



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	560	560	12.75	531
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	80	80	1.77	74
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	642	588	13.37	557
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	557	362	9.20	383
	Talwandi Saboo (1*660)	660	338	313	6.97	290
	<b>Thermal (Total)</b>	<b>4700</b>	<b>2177</b>	<b>1903</b>	<b>44.05</b>	<b>1835</b>
	Total Hydro	1000	793	779	19.00	792
	<b>Total Punjab</b>	<b>5700</b>	<b>2970</b>	<b>2682</b>	<b>63.05</b>	<b>2627</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	230	223	5.41	225
Faridabad GPS (NTPC)		432	0	0	0.00	0
RGTTP (Khedar) (IPP) (2*600)		1200	411	371	9.24	385
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	413	664	13.28	553
<b>Thermal (Total)</b>		<b>4944</b>	<b>1054</b>	<b>1258</b>	<b>27.93</b>	<b>1164</b>
Total Hydro		62	25	24	0.59	25
<b>Total Haryana</b>		<b>5006</b>	<b>1079</b>	<b>1282</b>	<b>28.52</b>	<b>1188</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	870	900	21.27
	suratgarh TPS (6*250)	1500	938	937	22.92	955
	Chabra TPS (4*250)	1000	368	374	8.78	366
	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	178	184	4.97	207
	RAPS A (NPC) (1*100+1*200)	300	149	151	3.38	141
	Barsingar (NLC) (2*125)	250	96	95	2.13	89
	Giral LTPS (2*125)	250	73	76	1.51	63
	Rajwest LTPS (IPP) (8*135)	1080	381	610	12.02	501
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(1*600)	600	0	0	1.12	47
	Kawai(Adani) (2*660)	1320	864	907	22.12	922
	<b>Thermal (Total)</b>	<b>8276</b>	<b>3917</b>	<b>4234</b>	<b>100</b>	<b>4175</b>
	Total Hydro	550	1	0	0.66	27
	Wind power	3214	746	560	14.55	606
	Biomass	99	24	24	0.58	24
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	770	584	15.13	631
	<b>Total Rajasthan</b>	<b>12869</b>	<b>4688</b>	<b>4818</b>	<b>116.00</b>	<b>4833</b>
	UP	Anpara TPS (3*210+2*500)	1630	1210	1218	28.50
Obra TPS (2*50+2*94+5*200)		1194	358	340	8.60	358
Paricha TPS (2*110+2*220+2*250)		1140	680	709	16.70	696
Panki TPS (2*105)		210	122	135	2.90	121
Harduaganj TPS (1*60+1*105+2*250)		665	423	489	11.50	479
Tanda TPS (NTPC) (4*110)		440	367	370	8.90	371
Roza TPS (IPP) (4*300)		1200	826	824	19.70	821
Anpara-C (IPP) (2*600)		1200	806	806	19.20	800
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	310	403	9.30	388
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>5102</b>	<b>5294</b>	<b>125</b>	<b>5221</b>
Vishnuparyag HPS (IPP)(including Alakanada)		730	251	263	6.00	250
Other Hydro		527	62	279	3.90	163
Cogeneration		981	100	100	2.40	100
<b>Total UP</b>		<b>11527</b>	<b>5515</b>	<b>5936</b>	<b>137.60</b>	<b>5483</b>
Uttarakhand	Total Hydro	1398	1047	1022	23.83	993
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>1047</b>	<b>1022</b>	<b>23.83</b>	<b>993</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.03	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	69	72	1.70	71
	Pragati Gas Turbine (2x104+ 1x122)	330	141	265	4.78	199
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (6*250)	1370	-5	271	2.68	112
	Badarpur TPS (NTPC) (3*95+2*210)	705	321	327	7.50	312
	<b>Thermal (Total)</b>	<b>2917</b>	<b>526</b>	<b>935</b>	<b>16.63</b>	<b>693</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>526</b>	<b>935</b>	<b>16.63</b>	<b>693</b>
HP	Baspa HPS (IPP) (2*100)	300	327	337	7.61	317
	Malana HPS (IPP) (2*43)	86	98	98	2.35	98
	Other Hydro	878	563	489	12.50	521
	<b>Total HP</b>	<b>1264</b>	<b>988</b>	<b>924</b>	<b>22.46</b>	<b>936</b>
J & K	Baglihar HPS (IPP) (3*150)	450	440	440	10.57	440
	Other Hydro/IPP	560	181	189	4.50	187
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>621</b>	<b>629</b>	<b>15.06</b>	<b>628</b>
<b>Total State Control Area Generation</b>		<b>41881</b>	<b>17434</b>	<b>18228</b>	<b>423.15</b>	<b>17381</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>6649</b>	<b>5922</b>	<b>131.43</b>	<b>5476</b>
<b>Total Regional Availability(Gross)</b>		<b>67100</b>	<b>43685</b>	<b>41427</b>	<b>983.78</b>	<b>40741</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12216	11117	9834	244.26	10177
State Control Area Hydro	5811	3537	3657	91.50	3563
<b>Total Regional Hydro</b>	<b>18027</b>	<b>14654</b>	<b>13491</b>	<b>335.76</b>	<b>13740</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	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	50	-350	300	350	1.67	2.16	-0.48		
Gwalior-Agra (D/C)	2474	2332	2474	0	45.53	0.00	45.53		
Zerda-Kankroli	-42	-70	0	228	0.00	2.82	-2.82		
Zerda-Bhinmal	-8	9	129	165	0.00	0.60	-0.60		
Malanpur-Auraiya	-19	2	0	19	0.00	0.03	-0.03		
Badod-Kota/Morak	100	91	145	67	2.44	0.00	2.44		
Mundra-Mohinderqarh(HVDC)	2202	2200	2511	0	46.64	0.00	46.64		
Vindhychal - Rihand	501	311	503	0	8.16	0.00	8.16		
<b>Sub Total WR</b>	<b>5258</b>	<b>4525</b>			<b>104.45</b>	<b>5.60</b>	<b>98.84</b>		
Pusauli Bypass	400	400	0	400	9.18	0.00	9.18		
MZP- GKP (D/C)	368	380	646	0	10.44	0.00	10.44		
Patna-Balia(D/C)	238	216	260	0	4.89	0.00	4.89		
B'Sharif-Balia (D/C)	115	107	269	0	3.90	0.00	3.90		
Pusauli-Balia	114	136	210	0	1.42	0.00	1.42		
Gaya-Fatehpur (765 Kv)	201	82	297	0	4.84	0.00	4.84		
Pusauli-Sahupuri	-220	-172	0	222	0.00	4.61	-4.61		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-10	-40	0	44	0.00	0.85	-0.85		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sasaram - Fatehpur(765 Kv)	-20	79	79	153	0.00	0.99	-0.99		
Barh -GKP (D/C)	205	209	250	0	4.38	0.00	4.38		
<b>Sub Total ER</b>	<b>1391</b>	<b>1397</b>			<b>39.04</b>	<b>6.45</b>	<b>32.59</b>		
<b>Total IR Exch</b>	<b>6649</b>	<b>5922</b>			<b>143.48</b>	<b>12.05</b>	<b>131.43</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
28.92	3.93	32.85	8.59	8.41	2.23	-0.14	8.87	-8.87

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
52.54	94.52	147.06	32.59	98.84	131.43	-19.95	4.33	-15.63

**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	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendamaagar	-27	-23	0	34	0	1	-0.53		

**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	0.00	2.86	37.76	68.52	17.40	10.17	1.20	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					
50.25	8.02	49.82	19.50	50.02	0.05	0.07	50.29	49.99

**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	405	07:56	399	19:50	0.0	0.0	0.0	0.0
Gorakhpur	400	415	08:01	400	22:09	0.0	0.0	0.0	0.0
Bareilly	400	418	08:00	396	20:00	0.0	0.0	0.0	0.0
Kanpur	400	420	08:05	400	19:52	0.0	0.0	0.0	0.0
Dadri	400	415	05:04	397	19:49	0.0	0.0	0.0	0.0
Ballabhgarh	400	422	04:02	401	19:50	0.0	0.0	4.4	0.0
Bawana	400	418	04:03	400	19:48	0.0	0.0	0.0	0.0
Bassi	400	427	03:00	407	19:54	0.0	0.0	35.3	0.0
Hissar	400	411	03:00	394	19:49	0.0	0.0	0.0	0.0
Moga	400	408	03:01	396	19:48	0.0	0.0	0.0	0.0
Abdullapur	400	409	16:04	396	11:24	0.0	27.6	0.0	0.0
Nalagarh	400	411	05:02	402	19:43	0.0	0.0	0.0	0.0
Kishenpur	400	413	04:02	402	20:22	0.0	0.0	0.0	0.0
Wagoora	400	406	03:31	386	20:43	0.0	8.4	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	780	08:02	741	20:23	0.0	0.2	0.0	0.0
Balia	765	775	08:02	744	20:26	0.0	0.0	0.0	0.0
Moga	765	789	05:03	759	19:51	0.0	0.0	0.0	0.0
Agra	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bhiwani	765	800	03:00	764	19:49	0.0	0.0	0.0	0.0
Unnao	765	773	08:03	738	22:09	0.0	8.5	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	498.17	1018.16	496.42	960.37	1779.03	1093.54
Pong	426.72	384.05	411.52	544.90	402.96	288.96	769.45	107.12
Tehri	829.79	740.04	776.00	274.18	772.25	232.00	721.79	224.00
Koteshwar	612.50	598.50	610.00	4.44	611.04	5.20	224.00	216.43
Chamera-I	760.00	748.75	756.15	0.00	0.00	0.00	568.97	350.83
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	523.31	10.77	519.81	11.27	680.71	419.46

\* 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	1363	112	0	1195	100	0	32.74	3.52	36.25
Delhi	258	-165	-2	338	-54	-2	7.92	-2.24	5.68
Haryana	1327	90	0	1361	163	0	32.32	1.87	34.19
HP	-1281	-243	0	-1078	-331	0	-27.50	-7.45	-34.96
J&K	-535	-25	0	-434	49	0	-11.27	-0.24	-11.50
CHD	0	-10	0	0	0	0	0.24	-0.05	0.19
Rajasthan	-489	587	2	-489	328	2	-11.74	12.34	0.59
UP	854	0	0	620	0	0	14.07	0.00	14.07
Uttarakhand	-55	0	0	-55	98	0	-1.33	0.80	-0.52
<b>Total</b>	<b>1441</b>	<b>346</b>	<b>0</b>	<b>1458</b>	<b>353</b>	<b>0</b>	<b>35.44</b>	<b>8.55</b>	<b>43.98</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1560	1195	205	100	0	0
Delhi	596	64	83	-324	-2	-2
Haryana	1402	1316	225	-166	0	0
HP	-1078	-1281	-216	-547	0	0
J&K	-434	-535	49	-25	0	0
CHD	30	0	0	-15	0	0
Rajasthan	-489	-490	620	214	2	2
UP	870	435	0	0	0	0
Uttarakhand	-55	-55	98	0	0	0

**XI. System Constraints:****XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 19.07.2015 :**

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 :**