

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.01.2014
Date of Reporting : 14.01.2014

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
36404	1780	38184	50.03	27944	10	27954	50.15	790.7	41.24

* 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	43.46	8.89		52.35	33.11	34.27	1.16	86.62	0.00
Haryana	64.99	0.43		65.41	46.28	46.23	-0.05	111.64	0.21
Rajasthan	114.01	4.24	6.38	124.63	74.46	70.41	-4.06	195.03	0.00
Delhi	21.07			21.07	46.24	44.38	-1.86	65.45	0.01
UP	117.94	3.31	15.60	136.85	89.54	89.27	-0.27	226.12	38.86
Uttarakhand		8.19		8.19	25.30	27.00	1.70	35.19	0.23
HP		4.83		4.83	19.89	19.95	0.06	24.78	0.24
J & K		6.32	0.00	6.32	32.57	35.76	3.19	42.08	1.70
Chandigarh				0.00	3.11	3.78	0.66	3.78	0.00
Total	361.47	36.21	21.98	419.65	370.51	371.04	0.53	790.70	41.24

* 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	4351	0	-6	-673	3023	0	29	-60	-8.20	
Haryana	5824	0	87	-423	3718	0	-44	-384	-14.24	
Rajasthan	8518	0	-292	622	6840	0	-402	254	32.90	
Delhi	3491	0	-120	-573	1436	0	-24	-1168	-20.79	
UP	9278	1630	-529	1121	9281	0	-79	596	14.60	
Uttarakhand	1729	40	-32	664	1158	0	66	579	15.09	
HP	1214	10	-34	346	697	10	-27	431	9.12	
J&K	1812	100	-4	691	1699	0	67	634	12.89	
Chandigarh	189	0	-4	0	93	0	14	-15	-0.12	
Total	36404	1780	-935	1775	27944	10	-400	867	41.25	

* 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	
										UI (OG: (+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1444	1571	1199	32.91	1371	32.56	0.35	
	Rihand I STPS	1000	881	996	645	19.82	826	19.37	0.46	
	Rihand II STPS	1000	933	1054	665	21.12	880	20.60	0.52	
	Rihand III STPS	1000	464	520	337	10.56	440	10.30	0.26	
	Dadri I STPS	840	815	837	617	17.03	710	17.21	-0.18	
	Dadri II STPS	980	985	916	711	20.82	868	21.10	-0.28	
	Unchahar I TPS	420	408	397	320	8.68	362	8.73	-0.05	
	Unchahar II TPS	420	405	409	316	8.35	348	8.33	0.02	
	Unchahar III TPS	210	202	216	154	4.20	175	4.18	0.02	
	ISTPP (Jhajjar)	1500	1500	657	625	14.40	600	14.40	0.00	
	Dadri GPS	830	846	159	155	3.96	165	4.06	-0.10	
	Anta GPS	419	431	202	249	6.11	255	6.21	-0.10	
	Auraiya GPS	663	673	152	154	3.63	151	3.73	-0.10	
	Sub Total (A)	11282	9987	8086	6147	171.58	7149	170.77	0.81	
	B. NPC	NAPS	440	324	361	361	7.81	325	7.78	0.03
		RAPS- B	440	419	462	464	10.09	421	10.06	0.04
RAPS- C		440	430	472	473	10.22	426	10.32	-0.10	
Sub Total (B)		1320	1173	1295	1298	28.12	1171	28.15	-0.04	
C. NHPC	Chamera I HPS	540	540	360	0	1.65	69	1.60	0.04	
	Chamera II HPS	300	200	120	0	0.87	36	0.98	-0.11	
	Chamera III HPS	231	231	143	0	0.59	25	0.56	0.03	
	Bairasuil HPS	180	0	0	0	0.00	0	0.00	0.00	
	Salal-HPS	690	110	202	100	2.56	106	2.64	-0.09	
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00	
	Uri-HPS	480	88	207	19	2.40	100	2.18	0.22	
	Uri-II HPS	180	64	121	40	1.51	63	1.50	0.01	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	258	276	0	2.30	96	2.12	0.18	
	Sewa-II HPS	120	119	112	41	0.51	21	0.52	-0.01	
	Sub Total (C)	3485	1609	1541	200	12.39	516	12.10	0.28	
	D. NJPC	Nathpa Jhakri	1500	1605	956	0	7.21	300	7.12	0.08
Sub Total (D)		1500	1605	956	0	7.21	300	7.12	0.08	
E. THDC	Tehri HPS	1000	1005	1003	0	9.23	385	9.20	0.03	
	Koteshwar HPS	400	138	391	87	3.33	139	3.30	0.03	
	Sub Total (E)	1400	1143	1394	87	12.56	523	12.50	0.06	
F. BBMB	Bhakra HPS	1497	739	1020	512	18.00	750	17.74	0.26	
	Dehar HPS	990	117	330	0	3.05	127	2.80	0.25	
	Pong HPS	396	218	372	60	5.41	225	5.22	0.19	
	Sub Total (F)	2883	1074	1722	572	26.46	1103	25.77	0.69	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.41	17	0.39	0.02	
	KWHEP HPS(IPP)	1000	0	360	0	0.13	5	3.72	-3.59	
	Malana Stg-II HPS	100	0	0	0	0.13	5	0.12	0.01	
	Shree Cement TPS	300	0	274	185	6.15	256	6.43	-0.28	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	634	185	6.81	284	10.67	-3.85	
H. Total Regional Entities (A-G)	23532	16590	15628	8489	265.13	11047	267.08	-1.96		

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	960	960	23.85	994
	Guru Nanak Dev TPS(Bhatinda)	440	282	250	6.40	266
	Guru Hargobind Singh TPS(L.mbt)	920	528	497	13.22	551
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	1770	1707	43.46	1811
	Total Punjab	5128	2092	2063	52.35	2181
Haryana	Panipat TPS	1367	619	596	13.60	567
	DCRTPP (Yamuna nagar)	600	557	503	12.07	503
	Faridabad GPS (NTPC)	432	175	166	4.12	172
	RGTPP (khedar) (IPP)	1200	568	504	12.08	503
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1207	744	23.11	963
	Thermal (Total)	4944	3126	2513	64.99	2708
	Total Haryana	5006	3143	2530	65.41	2726
Rajasthan	kota TPS	1240	1125	1100	26.91	1121
	suratgarh TPS	1500	1071	1021	25.25	1052
	Chabra TPS	750	392	390	9.44	394
	Dholpur GPS	330	108	108	2.55	106
	Ramgarh GPS	221	136	138	3.43	143
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingsar (NLC)	250	209	209	4.93	205
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	470	252	9.81	409
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1179	1061	27.58	1149
	Thermal (Total)	7976	4865	4454	114.01	4750
	Total Hydro	550	141	73	4.24	177
	Wind power	2191	201	330	5.49	229
	Biomass	91	19	19	0.44	19
	Solar	201	0	70	0.45	19
Renewable/Others (Total)	2483	220	349	6.38	266	
Total Rajasthan	11009	5226	4876	124.63	5193	
UP	Anpara TPS	1630	1306	1281	30.50	1271
	Obra TPS	1288	466	482	11.90	496
	Paricha TPS	1140	902	840	20.50	854
	Panki TPS	210	81	90	1.90	79
	Harduaganj TPS	665	221	229	4.50	188
	Tanda TPS (NTPC)	440	402	402	9.81	409
	Roza TPS (IPP)	1200	594	810	17.33	722
	Anpara-C (IPP)	1200	687	955	21.49	896
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0
	Thermal (Total)	8223	4659	5089	117.94	4914
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	128	117	3.31	138
	Cogeneration	981	650	650	15.60	650
	Total UP	10131	5437	5856	136.85	5702
	Uttarakhand	Total Hydro	1303	500	164	8.19
Total Uttarakhand		1303	500	164	8.19	341
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	161	164	3.53	147
	Pragati Gas Turbine	330	319	267	7.47	311
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	405	420	10.07	420
	Thermal (Total)	2232	885	851	21.07	878
Total Delhi	2232	885	851	21.07	878	
HP	Baspa HPS (IPP)	330	0	0	1.41	59
	Malana HPS (IPP)	86	0	0	0.20	8
	Other Hydro	589	146	75	3.23	134
	Total HP	1005	146	75	4.83	201
J & K	Baglihar HPS (IPP)	450	150	120	3.37	141
	Other Hydro	323	84	116	2.95	123
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	234	236	6.32	263
Total State Control Area Generation		36770	17663	16651	419.65	17486
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4685	3425	121.34	5056
Total Regional Availability(Gross)		60303	37976	28565	806.12	33588

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5973	859	59.28	2470
State Control Area Hydro	5368	1488	1038	36.21	1509
Total Regional Hydro	15928	7461	1897	95.49	3979

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	400	-200	500	200	6.93	0.85	6.08
Gwalior-Agra (D/C)	1146	868	1809	0	32.01	0.00	32.01
Zerda-Kankroli	-92	-84	126	290	0.00	1.55	-1.55
Zerda-Bhinmal	4	-171	273	200	1.27	0.00	1.27
Malanpur-Auraiya	-115	-95	0	129	0.00	2.47	-2.47
Badod-Kota/Morak	-47	-174	0	197	0.00	2.01	-2.01
Mundra-Mohindergarh(HVDC)	1915	1921	1922	0	45.96	0.00	45.96
Sub Total WR	3211	2065			86.18	6.87	79.31
Pusaui Bypass	400	200	400	0	7.12	0.00	7.12
MZP- GKP (D/C)	216	316	470	0	7.80	0.00	7.80
Patna-Balia(D/C)	375	427	781	0	12.36	0.00	12.36
B'Sharif-Balia (D/C)	200	220	446	0	6.84	0.00	6.84
Pusaui-Balia	-83	-47	0	93	0.00	1.11	-1.11
Gaya-Fatehpur (765 Kv)	96	21	229	38	2.21	0.00	2.21
Pusaui-Sahupuri	129	111	160	0	2.90	0.00	2.90
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-30	0	37	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	173	142	386	0	4.78	0.00	4.78
Sub Total ER	1474	1360			43.99	1.96	42.03
Total IR Exch	4685	3425			130.17	8.83	121.34

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
32.29	0.28	32.56	22.78	3.79	3.68	5.66	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
59.09	66.91	126.00	42.03	79.31	121.34	-17.06	12.40	-4.66

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	1.40	96.50	4.70	95.10	41.90	3.50

<----- 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)		
50.42	5.05	49.54	6.52	49.98	0.16	0.12	50.29	49.84

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	00:46	399	14:11	0.0	0.0	0.0	0.0
Gorakhpur	400	427	21:33	411	07:27	0.0	0.0	35.2	0.0
Barailly	400	424	05:05	399	11:19	0.0	0.0	9.8	0.0
Kanpur	400	420	00:20	396	10:26	0.0	0.0	0.0	0.0
Dadri	400	425	00:20	399	11:15	0.0	0.0	22.7	0.0
Ballabgarh	400	431	00:24	403	11:17	0.0	0.0	42.1	0.4
Bawana	400	428	23:55	401	11:14	0.0	0.0	33.9	0.0
Bassi	400	427	03:33	390	09:22	0.0	0.0	16.5	0.0
Hissar	400	415	23:55	390	10:13	0.0	0.0	0.0	0.0
Moga	400	414	00:20	388	10:13	0.0	0.7	0.0	0.0
Abdullapur	400	424	23:36	402	11:15	0.0	0.0	6.2	0.0
Nalagarh	400	428	23:13	403	10:13	0.0	0.0	32.8	0.0
Kishenpur	400	416	13:01	389	10:10	0.0	0.5	0.0	0.0
Wagoora	400	0	00:00	9999	00:00	0.0	0.0	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	23:59	731	10:11	0.0	11.2	0.0	0.0
Balia	765	779	05:04	741	11:16	0.0	0.2	0.0	0.0
Moga	765	790	23:55	742	10:11	0.0	0.0	0.0	0.0
Agra	765	810	23:58	757	09:42	0.0	0.0	25.1	0.0
Bhivani	765	789	15:02	758	11:16	0.0	0.0	0.0	0.0
Unnao	765	771	20:05	746	16:51	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	499.32	1064.89	492.08	798.09	165.65	535.33
Pong	426.72	384.05	410.42	504.32	409.31	474.29	54.85	345.41
Tehri	829.79	740.04	807.25	745.00	818.65	982.26	66.00	217.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	41.96	43.72
Rihand	268.22	252.98	260.45	329.80	261.06	364.10	NA	NA
RPS	352.80	343.81	348.89	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	510.41	14.40	513.05	14.40	50.74	89.88

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 13.01.2014 :

1.Shallow fog in Punjab,Haryana & dense fog Uttar pradesh.

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 : 13.01.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER