

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.03.2014
Date of Reporting : 24.03.2014

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
31749	1545	33294	49.94	30321	465	30786	50.01	752.3	29.94

* 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:

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	40.28	11.81		52.09	44.72	44.59	-0.14	96.68	0.00
Haryana	37.52	0.55		38.07	63.39	60.54	-2.85	98.61	0.00
Rajasthan	108.58	1.37	9.46	119.40	57.03	55.30	-1.73	174.70	0.25
Delhi	16.07			16.07	42.45	39.39	-3.06	55.46	0.00
UP	116.82	3.51	14.40	134.73	101.82	102.20	0.38	236.93	26.71
Uttarakhand		8.05		8.05	20.13	20.98	0.85	29.03	1.17
HP		9.16		9.16	14.45	14.57	0.12	23.73	0.11
J & K		10.17	0.00	10.17	25.81	23.99	-1.82	34.16	1.70
Chandigarh				0.00	0.00	2.96	2.96	2.96	0.00
Total	319.27	44.62	23.86	387.75	369.79	364.51	-5.28	752.26	29.94

* 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	4424	0	7	-300	3657	0	46	-303	-4.31	
Haryana	4478	0	-221	93	3964	0	-184	138	1.94	
Rajasthan	6785	0	-111	708	7270	0	37	766	17.93	
Delhi	2774	0	-39	-793	1687	0	-35	-1187	-23.03	
UP	9302	1445	-172	791	10351	465	373	608	13.20	
Uttarakhand	1406	0	69	447	1161	0	159	350	9.01	
HP	963	0	17	-94	821	0	73	23	0.57	
J&K	1463	100	-72	123	1319	0	-71	242	4.40	
Chandigarh	154	0	154	0	91	0	91	0	0.00	
Total	31749	1545	-368	974	30321	465	489	637	19.70	

* 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	1435	1303	1437	32.58	1357	32.40	0.18
Rihand I STPS	1000	904	851	870	20.14	839	20.18	-0.04
Rihand II STPS	1000	975	877	969	22.07	920	22.02	0.05
Rihand III STPS	1000	485	465	465	10.28	428	10.00	0.28
Dadri I STPS	840	815	702	641	14.62	609	14.68	-0.07
Dadri II STPS	980	980	823	723	18.78	782	19.37	-0.60
Unchahar I TPS	420	408	385	343	8.28	345	8.39	-0.12
Unchahar II TPS	420	406	353	308	7.43	310	7.53	-0.10
Unchahar III TPS	210	203	163	162	3.74	156	3.80	-0.06
ISTPP (Jhajjhar)	1500	1500	342	496	8.84	368	8.98	-0.14
Dadri GPS	830	825	392	387	8.96	373	9.05	-0.09
Anta GPS	419	408	244	250	5.83	243	5.87	-0.04
Auraiya GPS	663	657	150	159	3.55	148	3.61	-0.05
Sub Total (A)	11282	10001	7050	7210	165.09	6879	165.90	-0.80
B. NPC								
NAPS	440	290	326	327	6.99	291	6.00	0.99
RAPS- B	440	415	453	459	9.86	411	9.96	-0.10
RAPS- C	440	430	466	474	10.17	424	10.32	-0.15
Sub Total (B)	1320	1135	1245	1260	27.01	1126	26.28	0.73
C. NHPC								
Chamera I HPS	540	540	540	0	8.64	360	8.60	0.04
Chamera II HPS	300	300	301	0	2.33	97	2.30	0.03
Chamera III HPS	231	231	223	0	1.26	52	1.25	0.01
Bairasuil HPS	180	122	122	120	2.97	124	2.93	0.05
Salal-HPS	690	345	404	327	8.37	349	8.29	0.08
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	467	476	477	11.34	473	11.22	0.12
Uri-II HPS	240	180	190	185	4.40	183	4.32	0.08
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	401	0	2.87	120	2.80	0.07
Sewa-II HPS	120	122	125	127	2.99	125	2.93	0.06
Parbati 3	260	0	0	0	0.82	34	0.82	0.00
Sub Total (C)	3805	2695	2782	1236	46	1916	45	1
D. NJPC								
Nathpa Jhakri	1500	1605	783	0	7.53	314	7.40	0.13
Sub Total (D)	1500	1605	783	0	7.53	314	7.40	0.13
E. THDC								
Tehri HPS	1000	700	602	0	7.17	299	7.30	-0.13
Koteshwar HPS	400	125	302	0	3.16	131	3.10	0.06
Sub Total (E)	1400	825	904	0	10.32	430	10.40	-0.08
F. BBMB								
Bhakra HPS	1497	641	1143	367	16.07	670	15.39	0.68
Dehar HPS	990	216	330	145	5.25	219	5.18	0.07
Pong HPS	396	219	306	126	5.41	225	5.26	0.15
Sub Total (F)	2883	1076	1779	638	26.73	1114	25.83	0.90
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	48	0	0.35	15	0.35	0.01
KWHEP HPS(IPP)	1000	0	227	0	4.07	170	4.08	-0.01
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	300	0	166	171	4.12	172	4.11	0.00
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.27	-0.25
Sub Total (G)	1662	0	441	171	8.56	357	8.81	-0.25
H. Total Regional Entities (A-G)	23852	17337	14984	10515	291.25	12135	289.25	2.00

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	660	780	15.37	640
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.95	81
	Guru Hargobind Singh TPS(L.mbt)	920	663	926	16.17	674
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	281	282	6.80	283
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1694	2078	40.28	1678
	Total Punjab	5128	2230	2608	52.09	2170
Haryana	Panipat TPS	1367	225	229	5.18	216
	DCRTPP (Yamuna nagar)	600	554	506	12.20	508
	Faridabad GPS (NTPC)	432	288	390	8.56	357
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	554	383	11.58	482
	Thermal (Total)	4944	1621	1508	37.52	1563
	Total Haryana	5006	1644	1531	38.07	1586
Rajasthan	kota TPS	1240	910	896	21.74	906
	suratgarh TPS	1500	1214	1282	29.35	1223
	Chabra TPS	750	383	364	9.88	412
	Dholpur GPS	330	107	127	3.20	133
	Ramgarh GPS	221	74	89	2.08	87
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingsar (NLC)	250	201	201	4.74	197
	Giral LTTPS	250	70	70	1.48	62
	Rajwest LTTPS (IPP)	1080	157	137	4.40	184
	VSLP LTTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1072	992	27.58	1149
	Thermal (Total)	7976	4363	4333	108.58	4524
	Total Hydro	550	39	72	1.37	57
	Wind power	2191	384	744	8.53	355
	Biomass	91	25	25	0.60	25
Solar	201	0	0	0.33	14	
Renewable/Others (Total)	2483	409	769	9.46	394	
Total Rajasthan	11009	4811	5174	119.40	4975	
UP	Anpara TPS	1630	1464	1611	34.30	1429
	Obra TPS	1288	283	268	5.80	242
	Paricha TPS	1140	703	650	13.20	550
	Panki TPS	210	90	0	0.80	33
	Harduaganj TPS	665	226	242	5.10	213
	Tanda TPS (NTPC)	440	403	401	9.73	405
	Roza TPS (IPP)	1200	756	1125	23.66	986
	Anpara-C (IPP)	1200	788	806	19.16	798
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	171	283	5.07	211
	Thermal (Total)	8223	4884	5386	116.82	4867
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	123	168	3.51	146
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5607	6154	134.73	5614
Uttarakhand	Total Hydro	1303	324	261	8.05	335
	Total Uttarakhand	1303	324	261	8.05	335
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	77	77	1.87	78
	Pragati Gas Turbine	330	268	268	6.61	275
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	350	345	7.59	316
	Thermal (Total)	2232	695	690	16.07	670
Total Delhi	2232	695	690	16.07	670	
HP	Baspa HPS (IPP)	330	31	0	0.96	40
	Malana HPS (IPP)	86	45	0	0.27	11
	Other Hydro	589	300	305	7.94	331
	Total HP	1005	376	305	9.16	382
J & K	Baqilhar HPS (IPP)	450	416	290	7.87	328
	Other Hydro	323	73	132	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	489	422	10.17	424
Total State Control Area Generation		36770	16176	17145	387.75	16156
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4045	3974	92.45	3852
Total Regional Availability(Gross)		60623	35205	31634	771.44	32143

IV. Total Hydro Generation:

Regional Entities Hydro	10880	6523	1874	95.00	3958
State Control Area Hydro	5368	1910	1781	44.62	1859
Total Regional Hydro	16248	8433	3655	139.62	5818

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	400	400	500	100	8.05	0.01	8.04
Gwalior-Agra (D/C)	1329	1471	1766	0	28.30	0.00	28.30
Zerda-Kankroli	-210	-377	0	466	0.00	7.14	-7.14
Zerda-Bhinmal	-134	-322	0	424	0.00	4.67	-4.67
Malanpur-Auraiya	-92	-58	0	112	0.00	2.09	-2.09
Badod-Kota/Morak	-100	-143	0	208	0.00	2.41	-2.41
Mundra-Mohindergarh(HVDC)	2002	2004	2005	0	48.33	0.00	48.33
Sub Total WR	3195	2975			84.68	16.32	68.35
Pusauli Bypass	300	100	300	0	6.06	0.00	6.06
MZP- GKP (D/C)	134	218	256	0	3.78	0.00	3.78
Patna-Balia(D/C)	247	460	578	0	9.54	0.00	9.54
B'Sharni-Balia (D/C)	111	105	194	0	2.79	0.00	2.79
Pusauli-Balia	-110	-86	0	117	0.00	2.11	-2.11
Gaya-Fatehpur (765 Kv)	14	-18	39	55	0.00	0.17	-0.17
Pusauli-Sahupuri	101	147	149	0	3.16	0.00	3.16
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-28	-25	0	32	0.00	0.56	-0.56
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	81	98	155	4	1.60	0.00	1.60
Sub Total ER	850	999			26.93	2.84	24.09
Total IR Exch	4045	3974			111.61	19.16	92.45

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
28.43	0.24	28.67	-5.26	8.08	10.92	-0.59	0.00	0.00
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
34.33	62.88	97.21	24.09	68.35	92.45	-10.23	5.47	-4.76

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	0.20	1.90	15.40	50.70	54.90	15.80	28.40	1.30	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				
50.28	7.03	49.65	12.10	50.00	0.10	0.09	50.26	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	410	22:49	400	08:23	0.0	0.0	0.0	0.0
Gorakhpur	400	426	18:02	412	09:17	0.0	0.0	40.6	0.0
Bareilly	400	422	22:52	403	08:17	0.0	0.0	1.4	0.0
Kanpur	400	417	22:56	402	08:13	0.0	0.0	0.0	0.0
Dadri	400	424	22:45	410	08:23	0.0	0.0	16.4	0.0
Ballabgarh	400	432	22:58	415	08:18	0.0	0.0	72.8	0.8
Bawana	400	429	23:46	412	08:17	0.0	0.0	61.1	0.0
Bassi	400	428	23:47	401	08:13	0.0	0.0	35.6	0.0
Hissar	400	420	23:46	399	08:14	0.0	0.0	0.0	0.0
Moga	400	420	23:58	400	08:18	0.0	0.0	0.0	0.0
Abdullapur	400	426	15:08	407	05:44	0.0	0.0	29.2	0.0
Nalagarh	400	424	23:57	406	09:13	0.0	0.0	17.5	0.0
Kishenpur	400	416	15:03	395	19:20	0.0	0.0	0.0	0.0
Wagoora	400	402	14:34	366	19:28	19.3	55.5	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	22:56	739	08:17	0.0	2.8	0.0	0.0
Balia	765	773	18:02	746	09:12	0.0	0.0	0.0	0.0
Moga	765	799	23:59	762	08:17	0.0	0.0	0.0	0.0
Agra	765	804	22:58	771	08:17	0.0	0.0	3.4	0.0
Bhiwani	765	810	23:48	776	08:18	0.0	0.0	18.2	0.0
Unnao	765	757	22:46	730	08:18	0.0	31.9	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	484.60	577.33	483.04	536.06	126.09	550.17
Pong	426.72	384.05	403.52	304.55	401.39	252.05	89.20	315.65
Tehri	829.79	740.04	788.45	425.58	818.65	982.26	48.18	195.00
Koteshwar	612.50	598.50	610.35	4.69	609.60	4.21	195.00	198.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	81.53	107.03
Rihand	268.22	252.98	259.45	274.80	258.99	250.70	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	508.60	144.00	508.99	144.00	105.85	120.77

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

1. Due to Rains in Punjab , Haryana , Raj , West UP, NCR , load crash of 5000 MW.

XII. Weather Conditions For 23.03.2014 :

1. Rains in Punjab , Haryana , Raj , West UP & NCR.

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 : 23.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER