

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.01.2012
Date of Reporting : 01.02.2012

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
32577	3000	35576	49.91	25274	650	25924	50.10	707.8	52.20

* 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	49.28	10.65		59.93	31.08	31.39	0.31	91.32	2.53
Haryana	58.75	0.55		59.30	25.37	38.83	13.46	98.12	9.06
Rajasthan	85.32	4.43	7.90	97.64	51.40	63.21	11.81	160.85	5.27
Delhi	26.40			26.40	41.63	36.30	-5.32	62.70	0.09
UP	91.30	5.69	15.60	112.59	81.16	90.40	9.24	202.99	33.36
Uttarakhand		9.39		9.39	19.10	19.53	0.42	28.91	0.00
HP		4.28		4.28	19.81	18.96	-0.85	23.23	0.00
J & K		4.49	0.00	4.49	24.25	31.56	7.30	36.05	1.90
Chandigarh				0.00	3.47	3.62	0.15	3.62	0.00
Total	311.04	39.46	23.50	374.00	297.26	333.78	36.52	707.79	52.20

* 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	4212	600	-22	-333	3032	0	-17	-481	-7.41
Haryana	4515	710	607	-227	3557	0	283	-227	-5.09
Rajasthan	7097	0	584	183	6637	0	1040	308	9.76
Delhi	3269	0	-179	-13	1437	0	-19	-328	-2.83
UP	9021	1590	197	265	7457	650	137	265	6.36
Uttarakhand	1547	0	132	450	916	0	-139	450	10.80
HP	1120	0	-279	-38	747	0	65	405	6.30
J&K	1599	100	5	303	1396	0	309	298	6.65
Chandigarh	197	0	-7	0	95	0	-4	-30	-0.24
Total	32577	3000	1039	590	25274	650	1655	661	24.30

* 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	1765	1888	1733	41.88	1745	41.48	0.40
	Rihand I STPS	1000	783	885	738	17.93	747	18.11	-0.18
	Rihand II STPS	1000	977	1041	963	23.21	967	22.51	0.70
	Dadri I STPS	840	796	852	612	17.50	729	17.52	-0.01
	Dadri II STPS	980	976	1026	944	22.54	939	23.14	-0.60
	Unchahar I TPS	440	404	436	368	9.38	391	9.34	0.03
	Unchahar II TPS	440	401	441	310	8.99	375	8.99	0.00
	Unchahar III TPS	210	202	219	158	4.65	194	4.55	0.09
	ISTPP (Jhajjar)	1000	475	397	498	9.97	415	11.21	-1.24
	Dadri GPS	830	846	743	537	15.72	655	15.82	-0.10
	Anta GPS	419	426	281	261	6.82	284	6.75	0.07
	Auraiya GPS	663	662	484	362	10.46	436	10.40	0.06
	Sub Total (A)	9822	8713	8693	7484	189.05	7877	189.82	-0.77
	B. NPC	NAPS	440	137	158	157	3.22	134	3.29
RAPS- B		440	404	446	449	10.66	444	9.70	0.96
RAPS- C		440	420	469	474	10.17	424	10.08	0.09
Sub Total (B)		1320	961	1073	1080	24.05	1002	23.06	0.98
C. NHPC	Chamera I HPS	540	357	180	0	1.27	53	1.23	0.04
	Chamera II HPS	300	297	259	0	1.12	47	1.12	0.00
	Bairasuil HPS	180	179	120	0	0.62	26	0.54	0.08
	Salal-HPS	690	105	297	0	2.63	110	2.60	0.04
	Tanakpur-HPS	94	29	31	0	0.58	24	0.59	-0.01
	Uri-HPS	480	123	240	44	2.88	120	3.10	-0.22
	Dhauliganga-HPS	280	277	210	0	0.88	37	0.88	0.00
	Dulhasti-HPS	390	388	411	0	2.34	97	2.01	0.32
	Sewa-II HPS	120	119	82	0	0.46	19	0.43	0.03
	Sub Total (C)	3074	1874	1830	44	12.78	533	12.50	0.28
D. NJPC	Nathpa Jhakri	1500	984	1360	0	6.52	272	6.48	0.04
	Sub Total (D)	1500	984	1360	0	6.52	272	6.48	0.04
E. THDC	Tehri HPS	1000	772	830	0	4.90	204	5.00	-0.10
	Koteshwar HPS	200	21	0	0	0.12	5	0.18	-0.05
Sub Total (E)	1200	793	830	0	5.02	209	5.18	-0.15	
F. BBMB	Bhakra HPS	1480	765	1103	572	18.88	787	18.35	0.53
	Dehar HPS	990	121	330	0	2.65	110	2.91	-0.26
	Pong HPS	396	215	366	60	5.43	226	5.16	0.27
	Sub Total (F)	2866	1101	1799	632	26.96	1123	26.42	0.54
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	70	0	0.24	10	0.23	0.01
	KWHEP HPS(IPP)	1000	0	484	0	3.19	133	3.60	-0.41
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	139	147	3.44	143	3.44	0.00
	Sub Total (G)	1442	0	693	147	6.87	286	7.27	-0.40
H. Total Regional Entities (A-G)	21225	14426	16278	9387	271.25	11302	270.73	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	1050	1250	23.72	988	
	Guru Nanak Dev TPS(Bhatinda)	440	217	217	4.16	173	
	Guru Hargobind Singh TPS(L.mbt)	920	958	957	21.40	892	
	Thermal (Total)	2620	2225	2424	49.28	2053	
	Total Hydro	1148	355	280	10.65	444	
	Total Punjab	3768	2580	2704	59.93	2497	
Haryana	Panipat TPS	1360	779	799	16.53	689	
	DCRTPP (Yamuna nagar)	600	275	272	6.65	277	
	Faridabad GPS (NTPC)	432	430	445	10.62	443	
	RGTPP (kheldar) (IPP)	1200	986	779	24.95	1040	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2470	2295	58.75	2448	
	Total Hydro	62	27	21	0.55	23	
	Total Haryana	4339	2497	2316	59.30	2471	
	Rajasthan	kota TPS	1240	1174	1175	27.80	1158
suratgarh TPS		1500	1384	1342	32.33	1347	
Chabra TPS		500	188	182	4.42	184	
Dholpur GPS		330	227	226	5.44	227	
Ramgarh GPS		113	43	45	1.08	45	
RAPS A (NPC)		300	0	0	0.00	0	
Barsingsar (NLC)		250	144	200	4.35	181	
Giral LTPS (IPP)		250	50	50	1.28	53	
Rajwest LTPS (IPP)		540	340	350	8.62	359	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3550	3570	85.32	3555	
Total Hydro		550	174	150	4.43	184	
Wind power		1294	205	37	2.25	94	
Biomass		71	51	51	1.22	51	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	256	88	7.90	329	
Total Rajasthan		7073	3980	3808	97.64	4068	
UP		Anpara TPS	1630	1492	1451	31.40	1308
		Obra TPS	1442	652	558	12.70	529
		Paricha TPS	640	239	250	5.30	221
	Panki TPS	210	130	167	3.20	133	
	Harduaganj TPS	415	36	34	0.90	38	
	Tanda TPS (NTPC)	440	402	315	9.33	389	
	Roza TPS (IPP)	900	446	438	10.72	447	
	Anpara-C (IPP)	1200	652	368	14.51	605	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	135	143	3.25	135	
	Thermal (Total)	7057	4184	3724	91.30	3804	
	Vishnuparyag HPS (IPP)	400	74	74	1.75	73	
	Other Hydro	527	137	39	3.94	164	
	Cogeneration	951	650	650	15.60	650	
	Total UP	8935	5045	4487	112.59	4618	
	Uttarakhand	Total Hydro	1303	461	318	9.39	391
Total Uttarakhand		1303	461	318	9.39	391	
Delhi	Rajghat TPS	135	96	98	2.58	107	
	Delhi Gas Turbine	282	118	74	2.23	93	
	Pragati Gas Turbine	330	310	265	7.48	312	
	Rithala GPS	108	19	19	0.41	17	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	655	555	13.70	571	
	Thermal (Total)	2000	1198	1011	26.40	1100	
	Total Delhi	2000	1198	1011	26.40	1100	
HP	Baspa HPS (IPP)	330	0	0	1.17	49	
	Malana HPS (IPP)	101	0	0	0.19	8	
	Other Hydro	571	164	44	2.92	121	
	Total HP	1002	164	44	4	178	
J & K	Baglihar HPS (IPP)	450	130	128	3.11	130	
	Other Hydro	323	27	125	1.38	57	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	157	253	4.49	187	
Total State Control Area Generation		29376	16082	14941	374.00	15511	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2293	2387	73.89	3079	
Total Regional Availability(Gross)		50601	34653	26715	719.14	29892	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6512	823	58.15	2423
State Control Area Hydro	5365	1475	1105	37.72	1572
Total Regional Hydro	15447	7987	1928	95.87	3994

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	500	200	500	0	6.80	0.00	6.80
Gwalior-Agra (D/C)	493	772	1173	0	21.38	0.00	21.38
Zerda-Kankroli	10	16	254	35	1.80	0.00	1.80
Zerda-Bhinmal	76	137	364	4	3.98	0.00	3.98
Malanpur-Auraiya	-107	-79	0	137	0.00	1.45	-1.45
Badod-Kota/Morak	67	33	80	16	1.36	0.00	1.36
Sub Total WR	1039	1079			35.31	1.45	33.86
Pusauli Bypass	-153	36	186	153	1.67	0.34	1.33
MZP- GKP (D/C)	350	330	769	0	12.37	0.00	12.37
Patna-Balia(D/C)	359	206	663	0	8.49	0.00	8.49
B'Sharif-Balia (D/C)	333	346	660	0	9.30	0.00	9.30
Barh - balia(D/C)	248	295	432	0	8.07	0.00	8.07
Pusauli-Sahupuri	147	127	172	0	1.26	0.00	1.26
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.77	-0.77
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1254	1308			41.15	1.11	40.04
Total IR Exch	2293	2387			76.46	2.56	73.89

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
20.72	0.23	20.95	11.16	15.16	0.29	7.15	2.52	-2.52

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
34.91	10.77	45.68	40.04	33.86	73.89	5.12	23.09	28.21

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	0.20	2.00	27.50	96.40	70.90	14.00	1.60

<----- 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					
50.69	21.51	49.06	22.03	49.82	0.64	0.17	50.28	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	407	03:02	396	08:49	0.0	0.0	0.0	0.0
Gorakhpur	400	427	03:22	407	12:28	0.0	0.0	34.3	0.0
Bareilly	400	422	04:03	391	12:29	0.0	0.0	4.0	0.0
Kanpur	400	419	04:02	392	12:28	0.0	0.0	0.0	0.0
Dadri	400	417	04:02	390	12:28	0.0	0.0	0.0	0.0
Ballabgarh	400	422	04:02	393	12:28	0.0	0.0	1.6	0.0
Bawana	400	420	04:02	392	12:29	0.0	0.0	0.0	0.0
Bassi	400	422	22:12	389	12:28	0.0	0.1	0.4	0.0
Hissar	400	411	04:02	387	12:28	0.0	2.7	0.0	0.0
Moga	400	422	23:59	396	12:31	0.0	0.0	0.8	0.0
Abdullapur	400	421	21:51	238	11:46	0.0	0.0	0.2	0.0
Nalagarh	400	425	04:01	402	12:31	0.0	0.0	25.1	0.0
Kishenpur	400	422	04:02	386	12:36	0.0	0.3	0.3	0.0
Wagoora	400	409	04:03	378	12:31	1.1	54.9	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	496.82	971.87	499.75	1088.42	171.12	522.56
Pong	426.72	384.05	411.72	555.85	415.08	680.86	72.89	283.90
Tehri	829.79	740.04	799.25	592.30	818.65	982.26	52.09	187.00
Koteshwar	612.50	598.50	670.65	3.54	NA	NA	187.00	225.00
Chamera-I	760.00	748.75	754.00	NA	NA	NA	49.95	32.36
Rihand	268.22	252.98	263.04	482.00	256.70	145.10	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	505.10	NA	508.37	NA	89.99	206.49

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 31.01.2012 :

Normal weather.

XII. Synchronisation of new generating units :

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

1: 400kV Nimrana-Sikar line-1 & line-2 first time synchronized at 14.42 hrs & 13.17hrs respectively of dt. 31.01.2012

2: 1500 MVA 765/400 ICT-2 first time test charged at 16.43 hrs of dt 31.01.2012 at Balia(PG).

3: 1500 MVA 765/400 ICT-2 first time test charged at 21.53 hrs of dt 31.01.2012 at Fatehpur (PG).

4: 315 MVA 400/220 ICT-2 first time test charged at 22.10 hrs of dt 31.01.2012 at Gurgaon(PG).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER