

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.01.2013
Date of Reporting : 21.01.2013

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
32461	2856	35317	50.02	25148	630	25778	50.22	693.9	39.45

* 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	47.62	6.79		54.41	32.73	32.59	-0.13	87.01	1.80
Haryana	60.62	0.45		61.07	29.09	28.30	-0.79	89.37	0.70
Rajasthan	80.70	4.67	3.25	88.62	73.64	73.28	-0.35	161.90	0.00
Delhi	28.66			28.66	32.81	31.53	-1.29	60.18	0.00
UP	116.35	4.22	19.20	139.76	62.09	62.75	0.66	202.51	34.73
Uttarakhand		7.97		7.97	21.55	22.05	0.50	30.02	0.45
HP		3.96		3.96	18.78	18.15	-0.63	22.11	0.07
J & K		7.02	0.00	7.02	28.95	30.27	1.32	37.30	1.70
Chandigarh				0.00	3.34	3.49	0.15	3.49	0.00
Total	333.95	35.08	22.45	391.47	302.97	302.42	-0.55	693.89	39.45

* 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	4738	600	49	-252	2969	0	89	237	-0.04
Haryana	4600	0	64	-258	2999	0	73	-491	-10.34
Rajasthan	6924	0	-208	1275	5996	0	-122	1342	34.76
Delhi	3041	0	-150	-851	1487	0	25	-1719	-30.62
UP	8822	2070	196	-121	8177	630	-113	-156	-6.45
Uttarakhand	1488	80	-13	511	1075	0	-61	568	12.28
HP	1049	6	-123	246	761	0	12	393	8.11
J&K	1618	100	-237	357	1590	0	82	435	8.42
Chandigarh	181	0	-33	-6	94	0	6	-31	-0.27
Total	32461	2856	-456	900	25148	630	-8	578	15.85

* 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	1445	1576	1308	33.39	1391	33.37	0.02
	Rihand I STPS	1000	925	976	915	21.54	898	21.67	-0.12
	Rihand II STPS	1000	975	1039	945	22.59	941	22.76	-0.16
	Rihand III STPS	500	295	0	0	0.00	0	6.65	-6.65
	Dadri I STPS	840	810	862	826	16.91	704	18.47	-1.56
	Dadri II STPS	980	883	969	393	18.18	757	20.77	-2.59
	Unchahar I TPS	420	406	438	345	8.99	374	9.13	-0.14
	Unchahar II TPS	420	405	442	331	8.72	363	8.87	-0.15
	Unchahar III TPS	210	202	222	163	4.36	181	4.49	-0.14
	ISTPP (Jhajihar)	1500	980	496	367	10.02	418	11.00	-0.97
	Dadri GPS	830	848	328	316	7.65	319	7.73	-0.08
	Anta GPS	419	426	179	228	4.90	204	5.01	-0.11
	Auraiya GPS	663	662	157	162	3.71	155	3.88	-0.17
	Sub Total (A)	10782	9261	7684	6299	160.95	6706	173.79	-12.84
B. NPC	NAPS	440	146	167	167	3.45	144	3.50	-0.06
	RAPS- B	440	423	470	470	10.22	426	10.15	0.07
	RAPS- C	440	438	474	475	10.19	425	10.51	-0.32
	Sub Total (B)	1320	1007	1111	1112	23.85	994	24.17	-0.32
C. NHPC	Chamera I HPS	540	550	356	0	1.83	76	1.75	0.08
	Chamera II HPS	300	303	200	0	1.12	47	1.11	0.01
	Chamera III HPS	231	231	76	0	0.65	27	0.56	0.09
	Bairasuil HPS	180	182	120	0	0.56	23	0.62	-0.06
	Salal-HPS	690	140	227	95	3.25	135	3.41	-0.15
	Tanakpur-HPS	94	48	36	32	0.96	40	1.07	-0.11
	Uri-HPS	480	178	233	154	4.84	202	4.42	0.42
	Dhauliganga-HPS	280	210	141	0	1.19	49	1.14	0.05
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	70	0	0.46	19	0.44	0.01
Sub Total (C)	3305	1962	1459	281	14.85	619	14.51	0.34	
D.NJPC	Nathpa Jhakri	1500	1350	1326	0	6.22	259	6.30	-0.08
	Sub Total (D)	1500	1350	1326	0	6.22	259	6.30	-0.08
E. THDC	Tehri HPS	1000	970	975	0	9.66	402	9.60	0.06
	Koteshwar HPS	400	400	400	60	3.31	138	3.40	-0.09
Sub Total (E)	1400	1370	1375	60	12.97	540	13.00	-0.03	
F. BBMB	Bhakra HPS	1480	590	1106	370	14.32	597	14.16	0.16
	Dehar HPS	990	143	495	0	3.52	147	3.42	0.10
	Pong HPS	396	223	306	66	5.52	230	5.01	0.51
	Sub Total (F)	2866	955	1907	436	23.36	973	22.58	0.78
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	14	0	0.11	5	0.10	0.02
	Shree Cement TPS	300	0	280	150	5.92	247	5.86	0.06
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	324	150	6.40	267	6.28	0.11
H. Total Regional Entities (A-G)	22836	15905	15186	8338	248.59	10358	260.63	-12.04	

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	1020	24.68	1028
	Guru Nanak Dev TPS(Bhatinda)	440	345	295	6.35	265
	Guru Hargobind Singh TPS(L.mbt)	920	942	697	16.59	691
	Thermal (Total)	2620	2547	2012	47.62	1984
	Total Hydro	1148	254	206	6.79	283
	Total Punjab	3768	2801	2218	54.41	2267
Haryana	Panipat TPS	1367	618	606	15.64	652
	DCRTPP (Yamuna nagar)	600	282	279	6.67	278
	Faridabad GPS (NTPC)	432	276	275	6.72	280
	RGTPP (khedar) (IPP)	1200	924	790	21.08	878
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	597	351	10.52	438
	Thermal (Total)	4944	196	2301	60.62	2526
	Total Hydro	62	20	17	0.45	19
	Total Haryana	5006	216	2318	61.07	2545
	Rajasthan	kota TPS	1240	1066	1104	26.90
suratgarh TPS		1500	930	743	21.77	907
Chabra TPS		500	385	261	9.03	376
Dholpur GPS		330	100	140	2.41	101
Ramgarh GPS		111	34	0	0.46	19
RAPS A (NPC)		300	204	204	4.86	203
Barsingsar (NLC)		250	111	107	2.58	107
Giral LTPS		250	116	112	2.93	122
Rajwest LTPS (IPP)		675	363	477	9.76	407
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3309	3148	80.70	3363
Total Hydro		550	110	89	4.67	195
Wind power		2191	173	32	2.42	101
Biomass		91	28	28	0.67	28
Solar		201	4	0	0.16	7
Renewable/Others (Total)		2483	201	60	3.25	135
Total Rajasthan		8324	3620	3297	88.62	3692
UP	Anpara TPS	1630	1199	1232	29.00	1208
	Obra TPS	1382	513	518	12.30	513
	Paricha TPS	890	411	401	9.70	404
	Panki TPS	210	126	117	3.00	125
	Harduaganj TPS	665	218	225	5.20	217
	Tanda TPS (NTPC)	440	400	403	9.80	408
	Roza TPS (IPP)	1200	801	653	18.89	787
	Anpara-C (IPP)	1200	589	613	14.23	593
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	400	401	14.23	593
	Thermal (Total)	8067	4657	4563	116.35	4848
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	186	126	4.22	176
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5643	5489	139.76	5824
Uttarakhand	Total Hydro	1303	389	257	7.97	332
	Total Uttarakhand	1303	389	257	7.97	332
Delhi	Raighat TPS	135	114	55	2.48	103
	Delhi Gas Turbine	282	155	71	3.01	125
	Pragati Gas Turbine	330	313	264	7.61	317
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	610	628	5.03	210
	Badarpur TPS (NTPC)	705	416	415	10.53	439
	Thermal (Total)	2237	1608	1433	28.66	1194
Total Delhi	2237	1608	1433	28.66	1194	
HP	Baspa HPS (IPP)	330	28	0	1.02	42
	Malana HPS (IPP)	86	32	0	0.16	7
	Other Hydro	589	131	100	2.78	116
	Total HP	1005	191	100	4	165
J & K	Baglihar HPS (IPP)	450	152	150	3.62	151
	Other Hydro	323	120	170	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	272	320	7.02	293
Total State Control Area Generation		32574	14740	15432	391.47	16311
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2153	2695	67.79	2824
Total Regional Availability(Gross)		55410	32079	26465	707.85	29494

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6105	777	57.83	2410
State Control Area Hydro	5368	1422	1115	35.08	1462
Total Regional Hydro	15731	7527	1892	92.91	3871

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	50	200	200	2.11	1.18	0.93
Gwalior-Agra (D/C)	220	402	913	0	9.09	0.00	9.09
Zerda-Kankroli	-35	-6	66	136	0.00	0.71	-0.71
Zerda-Bhinmal	32	52	187	110	1.04	0.00	1.04
Malanpur-Auraiya	-128	-57	0	129	0.00	1.77	-1.77
Badod-Kota/Morak	12	-47	18	65	0.00	1.03	-1.03
Mundra-Mohindergarh(HVDC)	1221	1221	1223	0	29.53	0.00	29.53
Sub Total WR	1122	1615			41.77	4.69	37.08
Pusauli Bypass	-200	100	100	200	1.88	1.03	0.84
MZP- GKP (D/C)	248	252	464	0	7.72	0.00	7.72
Patna-Balia(D/C)	500	439	648	0	12.01	0.00	12.01
B'Sharif-Balia (D/C)	215	174	333	0	4.86	0.00	4.86
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	29	-65	35	110	0.00	0.62	-0.62
Gaya-Fatehpur (765 Kv)	146	110	239	0	4.37	0.00	4.37
Pusauli-Sahupuri	125	107	130	0	2.61	0.00	2.61
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	1031	1080			33.45	2.74	30.71
Total IR Exch	2153	2695			75.22	7.43	67.79

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
32.47	0.16	32.63	-2.22	12.00	0.21	2.42	-2.27	2.40

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
28.36	39.14	67.50	30.71	37.08	67.79	2.35	-2.06	0.28

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	1.90	76.50	74.60	64.90	23.50

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.49	2.18	49.57	8.42	50.07	0.35	0.17	50.51	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	412	4:07	0	3:49	10.3	10.3	0.0	0.0
Gorakhpur	400	430	4:14	416	8:32	0.0	0.0	71.0	0.0
Bareilly	400	427	2:25	403	8:40	0.0	0.0	25.1	0.0
Kanpur	400	423	4:10	400	8:43	0.0	0.0	5.1	0.0
Dadri	400	425	2:18	404	8:43	0.0	0.0	19.3	0.0
Ballabgarh	400	431	4:11	407	8:43	0.0	0.0	43.2	0.1
Bawana	400	429	2:17	408	8:38	0.0	0.0	36.2	0.0
Bassi	400	428	4:02	394	6:26	0.0	0.0	25.9	0.0
Hissar	400	419	2:18	396	8:40	0.0	0.0	0.0	0.0
Moga	400	420	2:17	397	8:39	0.0	0.0	0.0	0.0
Abdullapur	400	429	2:17	25	13:12	0.1	0.1	45.5	0.0
Nalagarh	400	427	2:17	409	6:10	0.0	0.0	35.4	0.0
Kishenpur	400	420	22:45	388	18:42	0.0	0.2	0.0	0.0
Wagoora	400	406	22:50	340	18:41	50.0	76.6	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 20.01.2013 :

1. fog in some parts of Punjab and Haryana.

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 : 20.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER