

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.01.2014
Date of Reporting : 28.01.2014

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
34806	2024	36829	50.02	24990	0	24990	50.21	733.5	30.94

* 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	45.55	7.02		52.57	27.08	29.00	1.92	81.57	0.00
Haryana	56.21	0.44		56.64	40.35	39.38	-0.97	96.02	0.18
Rajasthan	112.80	0.03	5.10	117.93	61.28	59.22	-2.07	177.15	0.00
Delhi	21.42			21.42	43.54	40.94	-2.60	62.37	0.01
UP	111.48	2.02	15.60	129.09	90.69	88.92	-1.77	218.02	28.92
Uttarakhand		7.27		7.27	24.59	25.22	0.63	32.48	0.00
HP		4.13		4.13	19.02	19.47	0.45	23.60	0.13
J & K		5.81	0.00	5.81	34.47	32.90	-1.57	38.71	1.70
Chandigarh				0.00	3.00	3.64	0.65	3.64	0.00
Total	347.46	26.70	20.70	394.86	344.03	338.69	-5.33	733.55	30.94

* 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	4312	0	-17	-403	2458	0	160	-23	-7.08	
Haryana	5202	98	201	-333	2898	0	-34	-397	-9.83	
Rajasthan	7634	0	-335	843	6334	0	-7	762	24.19	
Delhi	3309	0	-20	-598	1268	0	-136	-1527	-21.95	
UP	9688	1780	273	1118	8671	0	-119	563	14.05	
Uttarakhand	1702	40	16	649	997	0	-41	620	15.13	
HP	1184	6	-17	350	624	0	-1	407	9.55	
J&K	1582	100	-195	658	1651	0	-5	683	14.66	
Chandigarh	192	0	6	0	89	0	10	-10	-0.05	
Total	34806	2024	-87	2283	24990	0	-174	1079	38.68	

* 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	1943	2103	1458	43.82	1826	43.73	0.10
	Rihand I STPS	1000	945	1031	712	21.02	876	20.92	0.09
	Rihand II STPS	1000	985	1038	713	21.81	909	21.85	-0.05
	Rihand III STPS	1000	-2	0	0	0.00	0	-0.03	0.03
	Dadri I STPS	840	815	842	709	17.04	710	17.63	-0.59
	Dadri II STPS	980	985	950	722	21.21	884	21.75	-0.54
	Unchahar I TPS	420	406	364	316	8.67	361	8.72	-0.05
	Unchahar II TPS	420	405	397	307	8.31	346	8.40	-0.09
	Unchahar III TPS	210	202	197	154	4.18	174	4.20	-0.02
	ISTPP (Jhajjhar)	1500	1500	994	633	16.80	700	17.06	-0.26
	Dadri GPS	830	852	196	203	4.61	192	5.03	-0.42
	Anta GPS	419	431	271	253	6.23	260	6.32	-0.09
	Auraiya GPS	663	678	162	169	3.91	163	3.82	0.09
	Sub Total (A)	11282	10143	8545	6349	177.59	7400	179.40	-1.80
	B. NPC	NAPS	440	300	328	339	7.11	296	7.20
RAPS- B		440	422	463	464	10.14	422	10.13	0.01
RAPS- C		440	430	475	475	10.26	428	10.32	-0.06
Sub Total (B)		1320	1152	1266	1278	27.51	1146	27.65	-0.14
C. NHPC	Chamera I HPS	540	541	270	0	1.73	72	1.69	0.04
	Chamera II HPS	300	200	200	0	1.13	47	1.09	0.03
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	122	60	10	0.57	24	0.59	-0.02
	Salal-HPS	690	121	188	130	3.06	127	2.91	0.15
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	130	278	106	3.36	140	3.16	0.21
	Uri-II HPS	180	70	115	38	2.01	84	1.68	0.33
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	271	0	2.40	100	2.43	-0.02
	Sewa-II HPS	120	119	66	0	0.75	31	0.73	0.02
	Sub Total (C)	3485	1560	1448	284	15.01	625	14.27	0.74
	D. NJPC	Nathpa Jhakri	1500	1350	1079	0	6.70	279	6.80
Sub Total (D)		1500	1350	1079	0	6.70	279	6.80	-0.10
E. THDC	Tehri HPS	1000	980	972	0	7.01	292	6.90	0.11
	Koteshwar HPS	400	106	200	88	2.56	107	2.50	0.06
	Sub Total (E)	1400	1086	1172	88	9.57	399	9.40	0.17
F. BBMB	Bhakra HPS	1497	487	1000	385	12.08	503	11.70	0.38
	Dehar HPS	990	112	165	0	2.88	120	2.70	0.19
	Pong HPS	396	186	312	0	4.48	187	4.47	0.01
	Sub Total (F)	2883	786	1477	385	19.44	810	18.86	0.58
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.30	13	0.29	0.01
	KWHEP HPS(IPP)	1000	0	150	0	3.46	144	3.48	-0.02
	Malana Stg-II HPS	100	0	0	0	0.14	6	0.11	0.03
	Shree Cement TPS	300	0	267	243	6.26	261	6.44	-0.17
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	417	243	10.17	424	10.32	-0.15
H. Total Regional Entities (A-G)	23532	16077	15404	8627	265.99	11083	266.69	-0.70	

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	790	770	18.99	791
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.80	75
	Guru Hargobind Singh TPS(L.mbt)	920	773	677	18.08	753
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	525	0	6.68	278
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2168	1527	45.55	1898
	Total Hydro	1148	324	182	7.02	292
Total Punjab	5128	2492	1709	52.57	2190	
Haryana	Panipat TPS	1367	640	438	11.84	493
	DCRTPP (Yamuna nagar)	600	551	502	12.28	511
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	581	504	12.55	523
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	837	744	19.55	815
	Thermal (Total)	4944	2609	2188	56.21	2342
	Total Hydro	62	16	15	0.44	18
Total Haryana	5006	2625	2203	56.64	2360	
Rajasthan	kota TPS	1240	1155	1086	26.71	1113
	suratgarh TPS	1500	1062	989	24.74	1031
	Chabra TPS	750	448	396	10.22	426
	Dholpur GPS	330	104	103	2.49	104
	Ramgarh GPS	221	94	92	2.57	107
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingsar (NLC)	250	213	214	5.16	215
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	479	320	10.48	437
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1139	959	26.32	1097
	Thermal (Total)	7976	4869	4334	112.80	4700
	Total Hydro	550	0	0	0.03	1
	Wind power	2191	100	187	3.86	161
	Biomass	91	26	26	0.62	26
	Solar	201	6	0	0.62	26
	Renewable/Others (Total)	2483	126	213	5.10	213
Total Rajasthan	11009	4995	4547	117.93	4914	
UP	Anpara TPS	1630	1564	1501	33.20	1383
	Obra TPS	1288	547	550	11.90	496
	Paricha TPS	1140	720	793	19.10	796
	Panki TPS	210	105	100	2.20	92
	Harduaganj TPS	665	484	489	8.70	363
	Tanda TPS (NTPC)	440	400	299	8.36	348
	Roza TPS (IPP)	1200	808	770	22.66	944
	Anpara-C (IPP)	1200	0	0	0.00	0
	Bajaj Energy Pvt.Ltd.(IPP) TPS	450	198	197	5.36	224
	Thermal (Total)	8223	4826	4699	111.48	4645
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	22	109	2.02	84
	Cogeneration	981	650	650	15.60	650
	Total UP	10131	5498	5458	129.09	5379
Uttarakhand	Total Hydro	1303	461	132	7.27	303
	Total Uttarakhand	1303	461	132	7.27	303
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	159	121	3.53	147
	Pragati Gas Turbine	330	267	267	6.79	283
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	510	440	11.11	463
	Thermal (Total)	2232	936	828	21.42	893
Total Delhi	2232	936	828	21.42	893	
HP	Baspa HPS (IPP)	330	0	0	0.84	35
	Malana HPS (IPP)	86	0	0	0.18	8
	Other Hydro	589	148	66	3.11	129
	Total HP	1005	148	66	4.13	172
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	17395	15191	394.86	16452
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4315	2694	91.27	3803
Total Regional Availability(Gross)		60303	37114	26512	752.11	31338

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5326	757	54.62	2276
State Control Area Hydro	5368	1211	752	26.70	1112
Total Regional Hydro	15928	6537	1509	81.32	3388

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	0	-400	0	400	0.00	2.37	-2.37
Gwalior-Agra (D/C)	1552	1123	1726	0	29.00	0.00	29.00
Zerda-Kankroli	-189	-279	0	330	0.00	5.15	-5.15
Zerda-Bhinmal	-81	-160	81	245	0.00	2.01	-2.01
Malanpur-Auraiya	-100	-41	0	100	0.00	1.30	-1.30
Badod-Kota/Morak	-30	-111	0	152	0.00	1.50	-1.50
Mundra-Mohindergarh(HVDC)	1999	1499	2004	0	44.66	0.00	44.66
Sub Total WR	3151	1631			73.66	12.33	61.33
Pusaui Bypass	400	400	400	0	9.68	0.00	9.68
MZP- GKP (D/C)	152	166	288	0	3.84	0.00	3.84
Patna-Balia(D/C)	483	440	611	0	11.39	0.00	11.39
B'Sharif-Balia (D/C)	158	166	299	0	4.00	0.00	4.00
Pusaui-Balia	-114	-104	0	164	0.00	3.26	-3.26
Gaya-Fatehpur (765 Kv)	-8	-48	163	146	0.37	0.00	0.37
Pusaui-Sahupuri	188	144	206	0	4.10	0.00	4.10
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)	-60	-75	173	196	0.42	0.00	0.42
Sub Total ER	1164	1063			33.80	3.86	29.94
Total IR Exch	4315	2694			107.45	16.19	91.27

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
32.76	0.19	32.95	21.45	4.11	1.51	6.27	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
55.98	42.18	98.16	29.94	61.33	91.27	-26.04	19.15	-6.89

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	0.60	91.90	1.00	91.90	63.40	8.10

<----- 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				
50.40	2.01	49.63	6.46	50.04	0.15	0.12	50.39	0.00

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	01:33	403	08:33	0.0	0.0	0.0	0.0
Gorakhpur	400	423	14:32	409	18:44	0.0	0.0	7.9	0.0
Barilly	400	426	02:02	405	08:38	0.0	0.0	30.0	0.0
Kanpur	400	421	01:50	402	08:39	0.0	0.0	1.4	0.0
Dadri	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Ballabgarh	400	433	00:43	412	07:22	0.0	0.0	66.8	22.3
Bawana	400	431	00:52	411	08:38	0.0	0.0	56.5	0.8
Bassi	400	427	03:59	399	08:37	0.0	0.0	42.6	0.0
Hissar	400	417	00:44	399	08:37	0.0	0.0	0.0	0.0
Moga	400	416	00:47	395	18:25	0.0	0.0	0.0	0.0
Abdullapur	400	427	02:02	401	18:20	0.0	0.0	25.5	0.0
Nalagarh	400	430	23:01	409	10:09	0.0	0.0	40.3	0.0
Kishenpur	400	413	00:53	390	10:57	0.0	0.0	0.0	0.0
Wagoora	400	388	03:12	362	10:59	65.6	100.0	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	780	23:03	736	07:23	0.0	2.4	0.0	0.0
Balia	765	765	23:04	739	18:26	0.0	2.1	0.0	0.0
Moga	765	795	01:02	751	18:48	0.0	0.0	0.0	0.0
Agra	765	818	23:04	767	08:37	0.0	0.0	55.2	0.0
Bhiwani	765	808	00:00	769	08:33	0.0	0.0	23.8	0.0
Unnao	765	767	02:01	738	08:37	0.0	6.0	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	496.96	971.87	489.32	709.72	172.62	350.62
Pong	426.72	384.05	408.85	454.47	407.32	407.15	87.67	289.79
Tehri	829.79	740.04	802.45	646.42	818.65	982.26	64.38	169.00
Koteshwar	612.50	598.50	610.49	4.69	609.60	4.44	169.00	170.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	50.93	46.53
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 27.01.2014 :

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 : 27.01.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER