

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.01.2014
Date of Reporting : 29.01.2014

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
36311	1344	37655	49.96	27233	0	27233	50.18	766.8	30.45

* 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	57.00	7.02		64.02	26.33	27.70	1.37	91.72	0.00
Haryana	61.33	0.46		61.79	39.84	41.38	1.54	103.16	0.35
Rajasthan	112.54	0.00	6.69	119.23	65.56	65.65	0.09	184.88	0.00
Delhi	21.23			21.23	43.44	42.61	-0.83	63.83	0.02
UP	117.40	1.95	15.60	134.95	88.24	84.63	-3.61	219.57	27.46
Uttarakhand		7.05		7.05	24.21	25.10	0.88	32.14	0.76
HP		4.22		4.22	19.74	20.13	0.39	24.35	0.18
J & K		5.81	0.00	5.81	33.92	37.70	3.77	43.51	1.70
Chandigarh				0.00	2.90	3.64	0.74	3.64	0.00
Total	369.49	26.50	22.29	418.28	344.19	348.53	4.34	766.81	30.45

* 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	5128	0	183	-418	2898	0	-73	28	-6.96	
Haryana	5611	0	233	-283	3396	0	125	-337	-9.10	
Rajasthan	7756	0	-229	705	6702	0	225	388	24.24	
Delhi	3254	6	-31	-688	1474	0	-51	-1428	-22.45	
UP	9726	1180	167	922	8902	0	-131	586	13.03	
Uttarakhand	1715	40	101	582	1134	0	51	597	14.33	
HP	1185	18	-48	374	750	0	33	407	9.51	
J&K	1744	100	32	549	1888	0	238	683	14.01	
Chandigarh	192	0	5	0	89	0	31	-10	-0.06	
Total	36311	1344	413	1743	27233	0	447	913	36.55	

* 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	1943	2098	1909	45.95	1914	45.34	0.61	
	Rihand I STPS	1000	945	1021	818	21.58	899	21.56	0.02	
	Rihand II STPS	1000	985	1044	729	22.33	930	22.44	-0.12	
	Rihand III STPS	1000	-2	0	0	0.00	0	-0.03	0.03	
	Dadri I STPS	840	815	841	628	17.77	740	18.10	-0.33	
	Dadri II STPS	980	985	908	734	21.34	889	21.72	-0.38	
	Unchahar I TPS	420	406	376	355	8.85	369	8.91	-0.07	
	Unchahar II TPS	420	405	406	309	8.56	357	8.65	-0.08	
	Unchahar III TPS	210	202	203	154	4.31	179	4.33	-0.02	
	ISTPP (Jhajjar)	1500	1500	1017	643	17.04	710	17.28	-0.23	
	Dadri GPS	830	850	339	202	6.39	266	6.67	-0.28	
	Anta GPS	419	430	270	260	5.89	245	5.95	-0.06	
	Auraiya GPS	663	678	152	165	3.75	156	3.79	-0.04	
	Sub Total (A)	11282	10142	8674.5	6905.99	183.76	7657	184.69	-0.94	
	B. NPC	NAPS	440	298	328	336	7.09	296	7.15	-0.06
		RAPS- B	440	421	464	435	10.12	422	10.10	0.02
RAPS- C		440	430	474	476	10.25	427	10.32	-0.07	
Sub Total (B)		1320	1149	1266	1247	27.46	1144	27.58	-0.11	
C. NHPC	Chamera I HPS	540	541	270	0	1.69	70	1.69	0.00	
	Chamera II HPS	300	200	200	0	1.15	48	1.17	-0.02	
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00	
	Bairasuil HPS	180	122	60	10	0.57	24	0.56	0.02	
	Salal-HPS	690	110	90	115	2.89	120	2.64	0.25	
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00	
	Uri-HPS	480	137	278	106	3.36	140	3.33	0.03	
	Uri-II HPS	180	76	124	40	1.96	82	1.84	0.13	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	258	271	0	2.56	107	2.47	0.09	
	Sewa-II HPS	120	119	66	0	0.55	23	0.50	0.05	
	Sub Total (C)	3485	1563	1359	271	14.74	614	14.19	0.55	
	D. NJPC	Nathpa Jhakri	1500	1350	1080	0	6.56	273	6.80	-0.25
Sub Total (D)		1500	1350	1080	0	6.56	273	6.80	-0.25	
E. THDC	Tehri HPS	1000	980	730	0	6.97	290	6.90	0.07	
	Koteshwar HPS	400	106	201	90	2.58	108	2.50	0.08	
	Sub Total (E)	1400	1086	931	90	9.55	398	9.40	0.15	
F. BBMB	Bhakra HPS	1497	423	1001	385	12.73	530	10.16	2.57	
	Dehar HPS	990	112	165	0	2.61	109	2.70	-0.08	
	Pong HPS	396	203	312	60	4.93	205	4.86	0.07	
	Sub Total (F)	2883	738	1478	445	20.27	845	17.72	2.55	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.38	16	0.37	0.01	
	KWHEP HPS(IPP)	1000	0	150	0	3.43	143	3.48	-0.05	
	Malana Stg-II HPS	100	0	0	0	0.12	5	0.11	0.01	
	Shree Cement TPS	300	0	223	238	5.96	248	6.00	-0.04	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	373	238	9.89	412	9.96	-0.07	
H. Total Regional Entities (A-G)	23532	16028	15162	9197	272.23	11343	270.34	1.89		

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	1030	790	19.49	812
	Guru Nanak Dev TPS(Bhatinda)	440	105	80	1.92	80
	Guru Hargobind Singh TPS(L.mbt)	920	970	677	18.56	773
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	710	710	17.04	710
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2815	2257	57.00	2375
	Total Hydro	1148	370	162	7.02	292
	Total Punjab	5128	3185	2419	64.02	2667
Haryana	Panipat TPS	1367	664	621	14.85	619
	DCRTPP (Yamuna nagar)	600	550	503	12.49	520
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	589	504	12.78	532
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	774	21.22	884
	Thermal (Total)	4944	2917	2402	61.33	2555
	Total Hydro	62	16	17	0.46	19
	Total Haryana	5006	2933	2419	61.79	2574
Rajasthan	kota TPS	1240	1095	1085	26.85	1119
	suratgarh TPS	1500	1012	995	24.83	1034
	Chabra TPS	750	395	394	10.09	420
	Dholpur GPS	330	104	104	2.52	105
	Ramgarh GPS	221	94	91	1.22	51
	RAPS A (NPC)	300	175	175	4.14	173
	Barsingsar (NLC)	250	197	212	4.94	206
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	478	332	12.04	502
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1213	1078	25.92	1080
	Thermal (Total)	7976	4763	4466	112.54	4689
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	77	281	5.56	232
	Biomass	91	24	24	0.57	24
	Solar	201	5	0	0.56	23
	Renewable/Others (Total)	2483	101	305	6.69	279
	Total Rajasthan	11009	4864	4771	119.23	4968
	UP	Anpara TPS	1630	1623	1533	34.40
Obra TPS		1288	425	434	9.40	392
Paricha TPS		1140	689	892	16.00	667
Panki TPS		210	85	80	1.80	75
Harduaganj TPS		665	478	481	10.20	425
Tanda TPS (NTPC)		440	350	399	9.42	393
Roza TPS (IPP)		1200	785	1069	22.16	924
Anpara-C (IPP)		1200	543	0	8.57	357
Bajaj Energy Pvt.Ltd(IPP) TPS		450	198	169	5.44	227
Thermal (Total)		8223	5176	5057	117.40	4891
Vishnuparyag HPS (IPP)		400	0	0	0.00	0
Other Hydro		527	88	54	1.95	81
Cogeneration		981	650	650	15.60	650
Total UP		10131	5914	5761	134.95	5623
Uttarakhand		Total Hydro	1303	461	133	7.05
	Total Uttarakhand	1303	461	133	7.05	294
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	157	159	3.77	157
	Pragati Gas Turbine	330	313	268	7.30	304
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	400	510	10.16	423
	Thermal (Total)	2232	870	937	21.23	884
	Total Delhi	2232	870	937	21.23	884
HP	Baspa HPS (IPP)	330	0	0	0.99	41
	Malana HPS (IPP)	86	0	0	0.20	8
	Other Hydro	589	176	48	3.03	126
	Total HP	1005	176	48	4.22	176
J & K	Baglihar HPS (IPP)	450	148	120	3.22	134
	Other Hydro	323	92	128	2.59	108
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	240	248	5.81	242
Total State Control Area Generation		36770	18643	16736	418.28	17428
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3843	2645	85.95	3581
Total Regional Availability(Gross)		60303	37648	28578	776.46	32353

IV. Total Hydro Generation:

Regional Entities Hydro	10560	4998	806	55.05	2294
State Control Area Hydro	5368	1351	662	26.50	1104
Total Regional Hydro	15928	6349	1468	81.55	3398

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	100	400	0.75	2.61	-1.86
Gwalior-Agra (D/C)	1302	920	1507	0	26.47	0.00	26.47
Zerda-Kankroli	-55	-327	0	418	0.00	5.00	-5.00
Zerda-Bhinmal	59	-202	88	300	0.00	1.75	-1.75
Malanpur-Auraiya	-55	-56	0	92	0.00	1.38	-1.38
Badod-Kota/Morak	5	-132	27	200	0.00	1.33	-1.33
Mundra-Mohindergarh(HVDC)	1802	1699	2005	0	44.85	0.00	44.85
Sub Total WR	2958	1602			72.08	12.07	60.01
Pusauli Bypass	-426	400	400	427	3.09	5.54	-2.45
MZP- GKP (D/C)	233	80	312	0	4.59	0.00	4.59
Patna-Balia(D/C)	563	420	642	0	12.07	0.00	12.07
B'Sharif-Balia (D/C)	148	151	213	0	3.33	0.00	3.33
Pusauli-Balia	-57	-127	0	167	0.00	1.83	-1.83
Gaya-Fatehpur (765 Kv)	10	-35	165	57	1.01	0.00	1.01
Pusauli-Sahupuri	201	181	206	0	4.63	0.00	4.63
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)	248	-1	442	17	5.20	0.00	5.20
Sub Total ER	885	1043			33.92	7.97	25.95
Total IR Exch	3843	2645			105.99	20.04	85.95

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
33.47	0.18	33.65	15.59	4.43	-0.17	11.56	-0.24	0.24

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
48.83	45.93	94.76	25.95	60.01	85.95	-22.88	14.07	-8.81

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	0.10	94.80	3.50	94.70	56.70	5.20

<----- 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				
50.29	21.45	49.66	7.23	50.01	0.13	0.11	50.33	49.85

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	03:05	405	10:12	0.0	0.0	0.0	0.0
Gorakhpur	400	424	09:14	411	18:46	0.0	0.0	48.9	0.0
Bareilly	400	424	03:02	407	09:24	0.0	0.0	20.4	0.0
Kanpur	400	420	03:01	405	09:24	0.0	0.0	0.0	0.0
Dadri	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Ballabgarh	400	434	03:05	413	09:24	0.0	0.0	71.0	9.8
Bawana	400	428	01:42	412	10:12	0.0	0.0	61.8	0.0
Bassi	400	427	03:04	401	09:18	0.0	0.0	33.3	0.0
Hissar	400	417	03:02	397	10:13	0.0	0.0	0.0	0.0
Moga	400	419	20:45	390	10:44	0.0	0.0	0.0	0.0
Abdullapur	400	426	03:05	399	05:41	0.0	0.0	20.5	0.0
Nalagarh	400	427	01:55	411	10:11	0.0	0.0	42.5	0.0
Kishenpur	400	418	13:02	393	11:08	0.0	0.0	0.0	0.0
Wagoora	400	403	09:05	361	11:41	32.7	97.9	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	779	13:06	749	05:42	0.0	0.0	0.0	0.0
Balia	765	767	03:02	741	18:51	0.0	0.1	0.0	0.0
Moga	765	805	20:45	741	11:11	0.0	0.1	1.5	0.0
Agra	765	816	13:05	778	09:24	0.0	0.0	55.2	0.0
Bhiwani	765	801	01:57	773	05:43	0.0	0.0	14.5	0.0
Unnao	765	766	03:03	742	09:23	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	496.82	971.87	489.10	709.72	163.33	373.30
Pong	426.72	384.05	408.74	454.47	407.17	407.15	79.57	319.61
Tehri	829.79	740.04	802.10	646.42	818.65	982.26	64.60	169.00
Koteshwar	612.50	598.50	610.59	4.95	609.40	4.21	169.00	171.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	47.83	46.95
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 28.01.2014 :

1.Normal weather in 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 : 28.01.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER