

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.01.2014
Date of Reporting : 20.01.2014

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
34775	1841	36616	50.07	27374	15	27389	50.18	752.9	28.14

* 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	38.20	9.49		47.69	32.45	33.26	0.81	80.94	0.00
Haryana	57.02	0.43		57.45	48.09	47.13	-0.96	104.58	0.02
Rajasthan	109.41	2.35	15.05	126.81	73.45	66.11	-7.34	192.92	0.03
Delhi	19.94			19.94	43.02	42.96	-0.06	62.90	0.16
UP	108.45	3.29	15.60	127.34	90.18	85.95	-4.23	213.29	26.00
Uttarakhand		8.12		8.12	21.63	21.45	-0.18	29.57	0.23
HP		4.32		4.32	19.14	19.42	0.28	23.74	0.00
J & K		7.73	0.00	7.73	32.82	33.82	1.00	41.55	1.70
Chandigarh				0.00	2.98	3.41	0.43	3.41	0.00
Total	333.02	35.72	30.65	399.39	363.75	353.50	-10.25	752.89	28.14

* 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	4154	50	93	-194	2873	0	64	-5	-6.80	
Haryana	5303	0	-169	-463	3727	0	-85	-369	-13.43	
Rajasthan	8197	0	-649	627	6992	0	-170	262	29.95	
Delhi	3244	1	-60	-651	1480	0	10	-1366	-22.43	
UP	9226	1680	-650	1121	8654	15	-57	596	14.57	
Uttarakhand	1529	10	-73	505	1039	0	34	488	11.59	
HP	1099	0	-111	297	804	0	70	412	8.77	
J&K	1846	100	56	657	1712	0	-6	634	13.08	
Chandigarh	177	0	0	0	94	0	19	-20	-0.13	
Total	34775	1841	-1563	1899	27374	15	-121	631	35.17	

* 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)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1947	2094	2086	46.47	1936	46.72	-0.25
	Rihand I STPS	1000	935	1005	899	21.39	891	21.55	-0.16
	Rihand II STPS	1000	985	1010	926	22.20	925	22.68	-0.48
	Rihand III STPS	1000	-5	0	0	0.00	0	-0.09	0.09
	Dadri I STPS	840	815	817	635	18.58	774	17.45	1.13
	Dadri II STPS	980	985	922	715	20.42	851	21.50	-1.09
	Unchahar I TPS	420	408	422	339	8.60	359	8.72	-0.12
	Unchahar II TPS	420	405	217	216	4.66	194	4.80	-0.14
	Unchahar III TPS	210	202	218	166	4.12	172	4.22	-0.09
	ISTPP (Jhajjar)	1500	1500	445	341	9.20	384	9.55	-0.35
	Dadri GPS	830	850	411	422	9.63	401	9.99	-0.37
	Anta GPS	419	430	264	260	6.40	267	6.49	-0.09
	Auraiya GPS	663	678	165	166	3.82	159	4.07	-0.26
	Sub Total (A)	11282	10135	7990	7171	175.49	7312	177.66	-2.17
	B. NPC	NAPS	440	315	349	350	7.52	313	7.56
RAPS- B		440	421	463	464	10.14	422	10.10	0.04
RAPS- C		440	430	475	476	10.29	429	10.32	-0.03
Sub Total (B)		1320	1166	1287	1290	27.94	1164	27.98	-0.04
C. NHPC	Chamera I HPS	540	541	360	0	1.66	69	1.65	0.01
	Chamera II HPS	300	200	199	0	1.14	48	1.13	0.01
	Chamera III HPS	231	231	219	0	0.69	29	0.69	0.00
	Bairasuil HPS	180	62	0	0	0.33	14	0.40	-0.07
	Salal-HPS	690	111	189	120	2.54	106	2.66	-0.12
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	95	221	16	2.36	99	2.52	-0.15
	Uri-II HPS	180	61	101	36	1.36	57	1.43	-0.08
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	269	0	2.55	106	2.66	-0.10
	Sewa-II HPS	120	119	113	0	0.37	15	0.43	-0.06
	Sub Total (C)	3485	1678	1671	172	13.00	542	13.57	-0.56
D. NJPC	Nathpa Jhakri	1500	1478	1056	0	7.15	298	7.19	-0.04
	Sub Total (D)	1500	1478	1056	0	7.15	298	7.19	-0.04
E. THDC	Tehri HPS	1000	1000	956	0	6.63	276	6.60	0.03
	Koteshwar HPS	400	104	200	0	2.55	106	2.50	0.05
	Sub Total (E)	1400	1104	1156	0	9.18	383	9.10	0.08
F. BBMB	Bhakra HPS	1497	653	1157	386	15.68	653	15.68	0.00
	Dehar HPS	990	112	330	0	2.55	106	2.70	-0.15
	Pong HPS	396	214	372	60	5.35	223	5.14	0.21
	Sub Total (F)	2883	980	1859	446	23.58	983	23.51	0.07
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	3.72	155	3.72	0.00
	Malana Stg-II HPS	100	0	0	0	0.12	5	0.11	0.01
	Shree Cement TPS	300	0	265	247	6.32	263	6.43	-0.11
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	625	247	10.53	439	10.61	-0.08
H. Total Regional Entities (A-G)	23532	16539	15644	9326	266.87	11120	269.62	-2.75	

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	660	670	15.11	630
	Guru Nanak Dev TPS(Bhatinda)	440	250	250	5.44	227
	Guru Hargobind Singh TPS(L.mbt)	920	774	774	17.65	735
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	1684	1694	38.20	1592
	Total Hydro	1148	420	437	9.49	395
Total Punjab	5128	2104	2131	47.69	1987	
Haryana	Panipat TPS	1367	221	213	5.24	218
	DCRTPP (Yamuna nagar)	600	505	505	12.23	510
	Faridabad GPS (NTPC)	432	204	159	4.71	196
	RGTPP (khedar) (IPP)	1200	533	500	11.44	477
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1091	744	23.40	975
	Thermal (Total)	4944	2554	2121	57.02	2376
	Total Hydro	62	17	17	0.43	18
	Total Haryana	5006	2571	2138	57.45	2394
	Rajasthan	kota TPS	1240	1100	1092	26.79
suratgarh TPS		1500	1028	1023	24.51	1021
Chabra TPS		750	393	379	9.91	413
Dholpur GPS		330	106	106	2.35	98
Ramgarh GPS		221	129	118	3.28	137
RAPS A (NPC)		300	175	175	4.16	173
Barsingsar (NLC)		250	173	105	3.01	125
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	384	316	9.58	399
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1010	1156	25.82	1076
Thermal (Total)		7976	4498	4470	109.41	4559
Total Hydro		550	59	88	2.35	98
Wind power		2191	1010	554	14.08	587
Biomass		91	687	32	0.77	32
Solar		201	32	0	0.20	8
Renewable/Others (Total)		2483	1697	586	15.05	627
Total Rajasthan		11009	6254	5144	126.81	5284
UP		Anpara TPS	1630	1421	1411	34.10
	Obra TPS	1288	464	485	11.80	492
	Paricha TPS	1140	885	753	19.20	800
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	386	455	10.60	442
	Tanda TPS (NTPC)	440	401	397	9.53	397
	Roza TPS (IPP)	1200	194	257	4.92	205
	Anpara-C (IPP)	1200	778	537	18.31	763
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0
	Thermal (Total)	8223	4529	4295	108.45	4519
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	149	125	3.29	137
	Cogeneration	981	650	650	15.60	650
	Total UP	10131	5328	5070	127.34	5306
	Uttarakhand	Total Hydro	1303	491	152	8.12
Total Uttarakhand		1303	491	152	8.12	338
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	164	161	3.84	160
	Pragati Gas Turbine	330	155	149	3.71	155
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	615	500	12.39	516
	Thermal (Total)	2232	934	810	19.94	831
Total Delhi	2232	934	810	19.94	831	
HP	Baspa HPS (IPP)	330	0	0	1.07	45
	Malana HPS (IPP)	86	0	0	0.20	8
	Other Hydro	589	155	79	3.05	127
	Total HP	1005	155	79	4.32	180
J & K	Baglihar HPS (IPP)	450	147	234	5.16	215
	Other Hydro	323	104	127	2.57	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	251	361	7.73	322
Total State Control Area Generation		36770	18088	15885	399.39	16641
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4206	3467	111.46	4644
Total Regional Availability(Gross)		60303	37938	28678	777.72	32405

IV. Total Hydro Generation:

Regional Entities Hydro	10560	6102	618	57.12	2380
State Control Area Hydro	5368	1542	1259	35.72	1488
Total Regional Hydro	15928	7644	1877	92.84	3869

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	-100	-300	500	300	1.98	4.23	-2.25
Gwalior-Agra (D/C)	1310	1480	1826	0	33.96	0.00	33.96
Zerda-Kankroli	-84	-238	95	289	0.00	2.41	-2.41
Zerda-Bhinmal	-4	-142	233	213	0.00	0.09	-0.09
Malanpur-Auraiya	-83	-139	0	144	0.00	1.48	-1.48
Badod-Kota/Morak	-11	-106	0	128	0.00	1.28	-1.28
Mundra-Mohindergarh(HVDC)	2002	1499	2005	0	44.62	0.00	44.62
Sub Total WR	3030	2054			80.56	9.49	71.07
Pusauli Bypass	400	400	400	0	9.76	0.00	9.76
MZP- GKP (D/C)	175	313	519	87	8.56	0.00	8.56
Patna-Balia(D/C)	300	374	552	0	9.88	0.00	9.88
B'Sharif-Balia (D/C)	147	199	390	0	5.87	0.00	5.87
Pusauli-Balia	-127	-88	0	130	0.00	1.79	-1.79
Gaya-Fatehpur (765 Kv)	49	41	189	32	1.68	0.00	1.68
Pusauli-Sahupuri	123	103	164	0	3.10	0.00	3.10
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)	141	101	324	0	3.90	0.00	3.90
Sub Total ER	1176	1413			42.75	2.37	40.38
Total IR Exch	4206	3467			123.31	11.86	111.46

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
30.81	0.31	31.11	23.79	3.73	3.21	-0.89	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
58.18	58.62	116.80	40.38	71.07	111.46	-17.80	12.45	-5.35

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	86.60	0.10	86.60	73.30	13.40

<----- 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				
50.43	23.47	49.77	8.10	50.08	0.18	0.11	50.43	49.77

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	409	01:59	401	06:53	0.0	0.0	0.0	0.0
Gorakhpur	400	428	15:20	414	09:33	0.0	0.0	56.3	0.0
Barailly	400	428	00:01	410	10:10	0.0	0.0	43.6	0.0
Kanpur	400	420	03:32	401	09:57	0.0	0.0	0.0	0.0
Dadri	400	423	15:14	409	10:09	0.0	0.0	4.8	0.0
Ballabgarh	400	431	03:27	410	10:10	0.0	0.0	56.0	1.2
Bawana	400	426	15:05	414	13:47	0.0	0.0	54.1	0.0
Bassi	400	424	03:32	393	10:20	0.0	0.0	12.8	0.0
Hissar	400	419	03:20	394	11:43	0.0	0.0	0.0	0.0
Moga	400	417	03:28	389	10:11	0.0	1.0	0.0	0.0
Abdullapur	400	429	15:09	375	11:19	1.4	1.4	40.7	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	413	02:03	391	10:17	0.0	0.0	0.0	0.0
Wagoora	400	398	13:39	373	10:18	14.2	89.3	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	15:03	732	09:58	0.0	4.4	0.0	0.0
Balia	765	776	05:07	747	09:55	0.0	0.0	0.0	0.0
Moga	765	795	03:33	737	10:10	0.0	7.9	0.0	0.0
Agra	765	810	03:29	765	10:10	0.0	0.0	29.8	0.0
Bhiwani	765	789	15:11	789	15:11	0.0	0.0	0.0	0.0
Unnao	765	773	03:20	745	09:56	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 19.01.2014 :

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 .