

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.01.2012
Date of Reporting : 27.01.2012

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
31095	1650	32745	49.94	25462	650	26112	50.07	692.7	27.96

* 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	52.78	8.42		61.20	32.53	28.57	-3.96	89.78	1.80
Haryana	67.97	0.56		68.52	24.94	27.37	2.43	95.89	0.55
Rajasthan	85.56	4.93	12.07	102.56	52.40	64.32	11.92	166.87	2.01
Delhi	24.64			24.64	36.62	26.78	-9.84	51.42	0.02
UP	90.57	5.40	15.60	111.57	84.42	90.47	6.05	202.04	21.57
Uttarakhand		9.65		9.65	20.41	17.70	-2.71	27.34	0.00
HP		4.01		4.01	19.33	15.48	-3.85	19.49	0.12
J & K		5.18	0.00	5.18	25.47	31.32	5.85	36.50	1.90
Chandigarh				0.00	3.64	3.36	-0.29	3.36	0.00
Total	321.52	38.14	27.67	387.33	299.75	305.36	5.61	692.69	27.96

* 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	4457	600	29	-333	3030	0	-33	-481	-7.41
Haryana	4556	0	307	-201	3407	0	-176	-203	-4.53
Rajasthan	6636	0	-18	160	6590	0	313	285	7.82
Delhi	2538	0	-347	-25	1441	0	-146	-340	-3.13
UP	9043	950	307	265	7770	650	423	265	6.36
Uttarakhand	1360	0	-146	450	1071	0	18	450	10.80
HP	943	0	-648	174	696	0	-28	555	10.85
J&K	1381	100	-254	300	1358	0	223	302	6.72
Chandigarh	181	0	-40	0	99	0	3	-30	-0.24
Total	31095	1650	-809	790	25462	650	597	802	27.24

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

III. Regional Entities :

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

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	1760	1888	1843	42.58	1774	41.47	1.10
Rihand I STPS	1000	824	888	875	19.56	815	19.26	0.30
Rihand II STPS	1000	977	1038	955	23.33	972	22.89	0.44
Dadri I STPS	840	793	647	630	14.37	599	14.48	-0.12
Dadri II STPS	980	976	808	1024	20.43	851	20.97	-0.54
Unchahar I TPS	440	402	423	371	9.20	383	9.30	-0.10
Unchahar II TPS	440	402	441	307	9.19	383	9.05	0.14
Unchahar III TPS	210	201	211	157	4.63	193	4.57	0.05
ISTPP (Jhajjar)	1000	475	375	379	9.51	396	9.82	-0.31
Dadri GPS	830	846	535	532	14.32	597	14.44	-0.11
Anta GPS	419	426	260	273	7.24	302	6.93	0.31
Auraiya GPS	663	662	230	297	6.83	285	6.84	-0.01
Sub Total (A)	9822	8745	7744	7643	181.18	7549	180.04	1.14
B. NPC								
NAPS	440	126	153	153	3.14	131	3.02	0.11
RAPS- B	440	406	449	446	9.69	404	9.74	-0.06
RAPS- C	440	420	469	470	10.11	421	10.08	0.03
Sub Total (B)	1320	952	1071	1069	22.93	955	22.85	0.08
C. NHPC								
Chamera I HPS	540	357	360	0	3.08	128	3.18	-0.10
Chamera II HPS	300	297	246	0	1.11	46	1.22	-0.11
Bairasuil HPS	180	179	15	0	0.56	24	0.56	0.00
Salal-HPS	690	134	219	71	2.93	122	3.22	-0.29
Tanakpur-HPS	94	29	28	26	0.64	27	0.65	-0.01
Uri-HPS	480	127	238	45	2.92	122	3.05	-0.14
Dhauliganga-HPS	280	210	139	0	0.89	37	0.97	-0.08
Dulhasti-HPS	390	388	44	0	2.43	101	2.41	0.01
Sewa-II HPS	120	119	100	0	0.70	29	0.72	-0.02
Sub Total (C)	3074	1839	1389	142	15.26	636	15.99	-0.73
D.NJPC								
Nathpa Jhakri	1500	1133	1440	0	5.76	240	6.32	-0.56
Sub Total (D)	1500	1133	1440	0	5.76	240	6.32	-0.56
E. THDC								
Tehri HPS	1000	970	967	0	7.67	319	8.00	-0.33
Koteshwar HPS	200	119	202	0	2.88	120	2.95	-0.07
Sub Total (E)	1200	1089	1169	0	10.54	439	10.95	-0.41
F. BBMB								
Bhakra HPS	1480	733	944	571	18.01	750	17.58	0.43
Dehar HPS	990	133	495	0	3.11	130	3.20	-0.08
Pong HPS	396	136	246	60	3.49	145	3.27	0.22
Sub Total (F)	2866	1002	1685	631	24.61	1025	24.05	0.56
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.30	12	0.18	0.12
KWHEP HPS(IPP)	1000	0	189	0	3.46	144	3.36	0.10
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	150	0	144	143	3.46	144	3.44	0.03
Sub Total (G)	1442	0	333	143	7.22	301	6.97	0.25
H. Total Regional Entities (A-G)	21225	14760	14831	9628	267.51	11146	267.17	0.34

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	1160	1110	26.90	1121
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.75	198
	Guru Hargobind Singh TPS(L.mbt)	920	966	853	21.13	880
	Thermal (Total)	2620	2344	2181	52.78	2199
	Total Hydro	1148	275	168	8.42	351
	Total Punjab	3768	2619	2349	61.20	2550
Haryana	Panipat TPS	1360	1048	1043	24.73	1030
	DCRTPP (Yamuna nagar)	600	274	267	6.39	266
	Faridabad GPS (NTPC)	432	429	305	9.20	383
	RGTPP (kheadar) (IPP)	1200	1078	1073	27.65	1152
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2829	2688	67.97	2832
	Total Haryana	4339	2851	2707	68.52	2855
Rajasthan	kota TPS	1240	1174	1175	27.76	1157
	suratgarh TPS	1500	1148	1150	27.10	1129
	Chabra TPS	500	205	364	5.24	218
	Dholpur GPS	330	226	231	5.46	227
	Ramgarh GPS	113	41	45	1.11	46
	RAPS A (NPC)	300	193	185	4.81	200
	Barsingsar (NLC)	250	152	158	4.43	185
	Giral LTPS (IPP)	250	52	56	1.24	52
	Rajwest LTPS (IPP)	540	348	345	8.42	351
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3539	3709	85.56	3565
	Total Hydro	550	202	95	4.93	205
	Wind power	1294	162	436	5.93	247
	Biomass	71	50	50	1.20	50
	Solar	50	0	0	0.00	0
Renewable/Others (Total)	1365	212	486	12.07	503	
Total Rajasthan	7073	3953	4290	102.56	4273	
UP	Anpara TPS	1630	1313	1346	31.70	1321
	Obra TPS	1442	591	546	13.90	579
	Paricha TPS	640	218	215	5.20	217
	Panki TPS	210	191	185	4.50	188
	Harduaganj TPS	415	266	174	5.70	238
	Tanda TPS (NTPC)	440	398	310	9.45	394
	Roza TPS (IPP)	900	448	396	10.39	433
	Anpara-C (IPP)	1200	338	0	6.10	254
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	158	143	3.63	151
	Thermal (Total)	7057	3921	3315	90.57	3774
	Vishnuparyag HPS (IPP)	400	79	74	1.85	77
	Other Hydro	527	102	0	3.55	148
	Cogeneration	951	650	650	15.60	650
	Total UP	8935	4752	4039	111.57	4572
Uttarakhand	Total Hydro	1303	510	323	9.65	402
	Total Uttarakhand	1303	510	323	9.65	402
Delhi	Rajghat TPS	135	54	54	1.21	50
	Delhi Gas Turbine	282	117	115	2.80	117
	Pragati Gas Turbine	330	312	265	7.22	301
	Rithala GPS	108	19	33	0.42	18
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	570	540	12.99	541
	Thermal (Total)	2000	1072	1007	24.64	1027
	Total Delhi	2000	1072	1007	24.64	1027
HP	Baspa HPS (IPP)	330	0	0	0.91	38
	Malana HPS (IPP)	101	0	0	0.20	8
	Other Hydro	571	163	73	2.90	121
	Total HP	1002	163	73	4	167
J & K	Baglihar HPS (IPP)	450	246	130	3.80	158
	Other Hydro	323	27	125	1.38	57
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	273	255	5.18	216
Total State Control Area Generation		29376	16193	15043	387.33	16061
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1526	1841	43.46	1811
Total Regional Availability(Gross)		50601	32550	26512	698.30	29019

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6016	916	63.40	2642
State Control Area Hydro	5365	1547	933	36.29	1512
Total Regional Hydro	15447	7563	1849	99.69	4154

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	0	-100	0	200	0.00	2.61	-2.61
Gwalior-Agra (D/C)	411	847	1138	0	17.04	0.00	17.04
Zerda-Kankroli	-68	-71	80	139	0.00	0.36	-0.36
Zerda-Bhinmal	6	26	244	64	2.08	0.00	2.08
Malanpur-Auraiya	-55	-68	0	184	0.00	1.92	-1.92
Badod-Kota/Morak	25	-33	49	67	0.00	1.21	-1.21
Sub Total WR	319	601			19.12	6.10	13.01
Pusaali Bypass	145	13	285	65	0.31	2.27	-1.96
MZP- GKP (D/C)	370	342	680	0	10.60	0.00	10.60
Patna-Balia(D/C)	387	555	775	0	13.50	0.00	13.50
B'Sharif-Balia (D/C)	155	273	587	0	5.87	0.00	5.87
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusaali-Sahupuri	180	89	182	0	3.11	0.00	3.11
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	1207	1240			33.38	2.94	30.45
Total IR Exch	1526	1841			52.50	9.04	43.46

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
24.24	0.25	24.49	10.58	14.33	-0.07	10.05	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
37.53	14.10	51.63	30.45	13.01	43.46	-7.08	-1.09	-8.17

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	1.50	15.00	94.90	81.40	23.90	3.60

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.33	23.40	49.30	6.12	49.88	0.43	0.17	50.30	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	411	3:07	401	10:15	0.0	0.0	0.0	0.0
Gorakhpur	400	434	2:03	417	22:46	0.0	0.0	87.9	15.8
Bareilly	400	426	16:03	405	8:11	0.0	0.0	21.8	0.0
Kanpur	400	423	16:04	407	10:22	0.0	0.0	0.6	0.0
Dadri	400	421	16:04	404	8:55	0.0	0.0	0.1	0.0
Ballabgarh	400	425	16:02	408	8:55	0.0	0.0	24.4	0.0
Bawana	400	424	16:04	406	8:48	0.0	0.0	3.6	0.0
Bassi	400	423	18:01	390	10:30	0.0	0.0	6.9	0.0
Hissar	400	413	3:56	397	8:44	0.0	0.0	0.0	0.0
Moga	400	423	1:12	408	8:41	0.0	0.0	17.0	0.0
Abdullapur	400	423	16:03	290	8:17	0.0	0.0	5.3	0.0
Nalagarh	400	428	3:56	414	9:32	0.0	0.0	54.9	0.0
Kishenpur	400	419	1:23	399	8:41	0.0	0.0	0.0	0.0
Wagoora	400	399	1:23	373	18:51	14.9	70.0	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	497.54	994.96	500.41	1114.30	182.36	515.51
Pong	426.72	384.05	411.97	566.84	415.27	680.86	74.39	203.71
Tehri	829.79	740.04	800.45	608.45	818.65	982.26	51.93	213.00
Koteswar	612.50	598.50	608.40	3.76	NA	NA	213.00	205.00
Chamera-I	760.00	748.75	754.00	NA	NA	NA	66.90	82.41
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 26.01.2012 :
Normal wether.

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 : 26.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER