

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.02.2014
Date of Reporting : 09.02.2014

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
34584	2625	37209	49.96	27190	0	27190	50.10	749.5	43.35

* 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	39.97	8.77		48.73	36.15	37.83	1.68	86.57	2.00
Haryana	44.72	0.47		45.19	54.86	55.55	0.68	100.73	0.21
Rajasthan	84.96	4.86	6.26	96.09	87.20	91.63	4.43	187.72	5.83
Delhi	23.97			23.97	35.77	35.74	-0.03	59.71	0.44
UP	113.84	3.03	16.80	133.68	85.94	84.69	-1.26	218.36	32.83
Uttarakhand		8.99		8.99	22.82	24.79	1.98	33.78	0.35
HP		4.78		4.78	18.87	18.98	0.11	23.76	0.00
J & K		3.22	0.00	3.22	33.81	32.16	-1.65	35.38	1.70
Chandigarh				0.00	3.13	3.51	0.38	3.51	0.00
Total	307.45	34.12	23.06	364.63	378.55	384.88	6.32	749.51	43.35

* 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	4605	0	150	-472	2897	0	100	0	-7.85
Haryana	5402	0	-66	-319	3360	0	166	-284	-5.74
Rajasthan	7588	452	194	1213	7396	0	235	1062	30.61
Delhi	3097	53	145	-968	1420	0	-4	-1681	-27.48
UP	9145	1985	-249	407	8788	0	-71	435	6.44
Uttarakhand	1708	35	90	548	1136	0	119	451	11.70
HP	1122	0	-39	237	702	0	-2	376	8.10
J&K	1735	100	-86	493	1398	0	-242	586	12.14
Chandigarh	183	0	-4	0	93	0	19	-20	-0.09
Total	34584	2625	134	1139	27190	0	319	926	27.83

* 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	1874	1773	2047	44.12	1838	44.97	-0.84
Rihand I STPS	1000	940	1023	1015	22.63	943	22.50	0.13
Rihand II STPS	1000	985	1041	1049	23.63	985	23.59	0.04
Rihand III STPS	1000	6	0	0	0.00	0	0.24	-0.24
Dadri I STPS	840	654	852	590	15.27	636	15.51	-0.25
Dadri II STPS	980	840	1015	681	19.62	817	19.80	-0.18
Unchahar I TPS	420	406	442	372	9.08	378	9.31	-0.24
Unchahar II TPS	420	405	437	325	8.85	369	8.92	-0.07
Unchahar III TPS	210	202	219	173	4.45	186	4.50	-0.05
ISTPP (Jhajjhar)	1500	1500	1014	622	19.36	807	19.79	-0.43
Dadri GPS	830	844	514	518	13.53	564	13.76	-0.23
Anta GPS	419	418	276	275	6.25	260	6.39	-0.14
Auraiya GPS	663	670	159	161	3.72	155	3.85	-0.13
Sub Total (A)	11282	9743	8765.16	7828.26	190.50	7938	193.15	-2.65
B. NPC								
NAPS	440	291	325	332	7.05	294	6.98	0.07
RAPS- B	440	285	227	463	6.45	269	6.83	-0.39
RAPS- C	440	430	475	475	10.25	427	10.32	-0.07
Sub Total (B)	1320	1006	1027	1270	23.75	989	24.14	-0.39
C. NHPC								
Chamera I HPS	540	540	540	0	2.69	112	2.65	0.04
Chamera II HPS	300	200	201	0	1.40	58	1.44	-0.04
Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
Bairasuil HPS	180	182	120	120	1.42	59	1.43	-0.01
Salal-HPS	690	216	320	230	4.93	205	5.23	-0.30
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	176	271	141	4.94	206	4.37	0.57
Uri-II HPS	180	91	153	80	2.84	118	2.24	0.60
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	258	271	0	2.42	101	2.43	-0.01
Sewa-II HPS	120	119	125	121	2.84	118	2.86	-0.02
Sub Total (C)	3485	1782	2001	692	23.47	978	22.64	0.83
D. NJPC								
Nathpa Jhakri	1500	1605	735	0	6.50	271	6.40	0.10
Sub Total (D)	1500	1605	735	0	6.50	271	6.40	0.10
E. THDC								
Tehri HPS	1000	906	703	0	7.56	315	7.50	0.06
Koteshwar HPS	400	116	301	0	2.83	118	2.80	0.03
Sub Total (E)	1400	1022	1004	0	10.38	433	10.30	0.08
F. BBMB								
Bhakra HPS	1497	631	1003	388	15.61	650	15.14	0.47
Dehar HPS	990	115	330	0	2.90	121	2.77	0.14
Pong HPS	396	176	312	120	4.27	178	4.23	0.04
Sub Total (F)	2883	923	1645	508	22.78	949	22.14	0.64
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.38	16	0.37	0.01
KWHEP HPS(IPP)	1000	0	0	0	3.16	132	3.32	-0.16
Malana Stg-II HPS	100	0	0	0	0.00	0	0.02	-0.02
Shree Cement TPS	300	0	251	145	5.68	237	5.16	0.52
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.19	-0.19
Sub Total (G)	1662	0	251	145	9.23	384	9.07	0.16
H. Total Regional Entities (A-G)	23532	16081	15428	10444	286.61	11942	287.84	-1.23

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	660	640	16.44	685
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.85	77
	Guru Hargobind Singh TPS(L.mbt)	920	582	723	15.13	631
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	654	0	6.54	273
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1976	1443	39.97	1665
	Total Hydro	1148	349	351	8.77	365
	Total Punjab	5128	2325	1794	48.73	2031
Haryana	Panipat TPS	1367	229	215	5.10	213
	DCRTPP (Yamuna nagar)	600	556	504	12.15	506
	Faridabad GPS (NTPC)	432	202	157	4.41	184
	RGTPP (khedar) (IPP)	1200	586	497	12.41	517
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	613	372	10.65	444
	Thermal (Total)	4944	2186	1745	44.72	1863
	Total Hydro	62	14	18	0.47	20
	Total Haryana	5006	2200	1763	45.19	1883
	Rajasthan	kota TPS	1240	1167	1128	27.25
suratgarh TPS		1500	1277	1352	31.66	1319
Chabra TPS		750	408	278	8.55	356
Dholpur GPS		330	127	127	3.16	132
Ramgarh GPS		221	118	131	3.03	126
RAPS A (NPC)		300	175	175	4.16	173
Barsingar (NLC)		250	209	179	4.74	197
Giral LTPS		250	0	0	0.37	15
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	0	335	2.05	86
Thermal (Total)		7976	3481	3705	84.96	3540
Total Hydro		550	265	192	4.86	203
Wind power		2191	131	262	5.05	210
Biomass		91	25	25	0.61	25
Solar		201	6	0	0.60	25
Renewable/Others (Total)		2483	156	287	6.26	261
Total Rajasthan		11009	3902	4184	96.09	4004
UP	Anpara TPS	1630	1129	1112	24.20	1008
	Obra TPS	1288	386	346	7.70	321
	Paricha TPS	1140	905	862	18.90	788
	Panki TPS	210	65	80	1.50	63
	Harduaganj TPS	665	253	378	8.40	350
	Tanda TPS (NTPC)	440	399	400	9.71	404
	Roza TPS (IPP)	1200	1103	792	24.70	1029
	Anpara-C (IPP)	1200	543	542	12.62	526
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	248	254	6.12	255
	Thermal (Total)	8223	5031	4766	113.84	4744
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	108	99	3.03	126
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5839	5565	133.68	5570
Uttarakhand	Total Hydro	1303	506	182	8.99	374
	Total Uttarakhand	1303	506	182	8.99	374
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	164	161	3.77	157
	Pragati Gas Turbine	330	319	266	7.38	308
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	602	510	12.82	534
	Thermal (Total)	2232	1085	937	23.97	999
	Total Delhi	2232	1085	937	23.97	999
HP	Baspa HPS (IPP)	330	0	0	0.93	39
	Malana HPS (IPP)	86	0	0	0.10	4
	Other Hydro	589	214	109	3.75	156
	Total HP	1005	214	109	4.78	199
J & K	Baglihar HPS (IPP)	450	146	118	3.22	134
	Other Hydro	323	0	0	0.00	0
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	146	118	3.22	134
Total State Control Area Generation		36770	16217	14652	364.63	15193
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			5100	2438	118.30	4929
Total Regional Availability(Gross)		60303	36745	27534	769.54	32064

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5385	1200	66.67	2778
State Control Area Hydro	5368	1602	1069	34.12	1421
Total Regional Hydro	15928	6987	2269	100.79	4200

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	300	9.16	1.17	7.99
Gwalior-Agra (D/C)	1356	1572	1759	0	33.74	0.00	33.74
Zerda-Kankroli	28	-75	124	98	0.16	0.00	0.16
Zerda-Bhinmal	173	82	317	4	3.61	0.00	3.61
Malanpur-Auraiya	-86	-37	0	111	0.00	1.67	-1.67
Badod-Kota/Morak	26	-7	67	75	0.00	0.83	-0.83
Mundra-Mohinderghar(HVDC)	1998		2005	0	43.97	0.00	43.97
Sub Total WR	3995	1235			90.63	3.66	86.97
Pusauli Bypass	-345	-245	0	446	0.00	6.60	-6.60
MZP- GKP (D/C)	92	285	306	0	5.00	0.00	5.00
Patna-Balia(D/C)	574	548	705	0	13.90	0.00	13.90
B'Sharni-Balia (D/C)	255	280	369	0	6.49	0.00	6.49
Pusauli-Balia	-11	14	37	29	0.00	0.09	-0.09
Gaya-Fatehpur (765 Kv)	74	-30	218	46	1.77	0.00	1.77
Pusauli-Sahupuri	161	173	193	0	3.74	0.00	3.74
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	305	178	486	0	7.12	0.00	7.12
Sub Total ER	1105	1203			38.02	6.69	31.33
Total IR Exch	5100	2438			128.65	10.34	118.30

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
29.90	0.25	30.15	16.81	3.20	4.67	-1.85	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
51.70	58.80	110.50	31.33	86.97	118.30	-20.37	28.17	7.80

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	97.20	3.40	97.20	52.90	2.80

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.49	18.04	49.70	9.12	50.00	0.11	0.10	50.32	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	409	00:00	401	07:21	0.0	0.0	0.0	0.0
Gorakhpur	400	425	21:41	408	18:25	0.0	0.0	51.7	0.0
Bareilly	400	426	00:53	405	09:19	0.0	0.0	24.9	0.0
Kanpur	400	422	03:00	401	09:18	0.0	0.0	8.7	0.0
Dadri	400	422	23:57	404	10:05	0.0	0.0	0.8	0.0
Ballabgarh	400	433	00:52	409	10:03	0.0	0.0	47.2	14.8
Bawana	400	431	00:52	410	09:18	0.0	0.0	42.5	0.4
Bassi	400	431	05:03	394	07:41	0.0	0.0	33.3	0.0
Hissar	400	420	00:01	400	10:03	0.0	0.0	0.0	0.0
Moga	400	421	23:57	400	10:03	0.0	0.0	0.1	0.0
Abdullapur	400	429	00:52	410	06:26	0.0	0.0	48.7	0.0
Nalagarh	400	428	00:53	410	10:03	0.0	0.0	35.0	0.0
Kishenpur	400	421	04:42	393	18:47	0.0	0.0	0.2	0.0
Wagoora	400	403	04:42	361	19:15	40.2	63.9	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	780	03:01	737	09:11	0.0	2.4	0.0	0.0
Balia	765	781	03:00	747	18:26	0.0	0.0	0.0	0.0
Moga	765	798	23:57	758	10:05	0.0	0.0	0.0	0.0
Agra	765	816	00:53	771	09:12	0.0	0.0	42.3	0.0
Bhiwani	765	809	00:00	768	07:40	0.0	0.0	15.6	0.0
Unnao	765	768	02:58	738	10:07	0.0	5.8	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	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
Koteswar	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:

400 KV Kishanpur-new wanpoh 2 under breakdown due to broken earth wire since 02:32 hrs. of 05-02-2014

XII. Weather Conditions For 08.02.2014 :

Snow fall and rain in J&K and Himanchal /Cloudy weather in some part of Northern Region.

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 : 08.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER