

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.01.2014
Date of Reporting : 19.01.2014

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
35809	2367	38175	50.06	23031	0	23031	50.66	716.1	20.89

* 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	42.20	9.22		51.42	31.94	33.42	1.48	84.84	0.15
Haryana	57.57	0.40		57.97	42.48	43.25	0.76	101.22	0.28
Rajasthan	110.98	3.71	5.75	120.44	74.49	71.88	-2.62	192.32	1.40
Delhi	20.19			20.19	45.01	44.24	-0.77	64.43	0.00
UP	89.53	1.93	15.60	107.06	78.20	68.49	-9.70	175.55	17.36
Uttarakhand		8.05		8.05	21.79	19.85	-1.94	27.90	0.00
HP		4.37		4.37	20.18	20.24	0.07	24.61	0.00
J & K		5.96	0.00	5.96	32.70	35.55	2.85	41.51	1.70
Chandigarh				0.00	3.15	3.73	0.58	3.73	0.00
Total	320.47	33.63	21.35	375.45	349.94	340.66	-9.28	716.11	20.89

* 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	4634	0	39	-344	2610	0	-55	-24	-7.65	
Haryana	5536	87	138	-440	3076	0	-368	-336	-12.89	
Rajasthan	8620	0	-81	534	6891	0	-105	147	27.18	
Delhi	3330	0	-49	-643	1357	0	-36	-1270	-21.95	
UP	9381	2180	167	1136	5849	0	-853	582	14.98	
Uttarakhand	1202	0	-255	662	824	0	-88	591	14.48	
HP	1208	0	-21	395	716	0	3	431	9.60	
J&K	1691	100	37	657	1620	0	84	634	13.07	
Chandigarh	207	0	20	0	88	0	1	0	-0.04	
Total	35809	2367	-6	1957	23031	0	-1416	754	36.78	

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

III. Regional Entities :

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

Entity	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
	Rihand I STPS	1000	935	1021	549	19.35	806	19.23	0.12
	Rihand II STPS	1000	851	521	612	16.97	707	16.98	-0.01
	Rihand III STPS	1000	-5	0	0	0.00	0	-0.08	0.08
	Dadri I STPS	840	815	872	606	17.68	737	17.66	0.02
	Dadri II STPS	980	985	1015	724	21.17	882	21.45	-0.28
	Unchahar I TPS	420	408	440	299	7.76	323	7.53	0.23
	Unchahar II TPS	420	405	219	160	4.62	193	4.84	-0.22
	Unchahar III TPS	210	202	219	155	3.95	165	3.99	-0.04
	ISTPP (Jhajjar)	1500	1500	520	368	10.26	427	10.62	-0.36
	Dadri GPS	830	850	411	297	6.57	274	6.91	-0.34
	Anta GPS	419	431	286	201	5.99	250	6.08	-0.08
	Auraiya GPS	663	677	253	283	4.31	179	4.46	-0.15
	Sub Total (A)	11282	10000	7861.52	6336.1	160.70	6696	161.61	-0.92
B. NPC	NAPS	440	318	353	351	7.45	311	7.63	-0.18
	RAPS- B	440	420	462	466	10.11	421	10.08	0.03
	RAPS- C	440	430	472	463	10.19	424	10.32	-0.13
	Sub Total (B)	1320	1168	1287	1280	27.75	1156	28.03	-0.28
C. NHPC	Chamera I HPS	540	541	360	0	1.65	69	1.61	0.04
	Chamera II HPS	300	200	200	0	1.20	50	1.18	0.02
	Chamera III HPS	231	231	220	0	0.60	25	0.59	0.00
	Bairasuil HPS	180	62	10	10	0.45	19	0.60	-0.15
	Salal-HPS	690	109	150	130	2.49	104	2.55	-0.05
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	96	221	16	2.36	99	2.56	-0.20
	Uri-II HPS	180	66	52	36	1.47	61	1.57	-0.10
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	270	0	2.59	108	2.68	-0.09
	Sewa-II HPS	120	119	124	0	0.45	19	0.41	0.04
	Sub Total (C)	3485	1682	1607	192	13.26	552	13.74	-0.49
D. NJPC	Nathpa Jhakri	1500	1605	1078	0	7.20	300	7.24	-0.04
	Sub Total (D)	1500	1605	1078	0	7.20	300	7.24	-0.04
E. THDC	Tehri HPS	1000	1000	988	0	9.29	387	9.30	-0.01
	Koteshwar HPS	400	135	381	63	3.23	135	3.30	-0.07
	Sub Total (E)	1400	1135	1369	63	12.52	522	12.60	-0.08
F. BBMB	Bhakra HPS	1497	684	1162	341	16.35	681	16.43	-0.08
	Dehar HPS	990	112	330	0	2.69	112	2.70	0.00
	Pong HPS	396	228	312	0	5.64	235	5.46	0.18
	Sub Total (F)	2883	1024	1804	341	24.68	1028	24.59	0.09
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.36	15	0.35	0.01
	KWHEP HPS(IPP)	1000	0	360	0	3.75	156	3.72	0.03
	Malana Stg-II HPS	100	0	0	0	0.12	5	0.11	0.01
	Shree Cement TPS	300	0	280	264	6.69	279	6.71	-0.01
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	640	264	10.92	455	10.88	0.04
H. Total Regional Entities (A-G)		23532	16615	15646	8476	257.02	10709	258.69	-1.67

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	810	780	17.24	718
	Guru Nanak Dev TPS(Bhatinda)	440	342	250	6.32	263
	Guru Hargobind Singh TPS(L.mbt)	920	972	653	18.64	777
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	2124	1683	42.20	1758
	Total Punjab	5128	2580	1966	51.42	2142
Haryana	Panipat TPS	1367	232	428	6.05	252
	DCRTPP (Yamuna nagar)	600	566	500	12.17	507
	Faridabad GPS (NTPC)	432	210	164	4.76	198
	RGTPP (khedar) (IPP)	1200	594	445	11.67	486
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1224	744	22.93	955
	Thermal (Total)	4944	2826	2281	57.57	2399
	Total Haryana	5006	2844	2299	57.97	2416
Rajasthan	kota TPS	1240	1162	1069	26.83	1118
	suratgarh TPS	1500	1039	993	24.54	1022
	Chabra TPS	750	455	388	10.52	438
	Dholpur GPS	330	106	107	2.52	105
	Ramgarh GPS	221	129	122	2.97	124
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingsar (NLC)	250	104	105	2.31	96
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	476	378	10.05	419
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1182	1145	27.12	1130
	Thermal (Total)	7976	4828	4482	110.98	4624
	Total Hydro	550	67	146	3.71	155
	Wind power	2191	302	243	5.22	218
	Biomass	91	17	17	0.42	17
	Solar	201	4	0	0.12	5
	Renewable/Others (Total)	2483	319	260	5.75	240
Total Rajasthan	11009	5214	4888	120.44	5019	
UP	Anpara TPS	1630	1513	1184	29.10	1213
	Obra TPS	1288	535	550	11.10	463
	Paricha TPS	1140	763	789	15.00	625
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	486	365	8.70	363
	Tanda TPS (NTPC)	440	389	330	7.76	323
	Roza TPS (IPP)	1200	203	189	5.60	233
	Anpara-C (IPP)	1200	543	632	12.11	505
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.15	6
	Thermal (Total)	8223	4432	4039	89.53	3730
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	145	37	1.93	80
	Cogeneration	981	650	650	15.60	650
	Total UP	10131	5227	4726	107.06	4461
Uttarakhand	Total Hydro	1303	501	172	8.05	335
	Total Uttarakhand	1303	501	172	8.05	335
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	162	160	3.84	160
	Pragati Gas Turbine	330	157	143	3.71	155
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	610	505	12.64	527
	Thermal (Total)	2232	929	808	20.19	841
Total Delhi	2232	929	808	20.19	841	
HP	Baspa HPS (IPP)	330	0	0	0.95	40
	Malana HPS (IPP)	86	0	0	0.21	9
	Other Hydro	589	148	64	3.21	134
	Total HP	1005	148	64	4.37	182
J & K	Baglihar HPS (IPP)	450	148	120	3.39	141
	Other Hydro	323	104	127	2.57	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	252	247	5.96	248
Total State Control Area Generation		36770	17695	15170	375.45	15644
J. Net Inter Regional Exchange [[import (+ve)]/Export (-ve)]			5829	244	94.66	3944
Total Regional Availability(Gross)		60303	39170	23890	727.13	30297

IV. Total Hydro Generation:

Regional Entities Hydro	10560	6218	596	61.88	2579
State Control Area Hydro	5368	1587	967	33.63	1401
Total Regional Hydro	15928	7805	1563	95.51	3980

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	500	-400	500	500	3.21	5.48	-2.28
Gwalior-Agra (D/C)	1669	231	1968	0	30.68	0.00	30.68
Zerda-Kankroli	7	-334	95	334	0.00	1.96	-1.96
Zerda-Bhinmal	124	-213	235	249	0.90	0.00	0.90
Malanpur-Auraiya	-117	-139	0	159	0.00	2.24	-2.24
Badod-Kota/Morak	-1	-195	0	195	0.00	2.06	-2.06
Mundra-Mohindergarh(HVDC)	2002	1199	2005	0	40.97	0.00	40.97
Sub Total WR	4184	149			75.75	11.74	64.02
Pusauli Bypass	400	400	400	0	8.97	0.00	8.97
MZP- GKP (D/C)	313	-87	584	87	5.65	0.00	5.65
Patna-Balia(D/C)	431	74	586	0	8.12	0.00	8.12
B'Sharif-Balia (D/C)	243	57	387	0	4.25	0.00	4.25
Pusauli-Balia	-84	-102	0	110	0.00	1.77	-1.77
Gaya-Fatehpur (765 Kv)	70	-193	287	203	0.98	0.00	0.98
Pusauli-Sahupuri	136	160	179	0	2.78	0.00	2.78
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)	168	-184	467	210	2.23	0.00	2.23
Sub Total ER	1645	95			32.99	2.35	30.64
Total IR Exch	5829	244			108.74	14.08	94.66

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
30.00	0.30	30.30	23.79	3.19	3.34	0.99	-1.10	1.10

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
56.33	57.08	113.40	30.64	64.02	94.66	-25.68	6.94	-18.74

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	0.20	73.10	2.10	72.90	56.10	26.90

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.67	3.02	49.63	22.06	50.08	0.46	0.20	50.67	49.89

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	02:46	402	13:56	0.0	0.0	0.0	0.0
Gorakhpur	400	429	05:03	410	14:47	0.0	0.0	48.9	0.0
Barailly	400	435	01:35	374	03:55	0.2	0.2	61.3	11.2
Kanpur	400	427	01:40	399	14:16	0.0	0.0	25.0	0.0
Dadri	400	432	01:42	408	10:50	0.0	0.0	55.2	3.3
Ballabgarh	400	436	01:52	407	11:21	0.0	0.0	44.0	18.6
Bawana	400	435	01:52	407	11:18	0.0	0.0	30.5	22.2
Bassi	400	427	03:55	387	11:22	0.0	0.9	14.2	0.0
Hissar	400	419	01:47	392	11:22	0.0	0.0	0.0	0.0
Moga	400	415	23:07	393	09:06	0.0	0.0	0.0	0.0
Abdullapur	400	429	23:03	405	11:21	0.0	0.0	17.1	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	418	09:50	388	11:39	0.0	1.3	0.0	0.0
Wagoora	400	411	09:50	361	18:43	50.1	89.8	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	776	05:01	730	07:14	0.0	7.0	0.0	0.0
Balia	765	774	00:24	727	14:21	0.0	19.9	0.0	0.0
Moga	765	797	09:50	742	09:12	0.0	0.0	0.0	0.0
Agra	765	823	01:53	764	11:25	0.0	0.0	27.7	0.6
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Unnao	765	779	03:39	729	14:15	0.0	13.7	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	499.09	1053.16	491.85	798.09	178.26	525.14
Pong	426.72	384.05	410.33	504.32	409.17	464.36	56.07	352.97
Tehri	829.79	740.04	806.80	740.00	818.65	982.26	44.51	219.00
Koteshwar	612.50	598.50	610.22	4.95	609.40	4.21	219.00	221.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	260.42	328.10	261.00	360.60	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	510.34	14.40	512.95	14.40	50.74	115.53

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 18.01.2014 :

1. Normal weather.

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 .