

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.02.2014
Date of Reporting : 15.02.2014

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
35078	1274	36352	50.14	24878	0	24878	50.45	746.9	25.57

* 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	39.93	8.32		48.26	39.34	42.96	3.62	91.22	0.00
Haryana	46.51	0.43		46.94	50.50	47.55	-2.95	94.49	0.02
Rajasthan	96.39	4.57	5.26	106.21	90.01	87.77	-2.23	193.98	0.00
Delhi	19.89			19.89	42.48	42.33	-0.15	62.22	0.96
UP	115.13	2.89	16.80	134.81	75.42	69.43	-5.99	204.25	22.59
Uttarakhand		7.75		7.75	24.04	24.71	0.68	32.47	0.30
HP		5.31		5.31	19.90	18.42	-1.48	23.73	0.01
J & K		6.18	0.00	6.18	33.63	34.68	1.06	40.86	1.70
Chandigarh				0.00	3.32	3.70	0.39	3.70	0.00
Total	317.84	35.46	22.06	375.36	378.63	371.56	-7.06	746.92	25.57

* 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	4423	0	73	-521	3074	0	205	-46	-7.85
Haryana	5022	0	-315	39	3009	0	-222	-72	-6.80
Rajasthan	7988	0	-247	1053	7155	0	-148	1175	41.84
Delhi	3370	34	182	-912	1310	0	-216	-1516	-27.18
UP	9762	1100	-78	445	6880	0	-734	470	7.15
Uttarakhand	1446	40	-99	549	1041	0	-82	530	13.36
HP	1121	0	-220	327	707	0	-22	376	8.30
J&K	1751	100	-77	474	1611	0	-49	567	10.99
Chandigarh	196	0	8	0	91	0	0	-15	-0.09
Total	35078	1274	-773	1454	24878	0	-1268	1467	39.70

* 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	1588	1566	1482	34.43	1434	35.08	-0.66
Rihand I STPS	1000	945	1012	696	20.60	858	20.81	-0.21
Rihand II STPS	1000	975	1036	731	21.35	889	21.59	-0.24
Rihand III STPS	1000	485	512	345	10.60	441	10.68	-0.08
Dadri I STPS	840	815	870	625	16.83	701	17.08	-0.25
Dadri II STPS	980	980	1012	717	19.62	817	19.97	-0.35
Unchahar I TPS	420	408	420	306	8.20	341	8.25	-0.05
Unchahar II TPS	420	405	410	308	7.89	329	7.97	-0.09
Unchahar III TPS	210	202	204	154	3.91	163	3.97	-0.06
ISTPP (Jhajjhar)	1500	1500	638	654	16.06	669	16.16	-0.10
Dadri GPS	830	842	402	396	10.22	426	10.45	-0.23
Anta GPS	419	425	258	201	5.80	242	5.86	-0.06
Auraiya GPS	663	671	162	111	3.67	153	3.55	0.12
Sub Total (A)	11282	10240	8502	6726	179.15	7465	181.42	-2.27
B. NPC								
NAPS	440	301	338	340	7.16	298	7.22	-0.07
RAPS- B	440	410	458	462	10.00	417	9.84	0.16
RAPS- C	440	430	474	476	10.21	426	10.32	-0.11
Sub Total (B)	1320	1141	1270	1278	27.37	1140	27.38	-0.02
C. NHPC								
Chamera I HPS	540	540	540	0	2.55	106	2.54	0.01
Chamera II HPS	300	200	180	0	1.36	57	1.30	0.05
Chamera III HPS	231	154	138	0	0.71	30	0.74	-0.03
Bairasuil HPS	180	182	120	0	0.89	37	1.00	-0.11
Salal-HPS	690	151	228	70	3.18	132	3.62	-0.44
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	221	336	148	5.45	227	5.32	0.13
Uri-II HPS	180	120	168	120	3.09	129	2.88	0.21
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	258	268	0	2.82	118	2.79	0.04
Sewa-II HPS	120	102	121	0	1.24	52	1.25	-0.01
Sub Total (C)	3485	1927	2099	338	21.29	887	21.43	-0.14
D. NJPC								
Nathpa Jhakri	1500	1605	1268	0	7.71	321	7.50	0.21
Sub Total (D)	1500	1605	1268	0	7.71	321	7.50	0.21
E. THDC								
Tehri HPS	1000	910	918	0	7.32	305	7.30	0.02
Koteshwar HPS	400	116	302	0	2.75	115	2.80	-0.05
Sub Total (E)	1400	1026	1220	0	10.07	420	10.10	-0.03
F. BBMB								
Bhakra HPS	1497	681	1165	377	16.60	692	16.35	0.25
Dehar HPS	990	120	330	0	2.98	124	2.87	0.11
Pong HPS	396	158	312	60	3.91	163	3.79	0.12
Sub Total (F)	2883	959	1807	437	23.49	979	23.01	0.48
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.36	15	0.35	0.01
KWHEP HPS(IPP)	1000	0	0	0	4.06	169	3.24	0.81
Malana Stg-II HPS	100	0	0	0	0.10	4	0.10	0.01
Shree Cement TPS	300	0	261	142	5.30	221	5.32	-0.02
Budhil HPS(IPP)	70	0	8	0	0.12	5	0.24	-0.12
Sub Total (G)	1662	0	269	142	9.94	414	9.25	0.68
H. Total Regional Entities (A-G)	23532	16898	16435	8921	279.01	11625	280.09	-1.08

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	810	790	19.37	807
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.81	75
	Guru Hargobind Singh TPS(L.mbt)	920	889	685	18.75	781
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.00	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1779	1555	39.93	1664
	Total Hydro	1148	245	245	8.32	347
Total Punjab	5128	2024	1800	48.26	2011	
Haryana	Panipat TPS	1367	224	218	5.12	214
	DCRTPP (Yamuna nagar)	600	524	508	12.03	501
	Faridabad GPS (NTPC)	432	198	165	4.65	194
	RGTPP (khedar) (IPP)	1200	159	486	8.95	373
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1162	387	15.75	656
	Thermal (Total)	4944	2267	1764	46.51	1938
	Total Hydro	62	20	13	0.43	18
	Total Haryana	5006	2287	1777	46.94	1956
	Rajasthan	kota TPS	1240	1126	1081	26.59
suratgarh TPS		1500	1311	1256	30.93	1289
Chabra TPS		750	422	376	9.85	410
Dholpur GPS		330	114	115	2.82	118
Ramgarh GPS		221	141	143	3.09	129
RAPS A (NPC)		300	175	175	4.13	172
Barsingsar (NLC)		250	211	193	4.90	204
Giral LTPS		250	56	28	1.38	57
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	248	157	12.69	529
Thermal (Total)		7976	3804	3524	96.39	4016
Total Hydro		550	268	85	4.57	190
Wind power		2191	110	312	4.09	171
Biomass		91	23	23	0.55	23
Solar		201	6	0	0.61	26
Renewable/Others (Total)		2483	133	335	5.26	219
Total Rajasthan		11009	4205	3944	106.21	4425
UP		Anpara TPS	1630	1129	756	21.40
	Obra TPS	1288	541	541	11.50	479
	Paricha TPS	1140	928	815	19.20	800
	Panki TPS	210	55	65	1.30	54
	Harduaganj TPS	665	415	261	8.00	333
	Tanda TPS (NTPC)	440	395	322	9.04	377
	Roza TPS (IPP)	1200	774	756	19.58	816
	Anpara-C (IPP)	1200	1059	603	20.02	834
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	196	254	5.10	212
	Thermal (Total)	8223	5492	4373	115.13	4797
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	99	66	2.89	120
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	6291	5139	134.81	5617
Uttarakhand	Total Hydro	1303	398	173	7.75	323
	Total Uttarakhand	1303	398	173	7.75	323
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	73	117	2.21	92
	Pragati Gas Turbine	330	321	267	7.26	302
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	437	380	10.43	435
	Thermal (Total)	2232	831	764	19.89	829
	Total Delhi	2232	831	764	19.89	829
HP	Baspa HPS (IPP)	330	0	0	1.13	47
	Malana HPS (IPP)	86	0	0	0.20	8
	Other Hydro	589	178	84	3.99	166
	Total HP	1005	178	84	5.31	221
J & K	Baglihar HPS (IPP)	450	150	120	3.54	147
	Other Hydro	323	89	129	2.65	110
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	239	249	6.18	258
Total State Control Area Generation		36770	16453	13930	375.36	15640
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4309	2470	108.78	4533
Total Regional Availability(Gross)		60303	37197	25321	763.15	31798

IV. Total Hydro Generation:

Regional Entities Hydro	10560	6394	775	67.08	2795
State Control Area Hydro	5368	1447	915	35.46	1477
Total Regional Hydro	15928	7841	1690	102.54	4272

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	-500	500	500	5.67	2.82	2.86
Gwallior-Agra (D/C)	1258	1228	1951	0	32.67	0.00	32.67
Zerda-Kankroli	-56	-169	167	211	0.00	0.98	-0.98
Zerda-Bhinmal	72	-28	404	125	2.76	0.00	2.76
Malanpur-Auraiya	-61	-33	0	84	0.00	1.37	-1.37
Badod-Kota/Morak	-65	-45	0	140	0.00	0.92	-0.92
Mundra-Mohindergarh(HVDC)	1915	1450	0	1917	45.59	0.00	45.59
Sub Total WR	3563	1903			86.70	6.09	80.61
Pusauli Bypass	300	200	300	0	5.93	0.00	5.93
MZP- GKP (D/C)	29	87	347	0	3.70	0.00	3.70
Patna-Balia(D/C)	377	259	683	0	10.08	0.00	10.08
B'Sharif-Balia (D/C)	253	118	494	0	6.12	0.00	6.12
Pusauli-Balia	-48	-86	0	101	0.00	1.22	-1.22
Gaya-Fatehpur (765 Kv)	-147	-107	171	147	0.00	0.33	-0.33
Pusauli-Sahupuri	140	181	186	0	3.62	0.00	3.62
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)	-127	-57	300	127	0.92	0.00	0.92
Sub Total ER	746	567			30.36	2.19	28.17
Total IR Exch	4309	2470			117.05	8.27	108.78

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
26.45	0.12	26.57	17.60	3.32	5.37	8.43	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
49.61	68.23	117.84	28.17	80.61	108.78	-21.44	12.38	-9.06

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	65.90	2.20	65.90	69.00	34.10

<----- 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			
50.53	2.30	49.71	6.59	50.11	0.41	0.17	50.51	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	416	03:32	402	16:18	0.0	0.0	0.0	0.0
Gorakhpur	400	431	01:53	409	18:31	0.0	0.0	47.0	2.3
Bareilly	400	433	02:29	411	09:40	0.0	0.0	40.9	2.1
Kanpur	400	426	02:23	407	10:04	0.0	0.0	22.4	0.0
Dadri	400	429	01:58	411	16:29	0.0	0.0	42.1	0.0
Ballabgarh	400	436	02:24	417	09:36	0.0	0.0	83.4	31.3
Bawana	400	433	02:24	415	06:37	0.0	0.0	53.8	6.0
Bassi	400	433	20:06	393	08:41	0.0	0.0	39.3	1.2
Hissar	400	421	23:48	401	09:36	0.0	0.0	0.4	0.0
Moga	400	421	04:08	399	09:57	0.0	0.0	0.1	0.0
Abdullapur	400	430	23:04	411	06:39	0.0	0.0	62.4	0.0
Nalagarh	400	429	22:56	411	09:36	0.0	0.0	38.3	0.0
Kishenpur	400	422	14:32	396	10:06	0.0	0.0	0.0	0.0
Wagoora	400	422	14:33	374	18:36	8.1	65.6	0.1	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	781	02:22	750	22:15	0.0	0.0	0.0	0.0
Balia	765	791	03:31	745	18:28	0.0	0.0	0.0	0.0
Moga	765	798	04:08	759	09:58	0.0	0.0	0.0	0.0
Agra	765	824	20:11	776	06:39	0.0	0.0	62.5	0.7
Bhiwani	765	813	20:06	389	22:09	11.9	11.9	18.2	0.0
Unnao	765	780	00:23	739	12:21	0.0	8.6	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	492.03	848.04	486.93	644.48	162.77	489.46
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 14.02.2014 :
Rains in UP,Haryana,Punjab and Delhi area.

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 : 14.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER