



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	250	160	4.28	178
	Guru Nanak Dev TPS(Bhatinda) (4*110)	440	0	0	-0.05	-2
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	463	170	8.02	334
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	533	355	9.80	408
	Talwandi Saboo (1*660)	660	0	0	0.51	21
	<b>Thermal (Total)</b>	<b>4680</b>	<b>1246</b>	<b>685</b>	<b>22.56</b>	<b>940</b>
	Total Hydro	1148	234	219	5.22	217
	<b>Total Punjab</b>	<b>5828</b>	<b>1480</b>	<b>904</b>	<b>27.78</b>	<b>1157</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.01
DCRTPP (Yamuna nagar) (2*300)		600	0	0	0.00	0
Faridabad GPS (NTPC)		432	160	166	3.87	161
RGTPP (khedar) (IPP) (2*600)		1200	0	0	0.00	0
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	610	376	12.16	507
<b>Thermal (Total)</b>		<b>4944</b>	<b>770</b>	<b>542</b>	<b>16.04</b>	<b>668</b>
Total Hydro		62	19	19	0.55	23
<b>Total Haryana</b>		<b>5006</b>	<b>789</b>	<b>561</b>	<b>16.59</b>	<b>691</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	251	276	6.11
	suratgarh TPS (6*250)	1500	219	229	5.22	218
	Chabra TPS (4*250)	1000	615	604	14.98	624
	Dholpur GPS (3*110)	330	124	0	1.52	64
	Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	138	125	3.49	145
	RAPS A (NPC) (1*100+1*200)	300	0	160	2.13	89
	Barsingsar (NLC) (2*125)	250	185	194	4.18	174
	Giral LTPS (2*125)	250	66	80	1.50	62
	Rajwest LTPS (IPP) (8*135)	1080	841	845	20.02	834
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(1*600)	600	103	0	0.95	39
	Kawai(Adani) (2*660)	1320	1205	1200	28.62	1193
	<b>Thermal (Total)</b>	<b>8276</b>	<b>3747</b>	<b>3713</b>	<b>89</b>	<b>3696</b>
	Total Hydro	550	0	17	0.40	16
	Wind power	2798	102	443	7.56	315
	Biomass	99	28	28	0.67	28
	Solar	730	0	0	0.05	2
	Renewable/Others (Total)	3627	130	471	8.28	345
	<b>Total Rajasthan</b>	<b>12453</b>	<b>3877</b>	<b>4201</b>	<b>97.38</b>	<b>4057</b>
	UP	Anpara TPS (3*210+2*500)	1630	1384	1384	32.60
Obra TPS (2*50+2*94+5*200)		1194	467	468	10.90	454
Paricha TPS (2*110+2*220+2*250)		1140	587	690	15.00	625
Panki TPS (2*105)		210	126	99	2.70	113
Harduaganj TPS (1*60+1*105+2*250)		665	166	212	4.20	175
Tanda TPS (NTPC) (4*110)		440	385	380	9.20	383
Roza TPS (IPP) (4*300)		1200	653	815	17.00	708
Anpara-C (IPP) (2*600)		1200	1089	1080	25.50	1063
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0
Anpara-D		500	0	0	0.00	0
<b>Thermal (Total)</b>		<b>8629</b>	<b>4857</b>	<b>5128</b>	<b>117</b>	<b>4879</b>
Vishnuparyag HPS (IPP)		400	94	92	2.20	92
Other Hydro		527	167	281	3.70	154
Cogeneration		981	600	600	14.40	600
<b>Total UP</b>		<b>10537</b>	<b>5718</b>	<b>6101</b>	<b>137.40</b>	<b>5633</b>
Uttarakhand	Total Hydro	1398	467	400	10.65	444
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>467</b>	<b>400</b>	<b>10.65</b>	<b>444</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	78	80	1.89	79
	Pragati Gas Turbine (2x104+ 1x122)	330	150	156	3.70	154
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (6*250)	1370	312	271	6.97	290
	Badarpur TPS (NTPC) (3*95+2*210)	705	182	189	3.78	157
	Thermal (Total)	2917	722	697	16.32	680
	<b>Total Delhi</b>	<b>2917</b>	<b>722</b>	<b>697</b>	<b>16.32</b>	<b>680</b>
HP	Baspa HPS (IPP) (2*150)	300	93	0	1.09	45
	Malana HPS (IPP) (2*43)	86	46	0	0.49	20
	Other Hydro	728	396	345	9.32	389
	<b>Total HP</b>	<b>1114</b>	<b>535</b>	<b>345</b>	<b>10.90</b>	<b>454</b>
J & K	Baglihar HPS (IPP) (3*150)	450	436	440	10.52	438
	Other Hydro/IPP	436	128	133	2.99	124
	Gas/Diesel/Others	209	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1094</b>	<b>564</b>	<b>573</b>	<b>13.50</b>	<b>563</b>
<b>Total State Control Area Generation</b>		<b>40347</b>	<b>14152</b>	<b>13782</b>	<b>330.51</b>	<b>13680</b>
<b>J. Net Inter Regional Exchange</b> [Import (+ve)/Export (-ve)]			<b>4221</b>	<b>2957</b>	<b>99.79</b>	<b>4158</b>
<b>Total Regional Availability(Gross)</b>		<b>65319</b>	<b>34856</b>	<b>27781</b>	<b>741.69</b>	<b>30812</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	11969	7347	2772	105.540130	4398
State Control Area Hydro	5684	1986	1854	47.11	1871
<b>Total Regional Hydro</b>	<b>17654</b>	<b>9333</b>	<b>4626</b>	<b>152.65</b>	<b>6269</b>

**V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]**

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-100	50	200	200	1.08	1.00	0.08
Gwalior-Agra (D/C)	1486	986	1863	0	35.26	0.00	35.26
Zerda-Kankroli	-145	-414	0	414	0.00	6.12	-6.12
Zerda-Bhinmal	-95	-360	0	375	0.00	4.84	-4.84
Malanpur-Auraiya	-55	-88	0	89	0.00	1.35	-1.35
Badod-Kota/Morak	-43	-170	39	97	0.00	1.52	-1.52
Mundra-Mohindergarh(HVDC)	2502	2100	2505	0	56.41	0.00	56.41
Vindhychal - Rihand	501	503	515	0	12.11	0.00	12.11
<b>Sub Total WR</b>	<b>4051</b>	<b>2607</b>			<b>104.86</b>	<b>14.83</b>	<b>90.03</b>
Pusauli Bypass	100	200	200	0	3.56	0.00	3.56
MZP- GKP (D/C)	-131	26	60	149	0.00	0.95	-0.95
Patna-Balia(D/C)	67	87	239	0	2.88	0.00	2.88
B'Sharif-Balia (D/C)	-21	-49	0	206	0.00	0.59	-0.59
Pusauli-Balia	83	49	139	0	1.03	0.00	1.03
Gaya-Fatehpur (765 Kv)	52	58	167	78	1.93	0.00	1.93
Pusauli-Sahupuri	144	109	201	0	4.21	0.00	4.21
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-27	-33	0	43	0.00	0.76	-0.76
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-97	-97	18	217	0.00	1.54	-1.54
<b>Sub Total ER</b>	<b>170</b>	<b>350</b>			<b>13.60</b>	<b>3.84</b>	<b>9.76</b>
<b>Total IR Exch</b>	<b>4221</b>	<b>2957</b>			<b>118.46</b>	<b>18.67</b>	<b>99.79</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
22.74	0.50	23.24	-0.01	-1.68	1.66	-2.71	0.72	-0.72

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
25.62	70.85	96.46	9.76	90.03	99.79	-15.86	19.18	3.32

**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	1.47	8.85	36.52	73.63	52.99	8.32	2.37	0.00	0.00

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					
50.16	7.01	49.55	22.07	49.93	0.14	0.10	50.16	0

**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	407	00:00	400	19:11	0.0	0.0	0.0	0.0
Gorakhpur	400	415	16:03	402	05:43	0.0	0.0	0.0	0.0
Bareilly	400	421	02:03	400	19:13	0.0	0.0	0.0	0.0
Kanpur	400	420	02:02	400	19:11	0.0	0.0	0.0	0.0
Dadri	400	427	02:01	406	19:07	0.1	0.1	29.1	0.0
Ballabgarh	400	433	02:05	407	19:08	0.0	0.0	49.1	11.1
Bawana	400	429	02:02	406	19:07	0.0	0.0	40.4	0.0
Bassi	400	420	04:00	392	19:11	0.0	0.0	0.0	0.0
Hissar	400	422	02:01	395	19:08	0.0	0.0	2.6	0.0
Moga	400	428	02:00	404	19:09	0.0	0.0	28.1	0.0
Abdullapur	400	431	02:04	396	19:05	0.0	0.0	58.0	0.6
Nalagarh	400	438	02:04	402	02:26	0.0	0.0	78.7	18.0
Kishenpur	400	226	01:43	214	19:47	100.0	100.0	0.0	0.0
Wagooora	400	412	03:30	375	20:11	5.0	17.7	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	774	02:04	739	19:11	0.0	0.6	0.0	0.0
Balia	765	770	02:06	742	19:10	0.0	0.0	0.0	0.0
Moga	765	810	02:02	765	19:12	0.0	0.0	20.8	0.0
Agra	765	790	02:03	751	19:12	0.0	0.0	0.0	0.0
Bhiwani	765	809	02:02	769	19:12	0.0	0.0	21.3	0.0
Unnao	765	764	02:02	736	19:11	0.0	4.3	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	481.31	488.47	481.63	495.33	352.12	258.05
Pong	426.72	384.05	403.69	304.55	401.93	266.33	143.59	17.22
Tehri	829.79	740.04	770.75	215.00	772.90	240.00	75.58	202.00
Koteswar	612.50	598.50	610.95	5.05	609.45	4.21	202.00	192.00
Chamera-I	760.00	748.75	756.95	0.00	0.00	0.00	278.11	354.63
Rihand	268.22	252.98	844.10	169.80	849.40	245.90	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	514.27	2.82	514.74	2.89	389.44	264.50

\* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-146	403	0	-150	0	0	-3.52	5.57	2.05
Delhi	-216	-366	-41	-216	6	0	-5.19	-2.37	-7.55
Haryana	268	149	0	264	126	0	5.76	-1.73	4.03
HP	99	-157	0	-104	-402	0	1.15	-5.01	-3.86
J&K	-70	-56	0	-70	-53	0	-1.69	-0.82	-2.51
CHD	0	-25	0	0	-15	0	0.00	-0.22	-0.22
Rajasthan	-125	-155	-39	-121	612	2	-2.94	7.12	4.18
UP	129	0	0	193	0	0	4.04	0.00	4.04
Uttarakhand	147	79	74	147	216	24	3.53	4.12	7.65
<b>Total</b>	<b>86</b>	<b>-127</b>	<b>-6</b>	<b>-57</b>	<b>490</b>	<b>26</b>	<b>1.15</b>	<b>6.67</b>	<b>7.81</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-146	-150	419	0	0	0
Delhi	-216	-216	182	-408	0	-41
Haryana	268	61	149	-585	0	0
HP	99	-104	-88	-525	0	0
J&K	-70	-70	-5	-103	0	0
CHD	0	0	0	-25	0	0
Rajasthan	-121	-125	674	-195	2	-74
UP	193	129	0	0	0	0
Uttarakhand	147	147	216	50	74	0

**XI. System Constraints:****XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 08.04.2015 :**

Normal

**XIV. Synchronisation of new generating units :****XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**  
315MVA ICT at Gorakhpur (UP) first time charged at 17.54 Hrs on 08.04.2015 with no load.**XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**