

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.03.2014
Date of Reporting : 19.03.2014

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
31362	1850	33212	0.00	21519	0	21519	50.47	677.2	23.36

* 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	26.56	8.50		35.06	39.50	37.55	-1.95	72.61	0.00
Haryana	28.80	0.50		29.30	60.30	60.60	0.30	89.89	0.13
Rajasthan	96.78	5.05	5.03	106.86	56.40	57.54	1.14	164.39	0.00
Delhi	14.05			14.05	39.90	38.23	-1.67	52.28	0.05
UP	118.21	3.26	14.40	135.88	89.80	87.04	-2.76	222.91	21.48
Uttarakhand		10.80		10.80	15.20	13.87	-1.33	24.67	0.00
HP		8.63		8.63	10.50	8.75	-1.75	17.38	0.00
J & K		9.30	0.00	9.30	25.00	20.55	-4.45	29.85	1.70
Chandigarh				0.00	3.40	3.20	-0.20	3.20	0.00
Total	284.40	46.04	19.43	349.87	340.00	327.32	-12.68	677.19	23.36

* 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	4317	0	2284	-625	1569	0	-309	-221	-9.51	
Haryana	4367	0	3000	81	2620	0	-37	5	-2.08	
Rajasthan	6594	0	2155	424	5575	0	26	620	19.38	
Delhi	2661	0	2004	-827	1351	0	-152	-1235	-22.68	
UP	9309	1750	3547	850	8423	0	-125	670	14.94	
Uttarakhand	1462	0	917	290	685	0	-156	269	7.43	
HP	858	0	491	-149	304	0	-10	-176	-0.49	
J&K	1619	100	1193	130	912	0	-440	247	4.41	
Chandigarh	176	0	176	0	80	0	80	0	0.00	
Total	31362	1850	15767	174	21519	0	-1122	180	11.41	

* 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	1537	1088	30.73	1280	31.00	-0.27
Rihand I STPS	1000	731	461	689	14.08	587	14.20	-0.12
Rihand II STPS	1000	975	930	684	19.46	811	19.61	-0.14
Rihand III STPS	1000	485	506	340	9.66	402	9.50	0.16
Dadri I STPS	840	815	619	607	14.12	588	14.38	-0.26
Dadri II STPS	980	980	844	715	17.88	745	18.42	-0.55
Unchahar I TPS	420	371	209	299	6.25	261	6.52	-0.26
Unchahar II TPS	420	406	310	300	6.71	280	6.83	-0.12
Unchahar III TPS	210	203	155	147	3.35	140	3.41	-0.06
ISTPP (Jhajjhar)	1500	1500	353	339	8.55	356	8.14	0.41
Dadri GPS	830	830	185	146	3.95	165	4.13	-0.18
Anta GPS	419	411	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	663	103	126	3.01	125	3.08	-0.07
Sub Total (A)	11282	9804	6212	5480	137.75	5739	139.20	-1.46
B. NPC								
NAPS	440	182	302	300	6.32	263	6.00	0.32
RAPS- B	440	414	457	456	9.90	412	9.94	-0.04
RAPS- C	440	430	472	474	10.21	425	10.32	-0.11
Sub Total (B)	1320	1026	1231	1230	26.42	1101	26.26	0.16
C. NHPC								
Chamera I HPS	540	540	540	0	5.67	236	5.70	-0.04
Chamera II HPS	300	300	302	0	3.74	156	3.70	0.04
Chamera III HPS	231	231	224	0	1.87	78	1.85	0.02
Bairasuil HPS	180	182	182	150	4.09	170	4.37	-0.28
Salal-HPS	690	507	569	438	12.14	506	12.17	-0.03
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	418	427	460	10.05	419	10.04	0.02
Uri-II HPS	180	170	186	181	4.18	174	4.08	0.10
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	401	0	4.53	189	4.40	0.13
Sewa-II HPS	120	122	127	118	2.97	124	2.93	0.04
Parbati 3	520	0	0	0	0.00	0	0.00	0.00
Sub Total (C)	4005	2857	2958	1347	49	2051	49	0
D. NJPC								
Nathpa Jhakri	1500	1605	783	150	8.28	345	7.96	0.33
Sub Total (D)	1500	1605	783	150	8.28	345	7.96	0.33
E. THDC								
Tehri HPS	1000	618	617	0	7.26	303	7.30	-0.04
Koteshwar HPS	400	125	100	0	2.96	123	3.00	-0.04
Sub Total (E)	1400	743	717	0	10.22	426	10.30	-0.08
F. BBMB								
Bhakra HPS	1497	655	1137	363	15.78	658	15.73	0.05
Dehar HPS	990	352	495	140	8.77	365	8.45	0.32
Pong HPS	396	198	244	64	4.77	199	4.75	0.02
Sub Total (F)	2883	1205	1876	567	29.32	1222	28.92	0.40
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	70	0	0.55	23	0.54	0.01
KWHEP HPS(IPP)	1000	0	300	0	4.26	177	3.84	0.42
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	300	0	262	225	5.98	249	6.05	-0.07
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.33	-0.31
Sub Total (G)	1662	0	632	225	10.82	451	10.76	0.06
H. Total Regional Entities (A-G)	24052	17240	14409	8999	272.04	11335	272.63	-0.59

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	530	300	9.27	386
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.90	79
	Guru Hargobind Singh TPS(L.mbt)	920	591	323	10.20	425
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	282	276	5.19	216
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1493	989	26.56	1107
	Total Hydro	1148	504	25	8.50	354
	Total Punjab	5128	1997	1014	35.06	1461
Haryana	Panipat TPS	1367	222	213	5.15	215
	DCRTPP (Yamuna nagar)	600	280	254	6.15	256
	Faridabad GPS (NTPC)	432	361	281	7.28	303
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	485	370	10.21	425
	Thermal (Total)	4944	1348	1118	28.80	1200
	Total Hydro	62	20	25	0.50	21
	Total Haryana	5006	1368	1143	29.30	1221
	Rajasthan	kota TPS	1240	672	623	15.75
suratgarh TPS		1500	1215	1029	27.73	1155
Chabra TPS		750	369	349	8.32	347
Dholpur GPS		330	90	0	1.23	51
Ramgarh GPS		221	117	88	2.89	120
RAPS A (NPC)		300	175	175	4.05	169
Barsingar (NLC)		250	202	202	4.76	198
Giral LTPS		250	63	83	1.35	56
Rajwest LTPS (IPP)		1080	195	131	4.38	182
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1161	872	26.33	1097
Thermal (Total)		7976	4259	3552	96.78	4033
Total Hydro		550	233	85	5.05	210
Wind power		2191	125	248	4.13	172
Biomass		91	22	22	0.54	22
Solar		201	0	0	0.37	15
Renewable/Others (Total)		2483	147	270	5.03	210
Total Rajasthan	11009	4639	3907	106.86	4452	
UP	Anpara TPS	1630	1436	1136	33.60	1400
	Obra TPS	1288	321	493	10.30	429
	Paricha TPS	1140	687	469	12.90	538
	Panki TPS	210	90	81	2.10	88
	Harduaganj TPS	665	367	345	8.40	350
	Tanda TPS (NTPC)	440	393	319	8.35	348
	Roza TPS (IPP)	1200	756	774	18.38	766
	Anpara-C (IPP)	1200	887	665	22.27	928
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	85	85	1.92	80
	Thermal (Total)	8223	5022	4367	118.21	4925
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	139	147	3.26	136
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5761	5114	135.88	5661
	Uttarakhand	Total Hydro	1303	545	346	10.80
Total Uttarakhand		1303	545	346	10.80	450
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	74	56	1.42	59
	Pragati Gas Turbine	330	282	247	5.17	216
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	340	350	7.46	311
	Thermal (Total)	2232	696	653	14.05	586
	Total Delhi	2232	696	653	14.05	586
HP	Baspa HPS (IPP)	330	30	30	1.33	55
	Malana HPS (IPP)	86	34	0	0.30	12
	Other Hydro	589	303	134	7.01	292
	Total HP	1005	367	164	8.63	360
J & K	Baglihar HPS (IPP)	450	292	290	7.00	292
	Other Hydro	323	73	132	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	365	422	9.30	387
Total State Control Area Generation		36770	15738	12763	349.87	14578
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3202	660	67.83	2826
Total Regional Availability(Gross)		60823	33349	22422	689.74	28739

IV. Total Hydro Generation:

Regional Entities Hydro	11080	6704	2064	101.87	4244
State Control Area Hydro	5368	2173	1214	46.04	1918
Total Regional Hydro	16448	8877	3278	147.91	6163

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	-50	500	250	4.57	1.10	3.47
Gwalior-Agra (D/C)	1060	751	1511	0	26.25	0.00	26.25
Zerda-Kankroli	-247	-291	0	379	0.00	6.16	-6.16
Zerda-Bhinmal	-178	-196	0	309	0.00	3.76	-3.76
Malanpur-Auraiya	-86	-76	0	124	0.00	2.06	-2.06
Badod-Kota/Morak	-44	-129	0	-155	0.00	1.12	-1.12
Mundra-Mohinderghar(HVDC)	1999	800	2006	0	42.46	0.00	42.46
Sub Total WR	2804	809			73.28	14.20	59.08
Pusauli Bypass	300	300	300	0	7.17	0.00	7.17
MZP- GKP (D/C)	2	-10	176	126	0.65	0.00	0.65
Patna-Balia(D/C)	236	85	312	0	5.01	0.00	5.01
B'Sharif-Balia (D/C)	45	-59	133	59	0.42	0.00	0.42
Pusauli-Balia	-133	-126	0	146	0.00	2.62	-2.62
Gaya-Fatehpur (765 Kv)	-94	-220	0	220	0.00	2.63	-2.63
Pusauli-Sahupuri	90	137	153	0	3.01	0.00	3.01
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)	-20	-231	106	231	0.00	1.64	-1.64
Sub Total ER	398	-149			16.26	7.51	8.75
Total IR Exch	3202	660			89.54	21.71	67.83

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
26.79	0.12	26.91	-0.32	7.13	-2.90	-0.87	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
23.69	59.01	82.70	8.75	59.08	67.83	-14.94	0.06	-14.87

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	0.99	8.34	35.66	46.37	14.56	31.15	16.70	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				
50.47	3.03	49.75	21.06	50.06	0.23	0.04	50.48	0.00

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	416	01:57	406	11:17	0.1	0.1	0.0	0.0
Gorakhpur	400	434	17:04	415	11:17	0.0	0.0	82.7	0.7
Bareilly	400	423	16:06	416	16:05	0.0	0.0	29.3	0.0
Kanpur	400	425	03:23	409	11:16	0.0	0.0	29.5	0.0
Dadri	400	430	02:50	414	10:15	0.0	0.0	62.1	0.0
Ballabgarh	400	435	03:02	415	06:18	0.0	0.0	85.3	36.7
Bawana	400	426	16:02	417	10:20	0.0	0.0	54.1	0.0
Bassi	400	431	03:30	398	08:19	0.0	0.0	53.1	4.6
Hissar	400	424	02:50	402	05:56	0.0	0.0	28.7	0.0
Moga	400	425	03:03	401	05:55	0.0	0.0	31.0	0.0
Abdullapur	400	431	02:53	412	05:55	0.0	0.0	74.7	1.8
Nalagarh	400	434	02:57	410	10:53	0.0	0.0	55.1	20.3
Kishenpur	400	424	02:50	401	16:22	0.0	0.0	20.6	0.0
Wagoora	400	0	00:00	9999	00:00	0.0	0.0	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	774	17:02	447	16:24	9.7	26.7	0.0	0.0
Balia	765	784	02:56	759	11:17	0.0	0.0	0.0	0.0
Moga	765	807	03:00	763	06:18	0.0	0.0	28.4	0.0
Agra	765	807	01:00	777	06:24	0.0	0.0	12.1	0.0
Bhiwani	765	811	02:59	778	05:56	0.0	0.0	22.3	0.0
Unnao	765	773	03:04	747	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	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:

XII. Weather Conditions For 18.03.2014 :

1. Wide spread rain in J&K ,Punjab,HP and UTT

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 : 18.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER