

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.01.2014
Date of Reporting : 26.01.2014

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
34496	2749	37245	50.11	26168	0	26168	50.27	734.8	35.68

* 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	36.54	6.98		43.52	32.68	33.64	0.96	77.16	0.00
Haryana	55.46	0.48		55.94	44.72	43.42	-1.30	99.36	1.61
Rajasthan	108.89	0.00	5.95	114.84	64.17	61.76	-2.41	176.60	0.00
Delhi	22.71			22.71	44.23	43.28	-0.95	66.00	0.00
UP	108.83	2.29	15.60	126.72	90.53	88.29	-2.24	215.01	32.09
Uttarakhand		7.62		7.62	23.57	25.52	1.95	33.14	0.23
HP		4.46		4.46	18.97	19.73	0.76	24.19	0.05
J & K		5.52	0.00	5.52	34.68	34.18	-0.50	39.70	1.70
Chandigarh				0.00	3.01	3.63	0.62	3.63	0.00
Total	332.44	27.35	21.55	381.34	356.56	353.45	-3.11	734.79	35.68

* 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	4316	0	91	-639	2555	0	163	8	-6.01	
Haryana	5433	284	160	-332	3280	0	22	-518	-12.32	
Rajasthan	7580	0	-283	800	6540	0	-42	468	21.35	
Delhi	3258	0	-115	-688	1490	0	-74	-1553	-22.81	
UP	9127	2325	17	1113	8643	0	-65	588	14.96	
Uttarakhand	1763	40	201	515	1171	0	33	596	13.28	
HP	1155	0	-6	396	752	0	55	412	8.96	
J&K	1672	100	-113	658	1645	0	33	684	14.88	
Chandigarh	194	0	6	0	93	0	13	-10	-0.06	
Total	34496	2749	-42	1823	26168	0	138	674	32.24	

* 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	1940	2081	1808	46.18	1924	45.81	0.37	
	Rihand I STPS	1000	945	1015	720	21.31	888	21.46	-0.15	
	Rihand II STPS	1000	985	1047	731	22.07	919	22.39	-0.33	
	Rihand III STPS	1000	-2	0	0	0.00	0	-0.03	0.03	
	Dadri I STPS	840	815	806	504	17.03	709	17.61	-0.58	
	Dadri II STPS	980	985	953	700	20.92	872	21.53	-0.61	
	Unchahar I TPS	420	406	429	350	9.41	392	8.66	0.75	
	Unchahar II TPS	420	405	422	308	8.79	366	8.18	0.61	
	Unchahar III TPS	210	202	215	150	4.42	184	4.08	0.33	
	ISTPP (Jhajjar)	1500	1414	1023	633	13.71	571	14.49	-0.78	
	Dadri GPS	830	851	203	141	4.27	178	4.61	-0.34	
	Anta GPS	419	431	234	217	5.61	234	5.77	-0.17	
	Auraiya GPS	663	678	160	144	3.63	151	3.77	-0.14	
	Sub Total (A)	11282	10055	8588	6406	177.33	7389	178.34	-1.00	
	B. NPC	NAPS	440	302	335	340	7.20	300	7.25	-0.05
		RAPS- B	440	421	464	463	10.13	422	10.10	0.02
RAPS- C		440	430	475	476	10.26	428	10.32	-0.06	
Sub Total (B)		1320	1153	1274	1279	27.59	1149	27.67	-0.08	
C. NHPC	Chamera I HPS	540	541	360	0	1.66	69	1.65	0.01	
	Chamera II HPS	300	200	200	0	1.26	53	1.34	-0.08	
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00	
	Bairasuil HPS	180	122	122	0	0.64	26	0.72	-0.09	
	Salal-HPS	690	109	185	30	2.62	109	2.67	-0.05	
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00	
	Uri-HPS	480	122	275	20	2.96	123	2.91	0.05	
	Uri-II HPS	180	78	114	38	1.92	80	1.87	0.06	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	258	276	0	2.27	95	2.44	-0.17	
	Sewa-II HPS	120	119	124	0	0.90	37	0.98	-0.08	
	Sub Total (C)	3485	1548	1656	88	14.22	592	14.57	-0.35	
	D. NJPC	Nathpa Jhakri	1500	1080	1090	0	7.08	295	7.63	-0.54
Sub Total (D)		1500	1080	1090	0	7.08	295	7.63	-0.54	
E. THDC	Tehri HPS	1000	980	982	0	7.19	300	7.20	-0.01	
	Koteshwar HPS	400	106	199	88	2.56	107	2.50	0.06	
	Sub Total (E)	1400	1086	1181	88	9.75	406	9.70	0.05	
F. BBMB	Bhakra HPS	1497	501	1005	387	12.16	507	12.01	0.15	
	Dehar HPS	990	111	330	0	2.97	124	2.66	0.31	
	Pong HPS	396	175	372	60	4.31	180	4.21	0.10	
	Sub Total (F)	2883	787	1707	447	19.44	810	18.88	0.56	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.39	16	0.37	0.02	
	KWHEP HPS(IPP)	1000	0	360	0	3.56	148	3.60	-0.05	
	Malana Stg-II HPS	100	0	0	0	0.13	5	0.12	0.01	
	Shree Cement TPS	300	0	265	161	5.40	225	5.55	-0.15	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	625	161	9.48	395	9.64	-0.16	
H. Total Regional Entities (A-G)	23532	15708	16121	8469	264.89	11037	266.42	-1.53		

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	940	640	16.85	702
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.78	74
	Guru Hargobind Singh TPS(L.mbt)	920	964	676	17.91	746
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0		0.00	0
	Talwandi Saboo	660	0		0.00	0
	Thermal (Total)	3980	1984	1396	36.54	1523
	Total Punjab	5128	2324	1681	43.52	1813
Haryana	Panipat TPS	1367	467	431	10.54	439
	DCRTPP (Yamuna nagar)	600	553	498	12.40	517
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	584	510	12.71	529
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	837	744	19.82	826
	Thermal (Total)	4944	2441	2183	55.46	2311
	Total Haryana	5006	2457	2202	55.94	2331
Rajasthan	kota TPS	1240	1090	1082	26.08	1087
	suratgarh TPS	1500	1006	1002	23.66	986
	Chabra TPS	750	399	384	10.01	417
	Dholpur GPS	330	103	104	2.47	103
	Ramgarh GPS	221	109	120	2.45	102
	RAPS A (NPC)	300	175	175	4.23	176
	Barsingsar (NLC)	250	212	216	5.11	213
	Giral LTPS	250	80	64	1.40	58
	Rajwest LTPS (IPP)	1080	478	322	9.67	403
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	617	1038	23.82	993
	Thermal (Total)	7976	4269	4507	108.89	4537
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	152	260	4.72	197
	Biomass	91	24	24	0.58	24
	Solar	201	6	0	0.65	27
	Renewable/Others (Total)	2483	176	284	5.95	248
Total Rajasthan	11009	4445	4791	114.84	4785	
UP	Anpara TPS	1630	1054	1066	22.30	929
	Obra TPS	1288	532	555	12.00	500
	Paricha TPS	1140	803	803	17.20	717
	Panki TPS	210	85	80	1.80	75
	Harduaganj TPS	665	505	501	10.80	450
	Tanda TPS (NTPC)	440	340	399	9.64	402
	Roza TPS (IPP)	1200	594	630	18.02	751
	Anpara-C (IPP)	1200	385	513	11.97	499
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	194	196	5.10	213
	Thermal (Total)	8223	4492	4743	108.83	4535
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	83	94	2.29	96
	Cogeneration	981	650	650	15.60	650
	Total UP	10131	5225	5487	126.72	5280
Uttarakhand	Total Hydro	1303	463	138	7.62	318
	Total Uttarakhand	1303	463	138	7.62	318
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	120	117	2.85	119
	Pragati Gas Turbine	330	329	270	7.35	306
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	539	455	12.52	522
	Thermal (Total)	2232	988	842	22.71	946
Total Delhi	2232	988	842	22.71	946	
HP	Baspa HPS (IPP)	330	0	0	0.98	41
	Malana HPS (IPP)	86	44	0	0.18	8
	Other Hydro	589	149	77	3.30	138
	Total HP	1005	193	77	4.46	186
J & K	Baglihar HPS (IPP)	450	150	120	2.93	122
	Other Hydro	323	92	128	2.59	108
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	242	248	5.52	230
Total State Control Area Generation		36770	16337	15466	381.34	15889
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4303	3424	109.62	4567
Total Regional Availability(Gross)		60303	36761	27359	755.85	31494

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5994	623	54.57	2274
State Control Area Hydro	5368	1337	861	27.35	1140
Total Regional Hydro	15928	7331	1484	81.92	3413

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	-350	500	350	4.85	1.38	3.47
Gwalior-Agra (D/C)	1433	1432	1944	0	36.32	0.00	36.32
Zerda-Kankroli	-136	-294	32	325	0.00	3.76	-3.76
Zerda-Bhinmal	-37	-177	179	235	0.00	0.73	-0.73
Malanpur-Auraiya	-65	-16	0	70	0.00	0.66	-0.66
Badod-Kota/Morak	-58	-131	54	142	0.00	1.38	-1.38
Mundra-Mohindergarh(HVDC)	1999	2001	2003	0	48.22	0.00	48.22
Sub Total WR	3386	2465			89.39	7.90	81.50
Pusauli Bypass	400	400	400	0	9.68	0.00	9.68
MZP- GKP (D/C)	-26	130	217	0	1.90	0.00	1.90
Patna-Balia(D/C)	502	352	661	0	9.69	0.00	9.69
B'Sharif-Balia (D/C)	227	157	475	0	5.82	0.00	5.82
Pusauli-Balia	-57	-68	3	100	0.00	1.17	-1.17
Gaya-Fatehpur (765 Kv)	-103	-76	115	138	0.00	0.53	-0.53
Pusauli-Sahupuri	131	144	176	0	3.37	0.00	3.37
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-26	0	35	0.00	0.61	-0.61
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-122	-54	151	175	0.00	0.04	-0.04
Sub Total ER	917	959			30.47	2.35	28.12
Total IR Exch	4303	3424			119.86	10.24	109.62

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
31.28	0.30	31.57	13.88	2.08	4.47	6.91	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
50.00	61.13	111.14	28.12	81.50	109.62	-21.88	20.36	-1.52

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	91.00	0.10	91.00	76.60	9.00

<----- 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	Index			
50.45	16.05	49.80	18.29	50.07	0.15	0.10	50.34	49.93

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	05:02	401	09:23	0.0	0.0	0.0	0.0
Gorakhpur	400	422	03:23	409	09:21	0.0	0.0	4.0	0.0
Barilly	400	425	02:57	306	16:06	0.0	0.0	22.8	0.0
Kanpur	400	422	02:57	408	06:47	0.0	0.0	4.9	0.0
Dadri	400	425	03:00	406	10:15	0.0	0.0	22.8	0.0
Ballabgarh	400	434	03:00	414	10:15	0.0	0.0	56.8	11.4
Bawana	400	430	03:00	412	10:20	0.0	0.0	45.2	0.0
Bassi	400	428	03:33	402	07:23	0.0	0.0	32.7	0.0
Hissar	400	417	03:01	401	10:15	0.0	0.0	0.0	0.0
Moga	400	414	00:54	390	11:10	0.0	0.0	0.0	0.0
Abdullapur	400	426	21:57	402	06:48	0.0	0.0	32.8	0.0
Nalagarh	400	426	23:00	408	10:16	0.0	0.0	20.2	0.0
Kishenpur	400	421	15:27	391	10:45	0.0	0.0	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	775	02:59	741	23:34	0.0	0.3	0.0	0.0
Balia	765	770	03:04	736	09:16	0.0	9.0	0.0	0.0
Moga	765	791	03:00	740	10:16	0.0	2.3	0.0	0.0
Agra	765	816	03:01	780	06:52	0.0	0.0	50.4	0.0
Bhiwani	765	804	03:01	776	06:40	0.0	0.0	8.5	0.0
Unnao	765	769	02:59	742	09:24	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	497.31	994.96	489.93	729.00	171.51	335.84
Pong	426.72	384.05	409.08	464.36	407.74	425.80	191.93	318.25
Tehri	829.79	740.04	803.45	674.38	818.65	982.26	64.86	167.00
Koteshwar	612.50	598.50	610.14	4.69	610.70	4.95	167.00	171.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	51.65	44.61
Rihand	268.22	252.98	260.21	316.40	260.48	331.50	NA	NA
RPS	352.80	343.81	509.53	NA	512.19	NA	130.09	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.44	14.40	512.12	14.40	73.26	109.61

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 25.01.2014 :

1.Moderate Fog reported in some part of NR.

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 : 25.01.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER