

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.02.2013

Date of Reporting : 24.02.2013

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
28696	3631	32327	49.98	21385	450	21835	50.31	611.2	28.74

* 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)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	21.39	8.25		29.64	48.29	48.70	0.40	78.34	3.14
Haryana	30.23	0.40		30.63	43.10	43.37	0.26	73.99	1.95
Rajasthan	66.47	4.18	6.33	76.97	65.28	63.85	-1.42	140.83	0.09
Delhi	22.60			22.60	34.41	32.76	-1.64	55.37	0.00
UP	93.26	4.90	13.20	111.36	68.17	64.89	-3.28	176.25	21.55
Uttarakhand		11.02		11.02	18.32	17.56	-0.75	28.58	0.16
HP		6.05		6.05	18.34	16.36	-1.98	22.41	0.16
J & K		8.11	0.00	8.11	31.05	23.80	-7.25	31.91	1.70
Chandigarh				0.00	3.67	3.56	-0.11	3.56	0.00
Total	233.94	42.90	19.53	296.37	330.63	314.86	-15.77	611.23	28.74

* 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	3759	910	2	-299	2357	0	-27	284	3.70
Haryana	3953	431	-61	39	2506	0	-404	-227	-3.85
Rajasthan	6057	0	53	860	4880	0	-253	597	21.74
Delhi	2916	0	-27	-1206	1343	0	6	-1795	-33.85
UP	7664	2190	-222	-5	7389	450	-96	-61	-1.66
Uttarakhand	1473	0	-39	460	1000	0	-127	317	9.35
HP	1061	0	-150	294	679	0	-85	375	7.10
J&K	1625	100	-234	401	1142	0	-348	376	9.47
Chandigarh	189	0	-3	-10	90	0	-16	-30	-0.34
Total	28696	3631	-681	534	21385	450	-1350	-164	11.67

* 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)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1960	2094	1504	43.09	1795	43.13	-0.04
	Rihand I STPS	1000	925	985	722	19.55	815	19.72	-0.17
	Rihand II STPS	1000	975	1018	713	20.35	848	20.60	-0.24
	Rihand III STPS	500	488	506	361	10.43	435	10.54	-0.11
	Dadri I STPS	840	807	786	635	15.26	636	15.75	-0.49
	Dadri II STPS	980	969	816	712	18.22	759	19.76	-1.54
	Unchahar I TPS	420	407	433	303	7.73	322	7.74	-0.01
	Unchahar II TPS	420	405	438	311	7.88	328	7.86	0.02
	Unchahar III TPS	210	202	219	155	3.88	162	3.93	-0.06
	ISTPP (Jhajjar)	1500	980	412	380	8.58	358	9.07	-0.49
	Dadri GPS	830	831	275	321	7.11	296	7.20	-0.09
	Anta GPS	419	423	242	219	5.27	220	5.49	-0.22
	Auraiva GPS	663	664	325	290	6.34	264	6.13	0.21
	Sub Total (A)	10782	10036	8549	6626	173.68	7237	176.92	-3.24
B. NPC	NAPS	440	302	340	340	7.26	303	7.25	0.01
	RAPS- B	440	423	466	466	10.10	421	10.15	-0.05
	RAPS- C	440	430	470	475	10.16	423	10.32	-0.16
	Sub Total (B)	1320	1155	1276	1281	27.52	1147	27.72	-0.20
C. NHPC	Chamera I HPS	540	550	540	0	2.21	92	2.23	-0.02
	Chamera II HPS	300	204	100	0	1.16	48	1.18	-0.02
	Chamera III HPS	231	231	236	0	0.53	22	0.53	0.00
	Bairasuil HPS	180	182	120	60	1.36	57	1.52	-0.16
	Salal-HPS	690	462	531	423	11.38	474	10.27	1.11
	Tanakpur-HPS	94	35	46	26	0.81	34	0.85	-0.04
	Uri-HPS	480	264	338	168	6.05	252	5.65	0.41
	Dhauliganga-HPS	280	216	213	0	0.89	37	0.95	-0.06
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	126	101	2.70	112	2.28	0.42
	Sub Total (C)	3305	2263	2250	778	27.09	1129	25.46	1.63
D. NJPC	Natpaha Jhakri	1500	1605	1316	0	6.09	254	6.00	0.09
	Sub Total (D)	1500	1605	1316	0	6.09	254	6.00	0.09
E. THDC	Tehri HPS	1000	890	668	0	5.71	238	5.93	-0.22
	Koteshwar HPS	400	100	101	86	2.65	110	2.30	0.35
	Sub Total (E)	1400	990	769	86	8.36	348	8.23	0.13
F. BBMB	Bhakra HPS	1480	394	361	360	8.95	373	9.47	-0.52
	Dehar HPS	990	181	495	0	4.51	188	4.35	0.17
	Pong HPS	396	133	250	0	2.84	118	5.01	-2.17
	Sub Total (F)	2866	709	1106	360	16.30	679	18.82	-2.52
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.34	14	0.33	0.01
	KWHEP HPS(IPP)	1000	0	251	0	3.20	133	3.21	-0.01
	Malana Stg-II HPS	100	0	27	0	0.12	5	0.10	0.02
	Shree Cement TPS	300	0	270	219	6.01	250	6.08	-0.08
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	548	219	9.65	402	9.72	-0.07
H. Total Regional Entities (A-G)	22836	16758	15814	9350	268.70	11196	272.87	-4.18	

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	420	340	8.92	372
	Guru Nanak Dev TPS(Bhatinda)	440	120	105	2.20	92
	Guru Hargobind Singh TPS(L.mbt)	920	517	380	10.27	428
	Thermal (Total)	2620	1057	825	21.39	891
	Total Hydro	1148	432	280	8.25	344
	Total Punjab	3768	1489	1105	29.64	1235
Haryana	Panipat TPS	1367	423	400	10.18	424
	DCRTPP (Yamuna nagar)	600	284	243	6.46	269
	Faridabad GPS (NTPC)	432	172	0	3.10	129
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	591	359	10.49	437
	Thermal (Total)	4944	1470	1002	30.23	1259
	Total Hydro	62	17	16	0.40	17
	Total Haryana	5006	1487	1018	30.63	1276
	Rajasthan	kota TPS	1240	952	1025	23.24
suratgarh TPS		1500	686	939	17.09	712
Chabra TPS		500	228	365	5.71	238
Dholpur GPS		330	75	0	1.57	65
Ramgarh GPS		111	44	0	0.62	26
RAPS A (NPC)		300	197	197	4.88	203
Barsingsar (NLC)		250	194	156	4.08	170
Giral LTPS		250	81	63	1.59	66
Rajwest LTPS (IPP)		675	331	229	7.69	320
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	2788	2974	66.47	2769
Total Hydro		550	222	56	4.18	174
Wind power		2191	270	282	5.70	237
Biomass		91	19	19	0.45	19
Solar		201	4	0	0.18	7
Renewable/Others (Total)		2483	289	301	6.33	264
Total Rajasthan		8324	3299	3331	76.97	3207
UP		Anpara TPS	1630	1195	1142	27.10
	Obra TPS	1382	316	318	7.90	329
	Paricha TPS	890	577	603	13.40	558
	Panki TPS	210	59	0	1.30	54
	Harduaganj TPS	665	239	274	5.70	238
	Tanda TPS (NTPC)	440	401	338	8.88	370
	Roza TPS (IPP)	1200	662	639	15.83	660
	Anpara-C (IPP)	1200	308	270	6.99	291
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	254	257	6.16	257
	Thermal (Total)	8067	4011	3841	93.26	3886
	Vishnuparyag HPS (IPP)	400	67	64	1.57	65
	Other Hydro	527	87	132	3.34	139
	Cogeneration	981	550	550	13.20	550
	Total UP	9975	4715	4587	111.36	4575
	Uttarakhand	Total Hydro	1303	568	434	11.02
Total Uttarakhand		1303	568	434	11.02	459
Delhi	Rajghat TPS	135	50	59	1.13	47
	Delhi Gas Turbine	282	88	85	2.03	84
	Pragati Gas Turbine	330	271	263	6.42	268
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	298	200	5.56	232
	Badarpur TPS (NTPC)	705	340	310	7.47	311
	Thermal (Total)	2237	1047	917	22.60	942
	Total Delhi	2237	1047	917	22.60	942
	HP	Baspa HPS (IPP)	330	0	0	0.82
Malana HPS (IPP)		86	46	0	0.18	8
Other Hydro		589	246	125	5.04	210
Total HP		1005	292	125	6.05	252
J & K	Baglihar HPS (IPP)	450	150	144	3.56	148
	Other Hydro	323	95	130	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	245	274	8.11	338
Total State Control Area Generation		32574	13142	11791	296.37	12284
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2320	659	59.88	2495
Total Regional Availability(Gross)		55410	31276	21800	624.94	25974

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5719	1224	61.49	2562
State Control Area Hydro	5368	1863	1317	42.90	1722
Total Regional Hydro	15731	7582	2541	104.39	4284

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	-300	500	400	2.82	1.96	0.86
Gwalior-Agra (D/C)	176	494	856	0	10.86	0.00	10.86
Zerda-Kankroli	-85	-273	41	342	0.00	2.30	-2.30
Zerda-Bhinmal	0	-184	227	354	0.13	0.00	0.13
Malanpur-Auraiya	-124	-46	0	124	0.00	1.00	-1.00
Badod-Kota/Morak	87	-194	42	194	0.00	0.94	-0.94
Mundra-Mohindergarh(HVDC)	981	0	1268	0	15.77	0.00	15.77
Sub Total WR	1135	-503			29.58	6.20	23.38
Pusauli Bypass	400	400	500	0	9.93	0.00	9.93
MZP- GKP (D/C)	188	218	364	8	5.39	0.00	5.39
Patna-Balia(D/C)	519	425	684	0	13.64	0.00	13.64
B'Sharif-Balia (D/C)	184	203	392	0	5.81	0.00	5.81
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-216	-191	0	226	0.00	2.07	-2.07
Gaya-Fatehpur (765 Kv)	37	34	209	37	2.06	0.00	2.06
Pusauli-Sahupuri	110	111	138	0	2.63	0.00	2.63
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-38	0	42	0.00	0.89	-0.89
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1185	1162			39.46	2.96	36.50
Total IR Exch	2320	659			69.03	9.16	59.88

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
41.68	0.35	42.03	-3.21	-0.76	1.11	4.32	4.22	-4.22
Total IR Schedule (MU)								
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
44.15	32.72	76.86	36.50	23.38	59.88	-7.65	-9.34	-16.99

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	0.00	66.80	66.80	77.40	33.20

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.53	1.02	49.70	8.49	50.12	0.40	0.16	50.53	49.95

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	414	1:10	402	20:17	0.0	0.0	0.0	0.0
Gorakhpur	400	426	20:13	411	10:00	0.0	0.0	26.1	0.0
Bareilly	400	430	2:24	413	18:54	0.0	0.0	55.5	0.0
Kanpur	400	424	2:45	408	9:06	0.0	0.0	20.7	0.0
Dadri	400	430	1:41	410	18:42	0.0	0.0	40.8	0.0
Ballabgarh	400	435	2:11	413	18:54	0.0	0.0	61.0	19.6
Bawana	400	433	0:54	412	19:17	0.0	0.0	56.8	7.0
Bassi	400	435	4:02	401	7:40	0.0	0.0	42.5	7.3
Hissar	400	426	2:11	402	18:49	0.0	0.0	20.7	0.0
Moga	400	430	3:59	402	18:43	0.0	0.0	24.0	0.0
Abdullapur	400	428	1:20	410	18:51	0.0	0.0	32.9	0.0
Nalagarh	400	431	2:49	407	7:35	0.0	0.0	42.0	0.5
Kishenpur	400	436	3:59	393	18:42	0.0	0.0	26.3	6.9
Wagoora	400	426	3:59	367	19:55	28.7	42.6	5.5	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	458.59	602.35	489.37	719.44	210.65	256.61
Pong	426.72	384.05	404.00	312.39	408.77	454.47	85.72	196.29
Tehri	829.79	740.04	790.45	460.00	818.65	982.26	40.03	148.00
Koteswar	612.50	598.50	610.50	4.69	NA	NA	151.00	156.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	86.06	59.67
Rihand	268.22	252.98	259.51	NA	261.88	NA	NA	NA
RPS	352.80	343.81	346.91	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	296.88	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.57	NA	499.60	NA	77.05	155.54

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.02.2013 :
Scattered Rain in Northern Region.

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 : 23.02.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER