



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	630	510	13.14	548	
	Guru Nanak Dev TPS(Bhatinda)	440	120	105	2.49	104	
	Guru Hargobind Singh TPS(L.mbt)	920	521	362	10.28	428	
	Thermal (Total)	2620	1271	977	25.91	1080	
	Total Hydro	1148	391	355	9.06	378	
	<b>Total Punjab</b>	<b>3768</b>	<b>1662</b>	<b>1332</b>	<b>34.98</b>	<b>1457</b>	
Haryana	Panipat TPS	1367	421	425	10.43	434	
	DCRTPP (Yamuna nagar)	600	282	280	6.67	278	
	Faridabad GPS (NTPC)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP)	1200	0	131	0.00	0	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	572	347	13.03	543	
	Thermal (Total)	4944	1275	1183	30.13	1255	
	Total Hydro	62	16	17	0.41	17	
	<b>Total Haryana</b>	<b>5006</b>	<b>1291</b>	<b>1200</b>	<b>30.54</b>	<b>1272</b>	
	Rajasthan	kota TPS	1240	1039	1029	26.09	1087
suratgarh TPS		1500	1123	1118	26.82	1117	
Chabra TPS		500	384	395	9.46	394	
Dholpur GPS		330	140	138	3.06	127	
Ramgarh GPS		111	0	45	0.86	36	
RAPS A (NPC)		300	197	197	4.91	205	
Barsingsar (NLC)		250	192	192	4.54	189	
Giral LTPS		250	72	62	1.60	67	
Rajwest LTPS (IPP)		675	425	400	9.93	414	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3572	3576	87.26	3636	
Total Hydro		550	144	86	5.01	209	
Wind power		2191	34	419	5.32	222	
Biomass		91	23	23	0.55	23	
Solar		201	4	0	0.15	6	
Renewable/Others (Total)		2483	57	442	6.03	251	
<b>Total Rajasthan</b>		<b>8324</b>	<b>3773</b>	<b>4104</b>	<b>98.29</b>	<b>4095</b>	
UP		Anpara TPS	1630	1291	1187	26.30	1096
		Obra TPS	1382	398	411	9.00	375
	Paricha TPS	890	664	577	13.10	546	
	Panki TPS	210	65	80	1.60	67	
	Harduaganj TPS	665	270	295	6.00	250	
	Tanda TPS (NTPC)	440	406	340	9.14	381	
	Roza TPS (IPP)	1200	824	612	16.49	687	
	Anpara-C (IPP)	1200	270	310	7.04	293	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	284	266	7.28	303	
	Thermal (Total)	8067	4472	4078	95.94	3998	
	Vishnuparyag HPS (IPP)	400	68	68	1.63	68	
	Other Hydro	527	232	48	3.45	144	
	Cogeneration	981	550	550	13.20	550	
	<b>Total UP</b>	<b>9975</b>	<b>5322</b>	<b>4744</b>	<b>114.22</b>	<b>4691</b>	
	Uttarakhand	Total Hydro	1303	497	382	11.00	458
<b>Total Uttarakhand</b>		<b>1303</b>	<b>497</b>	<b>382</b>	<b>11.00</b>	<b>458</b>	
Delhi	Rajghat TPS	135	77	106	2.72	113	
	Delhi Gas Turbine	282	87	167	3.23	134	
	Pragati Gas Turbine	330	263	266	6.81	284	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	233	217	5.46	227	
	Badarpur TPS (NTPC)	705	360	325	7.54	314	
	Thermal (Total)	2237	1020	1081	25.75	1073	
	<b>Total Delhi</b>	<b>2237</b>	<b>1020</b>	<b>1081</b>	<b>25.75</b>	<b>1073</b>	
HP	Baspa HPS (IPP)	330	0	0	0.94	39	
	Malana HPS (IPP)	86	49	0	0.20	8	
	Other Hydro	589	242	119	3.83	160	
	<b>Total HP</b>	<b>1005</b>	<b>291</b>	<b>119</b>	<b>4.96</b>	<b>207</b>	
J & K	Baglihar HPS (IPP)	450	296	148	3.69	154	
	Other Hydro	323	95	130	3.40	142	
	Gas/Diesel/Others	183	0	0	0.00	0	
	<b>Total J &amp; K</b>	<b>956</b>	<b>391</b>	<b>278</b>	<b>7.09</b>	<b>296</b>	
<b>Total State Control Area Generation</b>		<b>32574</b>	<b>14247</b>	<b>13240</b>	<b>326.83</b>	<b>13550</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>2098</b>	<b>2489</b>	<b>72.69</b>	<b>3029</b>	
<b>Total Regional Availability(Gross)</b>		<b>55410</b>	<b>32207</b>	<b>24346</b>	<b>664.08</b>	<b>27602</b>	

#### IV. Total Hydro Generation:

Regional Entities Hydro	10364	5929	783	55.23	2301
State Control Area Hydro	5368	1962	1285	42.61	1708
<b>Total Regional Hydro</b>	<b>15731</b>	<b>7891</b>	<b>2068</b>	<b>97.84</b>	<b>4009</b>

**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	100	-100	300	100	4.06	0.64	3.42
Gwalior-Agra (D/C)	208	392	774	0	10.58	0.00	10.58
Zerda-Kankroli	-114	-262	0	285	0.00	3.31	-3.31
Zerda-Bhinmal	-24	-189	130	267	0.00	0.97	-0.97
Malanpur-Auraiya	-134	-63	0	134	0.00	1.70	-1.70
Badod-Kota/Morak	-103	-194	35	199	0.00	2.77	-2.77
Mundra-Mohindergarh(HVDC)	1267	1267	1268	0	30.96	0.00	30.96
<b>Sub Total WR</b>	<b>1200</b>	<b>851</b>			<b>45.59</b>	<b>9.39</b>	<b>36.20</b>
Pusauli Bypass	400	400	400	0	9.78	0.00	9.78
MZP- GKP (D/C)	32	336	340	0	4.84	0.00	4.84
Patna-Balia(D/C)	410	581	666	0	13.47	0.00	13.47
B'Sharif-Balia (D/C)	95	252	363	0	5.85	0.00	5.85
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-142	-78	0	142	0.00	2.02	-2.02
Gaya-Fatehpur (765 Kv)	24	74	205	0	2.82	0.00	2.82
Pusauli-Sahupuri	114	113	157	0	2.67	0.00	2.67
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-40	0	42	0.00	0.92	-0.92
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>898</b>	<b>1638</b>			<b>39.43</b>	<b>2.94</b>	<b>36.49</b>
<b>Total IR Exch</b>	<b>2098</b>	<b>2489</b>			<b>85.02</b>	<b>12.33</b>	<b>72.69</b>

**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
37.63	0.26	37.89	-5.02	-3.97	0.00	2.04	3.67	-3.67
<b>Total IR Schedule (MU)</b>			<b>Total IR Actual (MU)</b>			<b>Net IR UI (MU)</b>		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
36.54	40.38	76.93	36.49	36.20	72.69	-0.05	-4.18	-4.23

**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	0.00	2.40	86.20	83.80	59.70	13.80

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					
50.52	0.02	49.55	6.37	50.03	0.25	0.15	50.40	0.00

**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	415	2:25	399	6:23	0.0	0.0	0.0	0.0
Gorakhpur	400	426	0:46	413	7:40	0.0	0.0	38.9	0.0
Bareilly	400	425	2:25	404	6:21	0.0	0.0	36.0	0.0
Kanpur	400	421	2:16	400	6:22	0.0	0.0	6.6	0.0
Dadri	400	426	1:44	406	6:20	0.0	0.0	32.1	0.0
Ballabgarh	400	432	2:19	407	6:22	0.0	0.0	43.1	6.5
Bawana	400	431	1:59	409	6:20	0.0	0.0	41.9	0.1
Bassi	400	434	3:13	402	6:22	0.0	0.0	45.1	13.2
Hissar	400	420	1:44	397	6:20	0.0	0.0	0.0	0.0
Moga	400	421	1:44	398	6:22	0.0	0.0	1.4	0.0
Abdullapur	400	423	1:53	290	11:10	0.1	0.1	4.4	0.0
Nalagarh	400	427	1:58	407	9:07	0.0	0.0	29.2	0.0
Kishenpur	400	421	13:01	392	6:32	0.0	0.0	0.2	0.0
Wagoora	400	409	13:02	373	7:20	24.3	76.6	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	485.87	610.73	490.24	738.95	193.18	309.79
Pong	426.72	384.05	404.33	328.16	409.11	464.36	86.79	360.64
Tehri	829.79	740.04	791.30	468.00	818.65	982.26	51.59	150.00
Koteswar	612.50	598.50	610.50	4.69	NA	NA	151.00	156.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	259.51	NA	261.88	NA	NA	NA
RPS	352.80	343.81	346.91	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	296.88	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.57	NA	499.60	NA	77.05	155.54

\* NA: Not Available

**IX. System Constraints:**

**X. Grid Disturbance / Any Other Significant Event:**

**XI. Weather Conditions For 20.02.2013 :**  
Dense fog in some parts of Punjab and Haryana.

**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 : 20.02.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER