

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.02.2014
Date of Reporting : 13.02.2014

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
36655	1796	38451	50.10	28366	35	28401	50.15	796.2	34.87

* 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	43.58	9.16		52.74	38.81	40.43	1.62	93.17	0.00
Haryana	39.40	0.40		39.80	65.67	66.64	0.97	106.44	0.24
Rajasthan	87.96	4.13	13.66	105.74	96.53	90.94	-5.59	196.68	0.86
Delhi	21.59			21.59	40.13	40.03	-0.10	61.62	0.10
UP	123.54	3.72	16.80	144.06	92.71	91.31	-1.40	235.37	31.53
Uttarakhand		8.95		8.95	24.51	26.06	1.55	35.01	0.39
HP		4.61		4.61	19.29	19.28	-0.01	23.90	0.05
J & K		6.10	0.00	6.10	33.77	34.25	0.48	40.35	1.70
Chandigarh				0.00	3.31	3.66	0.34	3.66	0.00
Total	316.06	37.07	30.46	383.59	414.75	412.61	-2.14	796.20	34.87

* 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	
Punjab	4718	0	-98	-572	3023	0	147	10	-9.13
Haryana	5519	0	60	52	3641	0	71	-404	-6.88
Rajasthan	8408	0	-121	913	7438	0	200	1462	40.07
Delhi	3282	0	125	-851	1410	0	-150	-1470	-24.76
UP	9988	1650	-210	452	9221	35	-160	474	7.09
Uttarakhand	1719	40	64	493	1163	0	67	482	12.72
HP	1119	6	-135	298	709	0	15	369	8.44
J&K	1708	100	-180	474	1673	0	4	567	11.09
Chandigarh	195	0	-4	0	89	0	0	-10	-0.05
Total	36655	1796	-499	1259	28366	35	194	1479	38.59

* 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
Singrauli STPS	2000	1939	2064	1694	45.47	1895	45.18	0.29
Rihand I STPS	1000	945	1013	706	21.51	896	21.30	0.22
Rihand II STPS	1000	975	1031	722	22.27	928	22.08	0.19
Rihand III STPS	1000	485	520	519	11.14	464	11.12	0.02
Dadri I STPS	840	679	878	617	15.86	661	16.05	-0.19
Dadri II STPS	980	804	1012	689	18.47	770	18.61	-0.13
Unchahar I TPS	420	408	437	319	8.96	374	9.02	-0.06
Unchahar II TPS	420	405	442	311	8.69	362	8.71	-0.02
Unchahar III TPS	210	202	219	153	4.33	180	4.36	-0.04
ISTPP (Jhajjar)	1500	1500	1554	999	25.90	1079	26.19	-0.29
Dadri GPS	830	845	604	491	13.42	559	13.70	-0.28
Anta GPS	419	425	421	256	8.59	358	8.62	-0.02
Auraiya GPS	663	668	154	164	3.72	155	3.74	-0.02
Sub Total (A)	11282	10280	10349	7640	208.33	8680	208.67	-0.34
B. NPC								
NAPS	440	299	332	340	7.14	297	7.18	-0.04
RAPS- B	440	410	462	464	10.07	420	9.84	0.23
RAPS- C	440	430	477	475	10.20	425	10.32	-0.12
Sub Total (B)	1320	1139	1271	1279	27.41	1142	27.34	0.08
C. NHPC								
Chamera I HPS	540	540	540	0	2.59	108	2.53	0.06
Chamera II HPS	300	200	200	0	1.05	44	1.06	-0.02
Chamera III HPS	231	154	151	0	0.71	29	0.70	0.01
Bairasuil HPS	180	182	182	0	0.83	34	0.88	-0.06
Salal-HPS	690	143	225	125	3.23	135	3.42	-0.19
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	229	323	167	5.63	235	5.78	-0.15
Uri-II HPS	180	106	158	116	3.20	133	2.54	0.66
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	258	270	0	2.38	99	2.38	0.00
Sewa-II HPS	120	119	116	0	1.54	64	1.55	-0.01
Sub Total (C)	3485	1930	2165	408	21.15	881	20.84	0.30
D. NJPC								
Nathpa Jhakri	1500	1605	958	0	6.14	256	5.90	0.24
Sub Total (D)	1500	1605	958	0	6.14	256	5.90	0.24
E. THDC								
Tehri HPS	1000	920	925	0	7.57	315	7.50	0.07
Koteshwar HPS	400	116	302	0	2.83	118	2.80	0.03
Sub Total (E)	1400	1036	1227	0	10.40	433	10.30	0.10
F. BBMB								
Bhakra HPS	1497	623	1008	368	15.28	637	14.95	0.33
Dehar HPS	990	117	330	0	3.42	143	2.80	0.62
Pong HPS	396	158	306	60	3.97	165	3.79	0.18
Sub Total (F)	2883	897	1644	428	22.67	945	21.54	1.13
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	3.07	128	3.07	0.00
Malana Stg-II HPS	100	0	0	0	0.14	6	0.13	0.01
Shree Cement TPS	300	0	247	258	6.24	260	6.43	-0.19
Budhil HPS(IPP)	70	0	8	0	0.12	5	0.26	-0.14
Sub Total (G)	1662	0	255	258	9.92	413	10.22	-0.30
H. Total Regional Entities (A-G)	23532	16888	17869	10013	306.02	12751	304.81	1.21

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	950	790	21.14	881
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	2.01	84
	Guru Hargobind Singh TPS(L.mbt)	920	969	744	20.41	850
	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	1999	1614	43.58	1816
	Total Punjab	5128	2368	1977	52.74	2198
Haryana	Panipat TPS	1367	232	219	5.30	221
	DCRTPP (Yamuna nagar)	600	281	252	6.33	264
	Faridabad GPS (NTPC)	432	203	180	4.61	192
	RGTPP (khedar) (IPP)	1200	588	511	12.95	540
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	373	376	10.21	425
	Thermal (Total)	4944	1677	1538	39.40	1641
	Total Hydro	62	17	10	0.40	17
	Total Haryana	5006	1694	1548	39.80	1658
	Rajasthan	kota TPS	1240	1127	1100	26.76
suratgarh TPS		1500	1126	1068	26.27	1095
Chabra TPS		750	412	378	7.16	298
Dholpur GPS		330	115	114	2.82	117
Ramgarh GPS		221	104	103	3.15	131
RAPS A (NPC)		300	175	175	4.13	172
Barsingar (NLC)		250	209	210	4.85	202
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	580	499	12.82	534
Thermal (Total)		7976	3848	3647	87.96	3665
Total Hydro		550	206	107	4.13	172
Wind power		2191	383	619	12.32	513
Biomass		91	27	27	0.64	27
Solar		201	7	0	0.70	29
Renewable/Others (Total)		2483	410	646	13.66	569
Total Rajasthan		11009	4464	4400	105.74	4406
UP	Anpara TPS	1630	1119	1127	24.30	1013
	Obra TPS	1288	552	339	12.10	504
	Paricha TPS	1140	708	704	15.20	633
	Panki TPS	210	75	85	1.60	67
	Harduaganj TPS	665	217	474	7.30	304
	Tanda TPS (NTPC)	440	401	399	9.77	407
	Roza TPS (IPP)	1200	1080	810	24.50	1021
	Anpara-C (IPP)	1200	976	770	22.48	937
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	364	254	6.29	262
	Thermal (Total)	8223	5492	4962	123.54	5148
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	140	162	3.72	155
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	6332	5824	144.06	6003
Uttarakhand	Total Hydro	1303	505	171	8.95	373
	Total Uttarakhand	1303	505	171	8.95	373
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	116	114	2.80	117
	Pragati Gas Turbine	330	315	271	7.39	308
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	515	415	11.41	475
	Thermal (Total)	2232	946	800	21.59	900
	Total Delhi	2232	946	800	21.59	900
HP	Baspa HPS (IPP)	330	29	0	1.02	43
	Malana HPS (IPP)	86	0	0	0.23	10
	Other Hydro	589	149	102	3.36	140
	Total HP	1005	178	102	4.61	192
J & K	Baglihar HPS (IPP)	450	150	120	3.45	144
	Other Hydro	323	89	129	2.65	110
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	239	249	6.10	254
Total State Control Area Generation		36770	16726	15071	383.59	15983
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4160	3750	125.86	5244
Total Regional Availability(Gross)		60303	38755	28834	815.47	33978

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5994	836	63.92	2663
State Control Area Hydro	5368	1654	1164	37.07	1545
Total Regional Hydro	15928	7648	2000	100.99	4208

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	300	500	0	10.33	0.00	10.33
Gwalior-Agra (D/C)	1204	1178	2108	0	37.58	0.00	37.58
Zerda-Kankroli	-26	-156	181	219	0.00	0.41	-0.41
Zerda-Bhinmal	95	-44	346	138	2.63	0.00	2.63
Malanpur-Auraiya	-90	-62	0	120	0.00	2.04	-2.04
Badod-Kota/Morak	-57	-97	49	163	0.00	1.36	-1.36
Mundra-Mohindergarh(HVDC)	1915	1910	1918	0	48.32	0.00	48.32
Sub Total WR	3541	3029			98.86	3.81	95.05
Pusauli Bypass	200	400	400	0	7.30	0.00	7.30
MZP- GKP (D/C)	50	166	365	0	4.17	0.00	4.17
Patna-Balia(D/C)	303	37	655	0	10.78	0.00	10.78
B'Sharif-Balia (D/C)	137	214	376	0	5.66	0.00	5.66
Pusauli-Balia	-99	-86	0	122	0.00	1.86	-1.86
Gaya-Fatehpur (765 Kv)	-100	-73	149	126	0.19	0.00	0.19
Pusauli-Sahupuri	179	131	195	0	3.30	0.00	3.30
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)	-20	-40	268	100	1.92	0.00	1.92
Sub Total ER	619	721			33.31	2.50	30.81
Total IR Exch	4160	3750			132.18	6.32	125.86

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
27.96	0.13	28.09	18.33	2.16	4.89	7.26	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
51.38	78.98	130.36	30.81	95.05	125.86	-20.56	16.07	-4.50

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	90.00	1.50	90.00	60.70	10.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.41	0.01	49.75	10.17	50.04	0.17	0.13	50.40	49.85

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	02:24	400	06:42	0.0	0.0	0.0	0.0
Gorakhpur	400	429	22:20	407	06:59	0.0	0.0	23.7	0.0
Bareilly	400	424	03:33	400	09:38	0.0	0.0	24.4	0.0
Kanpur	400	418	03:31	395	09:51	0.0	0.0	0.0	0.0
Dadri	400	424	02:28	400	09:42	0.0	0.0	19.2	0.0
Ballabgarh	400	432	03:31	404	09:43	0.0	0.0	47.8	3.7
Bawana	400	429	03:31	407	09:08	0.0	0.0	43.4	0.0
Bassi	400	428	03:57	391	09:18	0.0	0.0	17.4	0.0
Hissar	400	417	03:32	391	09:57	0.0	0.0	0.0	0.0
Moga	400	417	13:01	395	09:56	0.0	0.0	0.0	0.0
Abdullapur	400	427	13:01	404	06:49	0.0	0.0	37.2	0.0
Nalagarh	400	428	23:59	405	09:52	0.0	0.0	35.5	0.0
Kishenpur	400	421	13:01	391	18:51	0.0	0.0	0.1	0.0
Wagoora	400	411	13:01	371	18:56	16.6	60.6	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	731	09:41	0.0	14.0	0.0	0.0
Balia	765	782	21:56	745	06:50	0.0	0.0	0.0	0.0
Moga	765	794	13:02	749	09:57	0.0	0.0	0.0	0.0
Agra	765	818	13:01	766	09:42	0.0	0.0	41.2	0.0
Bhiwani	765	804	13:02	697	09:57	23.7	46.3	2.1	0.0
Unnao	765	768	03:23	733	09:57	0.0	18.7	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	493.67	858.11	486.93	644.48	159.85	472.86
Pong	426.72	384.05	407.19	407.15	405.49	352.07	99.31	256.18
Tehri	829.79	740.04	796.70	555.70	818.65	982.26	69.05	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	57.30	69.61
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 12.02.2014 :
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 : 12.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER