

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.02.2014
Date of Reporting : 22.02.2014

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
34677	1508	36185	49.99	28742	615	29357	50.06	768.9	49.30

* 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	45.08	10.43		55.50	39.74	40.39	0.64	95.89	4.34
Haryana	40.68	0.40		41.08	67.39	66.55	-0.84	107.63	0.00
Rajasthan	98.35	4.06	8.97	111.37	75.16	72.58	-2.58	183.95	0.77
Delhi	18.26			18.26	41.98	41.27	-0.71	59.53	0.19
UP	115.00	3.46	16.80	135.27	85.12	86.56	1.44	221.83	41.09
Uttarakhand		8.53		8.53	21.91	24.91	3.00	33.44	1.06
HP		4.85		4.85	18.31	18.92	0.61	23.77	0.15
J & K		5.89	0.00	5.89	31.74	33.46	1.72	39.35	1.70
Chandigarh				0.00	3.32	3.48	0.16	3.48	0.00
Total	317.37	37.63	25.77	380.77	384.67	388.11	3.45	768.88	49.30

* 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	4874	363	-85	-361	3306	0	115	20	-7.09	
Haryana	5397	0	122	-23	3580	0	-84	-31	-3.03	
Rajasthan	6939	0	-468	761	7388	0	41	1040	30.06	
Delhi	3193	0	45	-810	1410	0	25	-1484	-23.76	
UP	9606	960	253	399	9432	615	289	470	5.89	
Uttarakhand	1640	75	219	449	1140	0	115	497	11.39	
HP	1090	10	-50	188	710	0	32	324	7.26	
J&K	1750	100	-45	519	1692	0	66	608	10.69	
Chandigarh	188	0	-7	0	86	0	-3	0	0.00	
Total	34677	1508	-17	1122	28742	615	595	1445	31.41	

* 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	1829	1585	2078	42.30	1762	42.50	-0.20
Rihand I STPS	1000	912	995	860	21.09	879	20.99	0.10
Rihand II STPS	1000	975	1038	1047	22.30	929	22.24	0.06
Rihand III STPS	1000	474	488	513	10.97	457	10.96	0.00
Dadri I STPS	840	683	824	600	15.55	648	15.88	-0.33
Dadri II STPS	980	901	954	700	19.65	819	20.09	-0.45
Unchahar I TPS	420	408	415	359	8.99	374	9.05	-0.07
Unchahar II TPS	420	406	382	341	8.52	355	8.58	-0.06
Unchahar III TPS	210	203	187	154	4.24	177	4.28	-0.04
ISTPP (Jhajjhar)	1500	1500	900	634	18.57	774	17.67	0.90
Dadri GPS	830	841	398	421	9.58	399	9.69	-0.10
Anta GPS	419	425	272	259	6.32	263	6.40	-0.08
Auraiya GPS	663	673	160	161	3.72	155	3.80	-0.08
Sub Total (A)	11282	10230	8598	8127	191.78	7991	192.14	-0.36
B. NPC								
NAPS	440	299	331	334	7.11	296	7.18	-0.07
RAPS- B	440	417	457	458	9.94	414	10.01	-0.07
RAPS- C	440	430	473	477	10.23	426	10.32	-0.09
Sub Total (B)	1320	1146	1261	1269	27.28	1137	27.50	-0.23
C. NHPC								
Chamera I HPS	540	540	450	0	2.80	117	2.80	0.00
Chamera II HPS	300	200	51	0	1.24	52	1.23	0.02
Chamera III HPS	231	154	160	0	0.63	26	0.60	0.03
Bairasuil HPS	180	182	182	60	1.15	48	1.18	-0.03
Salal-HPS	690	141	144	90	3.44	143	3.39	0.05
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
Uri-HPS	480	190	309	132	4.50	188	4.56	-0.05
Uri-II HPS	180	108	121	86	2.71	113	2.58	0.13
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	298	273	0	2.47	103	2.50	-0.03
Sewa-II HPS	120	119	123	0	1.44	60	1.80	-0.36
Parbati 3	520	0	0	0	0.00	0	0.00	0.00
Sub Total (C)	4005	1931	1813	368	20	848	21	0
D. NJPC								
Nathpa Jhakri	1500	1605	750	0	6.10	254	6.26	-0.16
Sub Total (D)	1500	1605	750	0	6.10	254	6.26	-0.16
E. THDC								
Tehri HPS	1000	900	897	0	7.01	292	7.00	0.01
Koteshwar HPS	400	116	303	0	2.81	117	2.80	0.01
Sub Total (E)	1400	1016	1200	0	9.82	409	9.80	0.02
F. BBMB								
Bhakra HPS	1497	739	1161	508	17.89	745	17.73	0.16
Dehar HPS	990	140	330	0	3.62	151	3.36	0.26
Pong HPS	396	222	372	120	5.50	229	5.33	0.17
Sub Total (F)	2883	1101	1863	628	27.01	1125	26.42	0.59
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	2.80	117	3.24	-0.44
Malana Stg-II HPS	100	0	0	0	0.11	4	0.09	0.01
Shree Cement TPS	300	0	0	114	1.37	57	1.67	-0.30
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.14	-0.11
Sub Total (G)	1662	0	0	114	4.67	194	5.49	-0.82
H. Total Regional Entities (A-G)	24052	17029	15485	10506	287.00	11958	288.23	-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	950	805	21.14	881
	Guru Nanak Dev TPS(Bhatinda)	440	170	170	4.40	183
	Guru Hargobind Singh TPS(L.mbt)	920	967	696	19.52	813
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.02	1
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2087	1671	45.08	1878
	Total Hydro	1148	342	306	10.43	434
Total Punjab	5128	2429	1977	55.50	2313	
Haryana	Panipat TPS	1367	231	221	5.37	224
	DCRTPP (Yamuna nagar)	600	534	504	12.36	515
	Faridabad GPS (NTPC)	432	416	297	8.49	354
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	571	576	14.47	603
	Thermal (Total)	4944	1752	1598	40.68	1695
	Total Hydro	62	15	17	0.40	17
	Total Haryana	5006	1767	1615	41.08	1712
	Rajasthan	kota TPS	1240	1106	1155	26.98
suratgarh TPS		1500	1234	1364	31.46	1311
Chabra TPS		750	579	643	15.37	641
Dholpur GPS		330	137	138	3.44	143
Ramgarh GPS		221	111	119	3.09	129
RAPS A (NPC)		300	175	175	4.16	173
Barsingsar (NLC)		250	97	56	2.10	88
Giral LTPS		250	72	72	1.39	58
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	433	431	10.35	431
Thermal (Total)		7976	3944	4153	98.35	4098
Total Hydro		550	83	108	4.06	169
Wind power		2191	665	157	7.95	331
Biomass		91	19	19	0.46	19
Solar		201	6	0	0.56	23
Renewable/Others (Total)		2483	684	176	8.97	374
Total Rajasthan		11009	4711	4437	111.37	4641
UP	Anpara TPS	1630	1124	1097	24.00	1000
	Obra TPS	1288	364	466	9.10	379
	Paricha TPS	1140	740	704	15.50	646
	Panki TPS	210	75	65	1.40	58
	Harduaganj TPS	665	478	444	10.20	425
	Tanda TPS (NTPC)	440	398	407	9.81	409
	Roza TPS (IPP)	1200	1058	1046	25.51	1063
	Anpara-C (IPP)	1200	537	540	12.93	539
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	280	280	6.55	273
	Thermal (Total)	8223	5054	5049	115.00	4792
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	132	163	3.46	144
	Cogeneration	981	700	700	16.80	700
	Total UP	10131	5886	5912	135.27	5636
Uttarakhand	Total Hydro	1303	471	157	8.53	356
	Total Uttarakhand	1303	471	157	8.53	356
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	81	80	0.74	31
	Pragati Gas Turbine	330	311	263	7.31	305
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	454	367	10.21	425
	Thermal (Total)	2232	846	710	18.26	761
	Total Delhi	2232	846	710	18.26	761
HP	Baspa HPS (IPP)	330	0	0	0.22	9
	Malana HPS (IPP)	86	0	0	0.93	39
	Other Hydro	589	201	102	3.71	155
	Total HP	1005	201	102	4.85	202
J & K	Baglihar HPS (IPP)	450	148	148	3.53	147
	Other Hydro	323	94	132	2.36	98
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	242	280	5.89	246
Total State Control Area Generation		36770	16553	15190	380.77	15865
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4232	4348	115.81	4825
Total Regional Availability(Gross)		60823	36270	30044	783.57	32649

IV. Total Hydro Generation:

Regional Entities Hydro	11080	5626	996	66.56	2773
State Control Area Hydro	5368	1486	1133	37.63	1568
Total Regional Hydro	16448	7112	2129	104.18	4341

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	0	10.32	0.00	10.32
Gwalior-Agra (D/C)	1314	1200	1850	0	31.87	0.00	31.87
Zerda-Kankroli	-160	-193	92	369	0.00	2.24	-2.24
Zerda-Bhinmal	-120	-25	283	287	0.84	0.00	0.84
Malanpur-Auraiya	-79	-83	0	101	0.00	1.78	-1.78
Badod-Kota/Morak	-126	-85	0	195	0.00	2.04	-2.04
Mundra-Mohindergarh(HVDC)	1999	1998	2007	0	48.33	0.00	48.33
Sub Total WR	3328	3112			91.36	6.07	85.29
Pusauli Bypass	300	300	300	0	7.24	0.00	7.24
MZP- GKP (D/C)	96	159	297	0	3.69	0.00	3.69
Patna-Balia(D/C)	367	446	540	0	10.35	0.00	10.35
B'Sharif-Balia (D/C)	232	218	379	0	5.76	0.00	5.76
Pusauli-Balia	-75	-86	0	118	0.00	1.81	-1.81
Gaya-Fatehpur (765 Kv)	-53	13	155	139	0.74	0.00	0.74
Pusauli-Sahupuri	84	136	152	0	2.96	0.00	2.96
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-28	0	0	0.00	0.68	-0.68
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-16	78	267	139	2.26	0.00	2.26
Sub Total ER	904	1236			33.00	2.49	30.51
Total IR Exch	4232	4348			124.36	8.55	115.81

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
24.58	0.15	24.73	14.76	0.62	10.47	3.43	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
50.03	64.59	114.62	30.51	85.29	115.81	-19.51	20.70	1.19

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	0.17	2.12	18.17	32.77	32.63	32.48	17.10	0.00

<----- 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				
50.45	18.04	49.75	4.56	50.10	0.08	0.21	50.35	49.90

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	412	22:30	399	06:50	0.0	0.0	0.0	0.0
Gorakhpur	400	430	13:21	411	18:45	0.0	0.0	58.8	0.0
Bareilly	400	428	21:58	389	08:32	0.0	0.0	32.3	0.0
Kanpur	400	422	21:54	401	07:18	0.0	0.0	1.1	0.0
Dadri	400	424	21:54	403	10:36	0.0	0.0	18.2	0.0
Ballabgarh	400	433	21:58	410	07:25	0.0	0.0	60.8	2.5
Bawana	400	429	21:57	407	10:42	0.0	0.0	46.8	0.0
Bassi	400	427	04:03	394	07:27	0.0	0.0	36.5	0.0
Hissar	400	419	21:55	393	07:23	0.0	0.0	0.0	0.0
Moga	400	420	21:56	396	07:23	0.0	0.0	0.0	0.0
Abdullapur	400	427	04:01	399	11:21	0.0	0.0	26.2	0.0
Nalagarh	400	427	00:17	405	10:31	0.0	0.0	16.5	0.0
Kishenpur	400	425	22:26	392	07:28	0.0	0.0	0.2	0.0
Wagoora	400	419	22:26	370	07:33	21.1	77.9	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	783	21:58	740	07:27	0.0	0.3	0.0	0.0
Balia	765	787	13:00	759	07:25	0.0	0.0	0.0	0.0
Moga	765	799	21:58	754	07:25	0.0	0.0	0.0	0.0
Agra	765	817	21:58	773	07:25	0.0	0.0	41.6	0.0
Bhiwani	765	744	21:56	705	10:42	53.7	99.2	0.0	0.0
Unnao	765	777	22:00	742	07:19	0.0	0.0	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	491.61	788.17	485.74	610.73	195.58	566.88
Pong	426.72	384.05	406.41	379.44	404.19	320.26	99.93	365.40
Tehri	829.79	740.04	793.55	505.00	818.65	982.26	66.92	177.00
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	74.63	76.39
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:

NIL

XII. Weather Conditions For 21.02.2014 :

Normal weather in NR.

XIII. Synchronisation of new generating units :

0.00

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 : 21.02.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER