

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.01.2014
Date of Reporting : 23.01.2014

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
33916	2320	36236	50.09	25112	0	25112	50.36	697.8	25.80

* 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	30.59	8.03		38.62	30.23	29.61	-0.62	68.22	0.00
Haryana	56.75	0.43		57.18	26.33	27.06	0.73	84.25	0.09
Rajasthan	87.95	1.86	6.48	96.28	69.39	66.06	-3.34	162.34	0.00
Delhi	23.96			23.96	46.58	44.15	-2.44	68.11	0.11
UP	108.35	15.60	15.60	139.55	87.78	86.95	-0.82	226.50	22.90
Uttarakhand		7.21		7.21	24.88	28.09	3.21	35.30	0.23
HP		4.28		4.28	20.57	21.11	0.54	25.39	0.78
J & K		5.79	0.00	5.79	27.94	17.84	-10.09	23.63	1.70
Chandigarh				0.00	3.15	4.03	0.88	4.03	0.00
Total	307.60	43.20	22.08	372.87	336.84	324.89	-11.94	697.76	25.80

* 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	3643	0	-160	-1002	2714	0	51	10	-7.42
Haryana	5853	0	457	-536	3276	0	1196	-1064	-16.22
Rajasthan	7516	0	28	1419	6113	0	-104	896	29.90
Delhi	3464	0	-136	-606	1503	0	-130	-1371	-21.20
UP	8949	2180	-139	1143	8458	0	-196	588	14.64
Uttarakhand	1726	40	25	616	1169	0	94	579	13.85
HP	1267	0	-8	396	775	0	31	412	9.62
J&K	1289	100	-221	658	1014	0	-611	632	13.03
Chandigarh	209	0	18	0	90	0	6	-12	-0.07
Total	33916	2320	-136	2087	25112	0	337	669	36.12

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

III. Regional Entities :

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	1718	1831	1392	38.46	1603	37.79	0.67
Rihand I STPS	1000	935	937	724	19.37	807	18.83	0.54
Rihand II STPS	1000	985	979	716	19.50	812	19.51	-0.02
Rihand III STPS	1000	-5	0	0	0.14	6	-0.08	0.22
Dadri I STPS	840	815	868	598	17.43	726	17.70	-0.27
Dadri II STPS	980	985	979	691	20.63	860	21.05	-0.42
Unchahar I TPS	420	408	379	304	7.71	321	7.75	-0.03
Unchahar II TPS	420	380	319	308	6.83	285	6.83	0.00
Unchahar III TPS	210	202	153	105	3.66	152	3.63	0.02
ISTPP (Jhajjar)	1500	1500	610	624	13.80	575	13.93	-0.13
Dadri GPS	830	850	395	414	9.39	391	9.58	-0.18
Anta GPS	419	431	255	258	6.25	260	6.22	0.03
Auraiya GPS	663	679	106	165	3.83	159	3.81	0.01
Sub Total (A)	11282	9883	7811	6299	166.99	6958	166.55	0.44
B. NPC								
NAPS	440	313	340	345	7.26	302	7.51	-0.26
RAPS- B	440	421	462	462	10.06	419	10.10	-0.05
RAPS- C	440	430	473	477	10.27	428	10.32	-0.05
Sub Total (B)	1320	1164	1275	1284	27.59	1149	27.94	-0.35
C. NHPC								
Chamera I HPS	540	541	360	0	1.64	68	1.62	0.02
Chamera II HPS	300	200	200	0	0.93	39	0.95	-0.01
Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
Bairasuil HPS	180	62	62	0	0.67	28	0.59	0.09
Salal-HPS	690	189	323	35	5.01	209	4.59	0.42
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	100	224	15	2.39	100	2.42	-0.03
Uri-II HPS	180	62	122	37	1.51	63	1.48	0.04
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	258	261	0	2.34	97	2.35	-0.02
Sewa-II HPS	120	119	123	0	0.92	38	0.94	-0.02
Sub Total (C)	3485	1531	1675	87	15.41	642	14.93	0.48
D. NJPC								
Nathpa Jhakri	1500	1350	1049	0	6.84	285	7.00	-0.16
Sub Total (D)	1500	1350	1049	0	6.84	285	7.00	-0.16
E. THDC								
Tehri HPS	1000	1000	989	0	6.86	286	6.90	-0.04
Koteshwar HPS	400	106	202	90	2.56	107	2.50	0.06
Sub Total (E)	1400	1106	1191	90	9.43	393	9.40	0.03
F. BBMB								
Bhakra HPS	1497	588	1004	383	14.03	585	14.12	-0.08
Dehar HPS	990	121	330	0	3.27	136	2.91	0.37
Pong HPS	396	203	312	60	5.07	211	4.88	0.19
Sub Total (F)	2883	913	1646	443	22.37	932	21.90	0.47
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.35	14	0.33	0.01
KWHEP HPS(IPP)	1000	0	360	0	3.63	151	3.60	0.03
Malana Stg-II HPS	100	0	0	0	0.12	5	0.11	0.01
Shree Cement TPS	300	0	276	274	6.70	279	6.79	-0.08
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1662	0	636	274	10.80	450	10.84	-0.04
H. Total Regional Entities (A-G)	23532	15946	15283	8477	259.42	10809	258.56	0.86

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	790	680	17.39	724
	Guru Nanak Dev TPS(Bhatinda)	440	80	250	3.08	128
	Guru Hargobind Singh TPS(L.mbt)	920	706	730	10.13	422
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	1576	1660	30.59	1274
	Total Hydro	1148	278	221	8.03	335
Total Punjab	5128	1854	1881	38.62	1609	
Haryana	Panipat TPS	1367	643	216	11.27	469
	DCRTPP (Yamuna nagar)	600	553	503	12.54	523
	Faridabad GPS (NTPC)	432	202	159	4.63	193
	RGTPP (khedar) (IPP)	1200	589	0	4.66	194
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1201	744	23.66	986
	Thermal (Total)	4944	3188	1622	56.75	2365
	Total Hydro	62	19	16	0.43	18
Total Haryana	5006	3207	1638	57.18	2383	
Rajasthan	kota TPS	1240	1120	1123	26.22	1092
	suratgarh TPS	1500	847	834	19.90	829
	Chabra TPS	750	446	437	9.58	399
	Dholpur GPS	330	113	106	2.54	106
	Ramgarh GPS	221	46	41	1.21	50
	RAPS A (NPC)	300	175	175	4.11	171
	Barsingsar (NLC)	250	213	216	5.01	209
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	544	478	10.39	433
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	544	3	8.99	375
	Thermal (Total)	7976	4048	3413	87.95	3664
	Total Hydro	550	119	80	1.86	78
	Wind power	2191	114	551	5.53	230
	Biomass	91	29	29	0.65	27
	Solar	201	3	0	0.31	13
Renewable/Others (Total)	2483	143	580	6.48	270	
Total Rajasthan	11009	4310	4073	96.28	4012	
UP	Anpara TPS	1630	1123	1324	29.60	1233
	Obra TPS	1288	510	501	12.40	517
	Paricha TPS	1140	739	756	18.90	788
	Panki TPS	210	54	68	1.40	58
	Harduaganj TPS	665	368	412	9.20	383
	Tanda TPS (NTPC)	440	341	338	9.18	382
	Roza TPS (IPP)	1200	387	644	12.78	533
	Anpara-C (IPP)	1200	364	419	9.96	415
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	195	196	4.93	205
	Thermal (Total)	8223	4081	4658	108.35	4515
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	650	101	15.60	650
	Cogeneration	981	650	650	15.60	650
	Total UP	10131	5381	5409	139.55	5815
Uttarakhand	Total Hydro	1303	461	130	7.21	301
	Total Uttarakhand	1303	461	130	7.21	301
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	162	162	3.81	159
	Pragati Gas Turbine	330	320	268	7.47	311
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	616	500	12.68	528
	Thermal (Total)	2232	1098	930	23.96	998
Total Delhi	2232	1098	930	23.96	998	
HP	Baspa HPS (IPP)	330	0	0	1.04	44
	Malana HPS (IPP)	86	0	0	0.19	8
	Other Hydro	589	174	66	3.05	127
	Total HP	1005	174	66	4.28	178
J & K	Baglihar HPS (IPP)	450	148	118	3.21	134
	Other Hydro	323	104	127	2.57	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	252	245	5.79	241
Total State Control Area Generation		36770	16737	14372	372.87	15536
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3629	1454	72.51	3021
Total Regional Availability(Gross)		60303	35649	24303	704.80	29367

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5921	620	58.15	2423
State Control Area Hydro	5368	1953	859	43.20	1800
Total Regional Hydro	15928	7874	1479	101.34	4223

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	250	-500	250	500	2.36	3.22	-0.86
Gwalior-Agra (D/C)	1029	1166	1712	0	31.41	0.00	31.41
Zerda-Kankroli	-174	-251	0	331	0.00	4.14	-4.14
Zerda-Bhinmal	-48	-143	203	245	0.00	0.87	-0.87
Malanpur-Auraiya	-62	-46	0	70	0.00	1.15	-1.15
Badod-Kota/Morak	-52	-182	0	205	0.00	2.34	-2.34
Mundra-Mohindergarh(HVDC)	2002	899	2004	0	35.10	0.00	35.10
Sub Total WR	2945	943			68.87	11.72	57.16
Pusauli Bypass	-100	-100	400	100	1.08	2.12	-1.03
MZP- GKP (D/C)	94	125	360	0	4.23	0.00	4.23
Patna-Balia(D/C)	299	267	541	0	8.12	0.00	8.12
B'Sharif-Balia (D/C)	206	149	344	0	5.09	0.00	5.09
Pusauli-Balia	-1	-1	24	75	0.00	0.23	-0.23
Gaya-Fatehpur (765 Kv)	-48	-78	156	99	0.00	0.35	-0.35
Pusauli-Sahupuri	158	128	181	0	3.43	0.00	3.43
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-30	0	37	0.00	0.58	-0.58
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	108	51	367	56	0.00	3.34	-3.34
Sub Total ER	684	511			21.96	6.61	15.35
Total IR Exch	3629	1454			90.83	18.32	72.51

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
27.22	0.28	27.50	21.16	3.25	3.45	2.33	0.07	-0.07

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
52.18	46.58	98.76	15.35	57.16	72.51	-36.83	10.58	-26.25

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	87.90	3.10	87.90	60.70	12.10

<----- 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	Hz				
50.40	5.07	49.70	16.23	50.04	0.19	0.13	50.36	49.86

VII. Voltage profile 400 kV

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	02:15	404	18:50	0.0	0.0	0.0	0.0
Gorakhpur	400	425	02:18	411	09:44	0.0	0.0	23.6	0.0
Barilly	400	429	22:57	409	07:38	0.0	0.0	36.1	0.0
Kanpur	400	424	23:33	409	09:11	0.0	0.0	10.8	0.0
Dadri	400	429	01:16	409	18:43	0.0	0.0	32.7	0.0
Ballabgarh	400	436	00:00	414	16:23	0.0	0.0	54.8	25.4
Bawana	400	434	00:00	413	07:38	0.0	0.0	47.7	22.1
Bassi	400	436	03:35	405	18:43	0.0	0.0	45.1	16.3
Hissar	400	423	23:57	404	16:21	0.0	0.0	4.4	0.0
Moga	400	420	23:56	391	09:54	0.0	0.0	0.0	0.0
Abdullapur	400	431	23:18	402	06:15	0.0	0.0	14.9	0.1
Nalagarh	400	431	22:30	410	06:18	0.0	0.0	44.0	0.5
Kishenpur	400	420	13:04	399	18:32	0.0	0.0	0.0	0.0
Wagoora	400	422	09:05	406	11:12	9.2	9.2	22.1	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	773	13:04	737	18:43	0.0	14.7	0.0	0.0
Balia	765	768	13:00	737	07:27	0.0	9.2	0.0	0.0
Moga	765	806	03:02	739	09:55	0.0	1.4	14.6	0.0
Agra	765	823	03:02	774	07:38	0.0	0.0	43.4	0.6
Bhiwani	765	817	02:14	777	07:29	0.0	0.0	37.3	0.0
Unnao	765	773	02:58	745	07:26	0.0	0.0	0.0	0.0

IX. 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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	497.53	994.96	490.31	748.75	301.89	425.72
Pong	426.72	384.05	409.20	474.29	408.01	435.19	183.01	328.31
Tehri	829.79	740.04	804.05	686.00	818.65	982.26	65.18	164.00
Koteshwar	612.50	598.50	609.90	4.44	610.45	4.69	164.00	170.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	49.70	44.42
Rihand	268.22	252.98	260.24	318.10	260.60	338.50	NA	NA
RPS	352.80	343.81	348.98	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.43	14.40	512.19	14.40	31.97	88.38

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 22.01.2014 :

1. Partial Rains in some part of Region.

XIII. Synchronisation of new generating units :

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

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.

Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood
Vishnuprayag and Dhauliganga expected by Mar, 2014 .

Report for : 22.01.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER