

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.02.2014
Date of Reporting : 10.02.2014

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
33372	1962	35334	50.06	27534	0	27534	50.10	740.1	38.94

* 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	40.71	8.07		48.78	34.43	35.51	1.08	84.29	0.00
Haryana	44.48	0.44		44.92	48.85	48.22	-0.63	93.15	0.13
Rajasthan	82.56	5.21	3.93	91.70	100.46	102.19	1.73	193.89	1.76
Delhi	23.58			23.58	35.27	34.12	-1.15	57.71	0.26
UP	115.53	3.15	16.80	135.48	81.99	80.19	-1.80	215.67	34.42
Uttarakhand		8.48		8.48	22.09	23.74	1.65	32.22	0.38
HP		4.44		4.44	18.19	17.09	-1.10	21.53	0.29
J & K		6.16	0.00	6.16	33.14	32.30	-0.84	38.46	1.70
Chandigarh				0.00	2.98	3.18	0.20	3.18	0.00
Total	306.87	35.96	20.73	363.55	377.40	376.54	-0.86	740.09	38.94

* 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	4195	0	-54	-358	2833	0	125	32	-6.83	
Haryana	4791	0	-135	-386	3322	0	39	-234	-12.43	
Rajasthan	7980	252	105	1453	7346	0	325	1337	44.57	
Delhi	2955	10	116	-962	1404	0	-149	-1588	-26.65	
UP	8842	1560	-271	383	9284	0	-51	428	6.02	
Uttarakhand	1581	40	83	465	1147	0	73	456	11.12	
HP	1043	0	-91	237	701	0	-10	381	8.06	
J&K	1815	100	1	544	1408	0	-170	631	12.71	
Chandigarh	169	0	4	0	90	0	14	-15	-0.08	
Total	33372	1962	-241	1376	27534	0	195	1427	36.51	

* 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	761	711	987	18.12	755	18.10	0.01	
Rihand II STPS	1000	928	925	941	22.04	918	21.95	0.08	
Rihand III STPS	1000	21	0	0	0.50	21	0.57	-0.07	
Dadri I STPS	840	679	880	663	16.01	667	16.26	-0.25	
Dadri II STPS	980	804	1013	740	18.77	782	18.99	-0.22	
Unchahar I TPS	420	406	440	358	8.96	373	9.05	-0.09	
Unchahar II TPS	420	405	439	317	8.57	357	8.64	-0.07	
Unchahar III TPS	210	202	220	158	4.35	181	4.40	-0.05	
ISTPP (Jhajjar)	1500	1500	996	632	18.56	773	18.83	-0.27	
Dadri GPS	830	842	591	543	13.45	560	13.58	-0.13	
Anta GPS	419	418	278	266	6.36	265	6.40	-0.04	
Auraiya GPS	663	648	161	163	3.87	161	3.73	0.15	
Sub Total (A)	11282	9179	8369.53	7470.55	177.25	7386	178.02	-0.76	
B. NPC	NAPS	440	291	335	332	7.17	299	6.98	0.19
	RAPS- B	440	210	227	230	4.73	197	5.09	-0.36
	RAPS- C	440	430	476	476	10.25	427	10.32	-0.07
Sub Total (B)	1320	931	1038	1038	22.15	923	22.40	-0.24	
C. NHPC	Chamera I HPS	540	540	540	0	3.58	149	3.50	0.08
	Chamera II HPS	300	200	200	0	1.11	46	1.19	-0.08
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	182	180	0	1.14	48	1.18	-0.04
	Salal-HPS	690	164	230	0	4.05	169	3.89	0.16
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	214	321	156	5.46	227	5.41	0.05
	Uri-II HPS	180	107	163	80	3.11	129	2.58	0.53
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	258	273	0	1.68	70	1.63	0.04
	Sewa-II HPS	120	119	125	0	1.25	52	1.20	0.05
Sub Total (C)	3485	1785	2032	236	21.36	890	20.57	0.79	
D. NJPC	Nathpa Jhakri	1500	1605	746	0	5.83	243	6.36	-0.54
Sub Total (D)	1500	1605	746	0	5.83	243	6.36	-0.54	
E. THDC	Tehri HPS	1000	913	705	0	7.45	311	7.50	-0.05
	Koteshwar HPS	400	131	298	0	2.79	116	2.80	-0.01
Sub Total (E)	1400	1044	1003	0	10.24	427	10.30	-0.06	
F. BBMB	Bhakra HPS	1497	623	999	389	15.28	637	14.96	0.32
	Dehar HPS	990	115	420	0	3.43	143	2.77	0.67
	Pong HPS	396	168	312	60	4.06	169	4.02	0.04
Sub Total (F)	2883	906	1731	449	22.77	949	21.74	1.03	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.24	10	0.23	0.01
	KWHEP HPS(IPP)	1000	0	0	0	3.00	125	3.18	-0.18
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.13	-0.13
	Shree Cement TPS	300	0	260	145	5.34	222	5.36	-0.02
	Budhil HPS(IPP)	70	0	8	0	0.12	5	0.19	-0.07
Sub Total (G)	1662	0	268	145	8.69	362	9.08	-0.39	
H. Total Regional Entities (A-G)	23532	15449	15188	9338	268.30	11179	268.47	-0.17	

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	640	640	14.63	610
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.82	76
	Guru Hargobind Singh TPS(L.mbt)	920	498	630	12.46	519
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	650	284	11.81	492
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1868	1634	40.71	1696
	Total Hydro	1148	235	353	8.07	336
Total Punjab	5128	2103	1987	48.78	2033	
Haryana	Panipat TPS	1367	221	220	5.22	217
	DCRTPP (Yamuna nagar)	600	551	503	12.22	509
	Faridabad GPS (NTPC)	432	171	166	4.10	171
	RGTPP (khedar) (IPP)	1200	566	499	12.53	522
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	557	372	10.42	434
	Thermal (Total)	4944	2066	1760	44.48	1853
	Total Hydro	62	17	20	0.44	18
	Total Haryana	5006	2083	1780	44.92	1872
Rajasthan	kota TPS	1240	1063	1159	25.83	1076
	suratgarh TPS	1500	1354	1349	32.22	1342
	Chabra TPS	750	424	381	3.16	132
	Dholpur GPS	330	127	127	10.22	426
	Ramgarh GPS	221	41	115	2.04	85
	RAPS A (NPC)	300	175	175	4.15	173
	Barsingsar (NLC)	250	210	208	4.95	206
	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	34	0	0.00	0
	Thermal (Total)	7976	3428	3514	82.56	3440
	Total Hydro	550	314	111	5.21	217
	Wind power	2191	51	174	2.55	106
	Biomass	91	26	26	0.63	26
	Solar	201	7	0	0.75	31
	Renewable/Others (Total)	2483	77	200	3.93	164
Total Rajasthan	11009	3819	3825	91.70	3821	
UP	Anpara TPS	1630	1132	1117	24.30	1013
	Obra TPS	1288	533	381	9.90	413
	Paricha TPS	1140	865	947	19.70	821
	Panki TPS	210	70	65	1.40	58
	Harduaganj TPS	665	491	488	10.00	417
	Tanda TPS (NTPC)	440	397	396	9.69	404
	Roza TPS (IPP)	1200	756	1080	20.60	858
	Anpara-C (IPP)	1200	537	531	12.53	522
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	254	366	7.42	309
	Thermal (Total)	8223	5035	5371	115.53	4814
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	83	157	3.15	131
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5818	6228	135.48	5645
Uttarakhand	Total Hydro	1303	506	169	8.48	353
	Total Uttarakhand	1303	506	169	8.48	353
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	158	161	3.82	159
	Pragati Gas Turbine	330	271	266	7.28	303
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	520	510	12.49	520
	Thermal (Total)	2232	949	937	23.58	983
	Total Delhi	2232	949	937	23.58	983
HP	Baspa HPS (IPP)	330	30	0	0.92	38
	Malana HPS (IPP)	86	0	0	0.09	4
	Other Hydro	589	183	125	3.43	143
	Total HP	1005	213	125	4.44	185
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	15728	15326	363.55	15148
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			5674	4336	126.80	5283
Total Regional Availability(Gross)		60303	36590	29000	758.65	31610

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5512	685	63.44	2643
State Control Area Hydro	5368	1605	1210	35.96	1498
Total Regional Hydro	15928	7117	1895	99.39	4141

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	200	500	100	9.91	0.07	9.84
Gwallor-Agra (D/C)	1421	1391	1719	0	33.36	0.00	33.36
Zerda-Kankroli	134	-147	192	162	1.03	0.00	1.03
Zerda-Bhinmal	281	-14	386	40	4.72	0.00	4.72
Malanpur-Auraiya	-99	-68	0	118	0.00	2.12	-2.12
Badod-Kota/Morak	66	-33	86	44	0.47	0.00	0.47
Mundra-Mohindergarh(HVDC)	2002	2002	2005	0	48.32	0.00	48.32
Sub Total WR	4305	3331			97.81	2.19	95.62
Pusauli Bypass	-341	-316	0	478	0.00	7.03	-7.03
MZP- GKP (D/C)	137	223	345	0	4.81	0.00	4.81
Patna-Balia(D/C)	621	501	727	0	14.12	0.00	14.12
B'Sharif-Balia (D/C)	269	259	428	0	7.18	0.00	7.18
Pusauli-Balia	102	53	149	0	0.18	0.00	0.18
Gaya-Fatehpur (765 Kv)	88	-27	236	47	1.76	0.00	1.76
Pusauli-Sahupuri	161	176	186	0	3.76	0.00	3.76
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)	363	164	505	0	7.04	0.00	7.04
Sub Total ER	1369	1005			38.85	7.67	31.18
Total IR Exch	5674	4336			136.66	9.86	126.80

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
29.58	0.18	29.76	17.02	2.08	7.70	5.12	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
54.56	73.93	128.49	31.18	95.62	126.80	-23.38	21.70	-1.69

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	1.80	97.90	0.69	96.10	33.70	2.10

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.40	18.03	49.60	9.13	49.94	0.19	0.13	50.38	49.80

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	413	03:43	403	06:26	0.0	0.0	0.0	0.0
Gorakhpur	400	426	12:24	408	19:01	0.0	0.0	34.9	0.0
Bareilly	400	424	14:04	393	08:25	0.0	0.0	7.9	0.0
Kanpur	400	420	03:19	404	08:48	0.0	0.0	0.0	0.0
Dadri	400	426	03:59	410	08:39	0.0	0.0	35.6	0.0
Ballabgarh	400	433	03:20	414	09:09	0.0	0.0	73.5	9.0
Bawana	400	431	03:58	413	08:39	0.0	0.0	66.2	0.4
Bassi	400	434	04:03	394	09:10	0.0	0.0	32.8	1.1
Hissar	400	420	03:59	400	09:09	0.0	0.0	0.0	0.0
Moga	400	420	00:00	227	09:25	1.4	20.4	0.0	0.0
Abdullapur	400	429	04:01	407	16:31	0.0	0.0	46.6	0.0
Nalagarh	400	429	03:59	412	08:24	0.0	0.0	59.6	0.0
Kishenpur	400	423	23:59	392	19:11	0.0	0.0	1.0	0.0
Wagoora	400	407	04:01	368	19:19	24.8	65.7	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	778	14:05	728	07:30	0.0	7.8	0.0	0.0
Balia	765	783	21:28	754	18:24	0.0	0.0	0.0	0.0
Moga	765	798	00:00	759	09:09	0.0	0.0	0.0	0.0
Agra	765	817	18:04	777	09:11	0.0	0.0	51.5	0.0
Bhiwani	765	807	00:00	774	08:43	0.0	0.0	27.7	0.0
Unnao	765	764	03:22	738	09:11	0.0	0.9	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	495.09	903.28	487.50	652.97	153.96	459.75
Pong	426.72	384.05	407.78	425.81	406.14	370.28	54.34	319.78
Tehri	829.79	740.04	799.20	592.30	818.65	982.26	61.68	186.00
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	259.96	302.90	259.90	899.60	NA	220.04
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	14.40	511.10	14.40	58.30	106.05

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 09.02.2014 :
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 : 09.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER