

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	0	0	-0.17	-7
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250)	920	428	410	9.49	395
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	705	704	22.03	918
	Talwandi Saboo (2*660)	1320	680	694	18.07	753
	Thermal (Total)	5360	1813	1808	49.40	2058
	Total Hydro	1000	455	436	12.31	513
Total Punjab	6360	2268	2244	61.71	2571	
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	576	480	11.76	490
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (kheadar) (IPP) (2*600)	1200	1127	787	20.06	836
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	1050	739	20.85	869
	Thermal (Total)	4944	2753	2006	52.66	2194
	Total Hydro	62	10	16	0.42	17
	Total Haryana	5006	2763	2022	53.08	2212
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	856	846	21.09
suratgarh TPS (6*250)		1500	582	574	14.67	611
Chabra TPS (4*250)		1000	518	539	12.19	508
Dholpur GPS (3*110)		330	92	75	2.56	107
Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)		271	202	201	5.05	210
RAPS A (NPC) (1*100+1*200)		300	163	163	4.05	169
Barsingsar (NLC) (2*125)		250	78	95	1.86	78
Giral LTSP (2*125)		250	74	70	1.37	57
Rajwest LTSP (IPP) (8*135)		1080	896	782	21.29	887
VS LIGNITE LTSP (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	1077	850	23.04	960
Kawai(Adani) (2*660)		1320	1175	858	25.50	1062
Thermal (Total)		8876	5713	5053	133	5528
Total Hydro		550	226	91	4.48	186
Wind power		3214	294	679	8.12	338
Biomass		99	18	18	0.43	18
Solar		730	0	0	0.00	0
Renewable/Others (Total)		4043	312	697	8.55	356
Total Rajasthan		13469	6251	5841	145.70	6071
UP		Anpara TPS (3*210+2*500)	1630	1366	1376	32.92
	Obra TPS (2*50+2*94+5*200)	1194	433	440	11.44	477
	Paricha TPS (2*110+2*220+2*250)	1140	951	938	20.80	867
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*80+1*105+2*250)	665	447	442	10.30	429
	Tanda TPS (NTPC) (4*110)	440	270	370	7.67	320
	Roza TPS (IPP) (4*300)	1200	550	387	7.84	327
	Anpara-C (IPP) (2*600)	1200	1080	1079	25.83	1076
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(1*500)	500	0	0	0.00	0
	Lalitpur TPS(1*660)	660	0	133	1.94	81
	Bara(1*660)	660	329	104	5.41	226
	Thermal (Total)	9949	5426	5269	124	5173
	Vishnuparyag HPS (IPP)(4*110)	440	83	82	1.98	82
	Alakanada(4*82.5)	330	50	49	1.16	48
	Other Hydro	527	53	148	1.65	69
	Cogeneration	981	800	800	19.20	800
	Total UP	12227	6412	6348	148	6173
Uttarakhand	Total Hydro	1398	599	316	9.99	416
	Total Uttarakhand	1398	599	316	9.99	416
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	35	34	0.92	38
	Prahati Gas Turbine (2x104+ 1x122)	330	142	141	3.37	141
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	248	250	6.04	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	166	167	3.59	149
	Thermal (Total)	2917	591	592	13.90	579
Total Delhi	2917	591	592	13.90	579	
HP	Baspa HPS (IPP) (3*100)	300	31	0	1.14	48
	Malana HPS (IPP) (2*43)	86	45	0	0.24	10
	Other Hydro	878	117	70	2.67	111
	Total HP	1264	193	70	4.05	169
J & K	Badlihar HPS (IPP) (3*150)	450	230	142	4.13	172
	Other Hydro/IPP	560	111	80	2.13	89
	Gas/Diesel/Other	190	0	0	0.00	0
	Total J & K	1200	341	222	6.26	261
Total State Control Area Generation		43841	19418	17655	442.82	18451
J. Net Inter Regional Exchange [import(+ve)/Export(-ve)]			7063	6319	163.40	6808
Total Regional Availability(Gross)		69078	43135	32700	879.27	36636

IV. Total Hydro Generation:

Regional Entities Hydro	12234	7747	1002	73.76	3074
State Control Area Hydro	6581	2010	1430	42	1762
Total Regional Hydro	18815	9757	2432	116.05	4835

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	
Vindhychal(HVDC B/B)	50	500	500	0	6.53	0.00	6.53
765 KV Gwalior-Agra (D/C)	3137	2583	3366	0	69.35	0.00	69.35
400 KV Zarda-Kankrol	-70	-170	0	237	0.00	3.32	-3.32
400 KV Zarda-Bhimmal	0	-114	89	215	0.00	1.65	-1.65
220 KV Auraiya-Malanpur	-50	-60	0	95	0.00	1.45	-1.45
220 KV Badod-Kota/Morak	-11	-46	0	48	0.00	0.45	-0.45
Mundra-Mohindergarh(HVDC Bipole)	2498	2203	2506	0	58.15	0.00	58.15
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	984	852	616	0	24.35	0.00	24.35
Sub Total WR	6538	5748			158.38	6.86	151.51
Pusauli Bypass/HVDC	400	-365	400	576	3.06	3.80	-0.74
400 KV MZP- GKP (D/C)	244	211	235	270	0.00	1.14	-1.14
400 KV Patna-Balia(D/C) X 2	127	290	415	0	11.67	0.00	11.67
400 KV B'Sharif-Balia (D/C)	-133	94	94	142	0.00	0.87	-0.87
765 KV Gaya-Balia	132	265	270	0	1.10	0.00	1.10
765 KV Gaya-Fatehpur	41	107	303	0	3.83	0.00	3.83
220 KV Pusauli-Sahupuri	156	170	213	0	3.74	0.00	3.74
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.48	-0.48
132 KV Son Ngr-Rihand	-26	-27	0	30	0.00	0.55	-0.55
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-208	-22	237	208	0.36	0.00	0.36
400 KV Barh -GKP (D/C)	292	348	404	0	7.07	0.00	7.07
Sub Total ER	1025	1071			30.83	6.84	23.98
+/- 800 KV BiswanathChariali-Agra	-500	-500	0	-500	0.00	12.10	-12.10
Sub Total NER	-500	-500			0.00	12.10	-12.10
Total IR Exch	7063	6319			189.20	25.81	163.40

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
29.94	0.39	30.33	0.07	-12.39	6.09	34.49	6.03	-6.03
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
42.52	118.27	160.79	11.88	151.51	163.40	-30.64	33.25	2.60

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	-32	-33	0	34	0	1	-0.76

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	2.08	14.83	59.82	68.66	10.86	5.25	0.45	NA

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)			
50.27	6.02	49.72	8.55	49.98	0.067	0.079	50.23	49.87	31.34

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of Time)
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	399	02:01	392	16:26	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	03:15	396	17:59	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	05:02	401	10:49	0.0	0.0	0.0	0.0	0.0
Kanpur	400	411	02:59	399	10:52	0.0	0.0	0.0	0.0	0.0
Dadri	400	425	03:01	399	11:07	0.0	0.0	18.9	0.0	18.9
Ballabgarh	400	431	03:00	402	11:02	0.0	0.0	34.9	0.3	34.9
Bawana	400	427	02:59	402	11:07	0.0	0.0	29.7	0.0	29.7
Bassi	400	426	05:00	390	11:02	0.0	0.0	9.4	0.0	9.4
Hissar	400	420	20:53	394	11:07	0.0	0.0	0.0	0.0	0.0
Moga	400	420	20:50	398	11:06	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	426	13:02	404	11:06	0.0	0.0	24.5	0.0	24.5
Nalagarh	400	436	20:53	396	11:31	0.0	0.0	46.2	8.1	46.2
Kishenpur	400	420	02:38	394	11:47	0.0	0.0	0.0	0.0	0.0
Wagoora	400	398	13:02	364	10:35	44.1	99.2	0.0	0.0	44.1
Amritsar	400	428	20:48	404	11:32	0.0	0.0	36.2	0.0	36.2
Kashipur	400	421	03:00	412	10:47	0.0	0.0	1.5	0.0	1.5
Hamirpur	400	422	00:00	394	10:52	0.0	0.0	39.5	0.0	39.5
Rishikesh	400	419	05:02	392	10:53	0.0	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of Time)
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	770	03:01	738	10:51	0.0	6.7	0.0	0.0	0.0
Balia	765	783	03:02	756	10:53	0.0	0.0	0.0	0.0	0.0
Moga	765	801	20:53	760	11:06	0.0	0.0	0.5	0.0	0.5
Agra	765	792	05:02	745	10:52	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	20:53	758	11:06	0.0	0.0	0.0	0.0	0.0
Unnao	765	770	03:02	735	11:31	0.0	8.3	0.0	0.0	0.0
Lucknow	765	790	05:03	752	17:53	0.0	0.0	0.0	0.0	0.0
Meerut	765	808	03:00	764	10:51	0.0	0.0	14.6	0.0	14.6
Jhatikara	765	807	02:16	760	11:06	0.0	0.0	21.8	0.0	21.8
Bareilly 765 kV	765	789	04:02	755	10:52	0.0	0.0	0.0	0.0	0.0
Anta	765	784	05:00	758	10:44	0.0	0.0	0.0	0.0	0.0
Phagi	765	791	04:59	744	10:47	0.0	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	502.26	1192.70	499.03	1053.16	159.99	478.84
Pong	426.72	384.05	412.19	566.84	406.54	388.64	82.52	429.65
Tehri	829.79	740.04	805.30	710.47	812.30	848.27	36.32	203.00
Koteswar	612.50	598.50	610.80	4.95	610.35	4.95	203.00	192.88
Chamera-I	760.00	748.75	758.41	0.00	0.00	0.00	50.96	50.08
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	296.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	500.10	3.88	507.36	2.54	59.56	171.86

* 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	-764	356	0	-1059	294	0	-19.01	7.10	-11.91
Delhi	-1004	-120	0	-580	612	0	-15.92	8.50	-7.41
Haryana	-346	296	0	-362	281	0	-8.73	6.73	-2.00
HP	168	173	0	425	3	0	9.88	-0.63	9.25
J&K	651	-10	0	576	172	0	14.44	0.26	14.71
CHD	-31	0	0	0	0	0	-0.24	0.03	-0.22
Rajasthan	-7	718	3	-7	686	3	6.94	15.86	22.81
UP	119	0	0	-310	0	0	-4.46	0.00	-4.46
Uttarakhand	193	175	0	224	244	0	4.78	5.81	10.59
Total	-1021	1589	3	-1094	2292	3	-12.32	43.67	31.35

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-652	-1059	356	200	0	0
Delhi	-367	-1004	921	-133	0	0
Haryana	-346	-372	306	49	0	0
HP	588	137	173	-589	0	0
J&K	703	475	211	-112	0	0
CHD	0	-31	25	-41	0	0
Rajasthan	726	-7	724	403	3	3
UP	150	-447	0	0	0	0
Uttarakhand	224	193	417	123	0	0

XI. System Reliability Indices:

- (i)%age of times N-1 Criteria was violated in the inter - regional corridors
0.00 %
- (ii)%age of times ATC violated on the inter-regional corridors
0.00 %

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 24.12.2015 :
Normal.

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus /substation :

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :