

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.01.2013
Date of Reporting : 25.01.2013

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
33350	3778	37128	50.07	27636	665	28301	50.38	730.5	62.47

* 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	45.93	8.42		54.35	36.82	37.94	1.12	92.29	2.35
Haryana	61.67	0.54		62.21	29.60	30.86	1.26	93.07	1.01
Rajasthan	88.24	5.71	7.95	101.90	71.29	73.72	2.43	175.62	0.23
Delhi	30.07			30.07	37.51	33.84	-3.67	63.91	0.03
UP	106.84	6.79	19.20	132.83	73.58	75.06	1.48	207.89	54.60
Uttarakhand		6.59		6.59	22.99	23.50	0.52	30.10	2.30
HP		4.08		4.08	19.41	20.08	0.66	24.16	0.25
J & K		6.72	0.00	6.72	31.53	32.99	1.46	39.72	1.70
Chandigarh				0.00	3.44	3.79	0.36	3.79	0.00
Total	332.76	38.86	27.15	398.77	326.15	331.77	5.62	730.55	62.47

* 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	4682	600	51	-341	3325	0	242	288	-1.68
Haryana	4850	160	57	-212	3284	0	113	-795	-13.17
Rajasthan	7373	0	-66	1023	6849	0	41	1020	30.00
Delhi	3306	0	83	-816	1531	0	-151	-1922	-28.16
UP	8574	2848	74	317	8996	665	168	282	-1.04
Uttarakhand	1542	70	23	532	1151	0	12	573	13.15
HP	1110	0	-83	255	797	0	32	395	8.23
J&K	1710	100	-151	410	1605	0	-31	488	9.69
Chandigarh	203	0	-14	0	97	0	8	-31	-0.24
Total	33350	3778	-27	1168	27636	665	435	298	16.77

* 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	1789	2015	1825	43.15	1798	42.93	0.21
	Rihand I STPS	1000	925	991	895	21.87	911	22.08	-0.21
	Rihand II STPS	1000	975	1040	954	22.90	954	23.06	-0.16
	Rihand III STPS	500	398	303	433	9.47	395	9.29	0.18
	Dadri I STPS	840	810	878	618	17.16	715	17.83	-0.67
	Dadri II STPS	980	975	984	712	21.44	893	22.96	-1.52
	Unchahar I TPS	420	404	436	360	9.20	383	9.35	-0.15
	Unchahar II TPS	420	405	436	310	9.05	377	9.13	-0.09
	Unchahar III TPS	210	202	217	161	4.55	189	4.57	-0.02
	ISTPP (Jhajihar)	1500	980	475	463	10.66	444	11.41	-0.76
	Dadri GPS	830	844	353	353	8.88	370	9.19	-0.31
	Anta GPS	419	436	0	0	0.00	0	0.39	-0.39
	Auraiya GPS	663	679	298	256	6.82	284	6.97	-0.15
	Sub Total (A)	10782	9821	8426	7340	185.13	7714	189.14	-4.01
B. NPC	NAPS	440	143	163	165	3.39	141	3.43	-0.04
	RAPS- B	440	426	470	471	10.23	426	10.22	0.01
	RAPS- C	440	426	477	477	10.24	427	10.22	0.02
	Sub Total (B)	1320	995	1110	1113	23.87	994	23.88	-0.02
C. NHPC	Chamera I HPS	540	550	450	0	2.32	97	2.35	-0.03
	Chamera II HPS	300	202	200	0	1.32	55	1.43	-0.11
	Chamera III HPS	231	154	79	0	0.72	30	0.71	0.02
	Bairasuil HPS	180	182	80	0	0.48	20	0.48	0.00
	Salal-HPS	690	128	220	35	2.81	117	3.07	-0.26
	Tanakpur-HPS	94	32	32	27	0.67	28	0.73	-0.06
	Uri-HPS	480	200	231	147	4.77	199	4.73	0.04
	Dhauliganga-HPS	280	284	137	0	1.16	48	1.18	-0.03
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	69	0	0.39	16	0.38	0.00
	Sub Total (C)	3305	1852	1498	209	14.65	610	15.07	-0.42
D.NJPC	Nathpa Jhakri	1500	1605	1268	0	5.64	235	5.70	-0.07
	Sub Total (D)	1500	1605	1268	0	5.64	235	5.70	-0.07
E. THDC	Tehri HPS	1000	960	955	0	9.28	387	9.44	-0.16
	Koteshwar HPS	400	400	400	72	3.41	142	3.50	-0.09
Sub Total (E)	1400	1360	1355	72	12.69	529	12.94	-0.25	
F. BBMB	Bhakra HPS	1480	599	1105	416	14.65	610	14.38	0.27
	Dehar HPS	990	125	495	0	3.25	135	2.99	0.26
	Pong HPS	396	211	306	66	5.28	220	5.01	0.27
	Sub Total (F)	2866	934	1906	482	23.18	966	22.37	0.81
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	18	0	0.14	6	0.12	0.02
	Shree Cement TPS	300	0	144	77	3.04	126	3.14	-0.11
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	168	77	3.56	148	3.58	-0.03
H. Total Regional Entities (A-G)	22836	16567	15731	9293	268.71	11196	272.69	-3.98	

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	1110	840	24.71	1029
	Guru Nanak Dev TPS(Bhatinda)	440	343	338	6.93	289
	Guru Hargobind Singh TPS(L.mbt)	920	592	643	14.29	596
	Thermal (Total)	2620	2045	1821	45.93	1914
	Total Hydro	1148	434	211	8.42	351
	Total Punjab	3768	2479	2032	54.35	2265
Haryana	Panipat TPS	1367	663	596	15.65	652
	DCRTPP (Yamuna nagar)	600	230	280	5.99	250
	Faridabad GPS (NTPC)	432	282	272	6.55	273
	RGTPP (khedar) (IPP)	1200	1051	892	23.20	967
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	584	357	10.29	429
	Thermal (Total)	4944	2810	2397	61.67	2570
	Total Hydro	62	22	22	0.54	22
	Total Haryana	5006	2832	2419	62.21	2592
	Rajasthan	kota TPS	1240	1150	1149	27.12
suratgarh TPS		1500	1092	1038	25.97	1082
Chabra TPS		500	452	405	10.67	444
Dholpur GPS		330	65	0	0.59	25
Ramgarh GPS		111	47	46	0.92	38
RAPS A (NPC)		300	197	197	4.89	204
Barsingsar (NLC)		250	156	111	3.87	161
Giral LTPS		250	150	147	3.20	133
Rajwest LTPS (IPP)		675	475	476	11.02	459
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3784	3569	88.24	3677
Total Hydro		550	150	625	5.71	238
Wind power		2191	264	123	7.32	305
Biomass		91	26	26	0.63	26
Solar		201	0	0	0.00	0
Renewable/Others (Total)		2483	290	149	7.95	331
Total Rajasthan		8324	4224	4343	101.90	4246
UP	Anpara TPS	1630	1134	1099	26.70	1113
	Obra TPS	1382	478	498	11.70	488
	Paricha TPS	890	583	635	13.50	563
	Panki TPS	210	113	95	2.40	100
	Harduaganj TPS	665	36	36	0.80	33
	Tanda TPS (NTPC)	440	404	402	9.85	410
	Roza TPS (IPP)	1200	789	810	19.24	802
	Anpara-C (IPP)	1200	454	573	14.34	597
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	361	8.32	347
	Thermal (Total)	8067	4315	4509	106.84	4452
	Vishnuparyag HPS (IPP)	400	69	79	1.74	73
	Other Hydro	527	226	209	5.04	210
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5410	5597	132.83	5462
Uttarakhand	Total Hydro	1303	368	225	6.59	275
	Total Uttarakhand	1303	368	225	6.59	275
Delhi	Raighat TPS	135	110	108	2.46	102
	Delhi Gas Turbine	282	113	111	2.99	124
	Pragati Gas Turbine	330	310	259	7.25	302
	Rithala GPS	108	21	0	0.39	16
	Bawana GPS	677	213	213	5.16	215
	Badarpur TPS (NTPC)	705	495	512	11.83	493
	Thermal (Total)	2237	1262	1203	30.07	1253
Total Delhi	2237	1262	1203	30.07	1253	
HP	Baspa HPS (IPP)	330	0	0	1.00	42
	Malana HPS (IPP)	86	32	0	0.20	8
	Other Hydro	589	151	81	2.89	120
	Total HP	1005	183	81	4	170
J & K	Baglihar HPS (IPP)	450	132	132	3.32	139
	Other Hydro	323	120	170	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	252	302	6.72	280
Total State Control Area Generation		32574	17010	16202	398.77	16543
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2961	2639	82.12	3422
Total Regional Availability(Gross)		55410	35702	28134	749.61	31161

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6045	763	56.63	2359
State Control Area Hydro	5368	1635	1675	38.86	1547
Total Regional Hydro	15731	7680	2438	95.49	3906

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	250	500	0	5.33	0.00	5.33
Gwalior-Agra (D/C)	435	369	889	0	12.14	0.00	12.14
Zerda-Kankroli	21	-76	177	127	0.63	0.00	0.63
Zerda-Bhinmal	85	-23	304	110	2.41	0.00	2.41
Malanpur-Auraiya	-136	-101	0	136	0.00	2.24	-2.24
Badod-Kota/Morak	8	-77	73	112	0.00	0.58	-0.58
Mundra-Mohindergarh(HVDC)	1222	1118	1222	0	28.76	0.00	28.76
Sub Total WR	1785	1460			49.27	2.83	46.45
Pusauli Bypass	100	400	400	0	5.47	0.00	5.47
MZP- GKP (D/C)	204	180	306	0	6.06	0.00	6.06
Patna-Balia(D/C)	557	588	863	0	15.56	0.00	15.56
B'Sharif-Balia (D/C)	177	92	349	0	4.48	0.00	4.48
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-83	-285	0	293	0.00	1.89	-1.89
Gaya-Fatehpur (765 Kv)	111	54	175	14	2.75	0.00	2.75
Pusauli-Sahupuri	142	187	211	0	4.33	0.00	4.33
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	1176	1179			38.65	2.98	35.68
Total IR Exch	2961	2639			87.93	5.80	82.12

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
34.58	0.15	34.73	-3.30	6.75	0.42	10.68	-3.20	3.31

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
28.66	47.65	76.31	35.68	46.45	82.12	7.02	-1.20	5.82

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	79.90	79.20	67.70	20.10

<----- 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				
50.53	4.06	49.55	6.42	50.07	0.30	0.16	50.53	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	406	4:06	0	14:23	23.0	23.0	0.0	0.0
Gorakhpur	400	433	16:06	413	9:07	0.0	0.0	68.9	1.9
Bareilly	400	424	13:05	404	6:43	0.0	0.0	2.2	0.0
Kanpur	400	419	4:05	398	11:13	0.0	0.0	0.0	0.0
Dadri	400	416	23:53	403	8:36	0.0	0.0	0.0	0.0
Ballabgarh	400	425	3:08	404	11:13	0.0	0.0	14.2	0.0
Bawana	400	424	4:06	406	11:12	0.0	0.0	6.8	0.0
Bassi	400	428	4:04	393	11:14	0.0	0.0	5.0	0.0
Hissar	400	412	4:04	394	11:11	0.0	0.0	0.0	0.0
Moga	400	414	20:51	397	6:19	0.0	0.0	0.0	0.0
Abdullapur	400	425	20:55	297	12:31	0.0	0.0	28.2	0.0
Nalagarh	400	425	23:32	406	11:13	0.0	0.0	8.6	0.0
Kishenpur	400	420	20:50	388	21:16	0.0	0.3	0.0	0.0
Wagoora	400	414	20:50	366	19:32	48.9	86.8	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	489.93	729.18	497.76	1006.54	143.96	406.15
Pong	426.72	384.05	407.74	425.80	412.02	566.84	82.94	348.38
Tehri	829.79	740.04	799.66	600.00	818.65	982.26	35.54	227.00
Koteswar	612.50	598.50	610.90	4.95	NA	NA	227.00	226.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	49.30	63.38
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 24.01.2013 :

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 : 24.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER