

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.03.2014
Date of Reporting : 10.03.2014

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
26997	1375	28372	50.00	27237	425	27662	50.07	734.0	29.11

* 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	46.51	9.29		55.79	49.58	48.05	-1.53	103.85	0.00
Haryana	41.58	0.55		42.12	47.98	47.53	-0.45	89.65	0.14
Rajasthan	106.76	3.91	5.91	116.59	71.28	70.49	-0.79	187.07	0.13
Delhi	18.73			18.73	36.09	34.14	-1.94	52.88	0.17
UP	113.36	2.98	14.40	130.74	83.81	78.41	-5.39	209.16	25.28
Uttarakhand		8.46		8.46	21.21	21.29	0.08	29.74	1.68
HP		5.34		5.34	17.50	17.94	0.44	23.28	0.00
J & K		5.86	0.00	5.86	29.66	29.56	-0.10	35.42	1.70
Chandigarh				0.00	3.07	2.95	-0.12	2.95	0.00
Total	326.94	36.38	20.31	383.63	360.17	350.36	-9.81	734.00	29.11

* 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		0	-92	-170	3859	0	84	47	-2.37	
Haryana	4378	0	-188	-209	3350	0	83	-160	-6.17	
Rajasthan	7092	0	-303	1133	7195	0	5	919	30.21	
Delhi	2776	0	86	-658	1402	0	45	-1429	-22.33	
UP	8467	1275	-369	738	8111	275	-598	659	13.52	
Uttarakhand	1594	0	153	361	959	150	-28	369	10.05	
HP	974	0	59	43	766	0	35	227	4.99	
J&K	1566	100	-75	365	1509	0	94	452	8.85	
Chandigarh	150	0	-23	0	86	0	3	0	0.00	
Total	26997	1375	-751	1604	27237	425	-277	1083	36.75	

* 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	1427	1534	1545	33.85	1410	33.77	0.08
Rihand I STPS	1000	758	884	508	17.66	736	17.45	0.20
Rihand II STPS	1000	975	901	951	22.29	929	21.80	0.48
Rihand III STPS	1000	460	493	489	11.02	459	10.62	0.40
Dadri I STPS	840	815	690	596	13.63	568	14.02	-0.39
Dadri II STPS	980	980	742	722	17.76	740	18.04	-0.29
Unchahar I TPS	420	406	402	310	8.79	366	8.13	0.67
Unchahar II TPS	420	406	328	311	8.64	360	7.91	0.73
Unchahar III TPS	210	203	159	155	4.30	179	3.95	0.35
ISTPP (Jhajjhar)	1500	1500	461	325	8.13	339	8.32	-0.19
Dadri GPS	830	833	393	397	9.04	377	9.22	-0.17
Anta GPS	419	417	249	251	6.14	256	6.11	0.03
Auraiya GPS	663	668	154	162	3.61	150	3.63	-0.02
Sub Total (A)	11282	9846	7390	6722	164.84	6869	162.96	1.88
B. NPC								
NAPS	440	135	158	156	3.20	133	3.24	-0.04
RAPS- B	440	418	457	461	9.96	415	10.03	-0.07
RAPS- C	440	430	476	477	10.30	429	10.32	-0.03
Sub Total (B)	1320	983	1091	1094	23.46	977	23.59	-0.14
C. NHPC								
Chamera I HPS	540	540	540	0	3.74	156	3.70	0.04
Chamera II HPS	300	300	302	0	1.25	52	1.20	0.05
Chamera III HPS	231	231	159	0	0.65	27	0.60	0.05
Bairasuil HPS	180	182	120	60	1.48	62	1.42	0.06
Salal-HPS	690	138	227	100	3.26	136	3.34	-0.07
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	232	347	202	5.67	236	5.56	0.11
Uri-II HPS	180	138	181	123	3.38	141	3.32	0.06
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	353	266	0	2.47	103	2.40	0.07
Sewa-II HPS	120	119	125	0	1.25	52	1.20	0.05
Parbati 3	520	0	0	0	0.00	0	0.00	0.00
Sub Total (C)	4005	2232	2267	485	23	964	23	0
D.NJPC								
Nathpa Jhakri	1500	1605	646	150	6.82	284	6.69	0.13
Sub Total (D)	1500	1605	646	150	6.82	284	6.69	0.13
E. THDC								
Tehri HPS	1000	640	639	0	7.54	314	7.50	0.03
Koteshwar HPS	400	125	302	0	3.03	126	3.00	0.03
Sub Total (E)	1400	765	941	0	10.56	440	10.50	0.06
F. BBMB								
Bhakra HPS	1497	675	1161	495	16.59	691	16.19	0.40
Dehar HPS	990	133	330	0	3.31	138	3.19	0.13
Pong HPS	396	170	306	120	4.26	178	4.09	0.17
Sub Total (F)	2883	978	1797	615	24.16	1007	23.47	0.69
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.35	14	0.34	0.01
KWHEP HPS(IPP)	1000	0	298	0	3.48	145	3.49	0.00
Malana Stg-II HPS	100	0	0	0	0.10	4	0.66	-0.56
Shree Cement TPS	300	0	286	225	6.49	270	6.50	-0.02
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.10	-0.08
Sub Total (G)	1662	0	584	225	10.44	435	11.09	-0.65
H. Total Regional Entities (A-G)	24052	16409	14716	9291	263.42	10976	261.03	2.38

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	713	576	15.74	656
	Guru Nanak Dev TPS(Bhatinda)	440	0	0	0.00	0
	Guru Hargobind Singh TPS(L.mbt)	920	808	756	18.99	791
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	395	399	11.78	491
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1916	1731	46.51	1938
	Total Hydro	1148	425	272	9.29	387
Total Punjab	5128	2341	2003	55.79	2325	
Haryana	Panipat TPS	1367	218	214	5.18	216
	DCRTPP (Yamuna nagar)	600	252	254	6.24	260
	Faridabad GPS (NTPC)	432	411	280	7.65	319
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1083	741	22.51	938
	Thermal (Total)	4944	1964	1489	41.58	1732
	Total Hydro	62	16	25	0.55	23
Total Haryana	5006	1980	1514	42.12	1755	
Rajasthan	kota TPS	1240	1080	1034	26.10	1087
	suratgarh TPS	1500	1237	1016	28.31	1180
	Chabra TPS	750	574	637	15.11	630
	Dholpur GPS	330	96	100	2.44	102
	Ramgarh GPS	221	118	134	3.22	134
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingar (NLC)	250	105	106	2.45	102
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	0	0	0.00	0
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	949	968	25.02	1043
	Thermal (Total)	7976	4334	4170	106.76	4449
	Total Hydro	550	90	135	3.91	163
	Wind power	2191	202	346	5.23	218
	Biomass	91	20	20	0.48	20
	Solar	201	3	0	0.21	9
Renewable/Others (Total)	2483	222	366	5.91	246	
Total Rajasthan	11009	4646	4671	116.59	4858	
UP	Anpara TPS	1630	1550	1572	33.20	1383
	Obra TPS	1288	346	335	7.90	329
	Paricha TPS	1140	545	732	13.60	567
	Panki TPS	210	85	80	1.80	75
	Harduaganj TPS	665	412	409	8.90	371
	Tanda TPS (NTPC)	440	295	321	8.10	337
	Roza TPS (IPP)	1200	756	774	18.44	768
	Anpara-C (IPP)	1200	791	943	21.43	893
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0
	Thermal (Total)	8223	4780	5166	113.36	4723
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	118	107	2.98	124
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5498	5873	130.74	5448
Uttarakhand	Total Hydro	1303	455	187	8.46	352
	Total Uttarakhand	1303	455	187	8.46	352
Delhi	Rajghat TPS	135	53	53	1.20	50
	Delhi Gas Turbine	282	81	82	1.92	80
	Pragati Gas Turbine	330	264	265	6.45	269
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	364	369	9.16	382
	Thermal (Total)	2232	762	769	18.73	781
Total Delhi	2232	762	769	18.73	781	
HP	Baspa HPS (IPP)	330	0	0	0.90	38
	Malana HPS (IPP)	86	0	0	0.18	7
	Other Hydro	589	248	100	4.26	177
	Total HP	1005	248	100	5.34	222
J & K	Baglihar HPS (IPP)	450	150	146	3.57	149
	Other Hydro	323	73	132	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	223	278	5.86	244
Total State Control Area Generation		36770	16153	15395	383.63	15985
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4306	4570	117.75	4906
Total Regional Availability(Gross)		60823	35175	29256	764.81	31867

IV. Total Hydro Generation:

Regional Entities Hydro	11080	5949	1250	68.61	2859
State Control Area Hydro	5368	1575	1104	36.38	1516
Total Regional Hydro	16448	7524	2354	104.99	4375

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	500	500	0	10.06	0.00	10.06
Gwalior-Agra (D/C)	1449	1544	1865	0	39.00	0.00	39.00
Zerda-Kankroli	-238	-293	0	332	0.00	5.94	-5.94
Zerda-Bhinmal	-115	-146	43	231	0.00	2.18	-2.18
Malanpur-Auraiya	-96	-84	0	119	0.00	2.10	-2.10
Badod-Kota/Morak	-63	-92	25	112	0.00	1.06	-1.06
Mundra-Mohindergarh(HVDC)	1915	1913	1916	0	46.00	0.00	46.00
Sub Total WR	3152	3342			95.06	11.27	83.79
Pusauli Bypass	300	400	400	0	8.37	0.00	8.37
MZP- GKP (D/C)	184	179	395	0	4.60	0.00	4.60
Patna-Balia(D/C)	435	454	706	0	12.17	0.00	12.17
B'Sharif-Balia (D/C)	211	177	410	0	6.34	0.00	6.34
Pusauli-Balia	-96	-125	0	139	0.00	1.58	-1.58
Gaya-Fatehpur (765 Kv)	-50	-15	117	133	0.00	0.03	-0.03
Pusauli-Sahupuri	135	126	148	0	2.94	0.00	2.94
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	35	32	188	109	1.15	0.00	1.15
Sub Total ER	1154	1228			35.57	1.60	33.97
Total IR Exch	4306	4570			130.63	12.87	117.75

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
34.33	0.12	34.45	10.74	8.28	8.60	1.91	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
53.79	61.62	115.41	33.97	83.79	117.75	-19.83	22.17	2.34

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	0.76	6.05	30.55	46.37	19.50	28.08	4.66	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	Index			
50.36	5.04	49.69	21.05	50.03	0.11	0.10	50.22	49.81

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	411	20:53	401	07:07	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	425	20:59	387	22:03	0.0	0.0	12.4	0.0
Kanpur	400	420	02:28	402	06:43	0.0	0.0	0.0	0.0
Dadri	400	424	20:53	409	06:43	0.0	0.0	16.1	0.0
Ballabgarh	400	433	20:55	415	06:42	0.0	0.0	81.9	3.4
Bawana	400	429	20:58	412	06:41	0.0	0.0	46.6	0.0
Bassi	400	428	03:01	401	06:41	0.0	0.0	44.2	0.0
Hissar	400	419	20:28	398	08:33	0.0	0.0	0.0	0.0
Moga	400	417	23:41	399	08:32	0.0	0.0	0.0	0.0
Abdullapur	400	426	00:01	403	06:41	0.0	0.0	8.4	0.0
Nalagarh	400	426	23:29	410	08:34	0.0	0.0	35.5	0.0
Kishenpur	400	419	13:56	394	08:34	0.0	0.0	0.0	0.0
Wagoora	400	406	13:00	375	19:27	9.0	57.0	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	777	02:31	739	06:46	0.0	0.8	0.0	0.0
Balia	765	779	20:59	740	06:51	0.0	0.6	0.0	0.0
Moga	765	794	23:41	759	08:33	0.0	0.0	0.0	0.0
Agra	765	813	18:04	767	22:03	0.0	0.0	34.3	0.0
Bhiwani	765	809	20:56	774	06:43	0.0	0.0	17.8	0.0
Unnao	765	758	00:00	758	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 09.03.2014 :

1. 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 : 09.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER