



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) (6*210)	1260	670	640	15.58	649
	Guru Nanak Dev TPS(Bhatinda) (4*110)	440	120	120	2.56	107
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	337	337	8.98	374
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	686	679	17.71	738
	Talwandi Saboo (1*660)	660	353	351	7.57	315
	<b>Thermal (Total)</b>	<b>4680</b>	<b>2166</b>	<b>2127</b>	<b>52.40</b>	<b>2183</b>
	Total Hydro	1148	228	222	7.26	302
<b>Total Punjab</b>	<b>5828</b>	<b>2394</b>	<b>2349</b>	<b>59.66</b>	<b>2486</b>	
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	701	674	16.02	667
	DCRTPP (Yamuna nagar) (2*300)	600	274	248	6.29	262
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	580	370	12.01	501
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	880	825	19.56	815
	<b>Thermal (Total)</b>	<b>4944</b>	<b>2435</b>	<b>2117</b>	<b>53.87</b>	<b>2245</b>
	Total Hydro	62	12	13	0.28	12
	<b>Total Haryana</b>	<b>5006</b>	<b>2447</b>	<b>2130</b>	<b>54.15</b>	<b>2256</b>
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	957	952	23.45
suratgarh TPS (6*250)		1500	982	997	22.85	952
Chabra TPS (3*250)		750	422	377	9.76	407
Dholpur GPS (3*110)		330	116	116	2.98	124
Ramgarh GPS (1*3 + 1*35.5 +2*37.5 +1*110 +1*50)		271	194	181	4.55	190
RAPS A (NPC) (1*100+1*200)		300	88	80	4.43	185
Barsingsar (NLC) (2*125)		250	162	162	4.26	177
Giral LTPS (2*125)		250	70	67	1.41	59
Rajwest LTPS (IPP) (8*135)		1080	738	594	16.31	680
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(1*600)		600	530	510	13.37	557
Kawai(Adani) (2*660)		1320	1056	956	25.28	1053
<b>Thermal (Total)</b>		<b>8026</b>	<b>5315</b>	<b>4992</b>	<b>129</b>	<b>5360</b>
Total Hydro		550	206	190	4.51	188
Wind power		2798	77	136	2.03	85
Biomass		99	34	34	0.81	34
Solar		730	3	0	0.29	12
Renewable/Others (Total)		3627	114	170	3.13	130
<b>Total Rajasthan</b>		<b>12203</b>	<b>5635</b>	<b>5352</b>	<b>136.28</b>	<b>5678</b>
UP	Anpara TPS (3*210+2*500)	1630	905	1292	30.10	1254
	Obra TPS (2*50+2*94+5*200)	1194	205	306	6.90	288
	Paricha TPS (2*110+2*220+2*250)	1140	775	680	17.60	733
	Panki TPS (2*105)	210	126	77	1.50	63
	Harduaganj TPS (1*60+1*105+2*250)	665	473	492	11.60	483
	Tanda TPS (NTPC) (4*110)	440	281	280	6.51	271
	Roza TPS (IPP) (4*300)	1200	756	621	15.92	663
	Anpara-C (IPP) (2*600)	1200	678	990	23.31	971
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	320	281	7.15	298
	<b>Thermal (Total)</b>	<b>8129</b>	<b>4519</b>	<b>5019</b>	<b>120.58</b>	<b>5024</b>
	Vishnuparyag HPS (IPP)	400	95	95	2.25	94
	Other Hydro	527	26	27	0.88	37
	Cogeneration	981	800	800	19.20	800
	<b>Total UP</b>	<b>10037</b>	<b>5440</b>	<b>5941</b>	<b>142.91</b>	<b>5861</b>
	Uttarakhand	Total Hydro	1398	425	246	7.69
<b>Total Uttarakhand</b>		<b>1398</b>	<b>425</b>	<b>246</b>	<b>7.69</b>	<b>320</b>
Delhi	Raighat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	79	79	1.36	57
	Pragati Gas Turbine (2x104+ 1x122)	330	150	155	3.68	153
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (6*250)	1370	281	268	6.98	291
	Badarpur TPS (NTPC) (3*95+2*210)	705	213	215	5.47	228
	<b>Thermal (Total)</b>	<b>2917</b>	<b>723</b>	<b>717</b>	<b>17.47</b>	<b>728</b>
<b>Total Delhi</b>	<b>2917</b>	<b>723</b>	<b>717</b>	<b>17.47</b>	<b>728</b>	
HP	Baspa HPS (IPP) (2*150)	300	163	30	1.39	58
	Malana HPS (IPP) (2*43)	86	0	0	0.27	11
	Other Hydro	728	214	104	3.51	146
	<b>Total HP</b>	<b>1114</b>	<b>377</b>	<b>134</b>	<b>5.16</b>	<b>215</b>
J & K	Baqilhar HPS (IPP) (3*150)	450	296	120	4.10	171
	Other Hydro/IPP	436	91	51	1.50	63
	Gas/Diesel/Others	209	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1094</b>	<b>387</b>	<b>171</b>	<b>5.60</b>	<b>233</b>
<b>Total State Control Area Generation</b>		<b>39597</b>	<b>17828</b>	<b>17040</b>	<b>428.91</b>	<b>17777</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>4824</b>	<b>5082</b>	<b>113.13</b>	<b>4714</b>
<b>Total Regional Availability(Gross)</b>		<b>64017</b>	<b>37525</b>	<b>31078</b>	<b>811.44</b>	<b>33716</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	11432	5957	879	60.70	2529
State Control Area Hydro	5684	1661	1003	33.62	1307
<b>Total Regional Hydro</b>	<b>17116</b>	<b>7618</b>	<b>1882</b>	<b>94.32</b>	<b>3836</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	-50	400	400	400	4.82	1.19	3.63
Gwalior-Agra (D/C)	1390	1308	1981	0	35.13	0.00	35.13
Zerda-Kankroli	-84	-130	24	130	0.00	1.35	-1.35
Zerda-Bhinmal	-6	-17	174	100	1.11	0.00	1.11
Malanpur-Auraiya	-86	-109	0	158	0.00	2.65	-2.65
Badod-Kota/Morak	-48	-139	11	95	0.00	3.03	-3.03
Mundra-Mohindergarh(HVDC)	2301	2302	2305	0	54.81	0.00	54.81
Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
<b>Sub Total WR</b>	<b>3417</b>	<b>3615</b>			<b>95.87</b>	<b>8.21</b>	<b>87.66</b>
Pusauli Bypass	270	453	0	494	0.00	8.96	-8.96
MZP- GKP (D/C)	136	210	478	0	5.63	0.00	5.63
Patna-Balia(D/C)	429	300	617	0	10.62	0.00	10.62
B'Sharif-Balia (D/C)	267	139	371	0	5.75	0.00	5.75
Pusauli-Balia	29	15	46	0	0.54	0.00	0.54
Gaya-Fatehpur (765 Kv)	137	129	390	0	5.02	0.00	5.02
Pusauli-Sahupuri	136	103	158	0	2.51	0.00	2.51
K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
Son Ngr-Rihand	-38	-42	0	42	0.00	0.89	-0.89
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	41	160	391	0	4.78	0.00	4.78
<b>Sub Total ER</b>	<b>1407</b>	<b>1467</b>			<b>35.32</b>	<b>9.85</b>	<b>25.47</b>
<b>Total IR Exch</b>	<b>4824</b>	<b>5082</b>			<b>131.19</b>	<b>18.06</b>	<b>113.13</b>

**V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]**

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
26.58	0.64	27.22	7.60	-10.02	6.78	7.07	6.01	-6.01

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
47.61	70.63	118.25	25.47	87.66	113.13	-22.14	17.03	-5.12

**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	>50.20	>50.50
0.00	0.00	0.49	8.06	34.17	47.43	20.00	19.79	4.72	NA

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					
50.42	6.04	49.76	7.16	50.03	0.10	0.10	50.34	49.93

**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	23:54	402	16:56	0.0	0.0	0.0	0.0
Gorakhpur	400	412	20:04	394	12:27	0.0	0.0	0.0	0.0
Bareilly	400	426	20:05	401	12:29	0.0	0.0	11.2	0.0
Kanpur	400	423	20:04	402	12:25	0.0	0.0	3.1	0.0
Dadri	400	423	21:28	407	12:19	0.8	0.8	5.0	0.0
Ballabgarh	400	430	21:25	410	12:27	0.0	0.0	53.1	0.0
Bawana	400	428	21:57	410	12:18	0.0	0.0	43.3	0.0
Bassi	400	426	19:45	392	09:29	0.0	0.0	13.0	0.0
Hissar	400	416	21:24	397	10:34	0.0	0.0	0.0	0.0
Moga	400	422	21:24	402	10:36	0.0	0.0	3.7	0.0
Abdullapur	400	423	22:00	396	12:19	0.0	0.0	3.5	0.0
Nalagarh	400	425	05:02	407	12:14	0.0	0.0	6.4	0.0
Kishenpur	400	421	04:00	399	18:15	0.0	0.0	0.3	0.0
Wagoora	400	402	03:05	373	18:15	4.9	62.2	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	777	05:02	753	07:12	0.0	0.0	0.0	0.0
Balia	765	776	20:05	741	10:37	0.0	0.6	0.0	0.0
Moga	765	801	21:26	764	12:27	0.0	0.0	0.6	0.0
Agra	765	797	21:27	770	16:18	0.0	0.0	0.0	0.0
Bhiwani	765	799	05:02	773	12:21	0.0	0.0	0.0	0.0
Unnao	765	780	20:05	737	12:27	0.0	3.5	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 <sup>3</sup> /s)	Usage (m <sup>3</sup> /s)
Bhakra	513.59	445.62	501.77	1166.44	506.78	1396.66	122.75	461.85
Pong	426.72	384.05	409.26	474.29	415.87	705.67	63.32	410.74
Tehri	829.79	740.04	816.65	935.25	819.15	985.26	46.61	135.00
Koteshwar	612.50	598.50	610.10	4.69	610.10	4.69	135.00	147.00
Chamera-I	760.00	748.75	759.68	0.00	0.00	0.00	46.22	47.98
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	508.95	1.13	514.05	3.37	61.78	38.42

\* NA: Not Available

**X(A). Short-Term Open Access Details:**

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-390	10	0	-410	229	0	-10.44	3.32	-7.11
Delhi	-823	-29	-20	-515	245	-20	-14.83	2.42	-12.40
Haryana	-1070	129	0	-960	83	0	-24.21	2.21	-21.99
HP	531	-188	0	502	-138	0	12.52	-5.86	6.66
J&K	565	49	0	437	98	0	11.91	1.08	12.98
CHD	-30	0	0	0	0	0	-0.24	0.00	-0.24
Rajasthan	491	543	2	491	202	2	15.79	9.16	24.96
UP	69	0	0	57	0	0	0.65	0.00	0.65
Uttarakhand	215	124	3	196	241	98	4.98	5.05	10.02
<b>Total</b>	<b>-443</b>	<b>637</b>	<b>-15</b>	<b>-204</b>	<b>960</b>	<b>80</b>	<b>-3.86</b>	<b>17.39</b>	<b>13.52</b>

**X(B). Short-Term Open Access Details:**

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-390	-485	278	4	0	0
Delhi	-495	-823	497	-81	-20	-20
Haryana	-960	-1081	132	60	0	0
HP	531	482	-104	-651	0	0
J&K	565	437	98	-127	0	0
CHD	0	-30	0	0	0	0
Rajasthan	850	491	548	-574	2	2
UP	96	-58	0	0	0	0
Uttarakhand	215	196	301	88	98	3

**XI. System Constraints:****XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 07.12.2014 :**

Fog in Eastern UP

**XIV. Synchronisation of new generating units :**

0.00

**XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :****XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**