

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरगिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.01.2013
Date of Reporting : 22.01.2013

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
33098	2690	35788	50.03	24941	630	25571	50.43	705.9	54.21

* 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	51.34	6.86		58.21	31.78	30.91	-0.87	89.12	1.80
Haryana	62.43	0.49		62.92	27.45	25.71	-1.74	88.62	0.41
Rajasthan	83.76	4.14	3.47	91.37	78.65	75.25	-3.40	166.62	0.00
Delhi	32.07			32.07	37.74	32.38	-5.36	64.45	0.04
UP	113.08	3.51	19.20	135.80	66.37	67.47	1.10	203.27	48.01
Uttarakhand		7.59		7.59	21.95	23.00	1.05	30.59	2.16
HP		4.35		4.35	18.74	19.09	0.36	23.44	0.09
J & K		7.00	0.00	7.00	29.85	28.84	-1.01	35.84	1.70
Chandigarh				0.00	3.56	3.93	0.36	3.93	0.00
Total	342.69	33.93	22.67	399.29	316.09	306.58	-9.50	705.87	54.21

* 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	4669	600	-13	-414	2887	0	-36	222	-3.75
Haryana	4686	80	40	-225	2757	0	-206	-486	-10.20
Rajasthan	6972	0	-378	1435	6087	0	-336	1212	39.30
Delhi	3296	0	15	-589	1384	0	-103	-1473	-22.30
UP	8714	1910	26	-119	8676	630	156	-155	-6.38
Uttarakhand	1623	0	97	523	1055	0	-61	568	12.71
HP	1147	0	-20	247	703	0	-10	395	8.21
J&K	1777	100	-78	408	1296	0	-320	486	9.63
Chandigarh	213	0	-9	0	96	0	7	-31	-0.08
Total	33098	2690	-320	1266	24941	630	-909	738	27.16

* 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	1450	1555	1322	33.66	1402	34.10	-0.45
	Rihand I STPS	1000	925	999	840	21.39	891	21.99	-0.61
	Rihand II STPS	1000	975	1047	917	22.79	950	22.92	-0.13
	Rihand III STPS	500	244	0	361	5.24	218	5.57	-0.34
	Dadri I STPS	840	810	805	610	16.80	700	16.07	0.73
	Dadri II STPS	980	975	1004	710	19.57	815	20.29	-0.73
	Unchahar I TPS	420	406	438	354	9.02	376	9.13	-0.11
	Unchahar II TPS	420	345	443	337	7.34	306	7.36	-0.02
	Unchahar III TPS	210	202	220	178	4.30	179	4.32	-0.03
	ISTPP (Jhajihar)	1500	980	374	365	9.19	383	9.34	-0.15
	Dadri GPS	830	848	374	299	7.45	311	7.55	-0.10
	Anta GPS	419	425	234	197	4.92	205	4.90	0.01
	Auraiya GPS	663	671	157	156	3.68	153	3.81	-0.14
	Sub Total (A)	10782	9256	7650	6646	165.32	6888	167.38	-2.06
	B. NPC	NAPS	440	142	164	169	3.42	144	3.41
RAPS- B		440	423	467	471	10.19	424	10.15	0.04
RAPS- C		440	438	473	471	10.21	426	10.51	-0.30
Sub Total (B)		1320	1003	1104	1111	23.82	993	24.07	-0.25
C. NHPC	Chamera I HPS	540	550	360	0	1.73	72	1.65	0.07
	Chamera II HPS	300	303	200	0	1.08	45	1.03	0.05
	Chamera III HPS	231	231	80	0	0.59	25	0.56	0.03
	Bairasuil HPS	180	182	120	0	0.52	22	0.60	-0.08
	Salal-HPS	690	146	217	98	3.37	140	3.33	0.04
	Tanakpur-HPS	94	35	35	32	0.83	34	0.83	-0.01
	Uri-HPS	480	240	205	229	5.27	220	5.59	-0.32
	Dhauliganga-HPS	280	232	139	0	0.63	26	0.61	0.03
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	77	0	0.38	16	0.40	-0.02
	Sub Total (C)	3305	2038	1433	359	14.39	600	14.60	-0.21
D.NJPC	Nathpa Jhakri	1500	1605	1218	0	5.68	237	5.70	-0.02
	Sub Total (D)	1500	1605	1218	0	5.68	237	5.70	-0.02
E. THDC	Tehri HPS	1000	970	968	0	9.41	392	9.40	0.01
	Koteshwar HPS	400	400	400	85	3.40	142	3.40	0.00
Sub Total (E)	1400	1370	1368	85	12.81	534	12.80	0.01	
F. BBMB	Bhakra HPS	1480	595	1105	353	14.69	612	14.27	0.42
	Dehar HPS	990	136	495	0	3.30	138	3.28	0.02
	Pong HPS	396	216	306	66	5.45	227	5.01	0.44
	Sub Total (F)	2866	947	1906	419	23.44	977	22.55	0.89
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	24	0	0.32	13	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	0.03
	Shree Cement TPS	300	0	276	141	5.90	246	5.88	0.02
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	323	141	6.40	267	6.32	0.08
H. Total Regional Entities (A-G)	22836	16219	15002	8761	251.87	10495	253.42	-1.55	

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	1260	980	25.53	1064	
	Guru Nanak Dev TPS(Bhatinda)	440	295	295	6.86	286	
	Guru Hargobind Singh TPS(L.mbt)	920	875	707	18.96	790	
	Thermal (Total)	2620	2430	1982	51.34	2139	
	Total Hydro	1148	284	197	6.86	286	
	Total Punjab	3768	2714	2179	58.21	2425	
Haryana	Panipat TPS	1367	663	605	15.66	652	
	DCRTPP (Yamuna nagar)	600	278	277	6.63	276	
	Faridabad GPS (NTPC)	432	286	282	6.72	280	
	RGTPP (khedar) (IPP)	1200	1016	888	22.87	953	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	551	352	10.55	440	
	Thermal (Total)	4944	196	2404	62.43	2601	
	Total Hydro	62	20	19	0.49	20	
	Total Haryana	5006	216	2423	62.92	2622	
	Rajasthan	kota TPS	1240	1077	1036	26.07	1086
		suratgarh TPS	1500	917	900	22.89	954
Chabra TPS		500	390	387	9.39	391	
Dholpur GPS		330	140	145	3.29	137	
Ramgarh GPS		111	50	47	1.13	47	
RAPS A (NPC)		300	204	204	4.88	203	
Barsingsar (NLC)		250	109	109	2.55	106	
Giral LTPS		250	150	116	2.81	117	
Rajwest LTPS (IPP)		675	482	360	10.76	448	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3519	3304	83.76	3490	
Total Hydro		550	190	83	4.14	172	
Wind power		2191	105	222	2.62	109	
Biomass		91	28	28	0.68	28	
Solar		201	8	0	0.17	7	
Renewable/Others (Total)		2483	133	250	3.47	145	
Total Rajasthan		8324	3842	3637	91.37	3807	
UP		Anpara TPS	1630	1205	1190	28.50	1188
	Obra TPS	1382	464	509	11.30	471	
	Paricha TPS	890	333	404	9.50	396	
	Panki TPS	210	122	108	2.90	121	
	Harduaganj TPS	665	247	223	5.50	229	
	Tanda TPS (NTPC)	440	399	395	9.82	409	
	Roza TPS (IPP)	1200	831	648	19.07	795	
	Anpara-C (IPP)	1200	804	597	17.15	714	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	363	401	9.35	390	
	Thermal (Total)	8067	4768	4475	113.08	4712	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	116	100	3.51	146	
	Cogeneration	981	800	800	19.20	800	
	Total UP	9975	5684	5375	135.80	5658	
	Uttarakhand	Total Hydro	1303	421	233	7.59	316
Total Uttarakhand		1303	421	233	7.59	316	
Delhi	Raighat TPS	135	108	102	2.71	113	
	Delhi Gas Turbine	282	157	154	4.04	168	
	Pragati Gas Turbine	330	313	265	7.49	312	
	Rithala GPS	108	21	15	0.55	23	
	Bawana GPS	677	220	193	5.20	217	
	Badarpur TPS (NTPC)	705	585	415	12.08	503	
	Thermal (Total)	2237	1404	1144	32.07	1336	
	Total Delhi	2237	1404	1144	32.07	1336	
HP	Baspa HPS (IPP)	330	0	0	1.23	51	
	Malana HPS (IPP)	86	32	0	0.16	7	
	Other Hydro	589	127	111	2.96	123	
	Total HP	1005	159	111	4	181	
J & K	Baglihar HPS (IPP)	450	150	140	3.60	150	
	Other Hydro	323	120	170	3.40	142	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	270	310	7.00	292	
Total State Control Area Generation		32574	14710	15412	399.29	16637	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3314	2064	79.61	3317	
Total Regional Availability(Gross)		55410	33026	26237	730.76	30448	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5966	863	56.78	2366
State Control Area Hydro	5368	1460	1053	33.93	1414
Total Regional Hydro	15731	7426	1916	90.71	3779

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	450	200	2.83	1.15	1.68
Gwalior-Agra (D/C)	525	296	849	0	12.27	0.00	12.27
Zerda-Kankroli	63	-87	172	130	0.31	0.00	0.31
Zerda-Bhinmal	127	-35	249	102	2.05	0.00	2.05
Malanpur-Auraiya	-33	-68	0	97	0.00	1.34	-1.34
Badod-Kota/Morak	20	-122	55	122	0.00	0.69	-0.69
Mundra-Mohindergarh(HVDC)	1159	1158	1160	0	27.89	0.00	27.89
Sub Total WR	1961	942			45.36	3.18	42.18
Pusauli Bypass	300	100	400	0	5.02	0.00	5.02
MZP- GKP (D/C)	260	280	552	0	8.39	0.00	8.39
Patna-Balia(D/C)	621	412	824	0	14.28	0.00	14.28
B'Sharif-Balia (D/C)	157	202	344	0	5.42	0.00	5.42
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-246	-56	0	246	0.00	1.37	-1.37
Gaya-Fatehpur (765 Kv)	165	100	292	0	3.96	0.00	3.96
Pusauli-Sahupuri	128	121	145	0	2.82	0.00	2.82
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	1353	1122			39.89	2.46	37.43
Total IR Exch	3314	2064			85.25	5.64	79.61

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
34.37	0.25	34.62	-2.22	10.87	1.36	12.82	-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
31.47	52.84	84.31	37.43	42.18	79.61	5.96	-10.67	-4.71

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	0.10	3.30	81.70	78.50	51.00	18.20

<----- 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				
50.60	4.06	49.47	6.40	50.02	0.35	0.18	50.59	49.74

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	411	3:02	0	12:59	30.1	30.1	0.0	0.0
Gorakhpur	400	431	23:05	409	11:11	0.0	0.0	47.4	0.4
Bareilly	400	431	4:04	404	6:36	0.0	0.0	27.4	0.2
Kanpur	400	427	4:04	397	11:04	0.0	0.0	14.6	0.0
Dadri	400	428	4:03	402	11:08	0.0	0.0	21.5	0.0
Ballabgarh	400	435	4:04	404	11:04	0.0	0.0	36.3	10.2
Bawana	400	432	4:02	405	11:10	0.0	0.0	32.8	1.3
Bassi	400	433	4:03	393	10:47	0.0	0.0	23.9	0.8
Hissar	400	421	4:02	394	11:02	0.0	0.0	0.4	0.0
Moga	400	421	4:02	396	11:06	0.0	0.0	0.6	0.0
Abdullapur	400	431	3:05	408	11:04	0.0	0.0	37.1	0.7
Nalagarh	400	429	2:02	407	6:09	0.0	0.0	31.6	0.0
Kishenpur	400	421	2:57	387	18:46	0.0	4.8	0.8	0.0
Wagooa	400	404	23:58	358	14:48	37.5	65.5	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	490.84	758.57	498.76	1041.47	242.53	420.02
Pong	426.72	384.05	408.41	444.61	412.35	577.37	71.05	371.69
Tehri	829.79	740.04	802.10	647.00	818.65	982.26	NA	232.00
Koteswar	612.50	598.50	610.50	4.62	NA	NA	232.00	220.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	59.37	57.81
Rihand	268.22	252.98	260.73	500.10	263.19	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	512.18	NA	506.45	NA	91.38	82.88

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 21.01.2013 :
1.Shallow fog 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 : 21.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER