



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	690	850	17.60	733
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	200	200	4.50	187
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	802	775	18.94	789
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	1394	975	26.89	1121
	Talwandi Saboo (1*660)	660	552	348	9.65	402
	<b>Thermal (Total)</b>	<b>4700</b>	<b>3638</b>	<b>3148</b>	<b>77.58</b>	<b>3233</b>
Total Hydro	1000	482	475	12.15	506	
<b>Total Punjab</b>	<b>5700</b>	<b>4120</b>	<b>3623</b>	<b>89.73</b>	<b>3739</b>	
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	370	432	10.01	417
	DCRTPP (Yamuna nagar) (2*300)	600	555	562	12.84	535
	Faridabad GPS (NTPC)	432	151	163	3.89	162
	RGTTP (khedar) (IPP) (2*600)	1200	1134	1141	26.67	1111
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	618	370	12.72	530
	<b>Thermal (Total)</b>	<b>4944</b>	<b>2828</b>	<b>2668</b>	<b>66.13</b>	<b>2755</b>
	Total Hydro	62	25	24	0.58	24
	<b>Total Haryana</b>	<b>5006</b>	<b>2853</b>	<b>2692</b>	<b>66.71</b>	<b>2779</b>
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	852	864	20.82
suratgarh TPS (6*250)		1500	771	756	18.72	780
Chabra TPS (4*250)		1000	373	380	9.27	386
Dholpur GPS (3*110)		330	0	0	0.00	0
Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)		271	203	204	5.00	208
RAPS A (NPC) (1*100+1*200)		300	160	160	3.93	164
Barsingar (NLC) (2*125)		250	95	97	2.14	89
Giral LTPS (2*125)		250	92	81	1.86	77
Rajwest LTPS (IPP) (8*135)		1080	524	600	12.45	519
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	1087	979	23.41	975
Kawati(Adani) (2*660)		1320	1185	1140	27.07	1128
<b>Thermal (Total)</b>		<b>8876</b>	<b>5342</b>	<b>5261</b>	<b>125</b>	<b>5194</b>
Total Hydro		550	0	0	0.00	0
Wind power		3214	525	878	14.06	586
Biomass		99	21	21	0.51	21
Solar		730	0	0	2.99	125
Renewable/Others (Total)		4043	546	899	17.56	732
<b>Total Rajasthan</b>		<b>13469</b>	<b>5888</b>	<b>6160</b>	<b>142.22</b>	<b>5926</b>
UP		Anpara TPS (3*210+2*500)	1630	1322	1373	32.50
	Obra TPS (2*50+2*94+5*200)	1194	452	450	10.70	446
	Paricha TPS (2*110+2*220+2*250)	1140	554	647	14.90	621
	Panki TPS (2*105)	210	59	63	1.40	58
	Haridwar TPS (1*60+1*105+2*250)	665	290	277	6.80	283
	Tanda TPS (NTPC) (4*110)	440	375	376	8.98	374
	Roza TPS (IPP) (4*300)	1200	1085	1062	26.10	1088
	Anpara-C (IPP) (2*600)	1200	1080	1072	25.90	1079
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	365	396	8.50	354
	Anpara-D(1*500)	500	0	0	0.00	0
	Lalitpur TPS(1*660)	660	400	396	9.40	392
	<b>Thermal (Total)</b>	<b>9289</b>	<b>5982</b>	<b>6112</b>	<b>145</b>	<b>6049</b>
	Vishnuparyag HPS (IPP)(4*110)	440	281	271	6.30	263
	Alakanada(4*82.5)	330	133	136	3.30	138
	Other Hydro	527	71	144	2.30	96
	Cogeneration	981	100	100	2.40	100
	<b>Total UP</b>	<b>11567</b>	<b>6567</b>	<b>6763</b>	<b>159</b>	<b>6645</b>
Uttarakhand	Total Hydro	1398	766	605	16.62	693
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>766</b>	<b>605</b>	<b>16.62</b>	<b>693</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	38	0.85	35
	Pragati Gas Turbine (2x104+ 1x122)	330	147	150	3.56	148
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	258	252	6.17	257
	Badarpur TPS (NTPC) (3*95+2*210)	705	177	172	3.67	153
	<b>Thermal (Total)</b>	<b>2917</b>	<b>618</b>	<b>612</b>	<b>14.25</b>	<b>594</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>618</b>	<b>612</b>	<b>14.25</b>	<b>594</b>
HP	Baspa HPS (IPP) (3*100)	300	62	62	2.51	105
	Malana HPS (IPP) (2*43)	86	68	45	0.63	26
	Other Hydro	878	262	266	6.86	286
	<b>Total HP</b>	<b>1264</b>	<b>392</b>	<b>373</b>	<b>9.99</b>	<b>416</b>
J & K	Baglihar HPS (IPP) (3*150)	450	390	390	9.36	390
	Other Hydro/IPP	560	18	124	2.45	102
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>408</b>	<b>514</b>	<b>11.81</b>	<b>492</b>
<b>Total State Control Area Generation</b>		<b>42521</b>	<b>21612</b>	<b>21342</b>	<b>510.80</b>	<b>21283</b>
<b>J. Net Inter Regional Exchange</b> [Import (+ve)/Export (-ve)]			<b>6251.62</b>	<b>8431</b>	<b>186.90</b>	<b>7788</b>
<b>Total Regional Availability(Gross)</b>		<b>67758</b>	<b>47615</b>	<b>41015</b>	<b>1022.53</b>	<b>42605</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	10473	2254	124.72	5196
State Control Area Hydro	6581	2558	2542	63	2627
<b>Total Regional Hydro</b>	<b>18815</b>	<b>13031</b>	<b>4796</b>	<b>187.76</b>	<b>7823</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(HVDC B/B)	250	250	250	0	5.00	0.00	5.00
765 KV Gwalior-Agra (D/C)	2401	3215	3319	0	72.13	0.00	72.13
400 KV Zerda-Kankrol	0	-17	14	116	0.00	0.61	-0.61
400 KV Zerda-Bhinmal	-14	10	102	161	0.29	0.00	0.29
220 KV Auraiya-Malanpur	-172	-178	0	208	0.00	3.42	-3.42
220 KV Badoh-Kota/Morak	13	30	57	30	0.23	0.00	0.23
Mundra-Mohindergarh(HVDC Bipole)	2503	2502	2543	0	60.35	0.00	60.35
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	741	1089	1177	0	19.58	0.00	19.58
<b>Sub Total WR</b>	<b>5722</b>	<b>6901</b>			<b>157.57</b>	<b>4.02</b>	<b>153.55</b>
Pusauli Bypass/HVDC	300	300	300	0	7.40	0.00	7.40
400 KV MZP- GKP (D/C)	34	258	440	0	6.78	0.00	6.78
400 KV Patna-Balia(D/C) X 2	80	250	319	0	5.64	0.00	5.64
400 KV B'Shanif-Balia (D/C)	-103	96	147	103	1.38	0.00	1.38
765 KV Gaya-Balia	-21	122	152	21	1.11	0.00	1.11
765 KV Gaya-Fatehpur	11	131	238	22	3.01	0.00	3.01
220 KV Pusauli-Sahupuri	196	153	196	0	3.39	0.00	3.39
132 KV K'nasa-Sahupuri	0	0	1	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-24	-28	0	42	0.00	0.63	-0.63
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-177	-16	73	202	0.00	0.62	-0.62
400 KV Barh -GKP (D/C)	234	264	296	0	5.90	0.00	5.90
<b>Sub Total ER</b>	<b>530</b>	<b>1530</b>			<b>34.61</b>	<b>1.26</b>	<b>33.35</b>
+/- 800 KV BiswanathChariali-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total NER</b>	<b>0</b>	<b>0</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total IR Exch</b>	<b>6252</b>	<b>8431</b>			<b>192.18</b>	<b>5.28</b>	<b>186.90</b>

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdi (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
33.32	2.55	35.87	2.93	1.49	7.99	29.20	1.49	-1.49
<b>Total IR Schedule (MU)</b>								
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
48.28	133.67	181.95	33.35	153.55	186.90	-14.92	19.87	4.95

**V(C). Inter National Exchange with Nepal [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	
132 KV Tanakpur - Mahendarnagar	0	0	0	0	0	0	0.00

**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	0.13	2.44	20.09	67.32	67.34	8.82	3.37	0.43	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)	(Hz)	
50.23	18.02	49.69	18.26	49.96	0.079	0.081	50.20	49.86

**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	403	21:54	398	11:07	0.0	0.0	0.0	0.0
Gorakhpur	400	415	07:06	393	11:08	0.0	0.0	0.0	0.0
Bareilly	400	405	04:02	385	11:09	0.0	5.7	0.0	0.0
Kanpur	400	413	04:03	395	11:20	0.0	0.0	0.0	0.0
Dadri	400	413	03:23	394	11:21	0.0	0.0	0.0	0.0
Ballabgarh	400	420	04:02	397	11:20	0.0	0.0	0.0	0.0
Bawana	400	415	04:03	395	11:10	0.0	0.0	0.0	0.0
Bassi	400	422	04:02	394	11:39	0.0	0.0	0.5	0.0
Hissar	400	413	04:01	392	11:13	0.0	0.0	0.0	0.0
Moga	400	417	03:58	398	11:07	0.0	0.0	0.0	0.0
Abdullapur	400	416	00:00	395	11:10	0.0	0.0	0.0	0.0
Nalagarh	400	424	03:15	400	11:11	0.0	0.0	13.3	0.0
Kishenpur	400	425	03:55	403	19:24	0.0	0.0	13.3	0.0
Wagoora	400	414	03:58	385	20:14	0.0	6.9	0.0	0.0
Amritsar	400	422	03:45	399	11:09	0.0	0.0	4.1	0.0
Kashipur	400	413	21:39	408	19:29	0.0	0.0	0.0	0.0
Hamirpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Rishikesh	400	398	21:50	384	19:28	0.0	16.7	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	768	04:03	733	11:21	0.0	10.1	0.0	0.0
Balia	765	768	07:05	732	11:06	0.0	27.8	0.0	0.0
Moga	765	793	04:01	756	11:10	0.0	0.0	0.0	0.0
Agra	765	783	04:01	742	11:21	0.0	0.0	0.0	0.0
Bhiwani	765	792	04:00	753	11:20	0.0	0.0	0.0	0.0
Unnao	765	750	07:05	719	11:22	10.2	83.5	0.0	0.0
Lucknow	765	764	07:06	727	11:23	0.1	30.8	0.0	0.0
Meerut	765	796	04:02	754	11:20	0.0	0.0	0.0	0.0
Jhatikara	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Anta	765	768	00:00	768	00:00	0.0	0.0	0.0	0.0
Phagi	765	784	21:56	737	13:31	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 (m <sup>3</sup> /s)	Usage (m <sup>3</sup> /s)
Bhakra	513.59	445.62	510.74	1590.18	509.38	1515.08	330.83	545.78
Pong	426.72	384.05	420.35	902.94	416.01	718.14	80.48	362.54
Tehri	829.79	740.04	821.05	1023.28	824.55	1098.00	104.56	214.00
Koteshwar	612.50	598.50	610.75	4.95	609.21	4.21	214.00	214.29
Chamera-I	760.00	748.75	756.19	0.00	0.00	0.00	117.72	130.03
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	513.60	3.70	512.35	5.03	130.83	151.11

\* 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	-90	255	0	-95	243	0	-1.95	6.76	4.82
Delhi	-94	378	-2	-134	551	-2	-1.72	13.56	11.84
Haryana	46	237	0	46	222	0	1.10	5.69	6.79
HP	-50	185	0	-50	-542	0	-1.20	-0.64	-1.84
J&K	-46	-20	0	-46	15	0	-0.86	0.61	-0.25
CHD	0	0	0	0	0	0	0.00	0.56	0.56
Rajasthan	-5	565	2	-5	298	2	-0.12	12.15	12.02
UP	259	198	0	253	0	0	6.48	4.46	10.93
Uttarakhand	148	48	0	148	68	0	3.56	1.60	5.16
<b>Total</b>	<b>168</b>	<b>1846</b>	<b>0</b>	<b>117</b>	<b>855</b>	<b>0</b>	<b>5.28</b>	<b>44.75</b>	<b>50.03</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-70	-95	336	183	0	0
Delhi	20	-134	1019	124	0	-2
Haryana	46	46	253	222	0	0
HP	-50	-50	318	-568	0	0
J&K	-6	-46	165	-120	0	0
CHD	0	0	79	0	0	0
Rajasthan	-5	-5	567	177	2	2
UP	312	205	495	0	0	0
Uttarakhand	148	148	187	-115	0	0

**XI. System Constraints:**

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

**XIII. Weather Conditions For 09.10.2015 :**  
Normal.

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

**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 :**