

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.02.2013
Date of Reporting : 27.02.2013

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
29535	2930	32465	50.03	23656	650	24306	50.26	654.6	46.01

* 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	25.81	7.80		33.61	46.53	48.25	1.71	81.86	1.95
Haryana	29.78	0.37		30.15	50.75	52.06	1.31	82.21	0.45
Rajasthan	86.62	4.16	15.39	106.17	58.21	51.26	-6.95	157.44	0.28
Delhi	32.35			32.35	26.87	24.23	-2.64	56.58	0.22
UP	86.24	4.69	16.80	107.73	74.04	75.28	1.24	183.01	41.43
Uttarakhand		11.40		11.40	18.00	18.47	0.47	29.87	0.00
HP		6.26		6.26	17.70	16.84	-0.86	23.10	0.00
J & K		8.67	0.00	8.67	33.93	28.43	-5.50	37.09	1.70
Chandigarh				0.00	3.59	3.43	-0.15	3.43	0.00
Total	260.80	43.35	32.19	336.34	329.62	318.25	-11.37	654.59	46.01

* 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	4011	675	51	-139	2616	0	191	321	4.64
Haryana	4631	0	211	-138	2805	0	110	-431	-5.90
Rajasthan	6101	0	-586	855	5980	0	-516	661	21.03
Delhi	2985	0	128	-1145	1366	0	-99	-1656	-31.45
UP	7419	2155	-292	-8	7675	650	415	-62	-1.70
Uttarakhand	1502	0	175	455	1049	0	-26	317	9.34
HP	1031	0	-45	48	713	0	-68	375	6.26
J&K	1663	100	-288	384	1364	0	-328	375	9.40
Chandigarh	192	0	-7	0	88	0	-11	-30	-0.29
Total	29535	2930	-653	312	23656	650	-333	-130	11.33

* 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	2006	1423	41.77	1740	42.01	-0.25
	Rihand I STPS	1000	925	915	710	19.11	796	19.09	0.02
	Rihand II STPS	1000	975	963	712	19.71	821	18.57	1.14
	Rihand III STPS	500	385	420	400	8.15	339	8.55	-0.40
	Dadri I STPS	840	807	834	618	15.93	664	17.74	-1.82
	Dadri II STPS	980	969	629	697	16.69	696	15.97	0.72
	Unchahar I TPS	420	407	374	305	8.41	351	8.48	-0.07
	Unchahar II TPS	420	405	345	309	7.80	325	7.83	-0.03
	Unchahar III TPS	210	202	157	156	3.84	160	3.89	-0.05
	ISTPP (Jhajjar)	1500	980	501	382	9.29	387	9.74	-0.45
	Dadri GPS	830	833	335	349	8.38	349	8.47	-0.08
	Anta GPS	419	422	194	199	5.54	231	5.68	-0.14
	Auraiya GPS	663	666	156	161	3.65	152	3.64	0.00
	Sub Total (A)	10782	9936	7829	6421	168.26	7011	169.67	-1.41
B. NPC	NAPS	440	303	340	343	7.24	302	7.27	-0.03
	RAPS- B	440	423	459	470	10.22	426	10.15	0.06
	RAPS- C	440	430	473	476	10.20	425	10.32	-0.12
	Sub Total (B)	1320	1156	1272	1289	27.66	1153	27.74	-0.08
C. NHPC	Chamera I HPS	540	550	540	0	3.16	132	3.17	-0.01
	Chamera II HPS	300	204	158	0	1.31	55	1.37	-0.05
	Chamera III HPS	231	231	238	0	0.73	30	0.73	-0.01
	Bairasuil HPS	180	182	120	70	1.21	50	1.18	0.02
	Salal-HPS	690	241	318	230	5.43	226	5.77	-0.34
	Tanakpur-HPS	94	31	36	29	0.74	31	0.77	-0.03
	Uri-HPS	480	346	350	359	8.40	350	7.90	0.49
	Dhauliganga-HPS	280	216	212	0	0.98	41	0.99	-0.01
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	127	116	2.87	120	2.70	0.17
	Sub Total (C)	3305	2120	2099	804	24.82	1034	24.59	0.24
	D. NJPC	Natpda Jhakri	1500	1605	1291	0	6.29	262	6.42
Sub Total (D)		1500	1605	1291	0	6.29	262	6.42	-0.13
E. THDC	Tehri HPS	1000	890	888	0	5.82	242	5.80	0.02
	Koteswar HPS	400	200	101	100	2.67	111	2.70	-0.03
	Sub Total (E)	1400	1090	989	100	8.49	354	8.50	-0.01
F. BBMB	Bhakra HPS	1480	351	627	358	8.56	357	8.42	0.14
	Dehar HPS	990	173	495	0	4.48	187	4.16	0.32
	Pong HPS	396	128	310	0	3.23	135	5.01	-1.78
	Sub Total (F)	2866	652	1432	358	16.27	678	17.58	-1.31
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	3.21	134	0.33	2.88
	KWHEP HPS(IPP)	1000	0	282	0	3.20	133	3.29	-0.09
	Malana Stg-II HPS	100	0	31	0	0.13	5	0.11	0.02
	Shree Cement TPS	300	0	225	221	5.08	212	4.66	0.42
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	538	221	11.62	484	8.39	3.23
H. Total Regional Entities (A-G)	22836	16559	15450	9193	263.41	10975	262.89	0.52	

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	632	510	12.93	539
	Guru Nanak Dev TPS(Bhatinda)	440	120	105	2.43	101
	Guru Hargobind Singh TPS(L.mbt)	920	521	382	10.45	435
	Thermal (Total)	2620	1273	997	25.81	1075
	Total Hydro	1148	422	234	7.80	325
	Total Punjab	3768	1695	1231	33.61	1400
Haryana	Panipat TPS	1367	413	396	10.17	424
	DCRTPP (Yamuna nagar)	600	278	254	6.54	273
	Faridabad GPS (NTPC)	432	177	156	4.06	169
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	615	358	9.00	375
	Thermal (Total)	4944	1483	1164	29.78	1241
	Total Hydro	62	17	16	0.37	15
	Total Haryana	5006	1500	1180	30.15	1256
	Rajasthan	kota TPS	1240	1043	1050	25.97
suratgarh TPS		1500	1127	1146	27.78	1157
Chabra TPS		500	382	393	9.24	385
Dholpur GPS		330	141	143	3.21	134
Ramgarh GPS		111	0	0	0.00	0
RAPS A (NPC)		300	197	197	5.56	232
Barsingsar (NLC)		250	86	161	1.72	72
Giral LTPS		250	66	88	1.65	69
Rajwest LTPS (IPP)		675	482	514	11.50	479
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3524	3692	86.62	3609
Total Hydro		550	154	82	4.16	173
Wind power		2191	381	902	14.54	606
Biomass		91	28	28	0.66	28
Solar		201	0	0	0.19	8
Renewable/Others (Total)		2483	409	930	15.39	641
Total Rajasthan		8324	4087	4704	106.17	4424
UP		Anpara TPS	1630	1055	1141	25.30
	Obra TPS	1382	486	490	11.90	496
	Paricha TPS	890	341	352	8.40	350
	Panki TPS	210	54	63	1.50	63
	Harduaganj TPS	665	218	204	5.50	229
	Tanda TPS (NTPC)	440	404	404	9.88	412
	Roza TPS (IPP)	1200	583	597	16.29	679
	Anpara-C (IPP)	1200	0	0	0.00	0
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	327	271	7.47	311
	Thermal (Total)	8067	3468	3522	86.24	3594
	Vishnuparyag HPS (IPP)	400	0	69	0.69	29
	Other Hydro	527	117	164	4.00	167
	Cogeneration	981	700	700	16.80	700
	Total UP	9975	4285	4455	107.73	4460
	Uttarakhand	Total Hydro	1303	506	446	11.40
Total Uttarakhand		1303	506	446	11.40	475
Delhi	Rajghat TPS	135	100	103	2.40	100
	Delhi Gas Turbine	282	165	85	3.57	149
	Pragati Gas Turbine	330	302	264	7.12	297
	Rithala GPS	108	21	21	0.51	21
	Bawana GPS	677	279	225	6.77	282
	Badarpur TPS (NTPC)	705	600	380	11.98	499
	Thermal (Total)	2237	1467	1078	32.35	1348
	Total Delhi	2237	1467	1078	32.35	1348
	HP	Baspa HPS (IPP)	330	32	32	1.00
Malana HPS (IPP)		86	45	0	0.19	8
Other Hydro		589	219	149	5.07	211
Total HP		1005	296	181	6.26	261
J & K	Baglihar HPS (IPP)	450	294	150	4.12	172
	Other Hydro	323	95	130	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	389	280	8.67	361
Total State Control Area Generation		32574	14225	13555	336.34	13986
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2657	1607	71.15	2964
Total Regional Availability(Gross)		55410	32332	24355	670.90	27926

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6124	1262	62.41	2600
State Control Area Hydro	5368	1901	1403	43.35	1778
Total Regional Hydro	15731	8025	2665	105.76	4378

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	-250	250	350	0.82	2.23	-1.42
Gwalior-Agra (D/C)	247	229	695	0	9.05	0.00	9.05
Zerda-Kankroli	-61	-274	60	326	0.00	3.30	-3.30
Zerda-Bhinmal	-3	-231	196	276	0.00	1.60	-1.60
Malanpur-Auraiya	-55	-71	0	100	0.00	1.19	-1.19
Badod-Kota/Morak	-65	-188	51	210	0.00	2.17	-2.17
Mundra-Mohindergarh(HVDC)	1263	1219	1266	0	30.56	0.00	30.56
Sub Total WR	1226	434			40.43	10.49	29.93
Pusauli Bypass	450	400	450	0	10.27	0.00	10.27
MZP- GKP (D/C)	290	236	622	0	7.73	0.00	7.73
Patna-Balia(D/C)	502	438	662	0	14.12	0.00	14.12
B'Sharif-Balia (D/C)	149	116	422	0	5.39	0.00	5.39
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-125	-123	0	142	0.00	2.34	-2.34
Gaya-Fatehpur (765 Kv)	78	40	269	0	4.32	0.00	4.32
Pusauli-Sahupuri	125	106	131	0	2.73	0.00	2.73
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	44	0.00	1.01	-1.01
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1431	1173			44.57	3.35	41.22
Total IR Exch	2657	1607			84.99	13.84	71.15

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
39.60	0.46	40.06	-1.25	-1.44	0.00	3.78	4.22	-4.22

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
43.03	43.41	86.44	41.22	29.93	71.15	-1.82	-13.48	-15.29

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	0.52	85.66	85.14	86.27	14.34

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					
50.68	17.06	49.70	19.24	50.16	0.45	0.11	50.50	49.87

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	415	4:02	0	5:59	23.3	23.3	0.0	0.0
Gorakhpur	400	427	5:05	414	7:00	0.0	0.0	63.6	0.0
Bareilly	400	429	4:02	405	9:15	0.0	0.0	23.7	0.0
Kanpur	400	425	4:04	401	6:36	0.0	0.0	11.0	0.0
Dadri	400	427	4:02	402	11:13	0.0	0.0	22.5	0.0
Ballabgarh	400	433	4:02	405	11:16	0.0	0.0	36.9	3.6
Bawana	400	427	6:34	406	10:17	0.0	0.0	12.3	0.0
Bassi	400	437	4:03	399	11:16	0.0	0.0	40.7	7.6
Hissar	400	422	4:03	397	18:57	0.0	0.0	0.7	0.0
Moga	400	425	4:03	399	9:15	0.0	0.0	15.9	0.0
Abdullapur	400	428	4:04	405	18:59	0.0	0.0	41.7	0.0
Nalagarh	400	428	4:04	404	10:08	0.0	0.0	32.9	0.0
Kishenpur	400	423	4:02	395	9:14	0.0	0.0	9.6	0.0
Wagoora	400	407	4:35	373	10:56	24.0	56.0	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	485.56	602.35	488.44	680.71	191.20	247.74
Pong	426.72	384.05	403.87	312.39	408.47	444.61	87.53	224.44
Tehri	829.79	740.04	789.85	439.29	818.65	982.26	39.40	150.00
Koteswar	612.50	598.50	609.40	4.21	NA	NA	150.00	177.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
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 26.02.2013 :
Normal Weather 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 : 26.02.2013

पारी प्रभाती अशियंता / SHIFT CHARGE ENGINEER