

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.02.2014
Date of Reporting : 24.02.2014

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
33677	1320	34997	50.14	26563	15	26578	50.34	736.0	42.78

* 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	39.55	9.61		49.16	41.19	41.80	0.61	90.95	4.34
Haryana	40.47	0.38		40.85	58.56	57.41	-1.15	98.26	0.04
Rajasthan	95.02	4.83	11.33	111.17	78.74	75.36	-3.38	186.53	0.27
Delhi	18.49			18.49	41.10	38.15	-2.95	56.64	0.27
UP	101.95	2.83	16.80	121.58	85.64	84.96	-0.68	206.54	34.53
Uttarakhand		8.42		8.42	22.83	22.92	0.10	31.34	1.48
HP		5.24		5.24	16.93	17.46	0.54	22.70	0.15
J & K		5.89	0.00	5.89	33.50	34.03	0.53	39.92	1.70
Chandigarh				0.00	3.31	3.12	-0.18	3.12	0.00
Total	295.48	37.19	28.13	360.79	381.79	375.22	-6.57	736.02	42.78

* 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	
Punjab	4659	0	-4	-278	3104	0	77	4	-4.57
Haryana	5009	0	-382	-99	3202	0	169	-250	-3.13
Rajasthan	7326	0	-217	925	6882	0	-284	1058	34.52
Delhi	2879	0	-163	-809	1389	0	-99	-1345	-23.82
UP	9327	1220	-361	428	8363	15	155	443	7.51
Uttarakhand	1558	0	86	516	1125	0	-38	476	11.82
HP	999	0	-28	137	735	0	65	317	6.40
J&K	1760	100	-129	521	1675	0	26	612	11.28
Chandigarh	160	0	-26	0	87	0	-10	0	0.00
Total	33677	1320	-1223	1341	26563	15	61	1315	40.01

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

III. Regional Entities :

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

A. NTPC	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS	2000	1864	2001	1465	42.05	1752	42.91	-0.87
	Rihand I STPS	1000	945	975	707	19.47	811	19.81	-0.34
	Rihand II STPS	1000	975	953	718	20.20	841	20.76	-0.56
	Rihand III STPS	1000	485	506	365	10.66	444	10.86	-0.20
	Dadri I STPS	840	689	714	595	14.12	588	14.58	-0.46
	Dadri II STPS	980	887	822	675	17.11	713	17.61	-0.50
	Unchahar I TPS	420	408	356	307	7.80	325	7.94	-0.14
	Unchahar II TPS	420	406	334	297	7.45	310	7.65	-0.20
	Unchahar III TPS	210	203	172	153	3.76	157	3.82	-0.06
	ISTPP (Jhajjhar)	1500	1500	642	633	14.71	613	14.80	-0.09
	Dadri GPS	830	841	408	420	9.30	387	9.47	-0.17
	Anta GPS	419	423	238	243	5.97	249	6.15	-0.18
	Auraiya GPS	663	675	160	161	3.71	155	3.76	-0.05
	Sub Total (A)	11282	10301	8281	6739	176.30	7346	180.12	-3.82
B. NPC	NAPS	440	296	328	330	7.06	294	7.10	-0.04
	RAPS- B	440	417	460	461	10.02	417	10.01	0.01
	RAPS- C	440	430	475	478	10.27	428	10.32	-0.05
	Sub Total (B)	1320	1143	1263	1269	27.35	1140	27.43	-0.08
C. NHPC	Chamera I HPS	540	540	540	0	2.52	105	2.91	-0.39
	Chamera II HPS	300	200	194	0	1.31	55	1.40	-0.09
	Chamera III HPS	231	154	154	0	0.74	31	0.75	-0.01
	Bairasuil HPS	180	182	182	0	1.31	54	1.40	-0.09
	Salal-HPS	690	166	182	0	3.87	161	4.03	-0.15
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	185	260	117	4.30	179	4.57	-0.26
	Uri-II HPS	180	100	121	80	2.38	99	2.40	-0.02
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	399	0	2.55	106	2.70	-0.15
	Sewa-II HPS	120	119	120	0	1.49	62	1.50	-0.01
	Parbati 3	520	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	4005	2034	2152	197	20	853	22	-1
D. NJPC	Nathpa Jhakri	1500	1605	955	0	6.80	283	6.78	0.01
	Sub Total (D)	1500	1605	955	0	6.80	283	6.78	0.01
E. THDC	Tehri HPS	1000	884	894	0	6.98	291	7.00	-0.02
	Koteshwar HPS	400	133	302	0	2.77	115	2.90	-0.13
	Sub Total (E)	1400	1017	1196	0	9.75	406	9.90	-0.15
F. BBMB	Bhakra HPS	1497	749	1153	512	18.21	759	17.97	0.24
	Dehar HPS	990	160	330	0	4.34	181	3.85	0.49
	Pong HPS	396	204	306	120	4.67	195	4.89	-0.22
	Sub Total (F)	2883	1113	1789	632	27.22	1134	26.71	0.51
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.36	15	0.35	0.02
	KWHEP HPS(IPP)	1000	0	0	0	3.48	145	3.48	0.00
	Malana Stg-II HPS	100	0	0	0	0.11	4	0.09	0.01
	Shree Cement TPS	300	0	124	127	3.06	128	3.10	-0.04
	Budhil HPS(IPP)	70	0	0	0	0.02	1	0.10	-0.08
	Sub Total (G)	1662	0	124	127	7.03	293	7.13	-0.09
H. Total Regional Entities (A-G)		24052	17213	15760	8964	274.92	11455	279.71	-4.80

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	810	810	18.78	782
	Guru Nanak Dev TPS(Bhatinda)	440	170	170	3.66	153
	Guru Hargobind Singh TPS(L.mbt)	920	757	703	17.11	713
	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	1737	1683	39.55	1648
	Total Hydro	1148	465	444	9.61	400
Total Punjab	5128	2202	2127	49.16	2048	
Haryana	Panipat TPS	1367	216	216	5.08	211
	DCRTPP (Yamuna nagar)	600	510	517	12.03	501
	Faridabad GPS (NTPC)	432	415	310	8.09	337
	RGTPP (khedar) (IPP)	1200	494	0	6.13	256
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	372	378	9.14	381
	Thermal (Total)	4944	2007	1421	40.47	1686
	Total Hydro	62	16	15	0.38	16
	Total Haryana	5006	2023	1436	40.85	1702
	Rajasthan	kota TPS	1240	982	999	23.73
suratgarh TPS		1500	1251	1263	30.07	1253
Chabra TPS		750	579	565	14.48	603
Dholpur GPS		330	138	136	3.39	141
Ramgarh GPS		221	106	106	2.59	108
RAPS A (NPC)		300	175	175	4.14	173
Barsingsar (NLC)		250	204	202	4.81	200
Giral LTPS		250	74	74	1.33	55
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	429	429	10.49	437
Thermal (Total)		7976	3938	3949	95.02	3959
Total Hydro		550	60	169	4.83	201
Wind power		2191	212	631	9.95	415
Biomass		91	33	33	0.79	33
Solar		201	6	0	0.58	24
Renewable/Others (Total)		2483	245	664	11.33	472
Total Rajasthan		11009	4243	4782	111.17	4632
UP	Anpara TPS	1630	1107	1112	24.00	1000
	Obra TPS	1288	336	341	7.50	313
	Paricha TPS	1140	716	586	14.30	596
	Panki TPS	210	85	80	1.60	67
	Harduaganj TPS	665	465	405	9.40	392
	Tanda TPS (NTPC)	440	398	330	8.46	352
	Roza TPS (IPP)	1200	549	576	13.65	569
	Anpara-C (IPP)	1200	1028	792	18.57	774
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	195	195	4.48	187
	Thermal (Total)	8223	4879	4417	101.95	4248
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	98	139	2.83	118
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5677	5256	121.58	5066
Uttarakhand	Total Hydro	1303	371	257	8.42	351
	Total Uttarakhand	1303	371	257	8.42	351
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	82	82	1.94	81
	Pragati Gas Turbine	330	275	266	6.71	280
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	58	0	0.57	24
	Badarpur TPS (NTPC)	705	430	420	9.26	386
	Thermal (Total)	2232	845	768	18.49	770
	Total Delhi	2232	845	768	18.49	770
HP	Baspa HPS (IPP)	330	31	0	0.87	36
	Malana HPS (IPP)	86	0	0	0.18	8
	Other Hydro	589	205	115	4.19	175
	Total HP	1005	236	115	5.24	218
J & K	Baglihar HPS (IPP)	450	148	148	3.53	147
	Other Hydro	323	94	132	2.36	98
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	242	280	5.89	246
Total State Control Area Generation		36770	15839	15021	360.79	15033
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4856	4359	120.27	5011
Total Regional Availability(Gross)		60823	36455	28344	755.98	31499

IV. Total Hydro Generation:

Regional Entities Hydro	11080	6092	829	68.18	2841
State Control Area Hydro	5368	1488	1419	37.19	1550
Total Regional Hydro	16448	7580	2248	105.38	4391

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	300	300	500	100	9.28	0.17	9.12
Gwalior-Agra (D/C)	1632	1775	1803	0	35.29	0.00	35.29
Zerda-Kankroli	19	-155	45	314	0.00	2.36	-2.36
Zerda-Bhinmal	131	-71	228	220	0.83	0.00	0.83
Malanpur-Auraiya	-64	-43	0	84	0.00	1.56	-1.56
Badod-Kota/Morak	-4	-41	38	142	0.00	1.32	-1.32
Mundra-Mohinderghar(HVDC)	1999	1000	2004	0	43.99	0.00	43.99
Sub Total WR	4013	2765			89.39	5.41	83.98
Pusauli Bypass	300	300	300	0	6.64	0.00	6.64
MZP- GKP (D/C)	62	236	315	72	4.33	0.00	4.33
Patna-Balia(D/C)	401	488	778	0	12.46	0.00	12.46
B'Sharif-Balia (D/C)	194	307	613	0	7.40	0.00	7.40
Pusauli-Balia	-77	-3	56	90	0.00	0.87	-0.87
Gaya-Fatehpur (765 Kv)	-82	48	230	32	1.25	0.00	1.25
Pusauli-Sahupuri	132	133	160	0	2.87	0.00	2.87
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-28	0	0	0.00	0.68	-0.68
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-56	113	388	66	2.89	0.00	2.89
Sub Total ER	843	1594			37.84	1.55	36.29
Total IR Exch	4856	4359			127.24	6.96	120.27

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
30.89	0.15	31.03	15.74	2.07	6.02	12.90	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
52.87	67.52	120.39	36.29	83.98	120.27	-16.58	16.46	-0.12

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	3.50	15.00	23.60	19.30	53.50	24.20	2.20

<----- 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				
50.59	18.01	49.73	8.48	50.12	0.29	0.12	50.47	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	01:28	401	09:27	0.0	0.0	0.0	0.0
Gorakhpur	400	422	14:04	403	18:57	0.0	0.0	20.7	0.0
Bareilly	400	427	23:56	404	08:48	0.0	0.0	40.9	0.0
Kanpur	400	422	23:55	401	09:07	0.0	0.0	0.5	0.0
Dadri	400	428	03:02	408	08:47	0.0	0.0	37.7	0.0
Ballabgarh	400	435	03:01	414	08:46	0.0	0.0	89.9	29.1
Bawana	400	432	03:01	412	08:47	0.0	0.0	67.4	6.9
Bassi	400	431	04:02	397	08:47	0.0	0.0	42.9	0.1
Hissar	400	421	03:02	398	08:47	0.0	0.0	1.2	0.0
Moga	400	421	01:27	400	09:08	0.0	0.0	3.6	0.0
Abdullapur	400	406	00:00	406	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	428	02:59	408	06:48	0.0	0.0	48.5	0.0
Kishenpur	400	416	01:26	395	11:38	0.0	0.0	0.0	0.0
Wagoora	400	409	11:46	375	18:39	5.3	69.9	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	778	00:00	717	05:29	2.1	19.1	0.0	0.0
Balia	765	776	00:00	776	00:00	0.0	0.0	0.0	0.0
Moga	765	800	01:29	759	09:08	0.0	0.0	0.0	0.0
Agra	765	817	23:55	765	08:47	0.0	0.0	46.1	0.0
Bhiwani	765	745	04:02	708	08:47	36.6	90.8	0.0	0.0
Unnao	765	761	01:30	731	08:48	0.0	10.3	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	491.31	778.28	485.63	602.63	196.69	587.91
Pong	426.72	384.05	406.29	379.44	113.15	360.50	404.06	320.26
Tehri	829.79	740.04	793.20	500.00	818.65	982.26	70.61	177.00
Koteshwar	612.50	598.50	610.51	4.82	610.00	4.69	177.00	184.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	80.14	77.50
Rihand	268.22	252.98	259.60	283.00	259.48	276.40	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	508.53	14.40	509.22	14.40	101.69	79.60

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

NIL

XII. Weather Conditions For 23.02.2014 :

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 : 23.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER