

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.03.2014
Date of Reporting : 18.03.2014

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
30070	500	30570	50.00	26907	0	26907	50.09	698.4	2.38

* 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	45.30	9.28		54.58	40.27	38.93	-1.34	93.51	0.00
Haryana	28.04	0.59		28.64	58.27	57.31	-0.95	85.95	0.00
Rajasthan	97.43	4.57	17.01	119.02	36.00	35.07	-0.93	154.08	0.04
Delhi	12.81			12.81	32.34	31.02	-1.33	43.82	0.01
UP	125.60	4.29	14.40	144.29	103.79	103.46	-0.33	247.75	0.63
Uttarakhand		9.62		9.62	14.38	12.62	-1.76	22.24	0.00
HP		7.42		7.42	8.05	7.79	-0.26	15.21	0.00
J & K		9.30	0.00	9.30	24.32	23.90	-0.43	33.19	1.70
Chandigarh				0.00	3.05	2.68	-0.36	2.68	0.00
Total	309.18	45.07	31.41	385.66	320.46	312.78	-7.68	698.44	2.38

* 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	4141	0	-112	-225	3602	0	12	10	-6.10	
Haryana	4264	0	-100	-6	3148	0	58	-8	-0.12	
Rajasthan	5614	0	-558	195	6446	0	184	368	8.05	
Delhi	2265	0	166	-842	1361	0	-43	-1331	-24.22	
UP	10366	400	97	1082	9501	0	-230	607	16.84	
Uttarakhand	1162	0	162	223	898	0	-7	286	6.17	
HP	672	0	-15	-274	598	0	52	-176	-3.65	
J&K	1441	100	-51	124	1271	0	-27	242	4.40	
Chandigarh	146	0	-7	0	81	0	-8	0	0.00	
Total	30070	500	-418	277	26907	0	-9	-2	1.38	

* 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	1209	1534	30.78	1282	30.62	0.16
Rihand I STPS	1000	945	748	798	19.07	794	19.56	-0.49
Rihand II STPS	1000	975	744	921	19.53	814	19.86	-0.33
Rihand III STPS	1000	485	394	437	9.18	382	9.33	-0.15
Dadri I STPS	840	815	640	600	13.41	559	13.70	-0.29
Dadri II STPS	980	980	735	732	16.39	683	16.83	-0.44
Unchahar I TPS	420	408	310	343	7.58	316	7.74	-0.16
Unchahar II TPS	420	406	317	313	7.34	306	7.52	-0.18
Unchahar III TPS	210	203	156	156	3.39	141	3.44	-0.05
ISTPP (Jhajjhar)	1500	1500	330	350	7.45	310	7.60	-0.15
Dadri GPS	830	829	156	197	4.34	181	4.51	-0.17
Anta GPS	419	417	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	663	103	160	3.50	146	3.64	-0.14
Sub Total (A)	11282	10061	5842	6541	141.95	5915	144.35	-2.40
B. NPC								
NAPS	440	140	153	160	3.05	127	3.36	-0.31
RAPS- B	440	414	453	458	9.87	411	9.94	-0.06
RAPS- C	440	430	470	474	10.21	425	10.32	-0.11
Sub Total (B)	1320	984	1076	1092	23.13	964	23.62	-0.48
C. NHPC								
Chamera I HPS	540	540	540	0	4.99	208	5.10	-0.11
Chamera II HPS	300	300	300	0	2.90	121	3.00	-0.10
Chamera III HPS	231	231	224	0	1.53	64	1.55	-0.02
Bairasuil HPS	180	182	182	122	3.50	146	3.60	-0.10
Salal-HPS	690	400	447	372	9.51	396	9.62	-0.11
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	460	378	389	11.03	459	11.00	0.03
Uri-II HPS	180	177	225	125	4.18	174	4.23	-0.05
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	407	0	3.19	133	3.20	-0.01
Sewa-II HPS	120	122	127	125	2.97	124	2.93	0.04
Parbati 3	520	0	0	0	0.00	0	0.00	0.00
Sub Total (C)	4005	2799	2830	1133	44	1825	44	0
D. NJPC								
Nathpa Jhakri	1500	1605	731	152	6.75	281	6.64	0.12
Sub Total (D)	1500	1605	731	152	6.75	281	6.64	0.12
E. THDC								
Tehri HPS	1000	618	414	0	6.92	289	7.00	-0.08
Koteshwar HPS	400	125	100	100	2.93	122	3.00	-0.07
Sub Total (E)	1400	743	514	100	9.86	411	10.00	-0.14
F. BBMB								
Bhakra HPS	1497	651	1134	365	16.04	668	15.61	0.43
Dehar HPS	990	257	495	0	6.61	275	6.16	0.45
Pong HPS	396	193	308	60	4.59	191	4.64	-0.04
Sub Total (F)	2883	1100	1937	425	27.24	1135	26.41	0.83
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.24	10	0.20	0.04
KWHEP HPS(IPP)	1000	0	150	0	3.41	142	3.50	-0.09
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	300	0	120	120	2.97	124	3.07	-0.09
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.34	-0.32
Sub Total (G)	1662	0	270	120	6.65	277	7.11	-0.46
H. Total Regional Entities (A-G)	24052	17292	13200	9563	259.38	10808	262.34	-2.96

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	1080	1070	24.04	1002	
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.90	79	
	Guru Hargobind Singh TPS(L.mbt)	920	483	480	11.17	465	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura	700	282	282	8.19	341	
	Talwandi Saboo	660	0	0	0.00	0	
	Thermal (Total)	3980	1935	1922	45.30	1887	
	Total Hydro	1148	366	412	9.28	387	
	Total Punjab	5128	2301	2334	54.58	2274	
Haryana	Panipat TPS	1367	209	213	5.04	210	
	DCRTPP (Yamuna nagar)	600	246	253	6.03	251	
	Faridabad GPS (NTPC)	432	403	281	7.46	311	
	RGTPP (kheadar) (IPP)	1200	0	0	0.00	0	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	330	370	9.52	397	
	Thermal (Total)	4944	1188	1117	28.04	1168	
	Total Hydro	62	25	26	0.59	25	
	Total Haryana	5006	1213	1143	28.64	1193	
	Rajasthan	kota TPS	1240	720	823	17.77	740
suratgarh TPS		1500	1046	1081	24.93	1039	
Chabra TPS		750	518	446	12.97	541	
Dholpur GPS		330	89	87	2.20	92	
Ramgarh GPS		221	121	112	2.78	116	
RAPS A (NPC)		300	175	175	4.11	171	
Barsingsar (NLC)		250	200	201	4.72	197	
Giral LTPS		250	83	83	1.21	50	
Rajwest LTPS (IPP)		1080	130	179	3.78	157	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		1320	850	955	22.96	957	
Thermal (Total)		7976	3932	4142	97.43	4060	
Total Hydro		550	111	250	4.57	191	
Wind power		2191	829	285	16.60	692	
Biomass		91	27	27	0.20	9	
Solar		201	2	0	0.20	9	
Renewable/Others (Total)	2483	856	312	17.01	709		
Total Rajasthan	11009	4899	4704	119.02	4959		
UP	Anpara TPS	1630	1603	1587	34.30	1429	
	Obra TPS	1288	530	492	11.50	479	
	Paricha TPS	1140	617	610	13.10	546	
	Panki TPS	210	100	100	2.20	92	
	Harduaganj TPS	665	394	347	8.40	350	
	Tanda TPS (NTPC)	440	392	321	9.40	392	
	Roza TPS (IPP)	1200	770	765	20.33	847	
	Anpara-C (IPP)	1200	977	1064	24.42	1017	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	85	85	1.95	81	
	Thermal (Total)	8223	5468	5371	125.60	5233	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	176	142	4.29	179	
	Cogeneration	981	600	600	14.40	600	
	Total UP	10131	6244	6113	144.29	6012	
	Uttarakhand	Total Hydro	1303	495	336	9.62	401
		Total Uttarakhand	1303	495	336	9.62	401
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	79	83	1.86	78	
	Pragati Gas Turbine	330	143	151	3.49	145	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	297	314	7.46	311	
	Thermal (Total)	2232	519	548	12.81	534	
	Total Delhi	2232	519	548	12.81	534	
HP	Baspa HPS (IPP)	330	0	93	0.91	38	
	Malana HPS (IPP)	86	24	0	0.15	6	
	Other Hydro	589	339	239	6.36	265	
	Total HP	1005	363	332	7.42	309	
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	16399	15932	385.66	16069	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2460	2869	45.97	1916	
Total Regional Availability(Gross)		60823	32059	28364	691.01	28792	

IV. Total Hydro Generation:

Regional Entities Hydro	11080	6162	1810	91.30	3804
State Control Area Hydro	5368	1901	1920	45.07	1878
Total Regional Hydro	16448	8063	3730	136.37	5682

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	300	500	100	6.96	0.31	6.65
Gwalior-Agra (D/C)	1292	1212	1699	0	27.43	0.00	27.43
Zerda-Kankroli	-244	-372	0	455	0.00	7.87	-7.87
Zerda-Bhinmal	-216	-292	0	402	0.00	6.74	-6.74
Malanpur-Auraiya	-74	-86	0	124	0.00	2.24	-2.24
Badod-Kota/Morak	-114	-111	0	1773	0.00	25.58	-25.58
Mundra-Mohindergarh(HVDC)	1202	1700	2006	0	40.70	0.00	40.70
Sub Total WR	2246	2351			75.08	42.73	32.35
Pusauli Bypass	300	300	300	0	7.18	0.00	7.18
MZP- GKP (D/C)	6	75	265	0	2.24	0.00	2.24
Patna-Balia(D/C)	245	269	368	0	6.38	0.00	6.38
B'Sharif-Balia (D/C)	38	32	170	0	1.36	0.00	1.36
Pusauli-Balia	-139	-130	0	147	0.00	2.74	-2.74
Gaya-Fatehpur (765 Kv)	-150	-91	0	205	0.00	2.38	-2.38
Pusauli-Sahupuri	59	139	166	0	3.58	0.00	3.58
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)	-117	-51	0	208	0.00	1.38	-1.38
Sub Total ER	214	518			20.73	7.11	13.62
Total IR Exch	2460	2869			95.81	49.84	45.97

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
25.44	0.12	25.56	-8.49	6.38	-0.13	-1.33	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
16.93	54.46	71.40	13.62	32.35	45.97	-3.31	-22.11	-25.42

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	0.35	3.47	24.37	42.85	20.83	32.85	8.40	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				
50.38	18.00	49.76	18.51	50.06	0.13	0.10	50.41	49.93

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	414	17:04	404	06:31	0.0	0.0	0.0	0.0
Gorakhpur	400	427	17:19	408	18:50	0.0	0.0	38.3	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	421	17:30	405	18:50	0.0	0.0	0.4	0.0
Dadri	400	427	17:33	414	06:20	0.0	0.0	51.5	0.0
Ballabgarh	400	433	17:34	418	06:32	0.0	0.0	93.6	11.0
Bawana	400	431	15:10	416	06:11	0.0	0.0	86.4	0.6
Bassi	400	430	03:31	411	06:49	0.0	0.0	64.4	0.0
Hissar	400	422	23:42	402	06:23	0.0	0.0	1.0	0.0
Moga	400	421	23:23	402	06:26	0.0	0.0	1.5	0.0
Abdullapur	400	430	15:10	410	06:21	0.0	0.0	71.4	0.0
Nalagarh	400	430	23:42	409	06:29	0.0	0.0	37.8	0.0
Kishenpur	400	421	03:43	399	19:07	0.0	0.0	1.0	0.0
Wagoora	400	393	13:02	381	11:22	0.0	64.6	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	03:04	441	15:48	1.3	10.7	0.0	0.0
Balia	765	778	17:05	747	18:50	0.0	0.0	0.0	0.0
Moga	765	800	23:24	765	06:25	0.0	0.0	0.0	0.0
Agra	765	816	15:05	778	18:54	0.0	0.0	42.1	0.0
Bhiwani	765	811	01:02	777	06:25	0.0	0.0	35.0	0.0
Unnao	765	747	00:00	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 (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:

XII. Weather Conditions For 17.03.2014 :

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 : 17.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER