	277	158	5.90	246	5.94	-0.04
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	300	158	6.43	268	6.38	0.05
H. Total Regional Entities (A-G)	22836	16517	15602	8815	266.40	11100	269.61	-3.21	

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	840	1020	23.76	990
	Guru Nanak Dev TPS(Bhatinda)	440	343	295	6.93	289
	Guru Hargobind Singh TPS(L.mbt)	920	979	668	19.20	800
	Thermal (Total)	2620	2162	1983	49.89	2079
	Total Hydro	1148	400	196	7.71	321
	Total Punjab	3768	2562	2179	57.60	2400
Haryana	Panipat TPS	1367	663	617	15.84	660
	DCRTPP (Yamuna nagar)	600	276	286	6.63	276
	Faridabad GPS (NTPC)	432	284	273	6.66	278
	RGTPP (khedar) (IPP)	1200	1019	928	23.74	989
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	585	352	10.45	436
	Thermal (Total)	4944	2827	2456	63.32	2638
	Total Hydro	62	23	22	0.54	23
	Total Haryana	5006	2850	2478	63.86	2661
	Rajasthan	kota TPS	1240	1061	1140	26.70
suratgarh TPS		1500	963	905	23.28	970
Chabra TPS		500	382	429	9.73	406
Dholpur GPS		330	140	140	3.20	133
Ramgarh GPS		111	44	46	11.15	465
RAPS A (NPC)		300	204	204	4.86	203
Barsingsar (NLC)		250	110	103	2.53	105
Giral LTPS		250	136	150	2.61	109
Rajwst LTPS (IPP)		675	477	482	9.35	390
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3517	3599	93.41	3892
Total Hydro		550	123	169	5.10	213
Wind power		2191	79	295	4.47	186
Biomass		91	27	27	0.66	27
Solar		201	3	0	0.11	5
Renewable/Others (Total)		2483	106	322	5.24	218
Total Rajasthan		8324	3746	4090	103.75	4323
UP	Anpara TPS	1630	1191	1188	28.20	1175
	Obra TPS	1382	449	507	11.40	475
	Paricha TPS	890	640	390	12.60	525
	Panki TPS	210	122	126	2.90	121
	Harduaganj TPS	665	196	251	4.60	192
	Tanda TPS (NTPC)	440	401	406	9.81	409
	Roza TPS (IPP)	1200	783	784	19.26	803
	Anpara-C (IPP)	1200	582	565	14.07	586
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	403	358	8.85	369
	Thermal (Total)	8067	4767	4575	111.69	4654
	Vishnuparyag HPS (IPP)	400	0	0	0.35	15
	Other Hydro	527	165	189	4.46	186
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5732	5564	135.70	5639
	Uttarakhand	Total Hydro	1303	442	239	7.51
Total Uttarakhand		1303	442	239	7.51	313
Delhi	Raighat TPS	135	110	107	2.42	101
	Delhi Gas Turbine	282	112	156	3.04	127
	Pragati Gas Turbine	330	311	263	7.35	306
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	217	217	5.20	217
	Badarpur TPS (NTPC)	705	510	575	12.58	524
	Thermal (Total)	2237	1260	1318	30.60	1275
Total Delhi	2237	1260	1318	30.60	1275	
HP	Baspa HPS (IPP)	330	0	0	0.93	39
	Malana HPS (IPP)	86	35	0	0.18	8
	Other Hydro	589	143	97	3.04	127
	Total HP	1005	178	97	4	173
J & K	Baglihar HPS (IPP)	450	148	148	3.60	150
	Other Hydro	323	120	170	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	268	318	7.00	292
Total State Control Area Generation		32574	17038	16283	410.16	17075
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2831	2323	78.77	3282
Total Regional Availability(Gross)		55410	35471	27421	755.34	31458

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5651	796	55.14	2298
State Control Area Hydro	5368	1599	1230	36.82	1520
Total Regional Hydro	15731	7250	2026	91.96	3817

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	150	50	450	200	4.86	0.47	4.39
Gwalior-Agra (D/C)	310	355	845	0	10.62	0.00	10.62
Zerda-Kankroli	53	-24	112	81	0.35	0.00	0.35
Zerda-Bhinmal	126	30	206	67	2.10	0.00	2.10
Malanpur-Auraiya	-129	-75	0	129	0.00	1.84	-1.84
Badod-Kota/Morak	-27	-130	0	155	0.00	0.17	-0.17
Mundra-Mohindergarh(HVDC)	1154	1156	1157	0	28.00	0.00	28.00
Sub Total WR	1637	1362			45.93	2.48	43.45
Pusauli Bypass	400	400	400	0	9.65	0.00	9.65
MZP- GKP (D/C)	200	96	316	0	4.87	0.00	4.87
Patna-Balia(D/C)	528	479	695	0	14.59	0.00	14.59
B'Sharif-Balia (D/C)	105	80	295	0	4.20	0.00	4.20
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-212	-209	0	214	0.00	2.02	-2.02
Gaya-Fatehpur (765 Kv)	67	25	216	0	2.48	0.00	2.48
Pusauli-Sahupuri	138	127	149	0	2.64	0.00	2.64
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	1194	961			38.43	3.11	35.32
Total IR Exch	2831	2323			84.36	5.59	78.77

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
34.92	0.25	35.17	-2.28	10.96	1.29	7.19	-2.29	2.40

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
31.88	44.45	76.34	35.32	43.45	78.77	3.44	-1.01	2.43

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	0.70	73.70	73.00	69.20	26.30

<----- 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				
50.48	4.07	49.60	7.35	50.08	0.34	0.16	50.48	49.85

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	410	2:48	405	18:59	3.2	3.2	0.0	0.0
Gorakhpur	400	429	1:35	411	21:10	0.0	0.0	43.3	0.0
Bareilly	400	427	4:04	402	6:40	0.0	0.0	15.4	0.0
Kanpur	400	422	3:10	398	6:54	0.0	0.0	0.9	0.0
Dadri	400	424	3:08	402	18:23	0.0	0.0	15.3	0.0
Ballabgarh	400	429	3:08	406	6:31	0.0	0.0	21.8	0.0
Bawana	400	427	3:07	405	6:34	0.0	0.0	20.6	0.0
Bassi	400	427	3:58	392	8:39	0.0	0.0	11.8	0.0
Hissar	400	409	20:53	397	18:20	0.0	0.0	0.0	0.0
Moga	400	419	4:05	394	7:35	0.0	0.0	0.0	0.0
Abdullapur	400	427	4:06	407	5:57	0.0	0.0	26.7	0.0
Nalagarh	400	424	3:10	401	6:33	0.0	0.0	12.1	0.0
Kishenpur	400	417	1:54	388	16:27	0.0	1.6	0.0	0.0
Wagoora	400	410	13:46	361	8:40	38.0	62.8	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	490.31	748.75	498.17	1018.06	150.33	392.33
Pong	426.72	384.05	408.01	435.19	412.19	566.84	88.94	354.41
Tehri	829.79	740.04	800.80	620.00	818.65	982.26	223.00	221.00
Koteswar	612.50	598.50	611.05	5.20	NA	NA	223.00	221.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	48.18	55.49
Rihand	268.22	252.98	260.60	500.10	263.10	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	505.80	NA	58.30	75.80

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.01.2013 :

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 : 22.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER