

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)
उत्तरी क्षेत्रीय भार प्रेषण केंद्र



Power Supply Position in Northern Region for 28.01.2012
Date of Reporting : 29.01.2012

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
31701	2848	34549	49.88	25616	650	26266	50.11	718.7	43.88

* 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:

UI [OD:(+ve), UD: (-ve)]

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	51.78	10.87		62.65	29.45	30.43	0.99	93.09	1.80
Haryana	54.92	0.61		55.52	25.28	45.00	19.72	100.52	10.49
Rajasthan	92.69	4.98	8.67	106.34	53.05	58.61	5.56	164.95	1.22
Delhi	26.54			26.54	40.23	35.13	-5.09	61.67	0.12
UP	96.81	5.17	15.60	117.58	81.06	85.93	4.87	203.51	28.34
Uttarakhand		9.91		9.91	20.01	21.48	1.47	31.39	0.00
HP		4.08		4.08	20.27	19.29	-0.97	23.38	0.02
J & K		5.18	0.00	5.18	24.61	31.51	6.90	36.69	1.90
Chandigarh				0.00	3.56	3.47	-0.08	3.47	0.00
Total	322.73	40.80	24.27	387.80	297.51	330.86	33.35	718.66	43.88

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	STOA/PX transaction	
Punjab	4251	600	16	-333	3256	0	127	-481	-7.41	
Haryana	4340	840	809	-203	3370	0	268	-203	-4.54	
Rajasthan	6896	33	63	160	6557	0	487	285	8.99	
Delhi	3148	0	-252	-25	1522	0	166	-340	-3.13	
UP	8750	1275	-13	265	7573	650	0	265	6.36	
Uttarakhand	1572	0	45	450	1114	0	45	450	10.80	
HP	1097	0	-300	-38	742	0	0	405	6.30	
J&K	1455	100	-143	307	1387	0	312	302	6.74	
Chandigarh	192	0	-28	0	96	0	-1	-30	-0.24	
Total	31701	2848	197	582	25616	650	1404	652	23.88	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

A. NTPC	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
		Singrauli STPS	2000	1760	1891	1606	42.00	1750	40.97
	Rihand I STPS	1000	812	898	721	18.77	782	18.71	0.06
	Rihand II STPS	1000	962	1040	799	22.26	928	21.99	0.27
	Dadri I STPS	840	796	865	606	16.88	703	16.89	-0.01
	Dadri II STPS	980	976	1011	824	22.20	925	22.93	-0.73
	Unchahar I TPS	440	402	434	306	9.07	378	9.02	0.05
	Unchahar II TPS	440	403	440	308	9.08	379	8.98	0.11
	Unchahar III TPS	210	201	219	153	4.55	190	4.52	0.03
	ISTPP (Jhajjar)	1000	475	368	397	9.34	389	9.81	-0.47
	Dadri GPS	830	846	668	493	14.97	624	15.34	-0.37
	Anta GPS	419	426	366	262	8.33	347	8.17	0.16
	Auraiya GPS	663	662	466	292	8.56	357	8.69	-0.13
	Sub Total (A)	9822	8721	8666	6767	186.00	7750	186.02	-0.02
B. NPC	NAPS	440	131	157	159	3.40	142	3.13	0.26
	RAPS- B	440	406	447	446	9.67	403	9.74	-0.07
	RAPS- C	440	420	475	476	10.11	421	10.08	0.03
	Sub Total (B)	1320	957	1079	1081	23.18	966	22.96	0.22
C. NHPC	Chamera I HPS	540	356	307	0	1.19	50	1.20	-0.01
	Chamera II HPS	300	297	243	0	1.20	50	1.24	-0.04
	Bairasuil HPS	180	179	170	0	0.55	23	0.53	0.01
	Salal-HPS	690	121	317	30	2.63	110	2.84	-0.21
	Tanakpur-HPS	94	30	32	23	0.60	25	0.62	-0.02
	Uri-HPS	480	121	240	44	2.94	123	2.67	0.27
	Dhauliganga-HPS	280	237	209	0	0.88	37	0.86	0.01
	Dulhasti-HPS	390	388	235	0	2.01	84	1.72	0.29
	Sewa-II HPS	120	119	71	0	0.53	22	0.52	0.01
	Sub Total (C)	3074	1847	1824	97	12.54	523	12.23	0.31
D.NJPC	Nathpa Jhakri	1500	956	1361	0	6.64	277	6.84	-0.20
	Sub Total (D)	1500	956	1361	0	6.64	277	6.84	-0.20
E. THDC	Tehri HPS	1000	950	905	0	7.61	317	7.70	-0.09
	Koteshwar HPS	200	119	201	0	3.40	142	2.81	0.59
	Sub Total (E)	1200	1069	1106	0	11.01	459	10.51	0.50
F. BBMB	Bhakra HPS	1480	743	944	571	18.09	754	17.82	0.27
	Dehar HPS	990	125	495	0	3.10	129	3.00	0.10
	Pong HPS	396	183	306	60	4.55	190	4.40	0.15
	Sub Total (F)	2866	1051	1745	631	25.74	1072	25.22	0.52
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.28	11	0.26	0.01
	KWHEP HPS(IPP)	1000	0	500	0	3.44	143	3.46	-0.02
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	137	144	3.40	142	3.44	-0.03
	Sub Total (G)	1442	0	637	144	7.12	297	7.16	-0.04
H. Total Regional Entities (A-G)		21225	14601	16418	8720	272.23	11343	270.93	1.29

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	1205	1110	27.23	1134
	Guru Nanak Dev TPS(Bhatinda)	440	107	217	3.37	140
	Guru Hargobind Singh TPS(L.mbt)	920	963	963	21.19	883
	Thermal (Total)	2620	2275	2290	51.78	2158
	Total Hydro	1148	323	251	10.87	453
	Total Punjab	3768	2598	2541	62.65	2611
Haryana	Panipat TPS	1360	1037	1053	25.22	1051
	DCRTPP (Yamuna nagar)	600	266	274	6.59	275
	Faridabad GPS (NTPC)	432	212	293	9.20	383
	RGTPP (khedar) (IPP)	1200	534	538	13.91	580
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2049	2158	54.92	2288
	Total Hydro	62	22	23	0.61	25
Total Haryana	4339	2071	2181	55.52	2314	
Rajasthan	kota TPS	1240	1174	1146	27.63	1151
	suratgarh TPS	1500	1382	1369	32.62	1359
	Chabra TPS	500	188	187	4.42	184
	Dholpur GPS	330	226	227	5.45	227
	Ramgarh GPS	113	42	44	1.10	46
	RAPS A (NPC)	300	191	194	4.70	196
	Barsingsar (NLC)	250	156	152	4.38	183
	Giral LTPS (IPP)	250	0	42	0.79	33
	Rajwest LTPS (IPP)	540	465	470	11.60	483
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3824	3831	92.69	3862
	Total Hydro	550	200	133	4.98	208
	Wind power	1294	123	80	2.43	101
	Biomass	71	52	52	1.26	52
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	175	132	8.67	361
	Total Rajasthan	7073	4199	4096	106.34	4431
UP	Anpara TPS	1630	1520	1459	32.30	1346
	Obra TPS	1442	628	671	14.00	583
	Paricha TPS	640	219	234	4.90	204
	Panki TPS	210	192	199	4.30	179
	Harduaganj TPS	415	290	290	6.10	254
	Tanda TPS (NTPC)	440	401	306	9.34	389
	Roza TPS (IPP)	900	398	376	10.55	440
	Anpara-C (IPP)	1200	0	491	9.05	377
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	272	249	6.27	261
	Thermal (Total)	7057	3920	4275	96.81	4034
	Vishnuparyag HPS (IPP)	400	74	74	1.83	76
	Other Hydro	527	189	0	3.35	139
	Cogeneration	951	650	650	15.60	650
	Total UP	8935	4833	4999	117.58	4823
Uttarakhand	Total Hydro	1303	529	340	9.91	413
	Total Uttarakhand	1303	529	340	9.91	413
Delhi	Rajghat TPS	135	102	102	2.73	114
	Delhi Gas Turbine	282	118	118	2.92	122
	Pragati Gas Turbine	330	313	272	7.46	311
	Rithala GPS	108	19	19	0.39	16
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	585	585	13.04	543
	Thermal (Total)	2000	1137	1096	26.54	1106
	Total Delhi	2000	1137	1096	26.54	1106
HP	Baspa HPS (IPP)	330	0	0	1.05	44
	Malana HPS (IPP)	101	0	0	0.19	8
	Other Hydro	571	161	43	2.84	118
	Total HP	1002	161	43	4	170
J & K	Baglihar HPS (IPP)	450	130	128	3.80	158
	Other Hydro	323	27	125	1.38	57
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	157	253	5.18	216
Total State Control Area Generation		29376	15685	15549	387.80	16082
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1568	2675	68.54	2856
Total Regional Availability(Gross)		50601	33671	26944	728.57	30281

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6673	872	63.05	2627
State Control Area Hydro	5365	1581	1043	38.97	1624
Total Regional Hydro	15447	8254	1915	102.02	4251

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	200	1.20	0.72	0.48
Gwalior-Agra (D/C)	432	868	1345	0	23.43	0.00	23.43
Zerda-Kankroli	-98	21	138	98	0.78	0.00	0.78
Zerda-Bhinmal	-11	100	265	45	2.84	0.00	2.84
Malanpur-Auraiya	-161	-30	0	161	0.00	0.33	-0.33
Badod-Kota/Morak	-15	-5	46	31	0.05	0.00	0.05
Sub Total WR	247	954			28.29	1.05	27.24
Pusauli Bypass	129	196	206	48	2.30	0.23	2.07
MZP- GKP (D/C)	312	378	740	0	11.26	0.00	11.26
Patna-Balia(D/C)	292	471	607	0	9.57	0.00	9.57
B'Sharif-Balia (D/C)	160	306	553	0	8.08	0.00	8.08
Barh - balia(D/C)	281	310	400	0	7.85	0.00	7.85
Pusauli-Sahupuri	177	92	177	0	3.15	0.00	3.15
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.67	-0.67
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1321	1721			42.20	0.90	41.30
Total IR Exch	1568	2675			70.49	1.95	68.54

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
21.16	0.25	21.41	11.07	14.66	-0.07	6.25	2.90	-2.90

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
35.31	10.38	45.69	41.30	27.24	68.54	5.99	16.86	22.85

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	2.60	16.90	95.40	83.10	24.20	2.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.40	17.04	49.33	8.42	49.87	0.48	0.17	50.26	49.63

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	02:04	398	06:09	0.0	0.0	0.0	0.0
Gorakhpur	400	432	19:09	406	08:37	0.0	0.0	45.4	0.2
Bareilly	400	423	02:03	391	08:40	0.0	0.0	10.5	0.0
Kanpur	400	420	03:13	397	06:36	0.0	0.0	0.0	0.0
Dadri	400	412	18:01	393	08:41	0.0	0.0	0.0	0.0
Ballabgarh	400	423	02:48	396	08:41	0.0	0.0	9.6	0.0
Bawana	400	420	02:25	394	08:41	0.0	0.0	0.0	0.0
Bassi	400	419	18:04	390	12:25	0.0	0.0	0.0	0.0
Hissar	400	413	20:00	389	08:41	0.0	0.2	0.0	0.0
Moga	400	425	03:48	400	11:07	0.0	0.0	15.1	0.0
Abdullapur	400	420	17:04	283	14:32	0.1	0.1	0.0	0.0
Nalagarh	400	426	02:25	403	11:12	0.0	0.0	31.2	0.0
Kishenpur	400	419	03:48	392	13:41	0.0	0.0	0.0	0.0
Wagoora	400	402	18:01	368	13:41	32.0	75.0	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	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 28.01.2012 :

Normal weather.

XII. Synchronisation of new generating units :

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

1. 400 kV Abdullapur-Bawana -II LILLO at Dipalpur and Abdullapur-Dipalpur synchronised at 14.40 hrs of 28.01.2012.

Dipalpur-Bawana Synchronised at 15.52 hrs of 28.01.2012.

2. 500 MW unit -II at Jhajjar 1st time synchronises at 17.44 hrs of 28.01.2012

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 28.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER