

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.02.2014
Date of Reporting : 19.02.2014

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
35586	1678	37264	50.07	28248	3	28251	50.27	777.1	27.32

* 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	46.49	10.28		56.77	35.14	37.21	2.07	93.98	0.00
Haryana	36.55	0.52		37.06	65.59	64.80	-0.79	101.86	0.05
Rajasthan	101.70	5.42	3.09	110.21	86.01	84.69	-1.32	194.89	0.72
Delhi	21.40			21.40	42.68	41.30	-1.39	62.70	0.04
UP	118.90	2.94	16.80	138.64	85.51	84.22	-1.29	222.86	24.39
Uttarakhand		9.68		9.68	22.65	23.87	1.21	33.54	0.42
HP		5.10		5.10	18.00	18.64	0.64	23.74	0.00
J & K		6.04	0.00	6.04	32.54	33.83	1.30	39.87	1.70
Chandigarh				0.00	3.33	3.62	0.29	3.62	0.00
Total	325.03	39.97	19.89	384.90	391.45	392.17	0.72	777.07	27.32

* 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	5114	0	115	-613	3042	0	177	62	-7.65	
Haryana	5038	0	-464	-36	3562	0	9	-80	-3.60	
Rajasthan	8116	28	14	1033	7272	0	-113	1158	36.54	
Delhi	3240	0	46	-786	1454	3	2	-1395	-22.94	
UP	9300	1510	-157	448	9289	0	-57	452	7.14	
Uttarakhand	1721	40	35	521	1149	0	136	397	12.16	
HP	1122	0	45	199	711	0	26	412	7.41	
J&K	1741	100	-77	526	1681	0	63	610	11.35	
Chandigarh	194	0	0	0	88	0	-14	0	0.00	
Total	35586	1678	-443	1293	28248	3	229	1617	40.42	

* 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	1942	2089	1968	45.74	1906	46.08	-0.34
Rihand I STPS	1000	942	1012	755	21.17	882	21.40	-0.23
Rihand II STPS	1000	975	1030	751	21.86	911	22.11	-0.25
Rihand III STPS	1000	-17	0	0	0.00	0	-0.28	0.28
Dadri I STPS	840	679	822	588	15.27	636	15.64	-0.37
Dadri II STPS	980	848	945	677	18.30	762	18.51	-0.21
Unchahar I TPS	420	408	435	325	8.82	368	8.95	-0.12
Unchahar II TPS	420	406	429	308	8.36	348	8.46	-0.10
Unchahar III TPS	210	203	210	154	4.21	176	4.29	-0.07
ISTPP (Jhajjar)	1500	1500	875	703	16.28	678	16.69	-0.41
Dadri GPS	830	839	418	428	10.40	433	10.58	-0.18
Anta GPS	419	428	274	253	6.31	263	6.41	-0.09
Auraiya GPS	663	673	140	158	3.67	153	3.69	-0.02
Sub Total (A)	11282	9825	8679	7068	180.39	7516	182.52	-2.13
B. NPC								
NAPS	440	299	331	342	7.12	297	7.18	-0.06
RAPS- B	440	397	460	463	10.03	418	9.53	0.50
RAPS- C	440	430	475	475	10.27	428	10.32	-0.05
Sub Total (B)	1320	1126	1266	1280	27.42	1143	27.02	0.40
C. NHPC								
Chamera I HPS	540	540	450	0	2.61	109	2.65	-0.04
Chamera II HPS	300	200	204	0	1.18	49	1.20	-0.02
Chamera III HPS	231	154	151	0	0.53	22	0.60	-0.07
Bairasuil HPS	180	122	120	0	1.13	47	1.08	0.05
Salal-HPS	690	142	235	90	3.23	134	3.18	0.05
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	201	304	138	4.82	201	4.82	0.00
Uri-II HPS	180	108	120	94	2.83	118	2.65	0.18
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	258	273	0	2.50	104	2.50	0.00
Sewa-II HPS	120	119	123	0	1.26	53	1.25	0.01
Sub Total (C)	3485	1844	1980	322	20.09	837	19.93	0.16
D. NJPC								
Nathpa Jhakri	1500	1605	1081	0	6.82	284	6.99	-0.17
Sub Total (D)	1500	1605	1081	0	6.82	284	6.99	-0.17
E. THDC								
Tehri HPS	1000	900	910	0	7.12	296	7.10	0.02
Koteshwar HPS	400	116	297	0	2.76	115	2.80	-0.04
Sub Total (E)	1400	1016	1207	0	9.87	411	9.90	-0.03
F. BBMB								
Bhakra HPS	1497	671	1162	389	16.44	685	16.10	0.34
Dehar HPS	990	163	330	150	4.34	181	3.92	0.42
Pong HPS	396	204	372	126	5.17	215	4.91	0.27
Sub Total (F)	2883	1039	1864	665	25.95	1081	24.93	1.02
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.36	15	0.35	0.02
KWHEP HPS(IPP)	1000	0	0	0	3.58	149	3.60	-0.02
Malana Stg-II HPS	100	0	0	0	0.11	4	0.09	0.02
Shree Cement TPS	300	0	260	143	5.20	217	5.21	-0.01
Budhil HPS(IPP)	70	0	8	0	0.12	5	0.10	0.01
Sub Total (G)	1662	0	268	143	9.37	390	9.35	0.02
H. Total Regional Entities (A-G)	23532	16454	16345	9478	279.91	11663	280.64	-0.73

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	600	15.05	627
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.93	80
	Guru Hargobind Singh TPS(L.mbt)	920	961	693	19.10	796
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	614	285	10.42	434
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2505	1668	46.49	1937
	Total Hydro	1148	476	421	10.28	428
	Total Punjab	5128	2981	2089	56.77	2366
Haryana	Panipat TPS	1367	229	213	5.21	217
	DCRTPP (Yamuna nagar)	600	536	510	11.72	488
	Faridabad GPS (NTPC)	432	358	316	8.13	339
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	555	366	11.48	478
	Thermal (Total)	4944	1678	1405	36.55	1523
	Total Hydro	62	22	21	0.52	21
	Total Haryana	5006	1700	1426	37.06	1544
Rajasthan	kota TPS	1240	1147	1140	27.17	1132
	suratgarh TPS	1500	1353	1358	32.02	1334
	Chabra TPS	750	653	644	15.85	661
	Dholpur GPS	330	139	137	3.44	143
	Ramgarh GPS	221	128	129	2.95	123
	RAPS A (NPC)	300	175	175	4.12	172
	Barsingsar (NLC)	250	208	104	4.44	185
	Giral LTPS	250	69	63	1.40	58
	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	430	0	10.31	430
	Thermal (Total)	7976	4302	3750	101.70	4237
	Total Hydro	550	257	157	5.42	226
	Wind power	2191	34	161	2.08	87
	Biomass	91	27	27	0.66	27
	Solar	201	3	0	0.36	15
Renewable/Others (Total)	2483	61	188	3.09	129	
Total Rajasthan	11009	4620	4095	110.21	4592	
UP	Anpara TPS	1630	1014	1014	23.60	983
	Obra TPS	1288	463	462	11.20	467
	Paricha TPS	1140	565	543	14.00	583
	Panki TPS	210	68	72	1.60	67
	Harduaganj TPS	665	419	453	10.40	433
	Tanda TPS (NTPC)	440	401	403	9.67	403
	Roza TPS (IPP)	1200	756	792	19.80	825
	Anpara-C (IPP)	1200	1054	1041	24.15	1006
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	196	196	4.48	187
	Thermal (Total)	8223	4936	4976	118.90	4954
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	87	120	2.94	123
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5723	5796	138.64	5777
Uttarakhand	Total Hydro	1303	524	254	9.68	403
	Total Uttarakhand	1303	524	254	9.68	403
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	162	163	3.93	164
	Pragati Gas Turbine	330	314	262	7.23	301
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	430	430	10.24	427
	Thermal (Total)	2232	906	855	21.40	892
	Total Delhi	2232	906	855	21.40	892
HP	Baspa HPS (IPP)	330	0	0	0.90	38
	Malana HPS (IPP)	86	0	0	0.23	9
	Other Hydro	589	180	104	3.97	166
	Total HP	1005	180	104	5.10	213
J & K	Baglihar HPS (IPP)	450	152	150	3.68	153
	Other Hydro	323	94	132	2.36	98
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	246	282	6.04	252
Total State Control Area Generation		36770	16880	14901	384.90	16037
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4875	4460	125.74	5239
Total Regional Availability(Gross)		60303	38100	28839	790.55	32939

IV. Total Hydro Generation:

Regional Entities Hydro	10560	6132	987	66.78	2782
State Control Area Hydro	5368	1792	1359	39.97	1666
Total Regional Hydro	15928	7924	2346	106.75	4448

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	300	300	0	7.20	0.00	7.20
Gwalior-Agra (D/C)	1324	1314	1850	0	33.71	0.00	33.71
Zerda-Kankroli	26	-162	169	193	0.00	0.08	-0.08
Zerda-Bhinmal	148	-7	331	60	3.40	0.00	3.40
Malanpur-Auraiya	-93	-60	0	93	0.00	1.69	-1.69
Badod-Kota/Morak	-26	-64	59	79	0.00	0.59	-0.59
Mundra-Mohinderghar(HVDC)	2002	2002	2005	0	48.34	0.00	48.34
Sub Total WR	3681	3323			92.65	2.36	90.30
Pusauli Bypass	300	300	300	0	7.22	0.00	7.22
MZP- GKP (D/C)	139	139	295	0	4.31	0.00	4.31
Patna-Balia(D/C)	421	427	589	0	11.39	0.00	11.39
B'Shafi-Balia (D/C)	285	227	486	0	7.65	0.00	7.65
Pusauli-Balia	-67	-72	0	81	0.00	1.17	-1.17
Gaya-Fatehpur (765 Kv)	23	-32	148	32	1.36	0.00	1.36
Pusauli-Sahupuri	0	164	189	0	1.93	0.00	1.93
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-28	0	34	0.00	0.68	-0.68
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	124	12	269	0	3.44	0.00	3.44
Sub Total ER	1194	1137			37.29	1.85	35.45
Total IR Exch	4875	4460			129.94	4.20	125.74

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
34.72	0.14	34.86	13.90	3.87	5.17	12.04	0.07	-0.07

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
54.01	75.35	129.35	35.45	90.30	125.74	-18.56	14.95	-3.61

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	0.10	6.60	36.40	42.80	15.90	50.06	10.30	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	17.05	49.78	6.43	50.06	0.14	0.10	50.35	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	414	02:55	402	05:51	0.0	0.0	0.0	0.0
Gorakhpur	400	421	11:11	405	19:19	0.0	0.0	10.3	0.0
Bareilly	400	427	03:02	406	09:18	0.0	0.0	20.6	0.0
Kanpur	400	420	03:00	402	09:21	0.0	0.0	0.0	0.0
Dadri	400	424	13:04	408	18:45	0.0	0.0	3.6	0.0
Ballabgarh	400	435	03:02	413	09:20	0.0	0.0	61.1	25.1
Bawana	400	432	03:02	410	06:41	0.0	0.0	36.8	4.9
Bassi	400	429	04:01	392	07:23	0.0	0.0	23.9	0.0
Hissar	400	420	02:58	397	06:40	0.0	0.0	0.0	0.0
Moga	400	419	03:01	397	07:12	0.0	0.0	0.0	0.0
Abdullapur	400	431	13:01	409	18:39	0.0	0.0	52.3	0.3
Nalagarh	400	427	02:57	409	07:14	0.0	0.0	29.8	0.0
Kishenpur	400	416	13:00	388	18:42	0.0	0.2	0.0	0.0
Wagoora	400	406	13:00	366	18:42	14.0	55.6	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	13:04	739	06:42	0.0	2.6	0.0	0.0
Balia	765	778	03:02	744	18:49	0.0	0.0	0.0	0.0
Moga	765	797	03:02	756	06:41	0.0	0.0	0.0	0.0
Agra	765	814	00:18	767	06:40	0.0	0.0	26.8	0.0
Bhiwani	765	814	03:02	772	06:40	0.0	0.0	38.4	0.0
Unnao	765	759	03:06	731	19:17	0.0	30.3	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	492.03	848.04	486.93	644.48	162.77	499.46
Pong	426.72	384.05	407.10	407.15	405.49	352.07	94.83	269.80
Tehri	829.79	740.04	796.30	544.69	818.65	982.26	66.94	185.00
Koteshwar	612.50	598.50	610.40	4.69	610.00	4.69	185.00	188.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	59.52	69.18
Rihand	268.22	252.98	259.84	296.30	259.78	292.90	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	508.74	148.00	510.66	150.00	99.99	116.98

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 18.02.2014 :
Normal weather in NR.

XIII. Synchronisation of new generating units :

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 : 18.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER