

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.02.2014
Date of Reporting : 26.02.2014

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
35470	2221	37691	49.96	27336	330	27666	50.14	766.0	41.48

* 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:

UI (OD:(+ve), UD: (-ve))

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	44.56	11.08		55.64	41.17	43.35	2.18	99.00	0.84
Haryana	46.01	0.39		46.41	57.95	56.89	-1.07	103.29	0.03
Rajasthan	95.91	5.22	8.96	110.09	75.21	74.52	-0.69	184.61	0.51
Delhi	17.50			17.50	42.40	41.33	-1.07	58.83	0.16
UP	109.35	3.08	16.80	129.23	93.66	92.42	-1.24	221.64	37.87
Uttarakhand		8.63		8.63	22.33	24.26	1.92	32.88	0.39
HP		5.42		5.42	17.80	18.50	0.70	23.92	0.00
J & K		5.29	0.00	5.29	32.74	33.10	0.36	38.39	1.70
Chandigarh				0.00	3.32	3.44	0.12	3.44	0.00
Total	313.34	39.11	25.76	378.20	386.57	387.80	1.23	766.00	41.48

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX (OD/Import: (+ve), UD/Export: (-ve))

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	5366	0	103	-379	3092	0	151	77	-5.69	
Haryana	5177	0	-524	-234	3558	0	-9	-29	-5.96	
Rajasthan	7610	205	20	930	6797	0	7	725	30.19	
Delhi	3071	51	160	-887	1394	0	-124	-1528	-24.81	
UP	9504	1830	-235	450	8987	330	16	449	8.03	
Uttarakhand	1671	35	81	422	1110	0	99	447	10.78	
HP	1072	0	-20	188	729	0	45	297	7.23	
J&K	1817	100	27	521	1585	0	43	609	11.26	
Chandigarh	183	0	-8	0	83	0	-11	0	0.00	
Total	35470	2221	-396	1012	27336	330	218	1047	31.03	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI (OG:(+ve), UG: (-ve))

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
	Rihand I STPS	1000	945	940	825	20.67	861	20.35	0.32
	Rihand II STPS	1000	975	936	760	21.11	880	21.00	0.11
	Rihand III STPS	1000	485	519	363	10.87	453	10.80	0.08
	Dadri I STPS	840	684	834	602	14.17	590	14.53	-0.36
	Dadri II STPS	980	879	859	679	17.61	734	17.96	-0.35
	Unchahar I TPS	420	406	390	328	8.44	352	8.52	-0.08
	Unchahar II TPS	420	406	353	311	7.78	324	7.85	-0.07
	Unchahar III TPS	210	203	174	155	3.82	159	3.85	-0.04
	ISTPP (Jhajjhar)	1500	1500	357	314	14.05	585	14.40	-0.35
	Dadri GPS	830	836	350	415	9.34	389	9.59	-0.25
	Anta GPS	419	423	268	254	6.13	255	6.19	-0.06
	Auraiya GPS	663	675	158	162	3.64	152	3.70	-0.06
	Sub Total (A)	11282	10348	8205	6681	181.54	7564	182.29	-0.76
B. NPC	NAPS	440	295	327	333	7.02	292	7.08	-0.06
	RAPS- B	440	417	452	460	9.92	413	10.01	-0.09
	RAPS- C	440	430	471	474	10.20	425	10.32	-0.12
	Sub Total (B)	1320	1142	1250	1267	27.14	1131	27.41	-0.27
C. NHPC	Chamera I HPS	540	540	540	0	3.09	129	3.05	0.04
	Chamera II HPS	300	200	204	0	1.42	59	1.50	-0.08
	Chamera III HPS	231	154	160	0	0.71	30	0.70	0.01
	Bairasuil HPS	180	182	182	0	1.41	59	1.40	0.01
	Salal-HPS	690	153	230	110	3.75	156	3.72	0.03
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	182	309	90	4.48	187	4.38	0.10
	Uri-II HPS	180	90	181	62	2.79	116	2.23	0.56
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	257	269	0	2.68	112	2.60	0.08
	Sewa-II HPS	120	119	123	0	2.02	84	2.00	0.02
	Parbati 3	520	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	4005	1877	2198	262	22	931	22	1
D. NJPC	Nathpa Jhakri	1500	1605	916	0	6.58	274	6.49	0.09
	Sub Total (D)	1500	1605	916	0	6.58	274	6.49	0.09
E. THDC	Tehri HPS	1000	876	887	0	7.02	292	7.00	0.02
	Koteshwar HPS	400	116	302	0	2.82	118	2.80	0.02
	Sub Total (E)	1400	992	1189	0	9.84	410	9.80	0.04
F. BBMB	Bhakra HPS	1497	759	1157	512	18.40	767	18.21	0.19
	Dehar HPS	990	134	330	0	3.53	147	3.22	0.31
	Pong HPS	396	224	306	126	5.51	230	5.38	0.13
	Sub Total (F)	2883	1117	1793	638	27.44	1143	26.82	0.62
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.36	15	0.35	0.01
	KWHEP HPS(IPP)	1000	0	0	0	3.35	140	3.36	-0.01
	Malana Stg-II HPS	100	0	0	0	0.11	4	0.10	0.01
	Shree Cement TPS	300	0	287	142	5.47	228	5.46	0.00
	Budhil HPS(IPP)	70	0	0	0	0.02	1	0.21	-0.18
	Sub Total (G)	1662	0	287	142	9.30	387	9.48	-0.18
H. Total Regional Entities (A-G)		24052	17082	15838	8990	284.18	11841	283.86	0.31

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	1035	810	20.64	860
	Guru Nanak Dev TPS(Bhatinda)	440	170	170	4.16	173
	Guru Hargobind Singh TPS(L.mbt)	920	970	703	19.76	823
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2175	1683	44.56	1857
	Total Hydro	1148	508	350	11.08	462
Total Punjab	5128	2683	2033	55.64	2318	
Haryana	Panipat TPS	1367	222	220	5.13	214
	DCRTPP (Yamuna nagar)	600	510	512	12.03	501
	Faridabad GPS (NTPC)	432	400	278	7.04	293
	RGTPP (khedar) (IPP)	1200	563	501	12.17	507
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	613	375	9.65	402
	Thermal (Total)	4944	2308	1886	46.01	1917
	Total Hydro	62	17	16	0.39	16
Total Haryana	5006	2325	1902	46.41	1934	
Rajasthan	kota TPS	1240	1153	1149	26.85	1119
	suratgarh TPS	1500	1137	1355	28.31	1180
	Chabra TPS	750	652	413	13.62	567
	Dholpur GPS	330	137	141	3.44	144
	Ramgarh GPS	221	129	117	2.93	122
	RAPS A (NPC)	300	175	175	4.16	173
	Barsingsar (NLC)	250	204	206	4.84	202
	Giral LTPS	250	76	52	1.53	64
	Rajwest LTPS (IPP)	1080	0	0	0.00	0
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	405	432	10.23	426
	Thermal (Total)	7976	4068	4040	95.91	3996
	Total Hydro	550	290	269	5.22	217
	Wind power	2191	100	496	8.14	339
	Biomass	91	26	26	0.63	26
	Solar	201	2	2	0.19	8
Renewable/Others (Total)	2483	126	522	8.96	373	
Total Rajasthan	11009	4484	4831	110.09	4587	
UP	Anpara TPS	1630	1113	1121	23.70	988
	Obra TPS	1288	377	315	7.30	304
	Paricha TPS	1140	701	676	15.00	625
	Panki TPS	210	75	80	1.70	71
	Harduaganj TPS	665	252	43	4.70	196
	Tanda TPS (NTPC)	440	401	403	9.77	407
	Roza TPS (IPP)	1200	810	661	17.53	730
	Anpara-C (IPP)	1200	987	1080	25.25	1052
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	195	195	4.40	184
	Thermal (Total)	8223	4911	4574	109.35	4556
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	121	139	3.08	128
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5732	5413	129.23	5384
	Uttarakhand	Total Hydro	1303	537	160	8.63
Total Uttarakhand		1303	537	160	8.63	359
Delhi	Rajghat TPS	135	52	52	1.15	48
	Delhi Gas Turbine	282	82	84	1.96	82
	Pragati Gas Turbine	330	148	270	5.06	211
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	435	420	9.32	388
	Thermal (Total)	2232	717	826	17.50	729
Total Delhi	2232	717	826	17.50	729	
HP	Baspa HPS (IPP)	330	41	0	1.04	43
	Malana HPS (IPP)	86	45	0	0.20	8
	Other Hydro	589	209	104	4.19	174
	Total HP	1005	295	104	5.42	226
J & K	Baglihar HPS (IPP)	450	150	148	3.00	125
	Other Hydro	323	90	130	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	240	278	5.29	220
Total State Control Area Generation		36770	17013	15547	378.20	15759
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4578.6	4204	118.02	4918
Total Regional Availability(Gross)		60823	37430	28741	780.41	32517

IV. Total Hydro Generation:

Regional Entities Hydro	11080	6096	900	70.02	2917
State Control Area Hydro	5368	2008	1316	39.11	1630
Total Regional Hydro	16448	8104	2216	109.13	4547

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	500	150	500	0	9.82	0.00	9.82
Gwalior-Agra (D/C)	1364	1280	1940	0	32.59	0.00	32.59
Zerda-Kankroli	-85	-336	83	382	0.00	4.17	-4.17
Zerda-Bhinmal	39	-216	225	303	0.00	0.92	-0.92
Malanpur-Auraiya	-89	-62	0	109	0.00	1.70	-1.70
Badod-Kota/Morak	-7	-114	97	122	0.28	0.00	0.28
Mundra-Mohinderghar(HVDC)	2001	1999	2006	0	48.33	0.00	48.33
Sub Total WR	3723	2701			91.02	6.79	84.23
Pusauli Bypass	300	300	300	0	7.19	0.00	7.19
MZP- GKP (D/C)	38	237	250	0	3.11	0.00	3.11
Patna-Balia(D/C)	346	498	729	0	11.90	0.00	11.90
B'Sharif-Balia (D/C)	208	277	558	0	8.03	0.00	8.03
Pusauli-Balia	-86	-70	32	112	0.00	0.80	-0.80
Gaya-Fatehpur (765 Kv)	40	48	92	78	0.61	0.00	0.61
Pusauli-Sahupuri	33	129	143	0	2.70	0.00	2.70
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-28	0	0	0.00	0.66	-0.66
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	7	112	147	57	1.72	0.00	1.72
Sub Total ER	856	1503			35.26	1.46	33.80
Total IR Exch	4579	4204			126.27	8.25	118.02

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
34.37	0.13	34.50	15.82	2.01	2.16	5.38	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
52.55	68.29	120.84	33.80	84.23	118.02	-18.75	15.94	-2.81

VI. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	>50.10	>50.20	>50.50
0.00	0.00	0.30	7.70	45.70	60.90	14.50	73.48	2.80	0.00

<----- 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				
50.31	23.59	49.74	9.13	50.01	0.08	0.09	50.34	49.88

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	03:04	399	07:33	0.0	0.0	0.0	0.0
Gorakhpur	400	424	00:00	411	15:12	0.0	0.0	29.4	0.0
Bareilly	400	425	04:05	383	09:01	0.0	0.1	25.0	0.0
Kanpur	400	422	04:00	403	09:13	0.0	0.0	3.4	0.0
Dadri	400	428	04:02	403	09:35	0.0	0.0	26.4	0.0
Ballabgarh	400	436	04:02	412	09:24	0.0	0.0	65.9	18.8
Bawana	400	428	23:54	408	10:13	0.0	0.0	25.0	0.0
Bassi	400	429	04:02	396	09:13	0.0	0.0	24.7	0.0
Hissar	400	419	04:02	395	10:11	0.0	0.0	0.0	0.0
Moga	400	419	04:02	393	14:32	0.0	0.0	0.0	0.0
Abdullapur	400	428	01:21	407	06:16	0.0	0.0	33.6	0.0
Nalagarh	400	427	04:02	399	14:30	0.0	0.0	23.9	0.0
Kishenpur	400	413	04:02	389	19:01	0.0	0.0	0.0	0.0
Wagoora	400	408	10:56	368	19:01	19.0	71.4	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	04:03	739	09:27	0.0	0.1	0.0	0.0
Balia	765	768	00:00	768	00:00	0.0	0.0	0.0	0.0
Moga	765	799	04:03	753	14:32	0.0	0.0	0.0	0.0
Agra	765	814	04:04	769	09:13	0.0	0.0	24.9	0.0
Bhiwani	765	812	04:03	767	09:37	0.0	0.0	29.1	0.0
Unnao	765	773	04:02	742	09:34	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	491.61	788.17	485.74	610.73	195.58	566.88
Pong	426.72	384.05	406.41	379.44	404.19	320.26	99.93	365.40
Tehri	829.79	740.04	793.55	505.00	818.65	982.26	66.92	177.00
Koteshwar	612.50	598.50	610.40	4.69	610.00	4.69	185.00	188.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	74.63	76.39
Rihand	268.22	252.98	259.84	296.30	259.78	292.90	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	508.74	148.00	510.66	150.00	99.99	116.98

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

NIL

XII. Weather Conditions For 25.02.2014 :

Normal weather in NR.

XIII. Synchronisation of new generating units :

0.00

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 : 25.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER