

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.01.2012
Date of Reporting : 28.01.2012

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
32771	2498	35268	49.92	24665	0	24665	50.11	705.9	33.06

* 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	51.79	9.30		61.08	29.27	28.35	-0.92	89.43	1.80
Haryana	64.96	0.53		65.49	23.11	32.06	8.95	97.54	4.18
Rajasthan	86.98	4.90	9.06	100.93	52.65	61.01	8.36	161.94	1.27
Delhi	26.91			26.91	43.67	34.54	-9.13	61.45	0.05
UP	95.86	5.40	15.60	116.86	82.51	87.90	5.39	204.76	23.81
Uttarakhand		9.72		9.72	21.02	19.63	-1.39	29.35	0.00
HP		4.28		4.28	19.41	17.97	-1.44	22.24	0.05
J & K		4.75	0.00	4.75	25.46	30.82	5.36	35.57	1.90
Chandigarh				0.00	3.58	3.57	-0.01	3.57	0.00
Total	326.50	38.87	24.66	390.03	300.67	315.84	15.17	705.87	33.06

* 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	4482	600	121	-333	3001	0	-31	-481	-7.41
Haryana	4624	628	957	-203	3309	0	121	-203	-4.54
Rajasthan	6634	165	34	160	6268	0	489	285	8.92
Delhi	3273	0	-236	-25	1221	0	-286	-340	-3.13
UP	9272	1005	55	265	7920	0	438	265	6.36
Uttarakhand	1588	0	-9	450	933	0	-197	450	10.80
HP	1104	0	-302	-38	580	0	-56	405	6.30
J&K	1590	100	-38	307	1346	0	202	302	6.74
Chandigarh	204	0	-12	0	87	0	-11	-30	-0.24
Total	32771	2498	570	582	24665	0	669	652	23.81

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1760	1886	1352	40.64	1693	40.18	0.46
	Rihand I STPS	1000	831	904	652	18.77	782	18.53	0.24
	Rihand II STPS	1000	977	1035	727	22.12	922	21.83	0.30
	Dadri I STPS	840	793	841	596	16.48	687	16.64	-0.16
	Dadri II STPS	980	976	1027	744	21.51	896	23.18	-1.67
	Unchahar I TPS	440	402	439	323	9.15	381	9.03	0.11
	Unchahar II TPS	440	402	440	307	8.99	375	9.01	-0.02
	Unchahar III TPS	210	201	219	154	4.52	188	4.51	0.01
	ISTPP (Jhajjar)	1000	475	377	406	9.28	387	9.73	-0.45
	Dadri GPS	830	846	549	511	13.81	575	14.55	-0.74
	Anta GPS	419	426	339	246	7.37	307	7.29	0.07
	Auraiya GPS	663	662	317	286	7.16	298	7.15	0.01
	Sub Total (A)	9822	8751	8373	6304	179.79	7491	181.63	-1.84
B. NPC	NAPS	440	127	157	151	3.20	134	3.05	0.16
	RAPS- B	440	406	449	448	10.66	444	9.74	0.92
	RAPS- C	440	420	471	474	10.18	424	10.08	0.10
	Sub Total (B)	1320	953	1077	1073	24.04	1002	22.87	1.17
C. NHPC	Chamera I HPS	540	356	360	0	2.10	88	2.11	-0.01
	Chamera II HPS	300	297	267	0	1.26	53	1.32	-0.06
	Bairasuil HPS	180	179	11	0	0.58	24	0.55	0.02
	Salal-HPS	690	141	330	121	3.05	127	3.22	-0.17
	Tanakpur-HPS	94	29	32	20	0.62	26	0.64	-0.02
	Uri-HPS	480	128	210	102	2.91	121	2.96	-0.05
	Dhauliganga-HPS	280	210	137	0	0.87	36	0.87	0.00
	Dulhasti-HPS	390	388	265	0	1.95	81	1.83	0.12
	Sewa-II HPS	120	119	112	0	0.77	32	0.82	-0.06
	Sub Total (C)	3074	1846	1724	243	14.11	588	14.32	-0.22
D. NJPC	Nathpa Jhakri	1500	1183	1087	0	6.27	261	6.47	-0.20
	Sub Total (D)	1500	1183	1087	0	6.27	261	6.47	-0.20
E. THDC	Tehri HPS	1000	970	964	0	8.76	365	8.75	0.01
	Koteshwar HPS	200	119	182	0	2.80	117	2.80	0.00
	Sub Total (E)	1200	1089	1146	0	11.57	482	11.55	0.02
F. BBMB	Bhakra HPS	1480	738	944	571	17.10	713	17.71	-0.61
	Dehar HPS	990	127	495	0	3.31	138	3.06	0.26
	Pong HPS	396	170	246	60	3.78	158	4.07	-0.29
	Sub Total (F)	2866	1035	1685	631	24.19	1008	24.84	-0.65
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.27	11	0.26	0.01
	KWHEP HPS(IPP)	1000	0	482	0	3.45	144	3.46	-0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	143	146	3.23	135	3.44	-0.21
	Sub Total (G)	1442	0	625	146	6.95	289	7.15	-0.21
H. Total Regional Entities (A-G)	21225	14857	15717	8397	266.92	11122	268.84	-1.92	

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	1255	1040	26.79	1116	
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.73	197	
	Guru Hargobind Singh TPS(L.mbt)	920	960	763	20.27	845	
	Thermal (Total)	2620	2433	2021	51.79	2158	
	Total Hydro	1148	438	229	9.30	387	
	Total Punjab	3768	2871	2250	61.08	2545	
Haryana	Panipat TPS	1360	1040	1048	25.27	1053	
	DCRTPP (Yamuna nagar)	600	271	276	6.59	274	
	Faridabad GPS (NTPC)	432	425	282	9.59	399	
	RGTPP (kheldar) (IPP)	1200	532	1087	23.52	980	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2268	2693	64.96	2707	
	Total Hydro	62	21	21	0.53	22	
	Total Haryana	4339	2289	2714	65.49	2729	
	Rajasthan	kota TPS	1240	1145	1065	26.92	1122
suratgarh TPS		1500	1273	1132	27.84	1160	
Chabra TPS		500	187	188	4.44	185	
Dholpur GPS		330	227	226	5.43	226	
Ramgarh GPS		113	40	43	1.11	46	
RAPS A (NPC)		300	190	196	4.80	200	
Barsingsar (NLC)		250	152	152	4.39	183	
Giral LTPS (IPP)		250	42	52	0.83	35	
Rajwest LTPS (IPP)		540	470	348	11.22	468	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3726	3402	86.98	3624	
Total Hydro		550	160	142	4.90	204	
Wind power		1294	18	210	2.89	120	
Biomass		71	53	53	1.28	53	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	71	263	9.06	378	
Total Rajasthan		7073	3957	3807	100.93	4206	
UP		Anpara TPS	1630	1294	1319	31.00	1292
		Obra TPS	1442	646	601	14.10	588
		Paricha TPS	640	198	227	5.10	213
	Panki TPS	210	186	185	4.30	179	
	Harduaganj TPS	415	261	259	6.20	258	
	Tanda TPS (NTPC)	440	400	304	9.19	383	
	Roza TPS (IPP)	900	445	376	10.16	423	
	Anpara-C (IPP)	1200	487	363	10.77	449	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	227	185	5.05	210	
	Thermal (Total)	7057	4144	3819	95.86	3994	
	Vishnuparyag HPS (IPP)	400	74	75	1.79	75	
	Other Hydro	527	230	36	3.61	150	
	Cogeneration	951	650	650	15.60	650	
	Total UP	8935	5098	4580	116.86	4795	
	Uttarakhand	Total Hydro	1303	569	330	9.72	405
Total Uttarakhand		1303	569	330	9.72	405	
Delhi	Rajghat TPS	135	102	100	2.31	96	
	Delhi Gas Turbine	282	162	114	3.56	148	
	Pragati Gas Turbine	330	311	272	7.31	305	
	Rithala GPS	108	19	33	0.43	18	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	570	575	13.31	554	
	Thermal (Total)	2000	1164	1094	26.91	1121	
	Total Delhi	2000	1164	1094	26.91	1121	
HP	Baspa HPS (IPP)	330	0	0	1.15	48	
	Malana HPS (IPP)	101	0	0	0.19	8	
	Other Hydro	571	159	63	2.94	122	
	Total HP	1002	159	63	4	178	
J & K	Baglihar HPS (IPP)	450	132	128	3.14	131	
	Other Hydro	323	49	114	1.61	67	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	181	242	4.75	198	
Total State Control Area Generation		29376	16288	15080	390.03	16176	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1665	2396	76.07	3170	
Total Regional Availability(Gross)		50601	33670	25873	733.01	30468	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6267	1020	63.08	2628
State Control Area Hydro	5365	1758	1063	37.08	1545
Total Regional Hydro	15447	8025	2083	100.16	4173

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	200	200	100	1.07	0.63	0.44
Gwalior-Agra (D/C)	542	719	1236	0	23.52	0.00	23.52
Zerda-Kankroli	-29	-38	202	69	1.11	0.00	1.11
Zerda-Bhinmal	15	51	285	44	3.11	0.00	3.11
Malanpur-Auraiya	-55	-68	0	184	0.00	0.20	-0.20
Badod-Kota/Morak	0	-1	78	36	5.60	0.00	5.60
Sub Total WR	473	863			34.40	0.82	33.58
Pusauli Bypass	106	153	260	0	3.38	0.21	3.17
MZP- GKP (D/C)	400	462	672	0	12.57	0.00	12.57
Patna-Balia(D/C)	387	555	775	0	11.90	0.00	11.90
B'Sharif-Balia (D/C)	155	273	587	0	7.45	0.00	7.45
Barh - balia(D/C)	0	0	0	0	5.01	0.00	5.01
Pusauli-Sahupuri	174	122	175	0	3.24	0.00	3.24
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1192	1533			43.55	1.06	42.49
Total IR Exch	1665	2396			77.96	1.89	76.07

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
25.90	0.24	26.14	11.07	14.48	0.23	6.69	2.77	-2.77

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
40.22	10.66	50.88	42.49	33.58	76.07	2.27	22.92	25.19

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	1.30	15.90	93.80	79.20	29.20	4.90

<----- 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					
50.56	5.05	49.31	9.13	49.89	0.48	0.19	50.45	49.61

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	414	00:55	396	22:06	0.0	0.0	0.0	0.0
Gorakhpur	400	429	19:25	407	12:07	0.0	0.0	25.7	0.0
Bareilly	400	424	00:54	400	14:12	0.0	0.0	21.7	0.0
Kanpur	400	420	00:54	396	06:26	0.0	0.0	0.0	0.0
Dadri	400	420	04:05	395	08:37	0.0	0.0	0.0	0.0
Ballabgarh	400	424	01:08	397	10:08	0.0	0.0	19.3	0.0
Bawana	400	422	04:03	394	10:18	0.0	0.0	4.1	0.0
Bassi	400	422	04:05	392	06:42	0.0	0.0	1.5	0.0
Hissar	400	412	02:57	394	14:14	0.0	0.0	0.0	0.0
Moga	400	425	02:59	0	11:00	31.8	31.8	19.0	0.0
Abdullapur	400	421	04:03	283	14:25	0.1	0.1	0.3	0.0
Nalagarh	400	428	01:35	411	12:47	0.0	0.0	35.0	0.0
Kishenpur	400	422	04:05	390	14:08	0.0	0.0	0.9	0.0
Wagoora	400	401	04:03	365	15:46	46.0	74.7	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	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
Koteshwar	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 27.01.2012 :

Normal weather.

XII. Synchronisation of new generating units :

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

1: 125 MVAR Bus Reactor first time charged at 11.10 hrs of dt. 27.01.2012 at Balia.

2: 400kV Neemrana-Sikar ckt-2 first time charged at 21.32 hrs of dt. 27.01.2012.

3: 315MVA ICT first time charged at 22.15 hrs of dt. 27.01.2012 at Sikar.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 27.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER