

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)
उत्तरी क्षेत्रीय भार प्रेषण केंद्र



Power Supply Position in Northern Region for 14.03.2012
Date of Reporting : 15.03.2012

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
29781	1655	31436	49.76	25029	670	25699	49.98	669.4	36.38

* 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	49.10	11.58		60.68	39.89	34.06	-5.83	94.74	3.10
Haryana	43.71	0.59		44.30	23.09	47.83	24.73	92.12	2.70
Rajasthan	85.31	4.77	2.62	92.69	44.97	63.57	18.60	156.26	0.48
Delhi	29.87			29.87	33.35	24.51	-8.85	54.38	0.11
UP	88.68	4.62	14.40	107.70	79.95	77.64	-2.31	185.34	26.97
Uttarakhand		10.10		10.10	13.72	17.86	4.14	27.96	0.72
HP		5.19		5.19	16.15	17.49	1.34	22.68	0.00
J & K		5.98	0.00	5.98	21.73	26.52	4.80	32.50	2.30
Chandigarh				0.00	3.54	3.37	-0.17	3.37	0.00
Total	296.67	42.82	17.02	356.51	276.41	312.85	36.44	669.36	36.38

* 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	4268	200	-118	-240	3301	0	-491	-148	-4.10
Haryana	4428	200	1355	-183	3248	0	646	-183	-4.40
Rajasthan	6169	0	225	6	6937	0	1555	6	0.15
Delhi	2834	60	-161	-113	1352	0	-493	-338	-4.20
UP	8118	1045	57	265	7076	670	-428	265	6.36
Uttarakhand	1338	0	143	150	1016	0	188	150	3.60
HP	978	0	-300	-324	719	0	188	146	-0.09
J&K	1461	150	104	21	1293	0	294	21	0.51
Chandigarh	187	0	0	0	87	0	-5	0	0.00
Total	29781	1655	1305	-418	25029	670	1454	-80	-2.17

* 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	890	1041	966	21.54	898	21.36	0.18	
Rihand II STPS	1000	975	1041	970	23.57	982	23.30	0.27	
Dadri I STPS	840	797	873	650	17.79	741	17.80	-0.01	
Dadri II STPS	980	433	505	487	10.21	426	10.05	0.16	
Unchahar I TPS	440	406	437	432	9.70	404	9.45	0.25	
Unchahar II TPS	440	404	441	432	9.74	406	9.18	0.55	
Unchahar III TPS	210	202	220	220	4.87	203	4.69	0.18	
ISTPP (Jhajhar)	1000	0	0	0	0.00	0	0.00	0.00	
Dadri GPS	830	600	373	396	9.36	390	9.24	0.12	
Anta GPS	419	413	388	301	8.26	344	8.11	0.15	
Auraiya GPS	663	482	315	327	7.43	310	7.36	0.07	
Sub Total (A)	9822	7110	7229	6787	159.54	6648	156.74	2.80	
B. NPC	NAPS	440	277	310	317	6.70	279	6.65	0.05
RAPS- B	440	421	466	470	10.13	422	10.10	0.03	
RAPS- C	440	420	473	475	10.22	426	10.08	0.14	
Sub Total (B)	1320	1118	1249	1262	27.05	1127	26.83	0.21	
C. NHPC	Chamera I HPS	540	534	540	0	4.99	208	4.83	0.16
Chamera II HPS	300	297	170	0	1.74	73	1.73	0.02	
Bairasuil HPS	180	179	179	0	2.01	84	2.00	0.01	
Salal-HPS	690	209	304	70	3.73	155	4.01	-0.28	
Tanakpur-HPS	94	25	30	20	0.57	24	0.54	0.03	
Uri-HPS	480	358	443	344	8.53	356	8.36	0.17	
Dhauliganga-HPS	280	210	209	0	0.90	37	0.82	0.07	
Dulhasti-HPS	390	388	420	0	2.65	111	2.46	0.20	
Sewa-II HPS	120	119	124	42	2.54	106	2.34	0.21	
Sub Total (C)	3074	2318	2419	476	27.67	1153	27.09	0.58	
D.NJPC	Nathpa Jhakri	1500	1200	1592	0	6.64	277	6.70	-0.06
Sub Total (D)	1500	1200	1592	0	6.64	277	6.70	-0.06	
E. THDC	Tehri HPS	1000	600	609	0	7.52	313	7.50	0.02
Koteshwar HPS	300	300	295	0	2.75	115	2.60	0.15	
Sub Total (E)	1300	900	904	0	10.28	428	10.10	0.18	
F. BBMB	Bhakra HPS	1480	743	969	390	18.18	758	17.84	0.34
Dehar HPS	990	139	330	0	3.37	140	3.34	0.03	
Pong HPS	396	167	306	60	4.26	178	4.01	0.25	
Sub Total (F)	2866	1050	1605	450	25.81	1075	25.20	0.61	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.39	16	0.37	0.02
KWHEP HPS(IPP)	1000	0	300	0	3.69	154	4.18	-0.50	
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00	
Shree Cement TPS	300	0	118	125	2.94	122	2.65	0.29	
Sub Total (G)	1592	0	418	125	7.01	292	7.20	-0.19	
H. Total Regional Entities (A-G)	21475	13696	15416	9100	264.00	11000	259.86	4.14	

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	1045	1045	22.93	955
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.73	197
	Guru Hargobind Singh TPS(L.mbt)	920	968	968	21.45	894
	Thermal (Total)	2620	2232	2232	49.10	2046
	Total Hydro	1148	311	416	11.58	482
	Total Punjab	3768	2543	2648	60.68	2528
Haryana	Panipat TPS	1360	857	867	21.02	876
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	417	437	10.06	419
	RGTPP (khedar) (IPP)	1200	561	496	12.63	526
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	1835	1800	43.71	1821
	Total Hydro	62	23	18	0.59	25
	Total Haryana	4339	1858	1818	44.30	1846
Rajasthan	kota TPS	1240	1155	1173	27.82	1159
	suratgarh TPS	1500	1146	924	25.43	1060
	Chabra TPS	500	224	219	5.42	226
	Dholpur GPS	330	295	299	6.83	285
	Ramgarh GPS	113	36	40	0.78	33
	RAPS A (NPC)	300	184	184	4.53	189
	Barsingsar (NLC)	250	185	202	4.76	198
	Giral LTPS (IPP)	250	62	76	1.42	59
	Rajwest LTPS (IPP)	540	352	300	8.31	346
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3639	3417	85.31	3554
	Total Hydro	550	190	148	4.77	199
	Wind power	1294	71	118	2.26	94
	Biomass	71	32	32	0.36	15
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	103	150	2.62	109
	Total Rajasthan	7073	3932	3715	92.69	3862
	UP	Anpara TPS	1630	1332	1261	31.10
Obra TPS		1442	545	529	13.00	542
Paricha TPS		640	218	190	4.90	204
Panki TPS		210	158	153	3.60	150
Harduaganj TPS		415	32	34	0.70	29
Tanda TPS (NTPC)		440	401	376	9.65	402
Roza TPS (IPP)		900	416	394	11.58	482
Anpara-C (IPP)		1200	507	407	11.49	479
Bajaj Energy Pvt.Ltd(IPP) TPS		180	115	116	2.66	111
Thermal (Total)		7057	3724	3460	88.68	3695
Vishnuparyag HPS (IPP)		400	69	64	1.64	68
Other Hydro		527	169	0	2.98	124
Cogeneration		951	600	600	14.40	600
Total UP		8935	4562	4124	107.70	4419
Uttarakhand		Total Hydro	1303	533	324	10.10
	Total Uttarakhand	1303	533	324	10.10	421
Delhi	Rajghat TPS	135	61	57	1.35	56
	Delhi Gas Turbine	282	145	77	3.01	126
	Pragati Gas Turbine	330	304	266	7.22	301
	Rithala GPS	108	30	30	0.63	26
	Bawana GPS	440	160	43	4.11	171
	Badarpur TPS (NTPC)	705	630	565	13.56	565
	Thermal (Total)	2000	1330	1169	29.87	1245
	Total Delhi	2000	1330	1169	29.87	1245
HP	Baspa HPS (IPP)	330	0	0	0.92	38
	Malana HPS (IPP)	101	0	0	0.26	11
	Other Hydro	571	191	76	4.01	167
	Total HP	1002	191	76	5	216
J & K	Baglihar HPS (IPP)	450	378	344	3.56	148
	Other Hydro	323	95	105	2.41	101
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	473	449	5.98	249
Total State Control Area Generation		29376	15422	14323	356.51	14786
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			671	3129	68.38	2849
Total Regional Availability(Gross)		50851	31509	26552	688.88	28635

IV. Total Hydro Generation:

Regional Entities Hydro	10033	6820	926	74.47	3103
State Control Area Hydro	5365	1890	1431	41.18	1716
Total Regional Hydro	15397	8710	2357	115.65	4819

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	0	0	500	100	2.21	0.18	2.03
Gwalior-Agra (D/C)	0	940	1152	0	18.54	0.00	18.54
Zerda-Kankroli	-148	139	306	148	1.21	0.00	1.21
Zerda-Bhinmal	-83	228	307	152	3.20	0.00	3.20
Malanpur-Auraiya	-127	-40	0	169	0.00	1.22	-1.22
Badod-Kota/Morak	20	70	104	39	1.16	0.00	1.16
Sub Total WR	-338	1337			26.32	1.41	24.92
Pusauli Bypass	-124	201	379	124	3.70	0.42	3.28
MZP- GKP (D/C)	210	390	584	0	9.27	0.00	9.27
Patna-Balia(D/C)	296	616	774	0	13.02	0.00	13.02
B'Sharif-Balia (D/C)	228	518	709	0	10.51	0.00	10.51
Barh - balia(D/C)	325	0	484	0	6.20	0.00	6.20
Pusauli-Sahupuri	104	99	150	0	2.33	0.00	2.33
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	1.14	-1.14
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1009	1792			45.02	1.56	43.46
Total IR Exch	671	3129			71.34	2.96	68.38

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
29.68	0.13	29.81	0.56	0.25	5.21	-3.62	1.58	-1.58

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
37.15	-7.12	30.03	43.46	24.92	68.38	6.31	32.04	38.35

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	2.10	19.30	97.30	80.10	9.80	0.60

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.37	18.02	49.26	18.54	49.81	0.56	0.15	50.13	49.65

VII. Voltage profile

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	410	20:49	400	07:22	0.0	0.0	0.0	0.0
Gorakhpur	400	429	03:28	409	15:44	0.0	0.0	53.2	0.0
Bareilly	400	423	20:35	399	16:52	0.0	0.0	4.3	0.0
Kanpur	400	417	20:26	397	12:14	0.0	0.0	0.0	0.0
Dadri	400	420	02:54	398	12:12	0.0	0.0	0.0	0.0
Ballabgarh	400	424	02:54	399	12:11	0.0	0.0	12.4	0.0
Bawana	400	425	02:55	400	12:14	0.0	0.0	14.7	0.0
Bassi	400	424	20:25	396	12:12	0.0	0.0	3.2	0.0
Hissar	400	416	20:20	392	12:34	0.0	0.0	0.0	0.0
Moga	400	424	02:52	404	10:08	0.0	0.0	19.4	0.0
Abdullapur	400	428	02:55	296	13:37	0.1	0.1	25.8	0.0
Nalagarh	400	429	20:57	408	12:35	0.0	0.0	40.9	0.0
Kishenpur	400	419	04:01	398	19:29	0.0	0.0	0.0	0.0
Wagoora	400	403	18:02	378	19:33	0.7	40.2	0.0	0.0

VIII. 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	482.84	527.87	490.40	748.75	173.07	597.15
Pong	426.72	384.05	405.98	370.28	411.21	534.70	66.60	283.79
Tehri	829.79	740.04	777.10	285.56	818.65	982.26	52.00	209.00
Koteshwar	612.50	598.50	608.20	3.75	NA	NA	209.00	183.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	118.62	134.45
Rihand	268.22	252.98	260.60	338.50	255.67	102.80	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	497.12	NA	504.35	NA	102.73	200.82

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.03.2012 :

1. Normal weather in NR.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 14.03.2012

पारी प्रभासी अभियंता / SHIFT CHARGE ENGINEER