

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	160	160	3.60	150	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	80	80	1.94	81	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	207	251	5.29	220	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	706	705	19.75	823	
	Talwandi Saboo (2*660)	1320	0	0	0.00	0	
	Thermal (Total)	5360	1153	1196	30.57	1274	
	Total Hydro	1000	510	398	11.17	465	
	Total Punjab	6360	1663	1594	41.74	1739	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	551	460	11.67	486	
Faridabad GPS (NTPC)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	1134	768	20.20	841	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	564	374	9.88	412	
Thermal (Total)		4944	2249	1602	41.74	1739	
Total Hydro		62	20	29	0.52	22	
Total Haryana		5006	2269	1631	42.27	1761	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	534	496	12.41	517
	suratgarh TPS (6*250)	1500	217	220	5.37	224	
	Chabra TPS (4*250)	1000	481	392	10.65	444	
	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	210	204	5.16	215	
	RAPS A (NPC) (1*100+1*200)	300	157	160	3.92	163	
	Barsingar (NLC) (2*125)	250	171	188	4.28	178	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	833	832	18.92	788	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1084	910	23.96	999	
	Kawai(Adani) (2*660)	1320	1219	973	26.61	1109	
	Thermal (Total)	8876	4906	4375	111	4637	
	Total Hydro	550	249	206	4.65	194	
	Wind power	3214	315	814	12.79	533	
	Biomass	99	23	23	0.54	23	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	338	837	13.34	556	
	Total Rajasthan	13469	5493	5418	129.27	5386	
	UP	Anpara TPS (3*210+2*500)	1630	1374	1374	32.60	1358
Obra TPS (2*50+2*94+5*200)		1194	455	459	11.00	458	
Paricha TPS (2*110+2*220+2*250)		1140	673	620	15.20	633	
Panki TPS (2*105)		210	59	68	1.50	63	
Harduaganj TPS (1*60+1*105+2*250)		665	530	293	9.10	379	
Tanda TPS (NTPC) (4*110)		440	370	364	7.66	319	
Roza TPS (IPP) (4*300)		1200	824	707	16.50	688	
Anpara-C (IPP) (2*600)		1200	1084	1080	25.90	1079	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	364	253	6.80	283	
Anpara-D(1*500)		500	0	0	0.00	0	
Lalitpur TPS(1*660)		660	425	420	9.80	408	
Bara(1*660)		660	0	0	0.00	0	
Thermal (Total)		9949	6158	5638	136	5669	
Vishnuparyag HPS (IPP)(4*110)		440	122	117	2.80	117	
Alaknanda(4*82.5)		330	81	76	1.80	75	
Other Hydro		527	235	47	2.10	88	
Cogeneration		981	25	25	0.60	25	
Total UP		12227	6621	5903	143	5973	
Uttarakhand		Total Hydro	1398	516	234	7.80	325
		Total Uttarakhand	1398	516	234	7.80	325
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	76	76	1.76	73	
	Pragati Gas Turbine (2x104+ 1x122)	330	155	149	3.69	154	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	252	252	6.05	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.39	141	
	Thermal (Total)	2917	648	642	14.88	620	
Total Delhi	2917	648	642	14.88	620		
HP	Baspa HPS (IPP) (3*100)	300	109	30	1.46	61	
	Malana HPS (IPP) (2*43)	86	45	0	0.33	14	
	Other Hydro	878	189	164	4.12	172	
	Total HP	1264	343	194	5.91	246	
J & K	Baglihar HPS (IPP) (3*150)	450	300	300	7.20	300	
	Other Hydro/IPP	560	110	117	2.70	113	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	410	417	9.90	413	
Total State Control Area Generation		43841	17963	16033	395.12	16463	
J. Net Inter Regional Exchange (Import +ve)/Export (-ve)			5278	5565	149.72	6238	
Total Regional Availability(Gross)		69078	42174	31730	840.84	35035	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9817	1572	91.87	3828
State Control Area Hydro	6581	2486	1718	47	1944
Total Regional Hydro	18815	12303	3290	138.52	5772

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	
Vindhyachal(HVDC B/B)	100		100		100	0	2.47	0.00	2.47
765 KV Gwalior-Agra (D/C)	2487		2337		2917	0	59.87	0.00	59.87
400 KV Zarda-Kankroli	-84		-133		21	252	0.00	2.09	-2.09
400 KV Zarda-Bhinmal	-35		-89		132	209	0.00	0.70	-0.70
220 KV Auraiya-Malanpur	-65		-117		0	139	0.00	1.99	-1.99
220 KV Badod-Kota/Morak	-44		-73		33	80	0.00	1.04	-1.04
Mundra-Mohindergarh(HVDC Bipole)	1998		1749		2506	0	48.02	0.00	48.02
400 KV Vindhyachal - Rihand	0		0		0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	557		737		636	0	19.91	0.00	19.91
Sub Total WR	4914		4511				130.27	5.82	124.44
Pusaull Bypass/HVDC	50		50		50	0	1.18	4.22	-3.04
400 KV MZP -GKP (D/C)	92		272		548	0	6.76	0.00	6.76
400 KV Patna-Balia(D/C) X 2	227		251		489	0	8.74	0.00	8.74
400 KV B'Sharif-Balia (D/C)	28		111		369	0	3.21	0.00	3.21
765 KV Gaya-Balia	153		147		249	0	2.09	0.00	2.09
765 KV Gaya-Fatehpur	-17		156		359	73	4.31	0.00	4.31
220 KV Pusaull-Sahupuri	126		125		174	0	2.99	0.00	2.99
132 KV K'nasa-Sahupuri	0		0		0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-26		-24		0	27	0.00	0.59	-0.59
132 KV Garhwa-Rihand	0		0		0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-137		60		364	176	2.27	0.00	2.27
400 KV Barh -GKP (D/C)	268		306		366	0	7.60	0.00	7.60
Sub Total ER	764		1454				39.64	4.81	34.83
+/- 800 KV BiswanathCharialli-Agra	-400		-400		0	400	0.00	9.56	-9.56
Sub Total NER	-400		-400				0.00	9.56	-9.56
Total IR Exch	5278		5565				169.91	20.19	149.72

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	Total	Through ER	Through WR	Through ER	Through WR
30.33	1.14	31.47	3.88	-17.12	11.42	24.59	6.04	-6.04	
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)			
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER(including NER)	Through WR	Total	Total
52.81	100.90	153.71	25.27	124.44	149.72	-27.54	23.54	-4.00	

V(C). Inter National Exchange with Nepal [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	
132 KV Tanakpur - Mahendarnagar	-31		-30		0	32	0	1	-0.73

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	0.44	10.30	56.68	70.09	15.63	4.57	0.02	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					
50.21	11.31	49.76	5.11	49.99	0.051	0.070	50.18	49.96

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	14:23	398	05:47	0.0	0.0	0.0	0.0
Gorakhpur	400	423	21:46	408	05:49	0.0	0.0	5.0	0.0
Bareilly(PG)400kV	400	421	05:03	402	18:07	0.0	0.0	0.1	0.0
Kanpur	400	411	03:02	406	18:07	0.0	0.0	4.0	0.0
Dadri	400	427	04:00	400	18:07	0.0	0.0	21.7	0.0
Ballabgarh	400	430	04:00	404	18:07	0.0	0.0	37.9	0.0
Bawana	400	428	03:55	403	18:09	0.0	0.0	28.6	0.0
Bassi	400	426	21:44	395	06:45	0.0	0.0	8.0	0.0
Hissar	400	422	04:00	398	18:20	0.0	0.0	3.0	0.0
Moga	400	425	02:41	403	18:14	0.0	0.0	19.7	0.0
Abdullapur	400	428	01:42	400	18:22	0.0	0.0	26.9	0.0
Nalagarh	400	436	02:40	411	18:20	0.0	0.0	60.5	19.3
Kishenpur	400	428	03:00	400	18:18	0.0	0.0	18.9	0.0
Wagoora	400	412	03:38	378	18:27	2.8	25.5	0.0	0.0
Amritsar	400	430	02:22	408	18:19	0.0	0.0	41.9	0.0
Kashipur	400	421	04:00	411	17:57	0.0	0.0	2.4	0.0
Hamirpur	400	430	03:03	405	18:19	0.0	0.0	39.2	0.0
Rishikesh	400	420	04:03	384	17:59	0.0	10.1	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	781	21:46	638	16:25	0.1	0.1	0.0	0.0
Balia	765	779	21:56	755	18:39	0.0	0.0	0.0	0.0
Moga	765	802	04:00	772	06:41	0.0	0.0	10.6	0.0
Agra	765	795	21:47	758	18:07	0.0	0.0	0.0	0.0
Bhiwani	765	803	21:47	764	18:05	0.0	0.0	10.0	0.0
Unnao	765	777	21:46	753	18:09	0.0	0.0	0.0	0.0
Lucknow	765	786	21:56	759	18:07	0.0	0.0	0.0	0.0
Meerut	765	809	05:03	760	18:12	0.0	0.0	14.1	0.0
Jhatikara	765	805	00:00	759	00:00	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	803	00:00	761	00:00	0.0	0.0	0.0	0.0
Anta	765	783	20:11	759	06:24	0.0	0.0	0.0	0.0
Phagi	765	786	04:01	751	06:42	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 ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	508.56	1470.42	505.83	1352.81	207.76	384.09
Pong	426.72	384.05	417.77	794.52	412.38	577.87	58.67	293.73
Tehri	829.79	740.04	815.85	922.25	822.50	1044.51	64.85	136.00
Koteshwar	612.50	598.50	610.81	4.98	609.10	4.21	136.00	135.67
Chamera-I	760.00	748.75	758.44	0.00	0.00	0.00	67.78	47.55
Rihand	268.22	252.98	850.50	263.50	853.30	309.60	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	508.97	4.64	510.40	0.60	54.72	197.98

* 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	-620	313	0	-903	241	0	-12.49	6.83	-5.67
Delhi	-694	-105	0	-496	439	0	-13.37	9.00	-4.36
Haryana	-312	300	0	-508	241	0	-8.62	4.94	-3.67
HP	81	178	0	127	-400	0	3.88	-0.30	3.58
J&K	372	-136	0	255	-120	0	7.85	-1.54	6.30
CHD	-30	0	0	0	0	0	-0.24	-0.07	-0.31
Rajasthan	0	611	0	0	518	0	6.93	16.46	23.39
UP	118	0	0	287	0	0	-0.45	0.00	-0.45
Uttarakhand	195	221	0	195	157	0	4.67	6.60	11.27
Total	-891	1383	0	-1044	1075	0	-11.83	41.92	30.09

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-419	-903	313	209	0	0
Delhi	-492	-694	835	-113	0	0
Haryana	-298	-508	300	-164	0	0
HP	253	-21	227	-602	0	0
J&K	372	235	-10	-186	0	0
CHD	0	-30	0	-76	0	0
Rajasthan	533	0	1683	-110	0	0
UP	369	-268	0	0	0	0
Uttarakhand	195	195	575	71	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 10.11.2015 :

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 :