

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.01.2013
Date of Reporting : 27.01.2013

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
31197	2953	34150	50.15	27358	630	27988	50.12	703.8	60.50

* 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)] Consumption Shortages *	
	Thermal	Hydro	Renewable/others \$	Total				(Net MU)	(MU)
Punjab	45.90	7.34		53.24	38.24	37.87	-0.38	91.11	1.80
Haryana	62.95	0.53		63.47	29.06	27.75	-1.31	91.23	0.00
Rajasthan	86.21	4.17	1.51	91.89	80.14	80.61	0.46	172.50	0.28
Delhi	30.23			30.23	28.31	23.18	-5.13	53.41	0.00
UP	102.42	6.08	19.20	127.70	71.74	73.45	1.70	201.15	56.15
Uttarakhand		6.58		6.58	23.32	22.72	-0.60	29.30	0.56
HP		3.62		3.62	17.30	17.41	0.11	21.03	0.01
J & K		6.54	0.00	6.54	30.64	34.26	3.62	40.81	1.70
Chandigarh				0.00	3.39	3.28	-0.11	3.28	0.00
Total	327.70	34.86	20.71	383.27	322.15	320.53	-1.62	703.80	60.50

* 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	4485	600	147	-148	3219	0	25	167	1.30
Haryana	4677	0	-35	-256	3106	0	49	-722	-12.07
Rajasthan	6789	0	-209	960	6841	0	36	1383	36.44
Delhi	2561	0	-17	-906	1434	0	-174	-1645	-27.46
UP	8335	2253	-241	-149	9109	630	-41	-184	-4.97
Uttarakhand	1418	0	-142	571	1175	0	18	575	13.05
HP	984	0	-55	180	786	0	43	395	6.82
J&K	1776	100	-88	410	1595	0	4	488	9.69
Chandigarh	173	0	-37	0	94	0	8	-31	-0.23
Total	31197	2953	-676	663	27358	630	-33	425	22.55

* 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	1960	2088	2102	47.47	1978	47.04	0.43
	Rihand I STPS	1000	925	1003	943	22.12	922	22.04	0.08
	Rihand II STPS	1000	975	1043	1027	20.12	838	23.22	-3.10
	Rihand III STPS	500	440	478	284	8.26	344	10.46	-2.20
	Dadri I STPS	840	810	600	850	15.27	636	15.47	-0.20
	Dadri II STPS	980	776	750	440	14.78	616	15.90	-1.12
	Unchahar I TPS	420	406	371	418	9.24	385	9.37	-0.14
	Unchahar II TPS	420	405	350	407	8.90	371	8.96	-0.06
	Unchahar III TPS	210	202	189	201	4.48	187	4.53	-0.06
	ISTPP (Jhajihar)	1500	980	471	386	10.02	417	10.77	-0.76
	Dadri GPS	830	848	303	315	8.14	339	8.23	-0.09
	Anta GPS	419	426	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	681	294	315	6.76	281	6.89	-0.14
	Sub Total (A)	10782	9833	7940	7688	175.55	7315	182.88	-7.33
B. NPC	NAPS	440	142	167	166	3.43	143	3.41	0.02
	RAPS- B	440	426	466	460	10.29	429	10.22	0.07
	RAPS- C	440	430	477	477	10.24	427	10.32	-0.08
	Sub Total (B)	1320	998	1110	1103	23.96	998	23.95	0.01
C. NHPC	Chamera I HPS	540	550	450	0	2.47	103	2.37	0.09
	Chamera II HPS	300	202	200	0	1.04	43	1.14	-0.10
	Chamera III HPS	231	154	68	0	0.69	29	0.67	0.01
	Bairasuil HPS	180	182	60	0	0.45	19	0.35	0.09
	Salal-HPS	690	105	215	35	2.41	101	2.59	-0.17
	Tanakpur-HPS	94	22	31	22	0.57	24	0.58	-0.01
	Uri-HPS	480	186	232	147	3.92	163	4.11	-0.19
	Dhauliganga-HPS	280	249	207	0	1.09	45	1.06	0.03
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	40	0	0.34	14	0.34	0.00
Sub Total (C)	3305	1770	1503	204	12.96	540	13.22	-0.25	
D.NJPC	Nathpa Jhakri	1500	1605	1099	0	5.25	219	5.45	-0.20
	Sub Total (D)	1500	1605	1099	0	5.25	219	5.45	-0.20
E. THDC	Tehri HPS	1000	960	954	0	9.19	383	9.20	-0.02
	Koteshwar HPS	400	400	401	86	3.36	140	3.40	-0.05
Sub Total (E)	1400	1360	1355	86	12.54	523	12.60	-0.06	
F. BBMB	Bhakra HPS	1480	597	1107	420	14.50	604	14.32	0.18
	Dehar HPS	990	94	495	0	2.09	87	2.25	-0.16
	Pong HPS	396	222	306	66	5.40	225	5.01	0.39
	Sub Total (F)	2866	912	1908	486	21.99	916	21.57	0.42
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	35	0	0.14	6	0.12	0.02
	Shree Cement TPS	300	0	132	94	2.94	123	4.32	-1.38
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	173	94	3.47	145	4.77	-1.29
H. Total Regional Entities (A-G)	22836	16478	15088	9661	255.73	10655	264.44	-8.71	

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	1060	26.05	1085
	Guru Nanak Dev TPS(Bhatinda)	440	210	190	4.86	203
	Guru Hargobind Singh TPS(L.mbt)	920	702	627	14.99	625
	Thermal (Total)	2620	2172	1877	45.90	1913
	Total Hydro	1148	377	220	7.34	306
	Total Punjab	3768	2549	2097	53.24	2218
Haryana	Panipat TPS	1367	607	564	14.69	612
	DCRTPP (Yamuna nagar)	600	287	281	6.56	273
	Faridabad GPS (NTPC)	432	272	271	6.48	270
	RGTPP (khedar) (IPP)	1200	1050	868	24.73	1030
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	583	355	10.49	437
	Thermal (Total)	4944	2799	2339	62.95	2623
	Total Hydro	62	20	23	0.53	22
	Total Haryana	5006	2819	2362	63.47	2645
	Rajasthan	kota TPS	1240	1043	1151	27.72
suratgarh TPS		1500	923	1097	25.59	1066
Chabra TPS		500	375	455	10.63	443
Dholpur GPS		330	0	0	0.00	0
Ramgarh GPS		111	42	45	1.04	43
RAPS A (NPC)		300	197	197	4.87	203
Barsingsar (NLC)		250	221	220	5.79	241
Giral LTPS		250	77	102	1.33	56
Rajwest LTPS (IPP)		675	482	480	9.25	385
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3360	3747	86.21	3592
Total Hydro		550	79	83	4.17	174
Wind power		2191	62	25	0.75	31
Biomass		91	24	24	0.59	24
Solar		201	4	0	0.17	7
Renewable/Others (Total)		2483	86	49	1.51	63
Total Rajasthan		8324	3525	3879	91.89	3829
UP	Anpara TPS	1630	1268	1375	28.70	1196
	Obra TPS	1382	545	546	11.80	492
	Paricha TPS	890	610	647	13.70	571
	Panki TPS	210	150	80	2.30	96
	Harduaganj TPS	665	44	42	0.80	33
	Tanda TPS (NTPC)	440	401	401	9.85	410
	Roza TPS (IPP)	1200	792	797	19.42	809
	Anpara-C (IPP)	1200	323	324	7.78	324
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	363	403	8.08	337
	Thermal (Total)	8067	4496	4615	102.42	4267
	Vishnuparyag HPS (IPP)	400	71	72	1.70	71
	Other Hydro	527	220	227	4.38	183
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5587	5714	127.70	5250
	Uttarakhand	Total Hydro	1303	391	231	6.58
Total Uttarakhand		1303	391	231	6.58	274
Delhi	Raighat TPS	135	109	110	1.83	76
	Delhi Gas Turbine	282	118	119	2.95	123
	Pragati Gas Turbine	330	289	294	7.31	305
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	212	222	5.33	222
	Badarpur TPS (NTPC)	705	580	580	12.82	534
	Thermal (Total)	2237	1308	1325	30.23	1259
Total Delhi	2237	1308	1325	30.23	1259	
HP	Baspa HPS (IPP)	330	30	0	0.80	33
	Malana HPS (IPP)	86	37	0	0.17	7
	Other Hydro	589	119	72	2.64	110
	Total HP	1005	186	72	4	151
J & K	Baglihar HPS (IPP)	450	132	130	3.14	131
	Other Hydro	323	120	170	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	252	300	6.54	273
Total State Control Area Generation		32574	16617	15980	383.27	15899
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2202	2581	72.61	3025
Total Regional Availability(Gross)		55410	33907	28222	711.61	29580

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5900	776	53.22	2218
State Control Area Hydro	5368	1525	1156	34.86	1382
Total Regional Hydro	15731	7425	1932	88.08	3599

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	100	200	0.67	0.52	0.14
Gwalior-Agra (D/C)	446	537	759	0	11.69	0.00	11.69
Zerda-Kankroli	2	24	175	122	0.62	0.00	0.62
Zerda-Bhinmal	94	109	322	65	3.00	0.00	3.00
Malanpur-Auraiya	-123	-82	0	147	2.30	0.00	2.30
Badod-Kota/Morak	27	-33	93	56	0.23	0.00	0.23
Mundra-Mohindergarh(HVDC)	1116	1116	1119	0	26.90	0.00	26.90
Sub Total WR	1362	1621			45.40	0.52	44.88
Pusauli Bypass	200	250	500	0	6.90	0.00	6.90
MZP- GKP (D/C)	204	308	360	0	6.82	0.00	6.82
Patna-Balia(D/C)	171	154	341	0	5.42	0.00	5.42
B'Sharif-Balia (D/C)	171	154	341	0	5.42	0.00	5.42
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-126	-144	0	194	0.00	1.57	-1.57
Gaya-Fatehpur (765 Kv)	119	152	206	0	3.12	0.00	3.12
Pusauli-Sahupuri	133	123	150	0	2.70	0.00	2.70
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	840	960			30.38	2.66	27.72
Total IR Exch	2202	2581			75.78	3.18	72.61

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
33.33	0.13	33.46	-2.22	6.23	4.15	11.23	-2.85	2.96

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
32.54	47.55	80.08	27.72	44.88	72.61	-4.81	-2.66	-7.48

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	6.60	83.10	76.60	53.50	16.80

<----- 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				
50.59	23.59	49.49	6.44	50.01	0.39	0.20	50.52	49.70

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	405	16:05	398	6:00	0.0	0.0	0.0	0.0
Gorakhpur	400	435	23:54	416	11:30	0.0	0.0	86.8	3.6
Bareilly	400	428	23:38	408	6:45	0.0	0.0	17.1	0.0
Kanpur	400	421	23:58	401	8:24	0.0	0.0	0.2	0.0
Dadri	400	421	4:09	406	8:41	0.0	0.0	0.0	0.0
Ballabgarh	400	427	23:59	409	8:24	0.0	0.0	32.0	0.0
Bawana	400	425	23:58	411	7:55	0.0	0.0	29.4	0.0
Bassi	400	427	18:03	392	8:07	0.0	0.0	12.5	0.0
Hissar	400	412	20:50	395	8:26	0.0	0.0	0.0	0.0
Moga	400	413	20:49	395	8:26	0.0	0.0	0.0	0.0
Abdullapur	400	427	4:02	413	7:58	0.0	0.0	57.6	0.0
Nalagarh	400	427	13:02	407	6:47	0.0	0.0	21.0	0.0
Kishenpur	400	416	13:02	384	19:50	0.0	11.4	0.0	0.0
Wagooa	400	405	13:04	358	19:49	48.2	87.4	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	459.53	719.44	497.31	994.96	136.77	402.98
Pong	426.72	384.05	407.49	416.46	411.90	555.85	82.23	359.74
Tehri	829.79	740.04	NA	NA	818.65	982.26	NA	225.00
Koteswar	612.50	598.50	610.75	4.95	NA	NA	225.00	223.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	260.36	500.10	263.01	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	512.06	NA	504.89	NA	59.89	53.04

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.01.2013 :
1.Normal weather in NR.

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 : 26.01.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER