

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.02.2014
Date of Reporting : 01.03.2014

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
31843	2184	34026	49.76	22724	0	22724	50.59	683.0	27.93

* 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	42.64	9.82		52.46	38.55	37.22	-1.33	89.68	0.00
Haryana	30.49	0.38		30.87	52.85	51.56	-1.29	82.43	1.18
Rajasthan	76.76	5.01	7.76	89.52	69.07	65.48	-3.59	155.00	0.49
Delhi	19.59			19.59	39.01	39.33	0.32	58.92	0.30
UP	109.14	1.91	16.80	127.85	77.73	73.87	-3.86	201.72	23.59
Uttarakhand		8.72		8.72	19.89	20.22	0.33	28.94	0.16
HP		5.34		5.34	17.63	18.69	1.06	24.02	0.51
J & K		5.29	0.00	5.29	31.66	33.67	2.01	38.96	1.70
Chandigarh				0.00	3.13	3.37	0.25	3.37	0.00
Total	278.62	36.46	24.56	339.64	349.51	343.40	-6.10	683.04	27.93

* 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	4377	0	-316	-676	2875	0	-135	115	-5.28
Haryana	4560	0	-338	-296	2015	0	-401	-165	-7.98
Rajasthan	6727	205	-41	683	5524	0	-215	1027	30.84
Delhi	3104	36	22	-767	1201	0	-164	-1591	-24.46
UP	8383	1745	-782	291	7759	0	153	477	7.60
Uttarakhand	1619	35	64	418	979	0	63	441	10.46
HP	1050	63	-24	115	767	0	106	311	6.35
J&K	1841	100	72	369	1525	0	57	608	10.66
Chandigarh	183	0	-9	0	79	0	-10	0	0.00
Total	31843	2184	-1352	137	22724	0	-547	1223	28.20

* 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	1934	1569	1454	33.02	1376	33.18	-0.16
Rihand I STPS	1000	945	1015	677	19.81	825	19.95	-0.14
Rihand II STPS	1000	975	1042	680	20.61	859	20.70	-0.10
Rihand III STPS	1000	480	516	327	10.43	435	10.53	-0.10
Dadri I STPS	840	815	808	595	14.53	605	15.07	-0.54
Dadri II STPS	980	980	960	664	18.71	780	19.22	-0.51
Unchahar I TPS	420	406	202	198	4.61	192	4.93	-0.33
Unchahar II TPS	420	406	355	260	5.46	228	5.45	0.01
Unchahar III TPS	210	203	217	142	3.90	163	3.86	0.04
ISTPP (Jhajjhar)	1500	1500	500	348	9.96	415	10.36	-0.40
Dadri GPS	830	839	315	0	3.83	160	3.75	0.08
Anta GPS	419	415	196	248	6.10	254	0.28	5.81
Auraiya GPS	663	674	159	86	3.02	126	2.65	0.37
Sub Total (A)	11282	10572	7854	5679	153.98	6416	149.94	4.04
B. NPC								
NAPS	440	292	329	338	7.08	295	7.01	0.07
RAPS- B	440	415	455	461	9.96	415	9.96	0.00
RAPS- C	440	430	469	475	10.23	426	10.32	-0.09
Sub Total (B)	1320	1137	1253	1274	27.27	1136	27.29	-0.02
C. NHPC								
Chamera I HPS	540	540	540	0	3.38	141	3.60	-0.22
Chamera II HPS	300	200	204	0	1.48	62	1.45	0.03
Chamera III HPS	231	172	222	0	0.72	30	0.70	0.02
Bairasuil HPS	180	182	181	0	1.27	53	1.36	-0.09
Salal-HPS	690	138	230	42	3.31	138	3.22	0.09
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	206	335	117	5.24	219	4.95	0.29
Uri-II HPS	180	105	181	80	3.27	136	2.52	0.74
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	257	271	0	2.78	116	2.73	0.05
Sewa-II HPS	120	119	125	0	0.95	40	0.94	0.01
Parbati 3	520	0	0	0	0.00	0	0.00	0.00
Sub Total (C)	4005	1919	2289	239	22	933	21	1
D. NJPC								
Nathpa Jhakri	1500	1605	776	0	6.41	267	6.30	0.11
Sub Total (D)	1500	1605	776	0	6.41	267	6.30	0.11
E. THDC								
Tehri HPS	1000	876	881	0	7.22	301	7.20	0.02
Koteshwar HPS	400	116	303	0	2.82	117	2.80	0.02
Sub Total (E)	1400	992	1184	0	10.03	418	10.00	0.03
F. BBMB								
Bhakra HPS	1497	750	1160	360	18.11	755	17.99	0.12
Dehar HPS	990	137	330	0	3.58	149	3.29	0.29
Pong HPS	396	228	306	0	5.49	229	5.47	0.02
Sub Total (F)	2883	1115	1796	360	27.18	1133	26.75	0.43
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	90	0	0.36	15	0.35	0.01
KWHEP HPS(IPP)	1000	0	0	0	3.28	137	3.24	0.04
Malana Stg-II HPS	100	0	0	0	0.11	5	0.11	0.01
Shree Cement TPS	300	0	140	140	3.42	143	4.59	-1.17
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.17	-0.15
Sub Total (G)	1662	0	230	140	7.20	300	8.46	-1.26
H. Total Regional Entities (A-G)	24052	17340	15382	7692	254.47	10603	250.21	4.26

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	900	810	20.03	834
	Guru Nanak Dev TPS(Bhatinda)	440	230	170	4.57	191
	Guru Hargobind Singh TPS(L.mbt)	920	755	684	18.04	752
	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	1885	1664	42.64	1777
	Total Hydro	1148	357	332	9.82	409
Total Punjab	5128	2242	1996	52.46	2186	
Haryana	Panipat TPS	1367	223	216	5.16	215
	DCRTPP (Yamuna nagar)	600	279	295	6.63	276
	Faridabad GPS (NTPC)	432	363	271	7.70	321
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	567	368	11.00	458
	Thermal (Total)	4944	1432	1150	30.49	1271
	Total Hydro	62	16	17	0.38	16
Total Haryana	5006	1448	1167	30.87	1286	
Rajasthan	kota TPS	1240	771	858	19.82	826
	suratgarh TPS	1500	923	1029	22.77	949
	Chabra TPS	750	410	556	11.55	481
	Dholpur GPS	330	0	0	0.34	14
	Ramgarh GPS	221	113	32	2.06	86
	RAPS A (NPC)	300	175	175	4.13	172
	Barsingsar (NLC)	250	204	202	4.67	194
	Giral LTTPS	250	76	76	1.13	47
	Rajwest LTTPS (IPP)	1080	0	0	0.00	0
	VSLP LTTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	430	425	10.30	429
	Thermal (Total)	7976	3102	3353	76.76	3198
	Total Hydro	550	270	10	5.01	209
	Wind power	2191	226	354	7.03	293
	Biomass	91	28	28	0.67	28
	Solar	201	0	0	0.06	2
Renewable/Others (Total)	2483	254	382	7.76	323	
Total Rajasthan	11009	3626	3745	89.52	3730	
UP	Anpara TPS	1630	1115	771	22.30	929
	Obra TPS	1288	345	326	7.20	300
	Paricha TPS	1140	850	834	17.50	729
	Panki TPS	210	85	90	1.80	75
	Harduaganj TPS	665	476	402	9.90	413
	Tanda TPS (NTPC)	440	396	318	9.06	377
	Roza TPS (IPP)	1200	594	567	14.80	617
	Anpara-C (IPP)	1200	946	650	21.31	888
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	257	224	5.27	220
	Thermal (Total)	8223	5064	4182	109.14	4548
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	87	32	1.91	79
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5851	4914	127.85	5327
Uttarakhand	Total Hydro	1303	587	146	8.72	363
	Total Uttarakhand	1303	587	146	8.72	363
Delhi	Rajghat TPS	135	52	52	1.07	45
	Delhi Gas Turbine	282	80	74	1.85	77
	Pragati Gas Turbine	330	303	264	6.50	271
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	461	367	10.17	424
	Thermal (Total)	2232	896	757	19.59	816
	Total Delhi	2232	896	757	19.59	816
HP	Baspa HPS (IPP)	330	0	0	1.05	44
	Malana HPS (IPP)	86	43	0	0.20	8
	Other Hydro	589	257	107	4.09	170
	Total HP	1005	300	107	5.34	222
J & K	Baglihar HPS (IPP)	450	150	148	3.00	125
	Other Hydro	323	90	130	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	240	278	5.29	220
Total State Control Area Generation		36770	15190	13110	339.64	14152
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4258	2952	118.23	4926
Total Regional Availability(Gross)		60823	34830	23754	712.34	29681

IV. Total Hydro Generation:

Regional Entities Hydro	11080	6135	599	69.78	2907
State Control Area Hydro	5368	1857	922	36.46	1519
Total Regional Hydro	16448	7992	1521	106.23	4426

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	250	500	0	9.56	0.00	9.56
Gwalior-Agra (D/C)	878	982	1082	0	39.68	0.00	39.68
Zerda-Kankroli	-129	-289	2	431	0.00	3.40	-3.40
Zerda-Bhinmal	-49	-161	203	331	0.04	0.10	-0.06
Malanpur-Auraiya	-64	-46	0	79	0.00	1.14	-1.14
Badod-Kota/Morak	24	-31	134	103	0.93	0.00	0.93
Mundra-Mohindergarh(HVDC)	1998	1402	2015	0	44.95	0.00	44.95
Sub Total WR	3158	2107			95.16	4.64	90.52
Pusauli Bypass	3	300	400	0	5.44	0.00	5.44
MZP- GKP (D/C)	13	109	247	0	2.19	0.00	2.19
Patna-Balia(D/C)	513	316	728	0	10.82	0.00	10.82
B'Sharif-Balia (D/C)	341	165	555	0	7.21	0.00	7.21
Pusauli-Balia	51	-42	51	64	0.00	0.37	-0.37
Gaya-Fatehpur (765 Kv)	91	-16	108	183	0.00	0.04	-0.04
Pusauli-Sahupuri	130	82	137	0	2.48	0.00	2.48
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-28	0	0	0.00	0.66	-0.66
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-12	-41	160	154	0.63	0.00	0.63
Sub Total ER	1100	845			28.78	1.07	27.70
Total IR Exch	4258	2952			123.94	5.71	118.23

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
30.73	0.13	30.86	12.05	4.32	3.62	3.47	0.06	-0.06
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
46.59	68.96	115.55	27.70	90.52	118.23	-18.88	21.56	2.68

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	2.20	5.70	21.50	47.00	39.10	10.60	28.80	23.20	NA

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				
50.61	23.59	49.80	8.21	50.11	0.32	0.14	50.73	49.55

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	01:29	406	06:23	0.0	0.0	0.0	0.0
Gorakhpur	400	426	00:00	409	16:16	0.0	0.0	30.2	0.0
Bareilly	400	442	11:54	401	06:04	0.0	0.0	39.1	0.3
Kanpur	400	424	01:59	403	06:20	0.0	0.0	12.6	0.0
Dadri	400	426	23:59	409	18:50	0.0	0.0	16.3	0.0
Ballabgarh	400	439	01:58	416	06:23	0.0	0.0	79.3	25.2
Bawana	400	434	01:57	412	18:49	0.0	0.0	55.2	13.3
Bassi	400	435	01:56	409	07:45	0.0	0.0	69.2	20.0
Hissar	400	422	02:02	400	06:33	0.0	0.0	3.5	0.0
Moga	400	417	02:10	398	06:32	0.0	0.0	0.0	0.0
Abdullapur	400	430	01:31	407	05:51	0.0	0.0	37.9	0.0
Nalagarh	400	431	02:10	406	12:15	0.0	0.0	30.8	0.7
Kishenpur	400	416	01:01	373	18:28	1.9	5.8	0.0	0.0
Wagoora	400	396	02:07	373	18:54	13.9	67.2	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	781	02:10	738	06:22	0.0	1.8	0.0	0.0
Balia	765	788	02:06	750	15:59	0.0	0.0	0.0	0.0
Moga	765	799	02:10	759	06:33	0.0	0.0	0.0	0.0
Agra	765	820	21:37	759	06:31	0.0	0.0	19.7	0.0
Bhiwani	765	810	02:10	767	06:27	0.0	0.0	16.1	0.0
Unnao	765	767	05:11	740	13:54	0.0	17.2	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	489.45	719.44	485.56	602.35	188.02	579.28
Pong	426.72	384.05	405.47	352.07	403.76	312.39	82.54	366.11
Tehri	829.79	740.04	791.30	472.43	818.65	982.26	67.16	178.00
Koteshwar	612.50	598.50	609.96	4.44	609.60	4.21	178.00	183.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	79.77	92.09
Rihand	268.22	252.98	259.51	278.10	259.32	268.30	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 28.02.2014 :
Rains/Thunder storm in NR.

XIII. Synchronisation of new generating units :
0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :
315 MVA ICT-III at Kishanpur synchronised 1st time at 21:28 hrs. of 28/02/2014

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 : 28.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER