



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	580	210	7.67	320
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	120	2.50	104
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	424	426	9.20	384
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	1380	1372	31.74	1322
	Talwandi Saboo (1*660)	660	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>4700</b>	<b>2504</b>	<b>2128</b>	<b>51.12</b>	<b>2130</b>
	Total Hydro	1000	476	617	13.87	578
<b>Total Punjab</b>	<b>5700</b>	<b>2980</b>	<b>2745</b>	<b>64.98</b>	<b>2708</b>	
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	556	455	12.54	523
	Faridabad GPS (NTPC)	432	388	317	7.95	331
	RGTPP (khedar) (IPP) (2*600)	1200	566	0	6.66	278
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>4944</b>	<b>1510</b>	<b>772</b>	<b>27.15</b>	<b>1131</b>
	Total Hydro	62	29	30	0.67	28
	<b>Total Haryana</b>	<b>5006</b>	<b>1539</b>	<b>802</b>	<b>27.82</b>	<b>1159</b>
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	762	747	17.77
suratgarh TPS (6*250)		1500	1131	667	21.11	879
Chabra TPS (4*250)		1000	620	638	14.98	624
Dholpur GPS (3*110)		330	81	82	2.12	88
Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)		271	67	172	2.73	114
RAPS A (NPC) (1*100+1*200)		300	167	173	4.22	176
Barsingar (NLC) (2*125)		250	169	164	3.85	161
Giral LTPS (2*125)		250	63	43	1.32	55
Rajwest LTPS (IPP) (8*135)		1080	721	846	18.54	773
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	506	701	13.39	558
Kawai(Adani) (2*660)		1320	1215	1200	29.27	1219
<b>Thermal (Total)</b>		<b>8876</b>	<b>5502</b>	<b>5433</b>	<b>129</b>	<b>5387</b>
Total Hydro		550	204	0	0.47	20
Wind power		3214	84	139	2.46	103
Biomass		99	21	21	0.49	21
Solar		730	1	0	0.16	7
Renewable/Others (Total)		4043	106	160	3.12	130
<b>Total Rajasthan</b>		<b>13469</b>	<b>5812</b>	<b>5593</b>	<b>132.88</b>	<b>5537</b>
UP		Anpara TPS (3*210+2*500)	1630	1381	1336	32.00
	Obra TPS (2*50+2*94+5*200)	1194	443	456	10.50	438
	Paricha TPS (2*110+2*220+2*250)	1140	566	532	12.80	533
	Panki TPS (2*105)	210	50	59	1.30	54
	Harduaganj TPS (1*60+1*105+2*250)	665	516	541	12.00	500
	Tanda TPS (NTPC) (4*110)	440	279	275	6.78	282
	Roza TPS (IPP) (4*300)	1200	1107	1098	26.50	1104
	Anpara-C (IPP) (2*600)	1200	1080	1085	25.90	1079
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	324	360	7.70	321
	Anpara-D(1*500)	500	0	0	0.00	0
	Lalitpur TPS(1*660)	660	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>9289</b>	<b>5746</b>	<b>5742</b>	<b>135</b>	<b>5645</b>
	Vishnuparyag HPS (IPP)(4*110)	440	306	326	7.30	304
	Alakanada(4*82.5)	330	166	163	4.00	167
	Other Hydro	527	114	64	2.20	92
	Cogeneration	981	50	50	1.20	50
	<b>Total UP</b>	<b>11567</b>	<b>6382</b>	<b>6345</b>	<b>150</b>	<b>6257</b>
Uttarakhand	Total Hydro	1398	835	700	17.56	732
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>835</b>	<b>700</b>	<b>17.56</b>	<b>732</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	33	33	0.85	35
	Pragati Gas Turbine (2x104+ 1x122)	330	148	150	3.60	150
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	235	249	5.06	211
	Badarpur TPS (NTPC) (3*95+2*210)	705	223	189	4.84	202
	Thermal (Total)	2917	640	621	14.32	597
	<b>Total Delhi</b>	<b>2917</b>	<b>640</b>	<b>621</b>	<b>14.32</b>	<b>597</b>
HP	Baspa HPS (IPP) (3*100)	300	60	181	3.09	129
	Malana HPS (IPP) (2*43)	86	82	0	0.58	24
	Other Hydro	878	397	389	9.50	396
	<b>Total HP</b>	<b>1264</b>	<b>539</b>	<b>570</b>	<b>13.17</b>	<b>549</b>
J & K	Baglihar HPS (IPP) (3*150)	450	600	750	16.20	675
	Other Hydro/IPP	560	122	115	2.08	87
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>722</b>	<b>865</b>	<b>18.28</b>	<b>762</b>
<b>Total State Control Area Generation</b>		<b>42521</b>	<b>19449</b>	<b>18241</b>	<b>439.19</b>	<b>18300</b>
<b>J. Net Inter Regional Exchange (Import +ve)/Export (-ve)]</b>			<b>2194</b>	<b>2891</b>	<b>187.80</b>	<b>7825</b>
<b>Total Regional Availability(Gross)</b>		<b>67758</b>	<b>40493</b>	<b>32711</b>	<b>953.90</b>	<b>39746</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	10268	3524	138.21	5759
State Control Area Hydro	6581	3391	3335	78	3230
<b>Total Regional Hydro</b>	<b>18815</b>	<b>13659</b>	<b>6859</b>	<b>215.73</b>	<b>8989</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)	0		0		0	0	0.00	0.00	0.00
765 KV Gwalior-Agra (D/C)	-2438		-2715		2808	0	60.81	0.00	60.81
400 KV Zerda-Kankrol	24		13		128	100	0.00	0.67	-0.67
400 KV Zerda-Bhinmal	68		69		180	72	0.65	0.00	0.65
220 KV Auraiya-Malanpur	-8		-13		0	36	0.49	0.49	0.00
220 KV Badoh-Kota/Morak	28		10		70	31	0.19	0.00	0.19
Mundra-Mohindergarh(HVDC Bipole)	2502		2509		2518	0	60.53	0.00	60.53
400 KV Vindhychal - Rihand	504		510		511	0	12.10	0.00	12.10
765 kV Phagi-Gwalior (D/C)	877		814		543	0	19.68	0.00	19.68
<b>Sub Total WR</b>	<b>1557</b>		<b>1197</b>				<b>154.46</b>	<b>1.16</b>	<b>153.30</b>
Pusaali Bypass/HVDC	450		450		450	0	9.80	0.00	9.80
400 KV MZP- GKP (D/C)	50		311		530	21	6.81	0.00	6.81
400 KV Patna-Balia(D/C) X 2	100		379		483	0	8.08	0.00	8.08
400 KV B'Shanif-Balia (D/C)	-107		213		294	66	3.59	0.00	3.59
765 KV Gaya-Balia	-34		162		221	34	1.65	0.00	1.65
765 KV Gaya-Fatehpur	20		66		261	40	2.65	0.00	2.65
220 KV Pusaali-Sahupuri	-155		0		0	179	0.00	1.07	-1.07
132 KV K'nasa-Sahupuri	0		0		0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-26		-30		0	32	0.00	0.64	-0.64
132 KV Garhwa-Rihand	0		0		0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-174		-53		128	219	0.00	0.76	-0.76
400 KV Barh -GKP (D/C)	213		196		258	0	5.00	0.00	5.00
<b>Sub Total ER</b>	<b>337</b>		<b>1694</b>				<b>38.07</b>	<b>2.46</b>	<b>35.61</b>
+/- 800 KV BiswanathChariali-Agra	300		0		0	510	0.00	1.10	-1.10
<b>Sub Total NER</b>	<b>300</b>		<b>0</b>				<b>0.00</b>	<b>1.10</b>	<b>-1.10</b>
<b>Total IR Exch</b>	<b>2194</b>		<b>2891</b>				<b>192.53</b>	<b>4.72</b>	<b>187.80</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
35.44	3.90	39.34	14.35	7.37	4.72	8.93	0.53	-0.53
<b>Total IR Schedule (MU)</b>								
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
58.95	121.47	180.42	35.61	153.30	188.90	-23.34	31.83	8.49

**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	0.58	6.68	39.03	82.06	71.53	3.56	0.91	0.00	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)	(Hz)
50.19	18.00	49.64	18.11	49.92	0.123	0.079	50.14	0.00

**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	401	21:54	394	00:36	0.0	0.0	0.0	0.0
Gorakhpur	400	411	07:21	396	23:38	0.0	0.0	0.0	0.0
Bareilly	400	407	04:01	391	11:41	0.0	0.0	0.0	0.0
Kanpur	400	412	04:02	397	18:40	0.0	0.0	0.0	0.0
Dadri	400	416	04:01	396	11:39	0.1	0.1	0.0	0.0
Ballabhgarh	400	422	04:00	400	11:37	0.0	0.0	1.5	0.0
Bawana	400	423	04:01	400	11:37	0.0	0.0	3.8	0.0
Bassi	400	423	04:01	400	11:39	0.0	0.0	1.1	0.0
Hissar	400	421	04:02	394	11:38	0.0	0.0	0.1	0.0
Moga	400	422	04:01	398	11:11	0.0	0.0	2.2	0.0
Abdullapur	400	428	04:02	395	14:38	0.0	0.0	13.9	0.0
Nalagarh	400	431	03:32	403	11:40	0.0	0.0	17.0	0.1
Kishenpur	400	424	04:02	402	19:27	0.0	0.0	11.1	0.0
Wagoora	400	413	03:30	395	19:27	0.0	8.0	0.0	0.0
Amritsar	400	426	04:02	401	18:45	0.0	0.0	12.5	0.0
Kashipur	400	415	17:59	406	11:28	0.0	0.0	0.0	0.0
Hamirpur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0
Rishikesh	400	404	23:53	383	11:25	0.0	4.9	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	763	04:02	737	11:41	0.0	7.8	0.0	0.0
Balia	765	762	07:25	740	11:42	0.0	1.8	0.0	0.0
Moga	765	803	04:01	759	11:40	0.0	0.0	1.7	0.0
Agra	765	785	04:01	750	11:41	0.0	0.0	0.0	0.0
Bhiwani	765	790	17:58	762	11:38	0.0	0.0	0.0	0.0
Unnao	765	750	17:32	728	11:40	0.0	58.7	0.0	0.0
Lucknow	765	762	16:05	738	11:40	0.0	3.1	0.0	0.0
Meerut	765	806	04:01	761	11:41	0.0	0.0	4.8	0.0
Jhatikara	765	802	04:01	761	18:52	0.0	0.0	1.0	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	789	04:02	755	12:25	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	511.73	1635.65	510.64	1575.10	367.35	488.58
Pong	426.72	384.05	421.17	946.20	416.46	730.66	149.94	208.89
Tehri	829.79	740.04	822.75	1060.35	823.75	1081.00	153.85	148.00
Koteshwar	612.50	598.50	610.57	4.69	608.93	4.21	148.00	148.49
Chamera-I	760.00	748.75	754.96	0.00	0.00	0.00	148.70	155.74
Rihand	268.22	252.98	851.60	281.40	856.70	367.60	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	514.17	6.68	515.29	4.56	328.31	241.53

\* 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	185	160	0	183	63	0	4.43	2.69	7.12
Delhi	98	277	-2	342	25	-2	5.82	4.35	10.17
Haryana	1789	-725	0	1789	199	0	42.94	-0.64	42.29
HP	-439	103	0	-388	-366	0	-9.72	-2.24	-11.96
J&K	-442	-25	0	-442	199	0	-10.25	3.36	-6.89
CHD	0	0	0	0	0	0	0.00	0.15	0.15
Rajasthan	-257	488	2	-395	241	2	-6.85	9.80	2.94
UP	360	0	0	187	0	0	4.93	0.00	4.93
Uttarakhand	-192	6	0	-200	174	0	-4.58	4.12	-0.46
<b>Total</b>	<b>1103</b>	<b>285</b>	<b>0</b>	<b>1075</b>	<b>534</b>	<b>0</b>	<b>26.72</b>	<b>21.58</b>	<b>48.29</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	185	183	171	63	0	0
Delhi	399	98	458	-170	0	-2
Haryana	1791	1739	227	-725	0	0
HP	-388	-439	110	-470	0	0
J&K	-402	-442	249	-25	0	0
CHD	0	0	64	-20	0	0
Rajasthan	-257	-396	592	-285	2	2
UP	417	104	0	0	0	0
Uttarakhand	-178	-200	338	5	0	0

**XI. System Constraints:**

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

**XIII. Weather Conditions For 29.09.2015 :**  
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 :**