

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.02.2013
Date of Reporting : 25.02.2013

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
28022	2074	30096	50.03	21213	-640	20573	50.46	614.5	33.93

* 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	24.33	6.36		30.69	45.61	47.27	1.66	77.96	1.80
Haryana	31.18	0.42		31.60	49.31	48.54	-0.77	80.13	0.23
Rajasthan	76.87	3.90	6.61	87.38	61.84	60.38	-1.46	147.76	0.00
Delhi	21.47			21.47	35.78	31.80	-3.98	53.27	-0.03
UP	88.06	4.68	13.20	105.94	63.96	60.71	-3.25	166.65	30.05
Uttarakhand		12.25		12.25	17.17	16.00	-1.17	28.25	0.00
HP		6.90		6.90	16.56	14.36	-2.20	21.26	0.13
J & K		8.11	0.00	8.11	34.12	27.94	-6.18	36.05	1.70
Chandigarh				0.00	3.39	3.18	-0.21	3.18	0.00
Total	241.91	42.61	19.81	304.33	327.75	310.18	-17.57	614.51	33.93

* 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	3652	600	126	-107	2534	0	195	300	4.42
Haryana	4480	12	163	-180	2639	0	-347	-248	-7.53
Rajasthan	5749	0	-264	701	5409	0	-106	445	18.30
Delhi	2751	2	94	-1167	1289	0	-119	-1762	-31.59
UP	7283	1360	-519	-5	6091	-650	-444	-61	-2.54
Uttarakhand	1396	0	104	414	1025	0	-105	326	8.89
HP	909	0	-163	200	657	10	-176	375	6.93
J&K	1641	100	-276	401	1476	0	-205	376	9.47
Chandigarh	161	0	-21	-10	94	0	0	-30	-0.31
Total	28022	2074	-755	246	21213	-640	-1308	-280	6.05

* 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	2052	1491	42.23	1760	41.97	0.26
	Rihand I STPS	1000	925	950	646	19.10	796	19.46	-0.36
	Rihand II STPS	1000	975	957	610	20.13	839	20.66	-0.53
	Rihand III STPS	500	490	489	322	10.28	428	10.37	-0.08
	Dadri I STPS	840	807	728	619	15.06	628	15.60	-0.54
	Dadri II STPS	980	969	880	690	18.16	757	20.14	-1.97
	Unchahar I TPS	420	407	385	311	7.49	312	7.54	-0.05
	Unchahar II TPS	420	405	350	308	7.40	308	7.47	-0.07
	Unchahar III TPS	210	202	161	150	3.67	153	3.70	-0.03
	ISTPP (Jhajjar)	1500	980	337	374	8.33	347	8.75	-0.42
	Dadri GPS	830	832	283	298	7.43	309	7.55	-0.12
	Anta GPS	419	423	225	214	5.22	217	5.41	-0.19
	Auraiva GPS	663	663	157	158	3.65	152	3.74	-0.10
	Sub Total (A)	10782	10038	7954	6191	168.15	7006	172.36	-4.21
	B. NPC	NAPS	440	301	339	346	7.24	302	7.22
RAPS- B		440	421	465	469	10.23	426	10.10	0.12
RAPS- C		440	430	475	478	10.25	427	10.32	-0.07
Sub Total (B)		1320	1152	1279	1293	27.72	1155	27.65	0.08
C. NHPC	Chamera I HPS	540	550	540	0	2.74	114	2.72	0.02
	Chamera II HPS	300	204	205	0	1.39	58	1.29	0.09
	Chamera III HPS	231	231	222	0	0.84	35	0.83	0.01
	Bairasuil HPS	180	182	120	60	1.31	55	1.65	-0.34
	Salal-HPS	690	288	336	238	7.22	301	6.84	0.38
	Tanakpur-HPS	94	42	57	26	0.92	38	0.95	-0.03
	Uri-HPS	480	330	348	308	7.99	333	7.48	0.51
	Dhauliganga-HPS	280	216	210	0	0.91	38	1.14	-0.24
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	125	85	2.88	120	2.86	0.02
	Sub Total (C)	3305	2162	2163	717	26.18	1091	25.76	0.42
D.NJPC	Nathpa Jhakri	1500	1605	1331	0	6.31	263	6.30	0.01
	Sub Total (D)	1500	1605	1331	0	6.31	263	6.30	0.01
E. THDC	Tehri HPS	1000	890	878	0	5.86	244	5.80	0.06
	Koteshwar HPS	400	100	100	70	2.01	84	2.40	-0.39
	Sub Total (E)	1400	990	978	70	7.86	328	8.20	-0.34
F. BBMB	Bhakra HPS	1480	351	361	326	8.40	350	8.42	-0.02
	Dehar HPS	990	233	495	0	6.06	253	5.60	0.47
	Pong HPS	396	76	100	0	1.81	75	5.01	-3.20
	Sub Total (F)	2866	660	956	326	16.27	678	19.03	-2.76
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.27	11	0.26	0.01
	KWHEP HPS(IPP)	1000	0	300	0	3.22	134	3.10	0.12
	Malana Stg-II HPS	100	0	30	0	0.13	5	0.11	0.02
	Shree Cement TPS	300	0	265	210	5.96	249	4.91	1.05
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	595	210	9.59	400	8.39	1.20
H. Total Regional Entities (A-G)	22836	16607	15256	8807	262.09	10920	267.68	-5.59	

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	630	340	11.86	494
	Guru Nanak Dev TPS(Bhatinda)	440	120	105	2.43	101
	Guru Hargobind Singh TPS(L.mbt)	920	577	383	10.04	419
	Thermal (Total)	2620	1327	828	24.33	1014
	Total Hydro	1148	358	166	6.36	265
	Total Punjab	3768	1685	994	30.69	1279
Haryana	Panipat TPS	1367	418	397	10.19	424
	DCRTPP (Yamuna nagar)	600	281	256	6.53	272
	Faridabad GPS (NTPC)	432	178	157	3.94	164
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	589	360	10.52	438
	Thermal (Total)	4944	1466	1170	31.18	1299
	Total Hydro	62	15	17	0.42	17
	Total Haryana	5006	1481	1187	31.60	1316
	Rajasthan	kota TPS	1240	1086	952	26.30
suratgarh TPS		1500	964	844	22.45	935
Chabra TPS		500	198	228	5.24	218
Dholpur GPS		330	128	104	3.11	130
Ramgarh GPS		111	44	46	1.09	45
RAPS A (NPC)		300	197	197	4.88	203
Barsingsar (NLC)		250	161	188	4.06	169
Giral LTPS		250	82	81	1.54	64
Rajwest LTPS (IPP)		675	365	365	8.21	342
VSLP LTPS (IPP)		135	0		0.00	0
Thermal (Total)		5291	3225	3005	76.87	3203
Total Hydro		550	113	55	3.90	162
Wind power		2191	125	326	5.97	249
Biomass		91	19	19	0.46	19
Solar		201	5	0	0.19	8
Renewable/Others (Total)		2483	144	345	6.61	276
Total Rajasthan		8324	3482	3405	87.38	3641
UP		Anpara TPS	1630	1205	1005	27.20
	Obra TPS	1382	370	332	8.90	371
	Paricha TPS	890	587	510	12.90	538
	Panki TPS	210	45	59	1.30	54
	Harduaganj TPS	665	216	220	5.70	238
	Tanda TPS (NTPC)	440	332	342	8.83	368
	Roza TPS (IPP)	1200	644	635	15.74	656
	Anpara-C (IPP)	1200	0	288	1.96	82
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	239	189	5.53	230
	Thermal (Total)	8067	3638	3580	88.06	3669
	Vishnuparyag HPS (IPP)	400	64	66	1.58	66
	Other Hydro	527	107	107	3.10	129
	Cogeneration	981	550	550	13.20	550
	Total UP	9975	4359	4303	105.94	4348
	Uttarakhand	Total Hydro	1303	559	503	12.25
Total Uttarakhand		1303	559	503	12.25	511
Delhi	Rajghat TPS	135	50	48	1.12	47
	Delhi Gas Turbine	282	85	85	2.03	84
	Pragati Gas Turbine	330	267	263	6.51	271
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	224	215	5.47	228
	Badarpur TPS (NTPC)	705	210	330	6.35	264
	Thermal (Total)	2237	836	941	21.47	895
	Total Delhi	2237	836	941	21.47	895
	HP	Baspa HPS (IPP)	330	0	0	0.90
Malana HPS (IPP)		86	45	0	0.19	8
Other Hydro		589	236	232	5.81	242
Total HP		1005	281	232	6.90	287
J & K	Baglihar HPS (IPP)	450	150	148	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	278	8.11	338
Total State Control Area Generation		32574	12928	11843	304.33	12615
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2410	1118	61.02	2542
Total Regional Availability(Gross)		55410	30594	21768	627.44	26078

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5758	1113	60.25	2511
State Control Area Hydro	5368	1678	1358	42.61	1710
Total Regional Hydro	15731	7436	2471	102.86	4220

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	-400	-400	150	400	0.29	7.06	-6.77
Gwalior-Agra (D/C)	148	251	552	0	6.88	0.00	6.88
Zerda-Kankroli	-49	-194	0	223	0.00	2.38	-2.38
Zerda-Bhinmal	48	-105	118	161	0.06	0.00	0.06
Malanpur-Auraiya	-99	-44	0	120	0.00	1.28	-1.28
Badod-Kota/Morak	-65	-170	0	184	0.00	1.20	-1.20
Mundra-Mohindergarh(HVDC)	1260	995	1267	0	29.67	0.00	29.67
Sub Total WR	843	333			36.90	11.92	24.98
Pusauli Bypass	400	400	400	0	9.67	0.00	9.67
MZP- GKP (D/C)	300	102	434	0	6.43	0.00	6.43
Patna-Balia(D/C)	582	319	626	0	12.11	0.00	12.11
B'Sharif-Balia (D/C)	203	73	366	0	5.74	0.00	5.74
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-106	-143	0	162	0.00	2.17	-2.17
Gaya-Fatehpur (765 Kv)	112	-34	208	47	2.46	0.00	2.46
Pusauli-Sahupuri	113	106	125	0	2.68	0.00	2.68
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	1567	785			39.10	3.06	36.04
Total IR Exch	2410	1118			76.00	14.98	61.02

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
38.72	0.06	38.78	-2.54	-3.17	0.17	1.41	4.01	-4.00
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
40.42	40.06	80.48	36.04	24.98	61.02	-4.38	-15.08	-19.46

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	0.30	74.80	74.50	75.60	25.20

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					
50.50	17.04	49.65	9.14	50.10	0.30	0.15	50.47	49.88

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	416	3:00	403	8:37	0.0	0.0	0.0	0.0
Gorakhpur	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Bareilly	400	430	2:35	409	18:51	0.0	0.0	40.0	0.0
Kanpur	400	426	2:40	404	19:23	0.0	0.0	19.8	0.0
Dadri	400	428	2:38	408	18:50	0.0	0.0	40.1	0.0
Ballabhgarh	400	433	2:55	411	18:51	0.0	0.0	61.4	11.7
Bawana	400	431	1:49	411	18:50	0.0	0.0	48.8	0.2
Bassi	400	434	4:03	409	18:51	0.0	0.0	58.9	4.9
Hissar	400	421	2:40	397	18:55	0.0	0.0	1.0	0.0
Moga	400	422	2:58	400	18:52	0.0	0.0	4.7	0.0
Abdullapur	400	431	15:08	409	18:49	0.0	0.0	42.9	0.3
Nalagarh	400	431	15:09	410	18:50	0.0	0.0	48.0	0.1
Kishenpur	400	415	23:29	394	8:41	0.0	0.0	0.0	0.0
Wagoora	400	394	2:57	366	19:27	44.4	80.6	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 (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 24.02.2013 :
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 : 24.02.2013

पारी प्रभाती अजिंयता / SHIFT CHARGE ENGINEER