

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.02.2014
Date of Reporting : 25.02.2014

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
35777	1223	37000	50.05	26361	130	26491	50.24	761.1	36.04

* 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	41.85	9.66		51.51	41.05	41.67	0.62	93.18	0.00
Haryana	46.88	0.39		47.27	57.63	57.10	-0.53	104.37	0.33
Rajasthan	93.04	5.06	12.91	111.00	78.36	77.13	-1.23	188.13	0.29
Delhi	18.66			18.66	42.49	41.27	-1.23	59.92	0.06
UP	106.92	2.82	16.80	126.55	91.30	90.19	-1.11	216.74	33.59
Uttarakhand		8.93		8.93	22.81	23.61	0.81	32.54	0.07
HP		5.46		5.46	17.89	18.08	0.20	23.54	0.00
J & K		5.88	0.00	5.88	33.44	33.40	-0.04	39.27	1.70
Chandigarh				0.00	3.44	3.44	0.01	3.44	0.00
Total	307.34	38.19	29.71	375.25	388.40	385.89	-2.51	761.14	36.04

* 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	5059	0	25	-447	2973	0	-41	52	-5.56
Haryana	5516	0	-352	-238	3329	0	-207	-74	-6.92
Rajasthan	7591	0	-62	947	6577	0	-36	1013	34.04
Delhi	3126	13	74	-857	1343	0	29	-1488	-23.46
UP	9779	1110	71	425	8825	130	141	449	7.90
Uttarakhand	1652	0	50	545	1005	0	-34	468	12.18
HP	1085	0	-88	188	665	0	22	291	7.02
J&K	1785	100	-67	521	1562	0	18	609	11.26
Chandigarh	185	0	-5	0	83	0	-10	0	0.00
Total	35777	1223	-354	1084	26361	130	-118	1320	36.45

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

III. Regional Entities :

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

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	1930	2085	1459	42.40	1767	42.82	-0.42
Rihand I STPS	1000	945	1000	681	20.39	850	20.63	-0.23
Rihand II STPS	1000	975	1023	685	20.95	873	21.12	-0.16
Rihand III STPS	1000	485	511	346	10.68	445	10.71	-0.03
Dadri I STPS	840	689	720	509	13.85	577	14.27	-0.42
Dadri II STPS	980	870	852	680	17.51	729	17.81	-0.30
Unchahar I TPS	420	408	434	321	8.53	356	8.64	-0.11
Unchahar II TPS	420	406	434	308	7.91	330	8.04	-0.13
Unchahar III TPS	210	203	218	153	4.00	167	4.05	-0.05
ISTPP (Jhajjhar)	1500	1500	639	637	14.29	595	14.40	-0.11
Dadri GPS	830	841	407	275	8.25	344	8.35	-0.10
Anta GPS	419	423	274	195	5.88	245	5.82	0.06
Auraiya GPS	663	672	158	89	3.19	133	3.27	-0.07
Sub Total (A)	11282	10348	8755.26	6338.25	177.84	7410	179.91	-2.07
B. NPC								
NAPS	440	295	328	331	7.04	293	7.08	-0.05
RAPS- B	440	417	457	461	10.00	417	10.01	-0.01
RAPS- C	440	430	473	474	10.23	426	10.32	-0.09
Sub Total (B)	1320	1142	1258	1266	27.26	1136	27.41	-0.15
C. NHPC								
Chamera I HPS	540	540	540	0	2.96	123	2.95	0.00
Chamera II HPS	300	200	55	0	1.56	65	1.50	0.06
Chamera III HPS	231	154	158	0	0.71	30	0.72	-0.01
Bairasuil HPS	180	182	182	0	1.39	58	1.37	0.02
Salal-HPS	690	143	225	120	3.43	143	3.51	-0.07
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	182	303	105	4.31	180	4.39	-0.08
Uri-II HPS	180	103	187	77	2.81	117	2.46	0.35
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	255	269	0	2.36	99	2.60	-0.24
Sewa-II HPS	120	119	127	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	2047	302	22	898	21	0
D.NJPC								
Nathpa Jhakri	1500	1605	792	0	6.55	273	6.59	-0.04
Sub Total (D)	1500	1605	792	0	6.55	273	6.59	-0.04
E. THDC								
Tehri HPS	1000	876	876	0	6.98	291	7.00	-0.02
Koteshwar HPS	400	116	302	0	2.77	115	2.80	-0.03
Sub Total (E)	1400	992	1178	0	9.75	406	9.80	-0.05
F. BBMB								
Bhakra HPS	1497	760	1158	508	18.31	763	18.24	0.07
Dehar HPS	990	144	330	0	3.71	155	3.45	0.27
Pong HPS	396	222	306	120	5.64	235	5.34	0.30
Sub Total (F)	2883	1126	1794	628	27.66	1153	27.02	0.64
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	3.39	141	3.36	0.03
Malana Stg-II HPS	100	0	0	0	0.11	4	0.09	0.02
Shree Cement TPS	300	0	145	141	3.49	146	3.55	-0.05
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.21	-0.18
Sub Total (G)	1662	0	145	141	7.37	307	7.55	-0.18
H. Total Regional Entities (A-G)	24052	17090	15968	8675	277.97	11582	279.76	-1.79

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	950	810	19.35	806
	Guru Nanak Dev TPS(Bhatinda)	440	170	170	3.81	159
	Guru Hargobind Singh TPS(L.mbt)	920	967	743	18.69	779
	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	2087	1723	41.85	1744
	Total Hydro	1148	473	312	9.66	403
Total Punjab	5128	2560	2035	51.51	2146	
Haryana	Panipat TPS	1367	226	219	5.13	214
	DCRTPP (Yamuna nagar)	600	542	505	12.10	504
	Faridabad GPS (NTPC)	432	379	296	7.98	333
	RGTPP (khedar) (IPP)	1200	581	504	12.05	502
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	545	375	9.61	400
	Thermal (Total)	4944	2273	1899	46.88	1953
	Total Hydro	62	15	16	0.39	16
	Total Haryana	5006	2288	1915	47.27	1969
	Rajasthan	kota TPS	1240	1129	970	25.12
suratgarh TPS		1500	1303	1225	30.46	1269
Chabra TPS		750	201	569	11.72	488
Dholpur GPS		330	131	114	3.24	135
Ramgarh GPS		221	120	11	2.20	92
RAPS A (NPC)		300	175	175	4.15	173
Barsingsar (NLC)		250	205	204	4.84	202
Giral LTTPS		250	52	74	1.22	51
Rajwest LTTPS (IPP)		1080	0	0	0.00	0
VSLP LTTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	432	429	10.10	421
Thermal (Total)		7976	3748	3771	93.04	3876
Total Hydro		550	167	227	5.06	211
Wind power		2191	348	574	11.67	486
Biomass		91	32	32	0.76	32
Solar		201	5	0	0.49	20
Renewable/Others (Total)		2483	380	606	12.91	538
Total Rajasthan	11009	4295	4604	111.00	4625	
UP	Anpara TPS	1630	1104	1106	23.90	996
	Obra TPS	1288	319	319	6.90	288
	Paricha TPS	1140	685	737	15.40	642
	Panki TPS	210	75	70	1.50	63
	Harduaganj TPS	665	254	469	7.50	313
	Tanda TPS (NTPC)	440	398	399	9.62	401
	Roza TPS (IPP)	1200	810	558	14.64	610
	Anpara-C (IPP)	1200	1076	747	23.08	962
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	195	195	4.39	183
	Thermal (Total)	8223	4916	4600	106.92	4455
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	98	137	2.82	118
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5714	5437	126.55	5273
	Uttarakhand	Total Hydro	1303	478	221	8.93
Total Uttarakhand		1303	478	221	8.93	372
Delhi	Rajghat TPS	135	0	0	0.48	20
	Delhi Gas Turbine	282	84	82	1.97	82
	Pragati Gas Turbine	330	300	266	6.78	283
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.10	4
	Badarpur TPS (NTPC)	705	425	420	9.34	389
	Thermal (Total)	2232	809	768	18.66	777
	Total Delhi	2232	809	768	18.66	777
HP	Baspa HPS (IPP)	330	59	0	1.03	43
	Malana HPS (IPP)	86	0	0	0.20	8
	Other Hydro	589	218	113	4.23	176
	Total HP	1005	277	113	5.46	227
J & K	Baglihar HPS (IPP)	450	150	150	3.58	149
	Other Hydro	323	90	130	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	240	280	5.88	245
Total State Control Area Generation		36770	16661	15373	375.25	15635
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4895	3880	118.36	4932
Total Regional Availability(Gross)		60823	37524	27928	771.58	32149

IV. Total Hydro Generation:

Regional Entities Hydro	11080	5811	930	69.36	2890
State Control Area Hydro	5368	1748	1306	38.19	1591
Total Regional Hydro	16448	7559	2236	107.55	4481

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	100	500	0	9.70	0.00	9.70
Gwalior-Agra (D/C)	1375	1544	1863	0	35.34	0.00	35.34
Zerda-Kankroli	-8	-250	56	323	0.00	2.57	-2.57
Zerda-Bhinmal	93	-123	262	222	0.54	0.00	0.54
Malanpur-Auraiya	-92	-50	0	93	0.00	1.57	-1.57
Badod-Kota/Morak	13	-120	56	158	0.00	0.91	-0.91
Mundra-Mohinderghar(HVDC)	2000	1500	2004	0	46.61	0.00	46.61
Sub Total WR	3881	2601			92.19	5.06	87.13
Pusauli Bypass	300	300	300	0	7.21	0.00	7.21
MZP- GKP (D/C)	-33	171	286	88	3.33	0.00	3.33
Patna-Balia(D/C)	429	477	649	0	11.44	0.00	11.44
B'Sharni-Balia (D/C)	320	308	424	0	7.07	0.00	7.07
Pusauli-Balia	-35	-32	0	102	0.00	1.07	-1.07
Gaya-Fatehpur (765 Kv)	-34	-29	142	152	0.00	0.43	-0.43
Pusauli-Sahupuri	112	130	147	0	2.94	0.00	2.94
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-28	0	0	0.00	0.70	-0.70
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-15	-18	226	184	1.43	0.00	1.43
Sub Total ER	1014	1279			33.43	2.20	31.23
Total IR Exch	4895	3880			125.61	7.25	118.36

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
33.95	0.13	34.09	15.79	2.31	2.23	12.41	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
52.18	74.67	126.85	31.23	87.13	118.36	-20.95	12.46	-8.49

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	0.60	3.30	22.50	39.10	16.10	58.40	16.50	0.52

<----- 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				
50.63	0.00	49.71	17.18	50.09	0.26	0.14	50.41	49.96

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	00:51	398	11:39	0.0	0.0	0.0	0.0
Gorakhpur	400	424	23:33	407	07:38	0.0	0.0	10.8	0.0
Bareilly	400	428	00:02	392	08:23	0.0	0.0	29.8	0.0
Kanpur	400	422	01:03	401	06:24	0.0	0.0	1.5	0.0
Dadri	400	428	00:01	406	06:43	0.0	0.0	24.4	0.0
Ballabgarh	400	435	00:00	413	06:43	0.0	0.0	65.8	18.0
Bawana	400	432	00:01	409	06:43	0.0	0.0	41.4	0.5
Bassi	400	428	03:46	398	08:46	0.0	0.0	23.8	0.0
Hissar	400	419	00:00	396	06:53	0.0	0.0	0.0	0.0
Moga	400	420	00:01	398	06:53	0.0	0.0	0.0	0.0
Abdullapur	400	424	23:50	406	00:00	0.0	0.0	1.1	0.0
Nalagarh	400	428	00:01	409	06:29	0.0	0.0	37.0	0.0
Kishenpur	400	415	13:02	391	09:12	0.0	0.0	0.0	0.0
Wagoora	400	402	13:02	370	19:22	29.0	56.5	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	771	00:01	661	06:16	5.2	7.7	0.0	0.0
Balia	765	776	00:00	768	12:24	0.0	0.0	0.0	0.0
Moga	765	799	00:01	756	06:53	0.0	0.0	0.0	0.0
Agra	765	810	00:02	737	05:54	0.0	0.1	18.1	0.0
Bhiwani	765	807	13:03	706	06:53	20.8	42.8	3.7	0.0
Unnao	765	765	17:30	727	08:47	0.2	16.3	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	491.61	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 24.02.2014 :

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 : 24.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER