

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.01.2013

Date of Reporting : 01.02.2013

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
33296	3109	36405	49.93	27315	1125	28440	50.27	732.9	64.98

* 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	46.39	10.57		56.96	37.05	36.66	-0.38	93.62	5.25
Haryana	66.67	0.53		67.20	30.94	29.36	-1.58	96.56	0.20
Rajasthan	85.04	2.85	7.51	95.39	84.32	81.47	-2.85	176.86	0.20
Delhi	31.87			31.87	34.44	30.23	-4.21	62.10	0.05
UP	111.33	6.39	19.20	136.92	69.20	70.54	1.34	207.46	56.08
Uttarakhand		6.63		6.63	24.11	23.98	-0.13	30.60	1.15
HP		4.06		4.06	19.34	19.85	0.51	23.91	0.35
J & K		6.54	0.00	6.54	30.66	31.55	0.89	38.09	1.70
Chandigarh				0.00	3.52	3.69	0.18	3.69	0.00
Total	341.30	37.55	26.71	405.56	333.58	327.33	-6.24	732.89	64.98

* 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	4948	600	122	-144	3447	0	83	288	-2.63
Haryana	4745	86	0	-170	3178	0	-75	-534	-9.08
Rajasthan	7069	0	-268	1288	6925	0	-62	1493	41.25
Delhi	3203	0	-73	-912	1433	0	11	-1668	-28.40
UP	8758	2323	-246	-125	8855	1125	242	-161	-6.52
Uttarakhand	1501	0	0	583	1124	0	-31	565	13.72
HP	1102	0	-64	247	762	0	-14	395	8.42
J&K	1767	100	-115	404	1497	0	-84	482	9.53
Chandigarh	202	0	-5	0	94	0	1	-31	-0.26
Total	33296	3109	-649	1171	27315	1125	71	828	26.04

* 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	2109	2097	47.42	1976	46.92	0.50
	Rihand I STPS	1000	925	998	802	21.72	905	21.66	0.06
	Rihand II STPS	1000	975	1044	861	22.66	944	22.54	0.12
	Rihand III STPS	500	465	506	424	11.06	461	10.92	0.13
	Dadri I STPS	840	810	865	619	17.45	727	17.68	-0.23
	Dadri II STPS	980	975	1016	756	21.48	895	21.83	-0.36
	Unchahar I TPS	420	407	439	336	9.19	383	9.16	0.03
	Unchahar II TPS	420	405	440	316	8.91	371	8.78	0.13
	Unchahar III TPS	210	202	218	155	4.45	185	4.41	0.03
	ISTPP (Jhajjar)	1500	980	371	403	8.95	373	9.13	-0.18
	Dadri GPS	830	848	412	362	9.01	375	9.12	-0.11
	Anta GPS	419	426	0	0	0.00	0	0.00	0.00
	Auraiva GPS	663	681	325	309	7.34	306	7.15	0.20
	Sub Total (A)	10782	10058	8743	7440	189.63	7901	189.30	0.33
	B. NPC	NAPS	440	142	164	167	3.40	142	3.41
RAPS- B		440	427	469	471	10.21	425	10.25	-0.04
RAPS- C		440	430	475	477	10.22	426	10.32	-0.10
Sub Total (B)		1320	999	1108	1115	23.83	993	23.98	-0.14
C. NHPC	Chamera I HPS	540	365	180	0	1.85	77	1.79	0.06
	Chamera II HPS	300	204	202	0	1.16	48	1.13	0.02
	Chamera III HPS	231	154	80	0	0.56	23	0.52	0.03
	Bairasuil HPS	180	182	120	0	0.49	20	0.35	0.14
	Salal-HPS	690	120	225	61	2.94	122	2.88	0.06
	Tanakpur-HPS	94	25	32	20	0.62	26	0.59	0.04
	Uri-HPS	480	146	231	60	3.43	143	3.20	0.23
	Dhauliganga-HPS	280	210	70	0	0.61	25	0.63	-0.02
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	61	0	0.37	15	0.37	0.00
	Sub Total (C)	3305	1525	1201	141	12.02	501	11.46	0.56
	D.NJPC	Nathpa Jhakri	1500	1350	1350	0	5.33	222	4.80
Sub Total (D)		1500	1350	1350	0	5.33	222	4.80	0.53
E. THDC	Tehri HPS	1000	930	934	0	9.32	388	9.10	0.22
	Koteshwar HPS	400	400	398	86	3.62	151	3.60	0.02
	Sub Total (E)	1400	1330	1332	86	12.94	539	12.70	0.24
F. BBMB	Bhakra HPS	1480	626	1106	419	15.54	648	15.02	0.52
	Dehar HPS	990	110	495	0	2.98	124	2.65	0.33
	Pong HPS	396	237	372	126	6.00	250	5.01	0.99
	Sub Total (F)	2866	973	1973	545	24.52	1022	22.67	1.85
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.38	16	0.37	0.01
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	33	0	0.14	6	0.12	0.02
	Shree Cement TPS	300	0	276	151	5.79	241	5.28	0.51
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	315	151	6.36	265	5.77	0.59
H. Total Regional Entities (A-G)	22836	16235	16022	9478	274.62	11443	270.68	3.95	

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	1262	1060	25.55	1065
	Guru Nanak Dev TPS(Bhatinda)	440	338	295	7.10	296
	Guru Hargobind Singh TPS(L.mbt)	920	696	523	13.74	572
	Thermal (Total)	2620	2296	1878	46.39	1933
	Total Hydro	1148	455	421	10.57	440
	Total Punjab	3768	2751	2299	56.96	2373
Haryana	Panipat TPS	1367	702	727	17.89	745
	DCRTPP (Yamuna nagar)	600	282	279	6.63	276
	Faridabad GPS (NTPC)	432	186	196	4.80	200
	RGTPP (khedar) (IPP)	1200	1075	906	24.95	1039
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	577	354	12.40	517
	Thermal (Total)	4944	2822	2462	66.67	2778
	Total Hydro	62	22	21	0.53	22
	Total Haryana	5006	2844	2483	67.20	2800
	Rajasthan	kota TPS	1240	1047	1061	26.84
suratgarh TPS		1500	973	932	23.92	997
Chabra TPS		500	419	442	9.91	413
Dholpur GPS		330	108	125	2.67	111
Ramgarh GPS		111	42	44	1.23	51
RAPS A (NPC)		300	197	197	4.88	203
Barsingsar (NLC)		250	218	220	5.21	217
Giral LTPS		250	70	75	1.58	66
Rajwest LTPS (IPP)		675	359	361	8.80	367
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3433	3457	85.04	3543
Total Hydro		550	80	78	2.85	119
Wind power		2191	185	267	6.75	281
Biomass		91	26	26	0.62	26
Solar		201	3	0	0.14	6
Renewable/Others (Total)		2483	211	293	7.51	313
Total Rajasthan		8324	3724	3828	95.39	3975
UP	Anpara TPS	1630	1190	1098	28.00	1167
	Obra TPS	1382	364	494	9.80	408
	Paricha TPS	890	627	599	13.80	575
	Panki TPS	210	126	113	2.90	121
	Harduaganj TPS	665	234	238	5.50	229
	Tanda TPS (NTPC)	440	394	405	9.82	409
	Roza TPS (IPP)	1200	819	810	20.01	834
	Anpara-C (IPP)	1200	490	371	12.35	515
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	403	9.15	381
	Thermal (Total)	8067	4649	4531	111.33	4639
	Vishnuparyag HPS (IPP)	400	72	64	1.66	69
	Other Hydro	527	229	184	4.73	197
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5750	5579	136.92	5636
Uttarakhand	Total Hydro	1303	361	227	6.63	276
	Total Uttarakhand	1303	361	227	6.63	276
Delhi	Rajghat TPS	135	105	103	2.51	105
	Delhi Gas Turbine	282	124	119	2.97	124
	Pragati Gas Turbine	330	309	265	7.45	310
	Rithala GPS	108	21	0	0.31	13
	Bawana GPS	677	223	210	5.20	217
	Badarpur TPS (NTPC)	705	595	565	13.43	560
	Thermal (Total)	2237	1377	1262	31.87	1328
	Total Delhi	2237	1377	1262	31.87	1328
HP	Baspa HPS (IPP)	330	0	0	1.02	43
	Malana HPS (IPP)	86	33	0	0.16	7
	Other Hydro	589	147	84	2.87	120
	Total HP	1005	180	84	4	169
J & K	Baglihar HPS (IPP)	450	150	150	3.14	131
	Other Hydro	323	120	170	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	270	320	6.54	273
Total State Control Area Generation		32574	17257	16082	405.56	16829
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2414	2830	74.28	3095
Total Regional Availability(Gross)		55410	35693	28390	754.46	31367

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5889	772	55.32	2305
State Control Area Hydro	5368	1597	1335	37.55	1496
Total Regional Hydro	15731	7486	2107	92.87	3801

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	0	200	0	2.35	0.00	2.35
Gwalior-Agra (D/C)	253	507	639	0	10.50	0.00	10.50
Zerda-Kankroli	-67	-46	106	184	0.00	0.52	-0.52
Zerda-Bhinmal	-22	57	280	109	1.82	0.00	1.82
Malanpur-Auraiya	-93	-109	0	164	0.00	2.53	-2.53
Badod-Kota/Morak	-39	-36	39	37	0.00	0.73	-0.73
Mundra-Mohindergarh(HVDC)	1227	1126	1230	0	29.26	0.00	29.26
Sub Total WR	1359	1499			43.93	3.77	40.16
Pusauli Bypass	100	100	100	0	2.45	0.00	2.45
MZP- GKP (D/C)	246	290	382	0	6.24	0.00	6.24
Patna-Balia(D/C)	440	567	762	0	14.92	0.00	14.92
B'Sharif-Balia (D/C)	99	171	321	0	5.39	0.00	5.39
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-57	-42	17	74	0.00	0.45	-0.45
Gaya-Fatehpur (765 Kv)	116	156	238	0	3.75	0.00	3.75
Pusauli-Sahupuri	143	126	151	0	2.91	0.00	2.91
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	1055	1331			35.66	1.54	34.12
Total IR Exch	2414	2830			79.59	5.31	74.28

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
34.23	0.08	34.32	-1.62	6.52	2.29	15.27	-2.95	2.95
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
32.05	51.85	83.89	34.12	40.16	74.28	2.08	-11.69	-9.61

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	0.28	10.66	95.90	85.52	54.51	3.82

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					
50.47	4:05	49.39	13:38	50.02	0.30	0.15	50.34	49.69

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	407	4:07	397	7:43	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	425	4:05	404	11:18	0.0	0.0	7.2	0.0
Kanpur	400	420	4:05	399	7:43	0.0	0.0	0.0	0.0
Dadri	400	422	4:02	403	11:12	0.0	0.0	3.3	0.0
Ballabhgarh	400	428	4:03	407	9:39	0.0	0.0	19.6	0.0
Bawana	400	428	4:12	408	11:10	0.0	0.0	20.4	0.0
Bassi	400	426	4:03	394	8:50	0.0	0.0	7.6	0.0
Hissar	400	413	4:05	394	8:46	0.0	0.0	0.0	0.0
Moga	400	412	4:02	397	8:24	0.0	0.0	0.0	0.0
Abdullapur	400	427	4:05	291	11:06	0.0	0.0	18.5	0.0
Nalagarh	400	422	3:04	406	12:10	0.0	0.0	5.3	0.0
Kishenpur	400	412	17:02	390	18:38	0.0	0.0	0.0	0.0
Wagoora	400	397	17:02	366	18:39	47.9	86.7	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	489.10	709.72	496.82	971.87	126.63	408.98
Pong	426.72	384.05	407.17	407.15	411.72	555.85	90.50	380.10
Tehri	829.79	740.04	797.85	568.00	818.65	982.26	NA	225.00
Koteswar	612.50	598.50	610.70	4.95	NA	NA	225.00	231.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	36.69	63.07
Rihand	268.22	252.98	260.30	500.10	262.98	617.70	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	512.11	NA	504.77	NA	61.19	35.65

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 31.01.2013 :

1. Light fog in some part of Eastern UP.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

1. 765 KV (3*80 MVAR) Line reactor at Agra of Agra - Fatehpur - II (New line) , First time Charged at 18.54Hrs / 31.01.2013.
2. 765KV(3*80MVAR) Line reactor at Meerut of 765 kV Agra - Meerut (New line) charged 17.48 Hrs / 31.01.2013.
3. 765KV (3* 80 MVAR) Bus reactor at Meerut charged at 15.20 Hrs / 31.01.2013.
4. 765 / 400 KV (3* 500 MVA) ICT-II at Meerut charged at 19.55 Hrs / 31.01.2013.
5. 400 KV (125 MVAR) Bus reactor is Charged at Gorakhpur (PGCIL) 18.10 Hrs / 31.01.2013.
6. 400 KV (125 MVAR) Bus reactor at Roorkee Charged. 18.20 Hrs / 31.01.2013.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.01.2013

पारी प्रभाती अजयन्ता / SHIFT CHARGE ENGINEER