

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.03.2014
Date of Reporting : 16.03.2014

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
32291	2931	35222	50.04	28042	-370	27672	50.08	756.1	42.60

* 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	41.98	11.06		53.04	44.56	46.22	1.66	99.27	3.95
Haryana	30.76	0.58		31.34	64.00	65.77	1.77	97.11	0.81
Rajasthan	117.24	4.68	4.53	126.44	62.15	61.28	-0.88	187.72	0.00
Delhi	16.96			16.96	39.90	38.85	-1.05	55.80	0.02
UP	124.11	2.81	14.40	141.32	90.01	86.58	-3.43	227.90	35.89
Uttarakhand		9.01		9.01	21.42	22.69	1.27	31.70	0.23
HP		6.45		6.45	17.06	17.34	0.28	23.79	0.00
J & K		7.80	0.00	7.80	23.43	21.81	-1.62	29.61	1.70
Chandigarh				0.00	3.28	3.17	-0.11	3.17	0.00
Total	331.04	42.39	18.93	392.36	365.81	363.71	-2.11	756.06	42.60

* 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	4271	800	28	-505	3514	0	111	95	-7.71	
Haryana	4735	56	164	22	3256	0	198	145	0.25	
Rajasthan	7331	0	-145	484	7028	0	49	729	23.12	
Delhi	2866	0	37	-631	1417	0	43	-1281	-21.10	
UP	9285	1975	-175	713	9454	-370	-14	667	13.63	
Uttarakhand	1586	0	145	384	1122	0	95	389	11.47	
HP	958	0	-92	102	751	0	67	153	4.97	
J&K	1092	100	-469	124	1420	0	37	241	4.25	
Chandigarh	169	0	-14	0	80	0	-7	0	0.00	
Total	32291	2931	-521	694	28042	-370	580	1138	28.89	

* 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	1431	1556	1396	33.57	1399	33.55	0.02
Rihand I STPS	1000	945	976	739	20.81	867	20.57	0.24
Rihand II STPS	1000	975	922	753	21.49	896	21.30	0.19
Rihand III STPS	1000	485	509	372	10.97	457	10.83	0.14
Dadri I STPS	840	815	634	608	14.53	605	14.84	-0.31
Dadri II STPS	980	980	871	722	19.37	807	19.76	-0.38
Unchahar I TPS	420	408	346	318	8.51	355	8.60	-0.09
Unchahar II TPS	420	406	383	312	4.19	174	8.42	-4.23
Unchahar III TPS	210	203	186	155	4.19	174	4.21	-0.02
ISTPP (Jhajjar)	1500	1500	505	349	8.37	349	8.55	-0.19
Dadri GPS	830	829	184	199	4.47	186	4.71	-0.24
Anta GPS	419	417	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	663	155	162	3.64	152	3.72	-0.08
Sub Total (A)	11282	10056	7227	6085	154.11	6421	159.05	-4.94
B. NPC								
NAPS	440	140	154	159	3.22	134	3.36	-0.14
RAPS- B	440	415	457	457	9.89	412	9.96	-0.07
RAPS- C	440	430	472	477	10.19	425	10.32	-0.13
Sub Total (B)	1320	985	1083	1093	23.30	971	23.64	-0.34
C. NHPC								
Chamera I HPS	540	540	540	0	4.99	208	4.95	0.04
Chamera II HPS	300	300	190	0	2.51	105	2.50	0.01
Chamera III HPS	231	231	225	0	1.41	59	1.37	0.04
Bairasuil HPS	180	182	182	121	2.88	120	2.82	0.06
Salal-HPS	690	377	345	406	9.19	383	9.05	0.14
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	446	479	476	10.96	457	10.75	0.21
Uri-II HPS	180	180	191	187	4.37	182	4.32	0.05
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	400	0	2.25	94	2.20	0.05
Sewa-II HPS	120	122	124	127	2.94	122	2.93	0.01
Parbati 3	520	0	0	0	0.06	2		0.06
Sub Total (C)	4005	2764	2676	1317	42	1732	41	1
D. NJPC								
Nathpa Jhakri	1500	1605	750	150	6.59	275	6.40	0.19
Sub Total (D)	1500	1605	750	150	6.59	275	6.40	0.19
E. THDC								
Tehri HPS	1000	624	629	0	7.33	305	7.30	0.03
Koteshwar HPS	400	125	302	0	3.01	125	3.00	0.00
Sub Total (E)	1400	749	931	0	10.33	431	10.30	0.03
F. BBMB								
Bhakra HPS	1497	638	1143	369	15.72	655	15.30	0.42
Dehar HPS	990	160	290	0	4.28	178	3.85	0.43
Pong HPS	396	174	184	60	4.28	178	4.17	0.11
Sub Total (F)	2883	972	1617	429	24.28	1012	23.33	0.95
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	2	0	0.34	14	0.34	0.01
KWHEP HPS(IPP)	1000	0	180	0	3.60	150	3.60	-0.01
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	300	0	261	225	6.19	258	6.17	0.02
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.34	-0.32
Sub Total (G)	1662	0	443	225	10.15	423	10.45	-0.30
H. Total Regional Entities (A-G)	24052	17131	14727	9299	270.33	11264	274.06	-3.73

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	840	18.81	784
	Guru Nanak Dev TPS(Bhatinda)	440	110	90	1.71	71
	Guru Hargobind Singh TPS(L.mbt)	920	677	682	14.97	624
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	282	6.49	270
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1627	1894	41.98	1749
	Total Hydro	1148	503	385	11.06	461
Total Punjab	5128	2130	2279	53.04	2210	
Haryana	Panipat TPS	1367	216	208	5.15	215
	DCRTPP (Yamuna nagar)	600	269	254	6.23	259
	Faridabad GPS (NTPC)	432	363	278	7.74	322
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	538	367	11.65	485
	Thermal (Total)	4944	1386	1107	30.76	1282
	Total Hydro	62	25	22	0.58	24
	Total Haryana	5006	1411	1129	31.34	1306
Rajasthan	kota TPS	1240	1059	1068	25.90	1079
	suratgarh TPS	1500	1236	1223	29.84	1243
	Chabra TPS	750	494	568	13.49	562
	Dholpur GPS	330	86	89	2.23	93
	Ramgarh GPS	221	93	114	2.98	124
	RAPS A (NPC)	300	175	175	4.10	171
	Barsingsar (NLC)	250	200	201	4.74	198
	Giral LTPS	250	80	71	1.62	67
	Rajwest LTPS (IPP)	1080	196	196	4.98	208
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1200	1191	27.36	1140
	Thermal (Total)	7976	4819	4896	117.24	4885
	Total Hydro	550	171	86	4.68	195
	Wind power	2191	83	100	3.63	151
	Biomass	91	19	19	0.45	19
	Solar	201	4	0	0.44	19
Renewable/Others (Total)	2483	102	119	4.53	189	
Total Rajasthan	11009	5092	5101	126.44	5268	
UP	Anpara TPS	1630	1262	1099	27.90	1163
	Obra TPS	1288	465	473	11.10	463
	Paricha TPS	1140	680	513	14.60	608
	Panki TPS	210	95	95	2.20	92
	Harduaganj TPS	665	373	392	9.30	388
	Tanda TPS (NTPC)	440	395	399	9.49	395
	Roza TPS (IPP)	1200	842	937	23.32	972
	Anpara-C (IPP)	1200	853	1076	24.17	1007
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	85	85	2.04	85
	Thermal (Total)	8223	5050	5069	124.11	5171
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	92	152	2.81	117
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5742	5821	141.32	5888
	Uttarakhand	Total Hydro	1303	456	300	9.01
Total Uttarakhand		1303	456	300	9.01	376
Delhi	Rajghat TPS	135	0	55	1.05	44
	Delhi Gas Turbine	282	81	83	2.01	84
	Pragati Gas Turbine	330	264	267	6.50	271
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	360	380	7.40	309
	Thermal (Total)	2232	705	785	16.96	707
	Total Delhi	2232	705	785	16.96	707
HP	Baspa HPS (IPP)	330	29	0	0.80	33
	Malana HPS (IPP)	86	31	0	0.21	9
	Other Hydro	589	253	145	5.44	227
	Total HP	1005	313	145	6.45	269
J & K	Baglihar HPS (IPP)	450	294	296	5.50	229
	Other Hydro	323	73	132	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	367	428	7.80	325
Total State Control Area Generation		36770	16216	15988	392.36	16348
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3806	3326	106.97	4457
Total Regional Availability(Gross)		60823	34749	28613	769.66	32069

IV. Total Hydro Generation:

Regional Entities Hydro	11080	6156	1896	86.71	3613
State Control Area Hydro	5368	1927	1518	42.39	1766
Total Regional Hydro	16448	8083	3414	129.10	5379

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	500	500	0	11.06	0.00	11.06
Gwalior-Agra (D/C)	1206	827	1959	0	36.85	0.00	36.85
Zerda-Kankroli	-233	-316	0	352	0.00	5.43	-5.43
Zerda-Bhinmal	-132	-192	14	281	0.00	2.65	-2.65
Malanpur-Auraiya	-104	-58	0	104	0.00	1.84	-1.84
Badod-Kota/Morak	-25	-132	13	154	0.00	1.23	-1.23
Mundra-Mohindergarh(HVDC)	1799	2002	2005	0	47.03	0.00	47.03
Sub Total WR	3011	2631			94.94	11.15	83.79
Pusauli Bypass	300	300	300	0	7.22	0.00	7.22
MZP- GKP (D/C)	9	70	204	0	1.88	0.00	1.88
Patna-Balia(D/C)	418	357	625	0	10.63	0.00	10.63
B'Shauri-Balia (D/C)	210	105	393	0	5.27	0.00	5.27
Pusauli-Balia	-91	-106	9	144	0.00	1.40	-1.40
Gaya-Fatehpur (765 Kv)	-108	-94	0	178	0.00	1.98	-1.98
Pusauli-Sahupuri	138	142	0	172	3.37	0.00	3.37
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)	-53	-54	18	185	0.00	1.19	-1.19
Sub Total ER	795	695			28.37	5.18	23.18
Total IR Exch	3806	3326			123.31	16.33	106.97

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
33.85	0.05	33.91	8.36	7.03	6.45	-0.55	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
48.72	58.73	107.45	23.18	83.79	106.97	-25.53	25.06	-0.47

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	5.50	5.70	30.30	50.60	19.80	40.10	2.20	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				
50.33	7.04	49.75	0.07	50.03	0.09	0.09	50.19	49.91

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	407	02:59	402	05:48	0.0	0.0	0.0	0.0
Gorakhpur	400	425	05:06	410	08:20	0.0	0.0	27.6	0.0
Bareilly	400	424	03:31	406	05:44	0.0	0.0	0.0	0.0
Kanpur	400	419	03:32	404	06:54	0.0	0.0	0.0	0.0
Dadri	400	423	03:31	408	06:27	0.0	0.0	16.6	0.0
Ballabgarh	400	432	03:45	414	06:38	0.0	0.0	64.2	3.0
Bawana	400	429	03:31	410	06:37	0.0	0.0	44.6	0.0
Bassi	400	425	04:00	398	06:52	0.0	0.0	16.0	0.0
Hissar	400	419	04:00	397	06:52	0.0	0.0	0.0	0.0
Moga	400	419	04:00	397	07:50	0.0	0.0	0.0	0.0
Abdullapur	400	429	00:00	405	06:27	0.0	0.0	32.9	0.0
Nalagarh	400	424	02:52	402	09:36	0.0	0.0	22.1	0.0
Kishenpur	400	416	02:52	396	07:21	0.0	0.0	0.0	0.0
Wagoora	400	402	16:52	369	21:25	26.6	52.6	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	775	04:00	744	18:50	0.0	0.0	0.0	0.0
Balia	765	774	05:05	745	08:24	0.0	0.0	0.0	0.0
Moga	765	797	04:00	758	06:54	0.0	0.0	0.0	0.0
Agra	765	808	04:00	773	06:54	0.0	0.0	17.6	0.0
Bhiwani	765	809	04:01	772	06:53	0.0	0.0	23.2	0.0
Unnao	765	758	02:45	753	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 15.03.2014 :

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 : 15.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER