

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.01.2014
Date of Reporting : 22.01.2014

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
34771	2327	37098	50.10	27183	0	27183	50.20	713.8	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	42.10	9.28		51.39	31.36	32.75	1.38	84.13	0.00
Haryana	56.75	0.43		57.18	34.28	23.37	-10.91	80.55	0.09
Rajasthan	98.35	4.04	8.87	111.26	60.99	58.96	-2.03	170.23	0.00
Delhi	22.36			22.36	46.60	45.46	-1.14	67.82	0.11
UP	105.84	3.16	15.60	124.59	84.92	81.27	-3.64	205.87	22.90
Uttarakhand		7.38		7.38	23.44	27.77	4.33	35.15	0.23
HP		4.30		4.30	20.83	20.84	0.01	25.14	0.78
J & K		5.79	0.00	5.79	32.99	35.26	2.26	41.04	1.70
Chandigarh				0.00	3.14	3.89	0.75	3.89	0.00
Total	325.40	34.38	24.47	384.26	338.54	329.56	-8.98	713.82	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	STOA/PX transaction	
Punjab	4329	0	-78	-437	2782	0	63	14	-6.49	
Haryana	5853	0	16	-524	3276	0	499	-338	-12.48	
Rajasthan	7297	0	25	423	7236	0	433	-12	23.31	
Delhi	3517	7	-102	-617	1512	0	-44	-1300	-19.74	
UP	8810	2180	-243	1148	8754	0	-301	592	14.76	
Uttarakhand	1737	40	101	615	1168	0	199	483	13.46	
HP	1237	0	-77	396	722	0	-13	412	9.73	
J&K	1789	100	-29	658	1640	0	27	635	13.07	
Chandigarh	203	0	19	0	93	0	-2	-10	-0.04	
Total	34771	2327	-368	1661	27183	0	861	475	35.59	

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

III. Regional Entities :

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	1406	1490	1348	31.55	1315	31.06
	Rihand I STPS	1000	935	1029	783	20.21	842	20.02	0.19
	Rihand II STPS	1000	985	1050	838	21.10	879	21.13	-0.03
	Rihand III STPS	1000	-4	0	0	0.18	8	-0.07	0.25
	Dadri I STPS	840	815	846	608	16.83	701	17.19	-0.36
	Dadri II STPS	980	985	914	676	20.18	841	20.75	-0.57
	Unchahar I TPS	420	408	356	333	8.13	339	8.16	-0.03
	Unchahar II TPS	420	405	398	309	7.71	321	7.72	-0.01
	Unchahar III TPS	210	202	191	154	3.82	159	3.81	0.01
	ISTPP (Jhajjar)	1500	1500	633	629	14.46	603	14.86	-0.40
	Dadri GPS	830	850	411	418	9.49	396	9.76	-0.27
	Anta GPS	419	438	255	263	6.23	259	6.24	-0.02
	Auraiya GPS	663	680	165	165	3.81	159	3.90	-0.09
	Sub Total (A)	11282	9605	7738	6524	163.71	6821	164.54	-0.83
B. NPC	NAPS	440	313	340	353	7.42	309	7.51	-0.09
	RAPS- B	440	421	462	463	10.04	418	10.10	-0.07
	RAPS- C	440	430	473	476	10.20	425	10.32	-0.12
	Sub Total (B)	1320	1164	1275	1292	27.66	1152	27.94	-0.28
C. NHPC	Chamera I HPS	540	541	360	0	1.66	69	1.62	0.04
	Chamera II HPS	300	300	200	0	0.93	39	1.21	-0.28
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	62	62	10	0.58	24	0.55	0.03
	Salal-HPS	690	110	180	70	2.54	106	2.64	-0.10
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	96	218	12	2.47	103	2.32	0.15
	Uri-II HPS	180	54	121	38	1.52	63	1.42	0.10
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	270	0	2.47	103	2.49	-0.02
	Sewa-II HPS	120	119	121	0	0.44	18	0.45	-0.01
	Sub Total (C)	3485	1540	1532	130	12.61	525	12.69	-0.08
D. NJPC	Nathpa Jhakri	1500	1350	1361	0	6.87	286	7.39	-0.52
	Sub Total (D)	1500	1350	1361	0	6.87	286	7.39	-0.52
E. THDC	Tehri HPS	1000	1000	991	0	6.87	286	6.90	-0.03
	Koteshwar HPS	400	106	202	90	2.46	103	2.50	-0.04
	Sub Total (E)	1400	1106	1193	90	9.33	389	9.40	-0.07
F. BBMB	Bhakra HPS	1497	616	1005	389	15.11	630	14.77	0.34
	Dehar HPS	990	98	330	0	2.38	99	2.35	0.03
	Pong HPS	396	217	372	60	5.24	218	5.21	0.03
	Sub Total (F)	2883	930	1707	449	22.73	947	22.33	0.40
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.35	15	0.34	0.01
	KWHEP HPS(IPP)	1000	0	360	0	3.77	157	3.72	0.05
	Malana Stg-II HPS	100	0	0	0	0.12	5	0.11	0.01
	Shree Cement TPS	300	0	281	264	6.77	282	6.81	-0.04
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	641	264	11.01	459	10.98	0.03
H. Total Regional Entities (A-G)		23532	15695	15447	8749	253.91	10580	255.26	-1.35

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	600	17.26	719
	Guru Nanak Dev TPS(Bhatinda)	440	332	250	6.12	255
	Guru Hargobind Singh TPS(L.mbt)	920	964	771	18.72	780
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	2346	1621	42.10	1754
	Total Punjab	5128	2636	1991	51.39	2141
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 Haryana	5006	3207	1638	57.18	2383
Rajasthan	kota TPS	1240	1089	1140	26.38	1099
	suratgarh TPS	1500	823	1023	21.80	908
	Chabra TPS	750	437	452	10.08	420
	Dholpur GPS	330	106	103	2.45	102
	Ramgarh GPS	221	40	121	1.63	68
	RAPS A (NPC)	300	175	175	4.10	171
	Barsingsar (NLC)	250	211	212	4.99	208
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	426	478	9.83	409
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	601	1086	17.11	713
	Thermal (Total)	7976	3908	4790	98.35	4098
	Total Hydro	550	264	99	4.04	168
	Wind power	2191	245	335	7.55	315
	Biomass	91	31	31	0.74	31
	Solar	201	6	0	0.58	24
	Renewable/Others (Total)	2483	276	366	8.87	370
Total Rajasthan	11009	4448	5255	111.26	4636	
UP	Anpara TPS	1630	1103	1405	31.10	1296
	Obra TPS	1288	503	478	12.00	500
	Paricha TPS	1140	599	798	13.60	567
	Panki TPS	210	59	68	1.40	58
	Harduaganj TPS	665	381	441	9.90	413
	Tanda TPS (NTPC)	440	338	403	9.51	396
	Roza TPS (IPP)	1200	581	657	15.33	639
	Anpara-C (IPP)	1200	364	518	9.88	412
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	196	0	3.12	130
	Thermal (Total)	8223	4124	4768	105.84	4410
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	159	111	3.16	132
	Cogeneration	981	650	650	15.60	650
	Total UP	10131	4933	5529	124.59	5191
Uttarakhand	Total Hydro	1303	456	135	7.38	308
	Total Uttarakhand	1303	456	135	7.38	308
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	163	162	3.79	158
	Pragati Gas Turbine	330	323	160	5.46	227
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	570	580	13.11	546
	Thermal (Total)	2232	1056	902	22.36	932
Total Delhi	2232	1056	902	22.36	932	
HP	Baspa HPS (IPP)	330	0	0	1.08	45
	Malana HPS (IPP)	86	0	0	0.20	8
	Other Hydro	589	159	66	3.02	126
	Total HP	1005	159	66	4.30	179
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	17147	15761	384.26	16011
J. Net Inter Regional Exchange [[import (+ve)]/Export (-ve)]			3334	2619	99.52	4147
Total Regional Availability(Gross)		60303	35928	27129	737.68	30737

IV. Total Hydro Generation:

Regional Entities Hydro	10560	6153	669	55.77	2324
State Control Area Hydro	5368	1599	1042	34.38	1433
Total Regional Hydro	15928	7752	1711	90.16	3757

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	300	-350	500	500	4.86	1.71	3.16
Gwalior-Agra (D/C)	762	914	1728	0	30.78	0.00	30.78
Zerda-Kankroli	-175	-325	0	375	0.00	5.05	-5.05
Zerda-Bhinmal	-71	-210	115	298	0.00	1.97	-1.97
Malanpur-Auraiya	-87	-71	0	100	0.00	1.80	-1.80
Badod-Kota/Morak	-65	-194	0	208	0.00	2.54	-2.54
Mundra-Mohindergarh(HVDC)	1911	1635	1918	0	42.36	0.00	42.36
Sub Total WR	2575	1399			78.00	13.07	64.93
Pusaali Bypass	400	400	400	0	9.67	0.00	9.67
MZP- GKP (D/C)	17	250	411	0	5.84	0.00	5.84
Patna-Balia(D/C)	229	352	636	0	9.47	0.00	9.47
B'Sharif-Balia (D/C)	102	187	251	0	5.00	0.00	5.00
Pusaali-Balia	-92	-64	0	102	0.00	1.71	-1.71
Gaya-Fatehpur (765 Kv)	-44	-21	135	59	0.56	0.00	0.56
Pusaali-Sahupuri	144	114	180	0	3.99	0.00	3.99
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)	35	32	640	0	2.35	0.00	2.35
Sub Total ER	759	1220			36.87	2.28	34.58
Total IR Exch	3334	2619			114.87	15.35	99.52

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
28.70	0.33	29.03	21.46	3.28	4.78	0.24	0.07	-0.07

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
55.33	48.61	103.95	34.58	64.93	99.52	-20.75	16.32	-4.43

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	0.50	90.30	2.50	89.80	61.40	9.70

<----- 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				
50.38	10.02	49.66	6.23	50.03	0.16	0.12	50.35	49.82

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	413	01:53	406	11:46	0.0	0.0	0.0	0.0
Gorakhpur	400	427	04:21	414	21:10	0.0	0.0	36.7	0.0
Barilly	400	428	00:00	410	15:55	0.0	0.0	39.4	0.0
Kanpur	400	422	03:11	407	06:20	0.0	0.0	8.6	0.0
Dadri	400	428	23:58	411	16:41	0.0	0.0	34.6	0.0
Ballabgarh	400	435	23:47	415	06:07	0.0	0.0	76.9	6.4
Bawana	400	434	23:58	414	06:07	0.0	0.0	66.6	3.4
Bassi	400	433	23:48	408	06:13	0.0	0.0	52.3	2.2
Hissar	400	419	03:15	401	16:43	0.0	0.0	0.0	0.0
Moga	400	418	23:26	392	09:53	0.0	0.0	0.0	0.0
Abdullapur	400	429	21:55	412	06:05	0.0	0.0	65.4	0.0
Nalagarh	400	427	23:24	408	06:06	0.0	0.0	27.2	0.0
Kishenpur	400	417	10:23	390	16:42	0.0	0.0	0.0	0.0
Wagoora	400	410	10:23	369	18:22	43.9	96.2	0.0	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	772	10:04	738	06:22	0.0	2.2	0.0	0.0
Balia	765	774	03:17	737	15:06	0.0	15.3	0.0	0.0
Moga	765	802	23:58	741	09:53	0.0	0.1	0.2	0.0
Agra	765	820	23:57	776	06:20	0.0	0.0	47.0	0.0
Bhiwani	765	816	23:30	772	14:07	0.0	0.0	1.8	0.0
Unnao	765	778	00:00	746	14:30	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	497.99	1018.16	490.84	758.57	168.43	478.81
Pong	426.72	384.05	409.54	484.26	408.41	444.61	56.29	340.54
Tehri	829.79	740.04	804.90	702.00	818.65	982.26	65.30	158.00
Koteshwar	612.50	598.50	610.09	4.69	609.75	4.44	158.00	169.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	44.43	45.31
Rihand	268.22	252.98	260.33	323.20	260.73	323.20	NA	NA
RPS	352.80	343.81	348.92	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.58	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.71	14.40	512.18	14.40	56.97	113.83

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 21.01.2014 :

1. Renney weather in 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 .