

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.02.2014
Date of Reporting : 18.02.2014

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
35509	1822	37331	50.00	27043	0	27043	50.28	766.7	27.60

* 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	46.29	9.76		56.05	35.52	38.51	2.99	94.56	0.00
Haryana	35.03	0.53		35.55	59.79	60.89	1.10	96.44	0.51
Rajasthan	99.62	4.20	6.36	110.18	84.01	81.82	-2.20	192.00	0.23
Delhi	21.38			21.38	39.82	39.28	-0.54	60.67	0.17
UP	119.27	2.78	16.80	138.85	83.86	84.87	1.01	223.72	24.39
Uttarakhand		9.30		9.30	20.67	23.41	2.75	32.71	0.60
HP		5.41		5.41	18.09	18.09	0.00	23.50	0.00
J & K		6.04	0.00	6.04	32.55	33.44	0.90	39.48	1.70
Chandigarh				0.00	3.27	3.64	0.38	3.64	0.00
Total	321.59	38.01	23.16	382.77	377.58	383.96	6.38	766.72	27.60

* 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	5001	0	68	-479	3055	0	110	53	-7.16	
Haryana	4826	0	-365	-96	3053	0	201	-115	-5.79	
Rajasthan	8050	137	-142	1051	6786	0	-25	1150	39.18	
Delhi	3260	0	-66	-873	1412	0	54	-1507	-24.75	
UP	9606	1510	119	301	9332	0	238	452	5.88	
Uttarakhand	1665	75	179	482	1067	0	62	419	10.30	
HP	1098	0	-58	255	651	0	-59	425	7.94	
J&K	1806	100	3	526	1600	0	61	610	11.35	
Chandigarh	197	0	-1	0	88	0	-1	0	0.00	
Total	35509	1822	-263	1167	27043	0	640	1488	36.95	

* 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	1922	2079	1536	43.47	1811	43.76	-0.29
Rihand I STPS	1000	945	1021	724	20.66	861	20.69	-0.03
Rihand II STPS	1000	975	1037	693	21.30	887	21.46	-0.17
Rihand III STPS	1000	-17	0	0	0.00	0	-0.29	0.29
Dadri I STPS	840	679	827	587	15.41	642	15.74	-0.33
Dadri II STPS	980	832	947	684	18.05	752	18.33	-0.28
Unchahar I TPS	420	408	424	324	8.71	363	8.85	-0.15
Unchahar II TPS	420	405	442	307	8.15	340	8.25	-0.10
Unchahar III TPS	210	202	217	154	4.11	171	4.16	-0.05
ISTPP (Jhajjar)	1500	1500	1023	640	16.63	693	16.68	-0.05
Dadri GPS	830	844	405	425	9.30	388	9.42	-0.12
Anta GPS	419	425	281	247	6.35	264	6.49	-0.14
Auraiya GPS	663	674	160	162	3.65	152	3.69	-0.04
Sub Total (A)	11282	9794	8863.21	6483.28	175.78	7324	177.24	-1.46
B. NPC								
NAPS	440	298	332	336	7.14	298	7.15	-0.01
RAPS- B	440	417	462	446	9.67	403	10.01	-0.34
RAPS- C	440	430	470	474	10.25	427	10.32	-0.07
Sub Total (B)	1320	1145	1264	1256	27.06	1128	27.48	-0.42
C. NHPC								
Chamera I HPS	540	540	540	0	2.88	120	2.90	-0.02
Chamera II HPS	300	200	205	0	1.20	50	1.22	-0.01
Chamera III HPS	231	154	161	0	0.60	25	0.62	-0.02
Bairasuil HPS	180	122	120	0	0.94	39	1.03	-0.09
Salal-HPS	690	151	247	94	3.58	149	3.62	-0.03
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	208	326	125	4.91	205	5.00	-0.09
Uri-II HPS	180	108	158	94	2.89	120	2.60	0.29
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	258	273	0	2.69	112	2.77	-0.09
Sewa-II HPS	120	119	123	0	1.30	54	1.29	0.01
Sub Total (C)	3485	1860	2153	313	20.99	875	21.04	-0.05
D. NJPC								
Nathpa Jhakri	1500	1605	711	0	6.90	287	6.89	0.01
Sub Total (D)	1500	1605	711	0	6.90	287	6.89	0.01
E. THDC								
Tehri HPS	1000	900	910	0	7.17	299	7.10	0.07
Koteshwar HPS	400	116	301	0	2.80	117	2.80	0.00
Sub Total (E)	1400	1016	1211	0	9.97	415	9.90	0.07
F. BBMB								
Bhakra HPS	1497	667	1156	390	16.07	670	16.01	0.06
Dehar HPS	990	140	330	0	3.38	141	3.36	0.02
Pong HPS	396	192	312	0	4.87	203	4.61	0.26
Sub Total (F)	2883	999	1798	390	24.32	1013	23.97	0.35
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.37	15	0.35	0.02
KWHEP HPS(IPP)	1000	0	0	0	3.54	147	3.48	0.05
Malana Stg-II HPS	100	0	0	0	0.12	5	0.10	0.02
Shree Cement TPS	300	0	262	142	5.20	217	5.21	-0.01
Budhil HPS(IPP)	70	0	8	0	0.12	5	0.10	0.01
Sub Total (G)	1662	0	270	142	9.34	389	9.25	0.09
H. Total Regional Entities (A-G)	23532	16419	16271	8584	274.36	11432	275.77	-1.41

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	840	600	14.61	609
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.90	79
	Guru Hargobind Singh TPS(L.mbt)	920	969	700	18.26	761
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	640	288	11.52	480
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2539	1678	46.29	1929
	Total Hydro	1148	472	392	9.76	407
	Total Punjab	5128	3011	2070	56.05	2335
Haryana	Panipat TPS	1367	232	215	5.23	218
	DCRTPP (Yamuna nagar)	600	545	507	12.39	516
	Faridabad GPS (NTPC)	432	356	200	6.20	259
	RGTPP (kheadar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	558	374	11.20	467
	Thermal (Total)	4944	1691	1296	35.03	1459
	Total Hydro	62	21	22	0.53	22
	Total Haryana	5006	1712	1318	35.55	1481
Rajasthan	kota TPS	1240	1130	1006	26.36	1098
	suratgarh TPS	1500	1357	1230	31.06	1294
	Chabra TPS	750	436	580	14.60	608
	Dholpur GPS	330	139	114	3.28	137
	Ramgarh GPS	221	134	113	3.05	127
	RAPS A (NPC)	300	175	175	4.70	196
	Barsingar (NLC)	250	211	210	4.91	205
	Giral LTPS	250	74	78	1.35	56
	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	422	405	10.30	429
	Thermal (Total)	7976	4078	3911	99.62	4151
	Total Hydro	550	154	86	4.20	175
	Wind power	2191	144	410	5.25	219
	Biomass	91	27	27	0.65	27
	Solar	201	5	0	0.47	19
	Renewable/Others (Total)	2483	171	437	6.36	265
	Total Rajasthan	11009	4403	4434	110.18	4591
UP	Anpara TPS	1630	1132	1145	24.20	1008
	Obra TPS	1288	512	514	10.90	454
	Paricha TPS	1140	868	807	17.70	738
	Panki TPS	210	0	70	0.60	25
	Harduaganj TPS	665	484	425	10.10	421
	Tanda TPS (NTPC)	440	399	404	9.77	407
	Roza TPS (IPP)	1200	792	752	20.01	834
	Anpara-C (IPP)	1200	798	707	21.16	882
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	195	195	4.84	201
	Thermal (Total)	8223	5180	5019	119.27	4970
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	99	124	2.78	116
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5979	5843	138.85	5786
Uttarakhand	Total Hydro	1303	519	228	9.30	387
	Total Uttarakhand	1303	519	228	9.30	387
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	162	118	3.28	137
	Pragati Gas Turbine	330	316	264	7.36	307
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	31	0.23	10
	Badarpur TPS (NTPC)	705	525	435	10.51	438
	Thermal (Total)	2232	1003	848	21.38	891
	Total Delhi	2232	1003	848	21.38	891
HP	Baspa HPS (IPP)	330	77	0	1.07	45
	Malana HPS (IPP)	86	0	0	0.18	8
	Other Hydro	589	216	104	4.16	173
	Total HP	1005	293	104	5.41	226
J & K	Baglihar HPS (IPP)	450	152	144	3.68	153
	Other Hydro	323	94	132	2.36	98
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	246	276	6.04	252
Total State Control Area Generation		36770	17166	15121	382.77	15949
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4786	3941.73	120.21	5009
Total Regional Availability(Gross)		60303	38223	27647	777.34	32389

IV. Total Hydro Generation:

Regional Entities Hydro	10560	5873	703	66.20	2759
State Control Area Hydro	5368	1804	1232	38.01	1584
Total Regional Hydro	15928	7677	1935	104.22	4342

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	0	500	0	9.30	0.00	9.30
Gwalior-Agra (D/C)	1210	940	1734	0	31.20	0.00	31.20
Zerda-Kankroli	58	-265	102	336	0.00	1.14	-1.14
Zerda-Bhinmal	192	-148	290	224	2.15	0.00	2.15
Malanpur-Auraiya	-93	-66	0	100	0.00	1.85	-1.85
Badod-Kota/Morak	-5	-92	73	143	0.00	0.80	-0.80
Mundra-Mohinderghar(HVDC)	1999	1999	2005	0	48.34	0.00	48.34
Sub Total WR	3861	2368			90.99	3.80	87.19
Pusauli Bypass	300	300	300	0	7.22	0.00	7.22
MZP- GKP (D/C)	73	364	364	0	3.89	0.00	3.89
Patna-Balia(D/C)	337	490	611	0	10.51	0.00	10.51
B'Shari-Balia (D/C)	220	290	436	0	6.52	0.00	6.52
Pusauli-Balia	-221	-66	0	221	0.00	2.09	-2.09
Gaya-Fatehpur (765 Kv)	-23	-9	184	89	0.85	0.00	0.85
Pusauli-Sahupuri	131	175	202	0	3.86	0.00	3.86
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-28	0	34	0.00	0.68	-0.68
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	139	58	259	0	2.94	0.00	2.94
Sub Total ER	925	1574			35.79	2.77	33.02
Total IR Exch	4786	3942			126.78	6.57	120.21

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
32.57	0.14	32.71	15.02	2.69	5.27	8.64	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
53.07	66.91	119.97	33.02	87.19	120.21	-20.05	20.28	0.24

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	0.00	0.70	6.50	31.30	33.10	13.60	46.90	14.80	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz	Index			
50.45	0.00	49.73	7.13	50.08	0.20	0.11	50.36	49.91

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	421	02:14	402	09:07	0.0	0.0	4.9	0.0
Gorakhpur	400	427	02:28	409	18:07	0.0	0.0	57.6	0.0
Bareilly	400	423	13:01	406	07:19	0.0	0.0	4.2	0.0
Kanpur	400	424	02:00	402	07:16	0.0	0.0	21.9	0.0
Dadri	400	429	02:09	409	07:12	0.0	0.0	47.5	0.0
Ballabgarh	400	437	03:12	412	07:17	0.0	0.0	67.8	25.3
Bawana	400	433	03:02	410	18:45	0.0	0.0	49.0	14.7
Bassi	400	431	03:42	394	09:20	0.0	0.0	31.9	1.2
Hissar	400	421	00:00	398	07:13	0.0	0.0	1.2	0.0
Moga	400	420	00:00	398	18:43	0.0	0.0	0.0	0.0
Abdullapur	400	430	03:00	399	09:17	0.0	0.0	34.2	0.0
Nalagarh	400	427	22:51	409	18:37	0.0	0.0	16.5	0.0
Kishenpur	400	420	04:30	389	18:44	0.0	0.4	0.0	0.0
Wagoora	400	407	13:02	370	18:48	21.3	53.3	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	773	12:29	747	09:14	0.0	0.0	0.0	0.0
Balia	765	784	02:01	744	18:48	0.0	0.0	0.0	0.0
Moga	765	800	00:00	757	18:48	0.0	0.0	0.0	0.0
Agra	765	818	00:53	781	09:57	0.0	0.0	70.8	0.0
Bhiwani	765	815	00:27	772	07:13	0.0	0.0	38.2	0.0
Unnao	765	771	03:02	729	19:09	0.0	23.8	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	492.03	848.04	486.93	644.48	162.77	499.46
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 17.02.2014 :
Normal weather in NR.

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 : 17.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER