

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.02.2014
Date of Reporting : 12.02.2014

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
36222	3206	39428	50.00	28236	350	28586	50.02	783.4	49.70

* 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	40.61	9.10		49.71	39.16	40.69	1.53	90.40	0.00
Haryana	41.75	0.44		42.19	62.85	62.91	0.06	105.11	0.44
Rajasthan	91.61	4.34	4.82	100.78	100.93	99.23	-1.70	200.01	5.30
Delhi	21.15			21.15	41.20	39.10	-2.10	60.25	0.14
UP	118.14	2.19	16.80	137.13	90.24	88.82	-1.42	225.95	41.37
Uttarakhand		7.97		7.97	25.14	26.40	1.27	34.37	0.45
HP		5.12		5.12	19.28	18.87	-0.41	23.99	0.29
J & K		6.16	0.00	6.16	33.32	33.56	0.23	39.72	1.70
Chandigarh				0.00	3.34	3.63	0.29	3.63	0.00
Total	313.26	35.32	21.62	370.21	415.46	413.21	-2.25	783.42	49.70

* 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	4972	38	-42	-368	2926	0	73	14	-9.17	
Haryana	5368	0	-390	48	3642	0	129	-262	-7.43	
Rajasthan	8240	328	135	737	7567	0	155	1240	35.75	
Delhi	3219	0	-36	-787	1430	0	17	-1337	-21.93	
UP	9793	2700	-261	413	9218	350	-120	435	6.53	
Uttarakhand	1702	40	74	568	1125	0	16	530	13.70	
HP	1139	0	-94	298	694	0	-15	369	8.46	
J&K	1592	100	-240	493	1543	0	21	583	11.54	
Chandigarh	197	0	5	0	90	0	-7	0	0.00	
Total	36222	3206	-847	1401	28236	350	269	1571	37.45	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI (OG:(+ve), UG: (-ve))

A. NTPC	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
Rihand I STPS	1000	945	1027	987	22.79	950	22.57	0.22	
Rihand II STPS	1000	979	1046	1048	23.62	984	23.49	0.13	
Rihand III STPS	1000	485	519	518	11.70	488	11.64	0.06	
Dadri I STPS	840	679	877	615	16.01	667	15.83	0.18	
Dadri II STPS	980	804	1008	681	18.59	775	18.75	-0.16	
Unchahar I TPS	420	407	432	334	9.03	376	9.06	-0.03	
Unchahar II TPS	420	405	441	327	8.76	365	8.78	-0.02	
Unchahar III TPS	210	202	221	155	4.45	186	4.46	0.00	
ISTPP (Jhajjar)	1500	1500	1528	643	25.02	1043	25.59	-0.57	
Dadri GPS	830	842	610	523	13.41	559	13.62	-0.21	
Anta GPS	419	422	422	258	8.73	364	8.65	0.07	
Auraiya GPS	663	670	156	160	3.72	155	3.82	-0.10	
Sub Total (A)	11282	10084	10358	7961	207.89	8662	208.04	-0.15	
B. NPC	NAPS	440	299	333	336	7.14	298	7.18	-0.04
	RAPS- B	440	395	448	392	9.23	385	9.48	-0.25
	RAPS- C	440	401	471	475	9.50	396	9.62	-0.12
Sub Total (B)	1320	1095	1252	1203	25.87	1078	26.27	-0.40	
C. NHPC	Chamera I HPS	540	540	540	0	3.02	126	2.90	0.12
	Chamera II HPS	300	200	200	0	0.90	37	0.81	0.09
	Chamera III HPS	231	83	78	0	0.44	18	0.40	0.04
	Bairasuil HPS	180	182	120	0	0.98	41	0.90	0.07
	Salal-HPS	690	144	230	122	3.42	142	3.35	0.07
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	238	333	148	5.72	238	6.42	-0.70
	Uri-II HPS	180	120	158	122	2.65	111	2.88	-0.23
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	271	0	2.04	85	2.02	0.02
	Sewa-II HPS	120	119	124	0	1.55	65	1.53	0.01
Sub Total (C)	3485	1884	2054	392	20.70	863	21.20	-0.50	
D. NJPC	Nathpa Jhakri	1500	1605	992	0	5.94	247	5.85	0.08
Sub Total (D)	1500	1605	992	0	5.94	247	5.85	0.08	
E. THDC	Tehri HPS	1000	920	926	0	7.06	294	7.00	0.06
	Koteshwar HPS	400	116	302	0	2.83	118	2.80	0.03
Sub Total (E)	1400	1036	1228	0	9.90	412	9.80	0.10	
F. BBMB	Bhakra HPS	1497	626	979	367	15.25	635	15.03	0.22
	Dehar HPS	990	105	330	0	3.06	128	2.52	0.54
	Pong HPS	396	150	306	60	3.85	160	3.59	0.26
Sub Total (F)	2883	881	1615	427	22.16	923	21.14	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	2.92	122	2.89	0.03
	Malana Stg-II HPS	100	0	0	0	0.14	6	0.13	0.01
	Shree Cement TPS	300	0	260	143	5.29	220	5.26	0.03
	Budhil HPS(IPP)	70	0	8	0	0.12	5	0.26	-0.14
Sub Total (G)	1662	0	268	143	8.82	368	8.88	-0.05	
H. Total Regional Entities (A-G)	23532	16584	17767	10126	301.28	12553	301.19	0.09	

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	1050	640	19.41	809
	Guru Nanak Dev TPS(Bhatinda)	440	110	80	2.19	91
	Guru Hargobind Singh TPS(L.mbt)	920	974	723	18.99	791
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.02	1
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2134	1443	40.61	1692
	Total Hydro	1148	398	351	9.10	379
Total Punjab	5128	2532	1794	49.71	2071	
Haryana	Panipat TPS	1367	232	216	5.19	216
	DCRTPP (Yamuna nagar)	600	281	267	6.29	262
	Faridabad GPS (NTPC)	432	170	165	4.70	196
	RGTPP (khedar) (IPP)	1200	586	499	12.80	533
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	611	377	12.77	532
	Thermal (Total)	4944	1880	1524	41.75	1740
	Total Hydro	62	17	21	0.44	18
Total Haryana	5006	1897	1545	42.19	1758	
Rajasthan	kota TPS	1240	1160	1148	27.25	1135
	suratgarh TPS	1500	1129	1109	26.07	1086
	Chabra TPS	750	419	377	10.11	421
	Dholpur GPS	330	114	113	2.81	117
	Ramgarh GPS	221	71	80	2.03	84
	RAPS A (NPC)	300	175	175	4.11	171
	Barsingsar (NLC)	250	211	209	4.93	205
	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	628	621	14.32	596
	Thermal (Total)	7976	3907	3832	91.61	3817
	Total Hydro	550	255	86	4.34	181
	Wind power	2191	77	130	3.66	153
	Biomass	91	24	24	0.57	24
	Solar	201	6	0	0.60	25
	Renewable/Others (Total)	2483	101	154	4.82	201
Total Rajasthan	11009	4263	4072	100.78	4199	
UP	Anpara TPS	1630	974	1017	24.20	1008
	Obra TPS	1288	482	495	11.70	488
	Paricha TPS	1140	59	59	1.40	58
	Panki TPS	210	446	424	9.70	404
	Harduaganj TPS	665	645	780	15.50	646
	Tanda TPS (NTPC)	440	397	398	9.72	405
	Roza TPS (IPP)	1200	1080	756	25.34	1056
	Anpara-C (IPP)	1200	537	537	13.01	542
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	362	293	7.57	316
	Thermal (Total)	8223	4982	4759	118.14	4923
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	176	185	2.19	91
	Cogeneration	981	700	700	16.80	700
Total UP	10131	5858	5644	137.13	5714	
Uttarakhand	Total Hydro	1303	426	172	7.97	332
	Total Uttarakhand	1303	426	172	7.97	332
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	162	162	3.74	156
	Pragati Gas Turbine	330	315	268	7.51	313
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	435	425	9.90	412
	Thermal (Total)	2232	912	855	21.15	881
	Total Delhi	2232	912	855	21.15	881
HP	Baspa HPS (IPP)	330	0	0	1.34	56
	Malana HPS (IPP)	86	0	0	0.22	9
	Other Hydro	589	200	107	3.56	148
	Total HP	1005	200	107	5.12	213
J & K	Baglihar HPS (IPP)	450	148	146	3.51	146
	Other Hydro	323	89	129	2.65	110
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	237	275	6.16	257
Total State Control Area Generation		36770	16325	14464	370.21	15425
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			5527	5216	131.56	5482
Total Regional Availability(Gross)		60303	39619	29806	803.04	33460

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5889	819	62.11	2588
State Control Area Hydro	5368	1709	1197	35.32	1472
Total Regional Hydro	15928	7598	2016	97.44	4060

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	500	500	0	10.17	0.00	10.17
Gwalior-Agra (D/C)	1524	1482	2008	0	35.02	0.00	35.02
Zerda-Kankroli	23	-50	156	148	0.87	0.00	0.87
Zerda-Bhinmal	181	103	374	25	4.51	0.00	4.51
Malanpur-Auraiya	-90	-62	0	120	0.00	2.09	-2.09
Badod-Kota/Morak	-27	2	49	110	0.00	0.41	-0.41
Mundra-Mohinderghar(HVDC)	2001	1998	2005	0	48.32	0.00	48.32
Sub Total WR	4012	3973			98.89	2.50	96.39
Pusauli Bypass	400	-361	400	409	6.50	0.66	5.84
MZP- GKP (D/C)	123	271	345	112	4.05	0.00	4.05
Patna-Balia(D/C)	471	588	730	0	13.00	0.00	13.00
B'Sharif-Balia (D/C)	238	304	439	0	6.56	0.00	6.56
Pusauli-Balia	124	28	753	163	0.00	1.20	-1.20
Gaya-Fatehpur (765 Kv)	30	54	195	97	1.62	0.00	1.62
Pusauli-Sahupuri	170	117	170	0	2.97	0.00	2.97
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-28	0	34	0.00	0.64	-0.64
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-10	270	184	198	2.97	0.00	2.97
Sub Total ER	1515	1243			37.67	2.50	35.17
Total IR Exch	5527	5216			136.56	5.00	131.56

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
30.22	0.19	30.41	17.89	2.08	8.19	4.58	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
56.56	78.06	134.62	35.17	96.39	131.56	-21.39	18.33	-3.06

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	93.39	0.07	93.39	67.96	6.61

<----- 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				
50.48	18.03	49.73	9.08	50.06	0.19	0.11	50.38	49.83

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	409	13:04	401	18:38	0.0	0.0	0.0	0.0
Gorakhpur	400	425	13:51	407	19:09	0.0	0.0	15.4	0.0
Bareilly	400	425	04:33	401	09:15	0.0	0.0	12.9	0.0
Kanpur	400	420	04:31	397	09:17	0.0	0.0	0.0	0.0
Dadri	400	424	04:33	403	09:15	0.0	0.0	7.2	0.0
Ballabgarh	400	432	04:32	407	09:20	0.0	0.0	49.1	0.7
Bawana	400	429	04:31	406	10:05	0.0	0.0	39.9	0.0
Bassi	400	427	04:30	390	09:15	0.0	0.0	13.4	0.0
Hissar	400	417	04:31	395	09:16	0.0	0.0	0.0	0.0
Moga	400	419	21:29	397	09:15	0.0	0.0	0.0	0.0
Abdullapur	400	426	00:20	407	18:46	0.0	0.0	33.2	0.0
Nalagarh	400	427	04:32	407	09:20	0.0	0.0	30.2	0.0
Kishenpur	400	416	21:43	394	18:40	0.0	0.0	0.0	0.0
Wagoora	400	398	13:01	374	07:50	11.9	73.4	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	04:32	735	09:22	0.0	4.5	0.0	0.0
Balia	765	779	04:33	744	09:21	0.0	0.0	0.0	0.0
Moga	765	796	21:34	753	09:16	0.0	0.0	0.0	0.0
Agra	765	814	18:03	762	09:22	0.0	0.0	24.5	0.0
Bhiwani	765	808	04:33	723	22:15	2.6	16.7	5.2	0.0
Unnao	765	768	21:39	735	09:22	0.0	5.7	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	494.36	869.36	487.27	652.97	145.07	459.98
Pong	426.72	384.05	407.33	407.15	409.73	361.16	115.22	247.97
Tehri	829.79	740.04	797.40	566.77	818.65	982.26	67.20	188.00
Koteshwar	612.50	598.50	611.30	4.78	609.05	3.98	186.00	187.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	53.62	71.21
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 11.02.2014 :
Normal Weather

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 : 11.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER