

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.03.2014
Date of Reporting : 15.03.2014

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
33646	2275	35921	50.01	27367	-370	26997	50.05	747.9	45.64

* 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	44.86	10.43		55.29	42.04	42.26	0.22	97.55	0.00
Haryana	29.47	0.60		30.07	62.68	61.61	-1.06	91.68	0.00
Rajasthan	117.88	4.12	3.57	125.58	61.55	60.30	-1.26	185.87	0.24
Delhi	17.38			17.38	42.25	41.43	-0.82	58.81	0.00
UP	117.79	3.52	14.40	135.70	89.66	90.00	0.34	225.71	43.10
Uttarakhand		9.04		9.04	21.67	23.02	1.35	32.06	0.60
HP		6.06		6.06	17.23	17.54	0.31	23.60	0.00
J & K		7.80	0.00	7.80	23.95	21.53	-2.42	29.32	1.70
Chandigarh				0.00	3.27	3.27	0.00	3.27	0.00
Total	327.38	41.56	17.97	386.92	364.31	360.96	-3.35	747.87	45.64

* 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	4968	0	31	-451	3442	0	75	138	-6.46	
Haryana	4449	0	-190	43	2953	0	-42	146	3.39	
Rajasthan	7275	0	-322	616	7011	0	69	698	23.43	
Delhi	3039	0	149	-643	1395	0	-117	-1319	-20.78	
UP	9887	2100	35	749	9385	-370	-141	666	13.90	
Uttarakhand	1558	75	160	460	1098	0	79	395	11.59	
HP	943	0	-87	101	752	0	61	175	5.30	
J&K	1352	100	-196	271	1249	0	-138	241	5.16	
Chandigarh	174	0	-15	0	83	0	-5	0	0.00	
Total	33646	2275	-435	1147	27367	-370	-159	1140	35.54	

* 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	1430	1550	1375	33.87	1411	33.56	0.30
Rihand I STPS	1000	945	896	735	20.22	842	19.99	0.23
Rihand II STPS	1000	975	917	746	20.77	866	20.49	0.28
Rihand III STPS	1000	478	499	407	10.63	443	10.28	0.35
Dadri I STPS	840	815	705	597	14.96	624	15.52	-0.55
Dadri II STPS	980	980	871	724	19.14	797	19.81	-0.67
Unchahar I TPS	420	408	430	323	8.14	339	8.15	-0.01
Unchahar II TPS	420	406	406	311	7.64	318	7.65	-0.01
Unchahar III TPS	210	203	188	156	3.75	156	3.76	-0.01
ISTPP (Jhajjhar)	1500	1500	377	344	9.14	381	9.28	-0.14
Dadri GPS	830	830	193	203	4.52	188	4.75	-0.24
Anta GPS	419	417	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	663	156	163	3.68	153	3.76	-0.08
Sub Total (A)	11282	10049	7188	6084	156.45	6519	156.99	-0.54
B. NPC								
NAPS	440	135	156	160	3.22	134	3.24	-0.02
RAPS- B	440	418	459	461	9.95	414	10.03	-0.09
RAPS- C	440	430	473	478	10.25	427	10.32	-0.07
Sub Total (B)	1320	983	1088	1099	23.42	976	23.59	-0.18
C. NHPC								
Chamera I HPS	540	540	540	0	4.98	207	4.95	0.03
Chamera II HPS	300	300	302	0	2.05	86	2.00	0.05
Chamera III HPS	231	231	143	0	0.99	41	0.95	0.04
Bairasuil HPS	180	182	182	121	2.75	115	2.80	-0.04
Salal-HPS	690	408	449	444	9.94	414	9.79	0.15
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	451	476	472	11.07	461	10.72	0.35
Uri-II HPS	180	180	187	187	4.46	186	4.32	0.14
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	404	0	2.46	102	2.40	0.06
Sewa-II HPS	120	122	126	127	3.00	125	2.93	0.07
Parbati 3	520	0	0	0	0.00	0	0.00	0.00
Sub Total (C)	4005	2800	2809	1351	42	1738	41	1
D. NJPC								
Nathpa Jhakri	1500	1605	720	150	6.46	269	6.44	0.01
Sub Total (D)	1500	1605	720	150	6.46	269	6.44	0.01
E. THDC								
Tehri HPS	1000	624	631	0	7.56	315	7.50	0.06
Koteshwar HPS	400	125	301	0	3.02	126	3.00	0.02
Sub Total (E)	1400	749	932	0	10.58	441	10.50	0.08
F. BBMB								
Bhakra HPS	1497	633	1139	371	15.96	665	15.20	0.76
Dehar HPS	990	138	330	0	3.84	160	3.32	0.53
Pong HPS	396	178	244	120	4.39	183	4.26	0.13
Sub Total (F)	2883	949	1713	491	24.19	1008	22.78	1.41
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.35	14	0.34	0.01
KWHEP HPS(IPP)	1000	0	300	0	3.49	145	3.48	0.01
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	300	0	257	225	6.12	255	6.18	-0.06
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.34	-0.32
Sub Total (G)	1662	0	557	225	9.97	416	10.34	-0.37
H. Total Regional Entities (A-G)	24052	17135	15007	9400	272.77	11365	271.50	1.27

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	840	680	17.12	714
	Guru Nanak Dev TPS(Bhatinda)	440	110	90	1.71	71
	Guru Hargobind Singh TPS(L.mbt)	920	685	580	14.53	605
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	530	282	11.50	479
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2165	1632	44.86	1869
	Total Hydro	1148	440	447	10.43	434
	Total Punjab	5128	2605	2079	55.29	2304
Haryana	Panipat TPS	1367	210	209	5.05	211
	DCRTPP (Yamuna nagar)	600	275	252	6.15	256
	Faridabad GPS (NTPC)	432	361	279	7.81	325
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	567	371	10.45	436
	Thermal (Total)	4944	1413	1111	29.47	1228
	Total Hydro	62	25	24	0.60	25
	Total Haryana	5006	1438	1135	30.07	1253
Rajasthan	kota TPS	1240	1088	1000	25.46	1061
	suratgarh TPS	1500	1208	1114	28.51	1188
	Chabra TPS	750	604	555	14.70	612
	Dholpur GPS	330	85	105	2.33	97
	Ramgarh GPS	221	116	116	2.85	119
	RAPS A (NPC)	300	175	175	4.11	171
	Barsingar (NLC)	250	199	197	4.73	197
	Giral LTPS	250	71	44	1.32	55
	Rajwest LTPS (IPP)	1080	165	212	4.75	198
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1187	1190	29.12	1213
	Thermal (Total)	7976	4898	4708	117.88	4912
	Total Hydro	550	148	112	4.12	172
	Wind power	2191	39	98	2.31	96
	Biomass	91	25	25	0.60	25
	Solar	201	8	0	0.66	27
	Renewable/Others (Total)	2483	64	123	3.57	149
	Total Rajasthan	11009	5110	4943	125.58	5232
UP	Anpara TPS	1630	999	998	23.10	963
	Obra TPS	1288	467	440	11.10	463
	Paricha TPS	1140	548	489	12.00	500
	Panki TPS	210	95	86	2.10	88
	Harduaganj TPS	665	380	428	9.60	400
	Tanda TPS (NTPC)	440	399	401	9.35	390
	Roza TPS (IPP)	1200	1125	1107	23.84	993
	Anpara-C (IPP)	1200	1082	1078	24.62	1026
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	85	85	2.08	86
	Thermal (Total)	8223	5180	5112	117.79	4908
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	164	164	3.52	147
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5944	5876	135.70	5654
	Uttarakhand	Total Hydro	1303	435	304	9.04
Total Uttarakhand		1303	435	304	9.04	377
Delhi	Rajghat TPS	135	52	52	1.39	58
	Delhi Gas Turbine	282	81	84	1.92	80
	Pragati Gas Turbine	330	264	269	6.57	274
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	340	350	7.51	313
	Thermal (Total)	2232	737	755	17.38	724
	Total Delhi	2232	737	755	17.38	724
HP	Baspa HPS (IPP)	330	27	0	0.72	30
	Malana HPS (IPP)	86	17	0	0.21	9
	Other Hydro	589	220	141	5.13	214
	Total HP	1005	264	141	6.06	253
J & K	Baglihar HPS (IPP)	450	298	290	5.50	229
	Other Hydro	323	73	132	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	371	422	7.80	325
Total State Control Area Generation		36770	16904	15655	386.92	16122
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3794	2832	101.68	4237
Total Regional Availability(Gross)		60823	35705	27887	761.37	31724

IV. Total Hydro Generation:

Regional Entities Hydro	11080	6474	1992	86.76	3615
State Control Area Hydro	5368	1847	1614	41.56	1732
Total Regional Hydro	16448	8321	3606	128.32	5347

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)	1106	1183	1834	0	36.32	0.00	36.32
Zerda-Kankroli	-217	-384	0	407	0.00	5.35	-5.35
Zerda-Bhinmal	-109	-255	70	292	0.00	2.46	-2.46
Malanpur-Auraiya	-103	-88	0	103	0.00	1.29	-1.29
Badod-Kota/Morak	-70	-105	22	144	0.00	1.32	-1.32
Mundra-Mohindergarh(HVDC)	1802	1503	2003	0	37.07	0.00	37.07
Sub Total WR	2909	1954			83.09	10.42	72.67
Pusauli Bypass	300	300	300	0	7.25	0.00	7.25
MZP- GKP (D/C)	25	113	225	0	3.34	0.00	3.34
Patna-Balia(D/C)	405	342	658	0	11.36	0.00	11.36
B'Sharif-Balia (D/C)	260	111	479	0	6.77	0.00	6.77
Pusauli-Balia	-36	-104	18	113	0.00	0.90	-0.90
Gaya-Fatehpur (765 Kv)	-104	-23	28	170	0.00	1.10	-1.10
Pusauli-Sahupuri	122	140	0	147	2.95	0.00	2.95
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-28	-25	0	32	0.00	0.62	-0.62
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-59	24	88	170	0.00	0.05	-0.05
Sub Total ER	885	878			31.67	2.66	29.01
Total IR Exch	3794	2832			114.76	13.08	101.68

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
33.60	0.10	33.70	8.36	7.31	6.33	6.07	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
48.38	59.92	108.31	29.01	72.67	101.68	-19.38	12.75	-6.63

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	0.80	12.40	43.80	54.50	16.70	33.10	2.50	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				
50.29	16.01	49.65	6.12	50.01	0.09	0.09	50.20	49.87

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	412	01:59	401	16:27	0.0	0.0	0.0	0.0
Gorakhpur	400	427	20:56	409	18:14	0.0	0.0	17.3	0.0
Bareilly	400	421	01:59	404	06:56	0.0	0.0	1.5	0.0
Kanpur	400	418	03:36	405	06:10	0.0	0.0	0.0	0.0
Dadri	400	425	03:18	407	06:42	0.0	0.0	19.4	0.0
Ballabgarh	400	431	03:17	413	06:10	0.0	0.0	65.6	1.7
Bawana	400	430	03:36	409	06:28	0.0	0.0	39.1	0.0
Bassi	400	427	04:01	400	06:53	0.0	0.0	21.5	0.0
Hissar	400	418	03:36	396	06:25	0.0	0.0	0.0	0.0
Moga	400	419	03:36	397	06:38	0.0	0.0	0.0	0.0
Abdullapur	400	429	23:56	403	06:24	0.0	0.0	37.4	0.0
Nalagarh	400	428	02:31	404	18:47	0.0	0.0	23.3	0.0
Kishenpur	400	417	02:56	397	06:33	0.0	0.0	0.0	0.0
Wagoora	400	398	19:24	376	22:07	42.3	99.6	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	776	13:00	743	06:13	0.0	0.0	0.0	0.0
Balia	765	773	05:04	746	09:23	0.0	0.0	0.0	0.0
Moga	765	797	03:36	757	06:41	0.0	0.0	0.0	0.0
Agra	765	808	03:35	773	06:56	0.0	0.0	27.1	0.0
Bhiwani	765	810	03:36	770	06:54	0.0	0.0	26.5	0.0
Unnao	765	754	00:03	746	00:00	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	486.98	644.48	484.64	577.33	197.74	529.95
Pong	426.72	384.05	404.51	328.16	402.75	281.22	118.34	286.85
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:

XII. Weather Conditions For 14.03.2014 :

1. Normal Weather.

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 : 14.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER