

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	210	3.75	156	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	180	115	2.31	96	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	200	120	4.16	173	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	348	356	11.56	481	
	Talwandi Saboo (2*660)	1320	656	676	17.29	721	
	Thermal (Total)	5360	1544	1477	39.07	1628	
	Total Hydro	1000	288	243	7.45	310	
	Total Punjab	6360	1832	1720	46.52	1938	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	550	469	11.91	496	
Faridabad GPS (NTPC)		432	147	156	3.81	159	
RGTPP (khedar) (IPP) (2*600)		1200	1126	783	20.33	847	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	830	384	13.07	545	
Thermal (Total)		4944	2653	1792	49.13	2047	
Total Hydro		62	11	16	0.36	15	
Total Haryana		5006	2664	1808	49.49	2062	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1017	961	24.53	1022
	suratgarh TPS (6*250)	1500	401	380	9.62	401	
	Chabra TPS (4*250)	1000	531	581	14.15	590	
	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	204	205	5.02	209	
	RAPS A (NPC) (1*100+1*200)	300	159	162	3.99	166	
	Barsingar (NLC) (2*125)	250	185	180	4.22	176	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	828	966	21.91	913	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	489	459	11.43	476	
	Kawai(Adani) (2*660)	1320	1128	872	24.82	1034	
	Thermal (Total)	8876	4942	4766	120	4987	
	Total Hydro	550	204	182	4.73	197	
	Wind power	3214	444	250	7.27	303	
	Biomass	99	12	12	0.29	12	
	Solar	730	0	0	1.80	75	
	Renewable/Others (Total)	4043	456	262	9.36	390	
	Total Rajasthan	13469	5602	5210	133.78	5574	
	UP	Anpara TPS (3*210+2*500)	1630	1196	1373	31.40	1308
Obra TPS (2*50+2*94+5*200)		1194	434	427	10.10	421	
Paricha TPS (2*110+2*220+2*250)		1140	615	627	13.50	563	
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaganj TPS (1*60+1*105+2*250)		665	437	433	10.80	450	
Tanda TPS (NTPC) (4*110)		440	135	140	3.52	147	
Roza TPS (IPP) (4*300)		1200	275	194	5.00	208	
Anpara-C (IPP) (2*600)		1200	1085	1080	23.60	983	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	57	57	1.40	58	
Anpara-D(1*500)		500	0	0	0.00	0	
Lalitpur TPS(1*660)		660	0	0	0.00	0	
Bara(1*660)		660	0	0	0.00	0	
Thermal (Total)		9949	4234	4331	99	4138	
Vishnuparyag HPS (IPP)(4*110)		440	103	103	2.40	100	
Alaknanda(4*82.5)		330	63	68	1.50	63	
Other Hydro		527	60	25	1.00	42	
Cogeneration		981	300	300	7.20	300	
Total UP		12227	4760	4827	111	4643	
Uttarakhand		Total Hydro	1398	463	156	6.68	278
		Total Uttarakhand	1398	463	156	6.68	278
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	38	39	0.79	33	
	Pragati Gas Turbine (2x104+ 1x122)	330	150	152	3.69	154	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	272	251	6.23	260	
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.93	164	
	Thermal (Total)	2917	625	607	14.64	610	
Total Delhi	2917	625	607	14.64	610		
HP	Baspa HPS (IPP) (3*100)	300	0	28	1.43	59	
	Malana HPS (IPP) (2*43)	86	0	0	0.29	12	
	Other Hydro	878	223	54	3.33	139	
	Total HP	1264	223	82	5.05	210	
J & K	Baglihar HPS (IPP) (3*150)	450	150	150	4.05	169	
	Other Hydro/IPP	560	98	50	1.65	69	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	248	200	5.70	237	
Total State Control Area Generation		43841	16417	14610	373.26	15553	
J. Net Inter Regional Exchange [(Import +ve)/Export (-ve)]			5556	5506	160.20	6675	
Total Regional Availability(Gross)		69078	39837	28959	810.46	33769	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9114	1108	78.14	3256
State Control Area Hydro	6581	1663	1075	35	1453
Total Regional Hydro	18815	10777	2183	113.00	4708

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)	150	-400	250	400	3.02	2.61		0.41	
765 KV Gwalior-Agra (D/C)	2597	-2507	3396	0	66.92	0.00		66.92	
400 KV Zarda-Kankroli	-93	-141	71	261	0.00	1.75		-1.75	
400 KV Zarda-Bhinmal	-33	-58	144	234	0.02	0.00		0.02	
220 KV Auraiya-Malanpur	-59	-74	0	86	0.00	1.12		-1.12	
220 KV Badod-Kota/Morak	-47	-42	0	140	0.00	1.92		-1.92	
Mundra-Mohinderorah(HVDC Bipole)	1248	1602	1604	0	34.09	0.00		34.09	
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00		0.00	
765 kV Phagi-Gwalior (D/C)	1145	1053	1506	0	29.49	0.00		29.49	
Sub Total WR	4908	4447			133.54	7.40		126.13	
Pusaull Bypass/HVDC	300	100	300	0	5.20	0.00		5.20	
400 KV MZP -GKP (D/C)	34	-376	538	42	6.57	0.00		6.57	
400 KV Patna-Balia(D/C) X 2	288	304	553	0	9.36	0.00		9.36	
400 KV B'Sharif-Balia (D/C)	1	163	247	88	2.39	0.00		2.39	
765 KV Gaya-Balia	115	179	179	0	1.66	0.00		1.66	
765 KV Gaya-Fatehpur	157	162	417	0	4.59	0.00		4.59	
220 KV Pusaull-Sahupuri	121	154	166	0	2.74	0.00		2.74	
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.48		-0.48	
132 KV Son Ngr-Rihand	-20	-29	0	35	0.00	0.69		-0.69	
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00		0.00	
765 KV Sasaram - Fatehpur	-146	50	354	146	1.59	0.00		1.59	
400 KV Barh -GKP (D/C)	298	352	430	0	8.44	0.00		8.44	
Sub Total ER	1148	1059			42.54	1.17		41.37	
+/- 800 KV BiswanathCharialli-Agra	-500	0	0	500	0.00	7.30		-7.30	
Sub Total NER	-500	0			0.00	7.30		-7.30	
Total IR Exch	5556	5506			176.08	15.88		160.20	

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
27.38	0.76	28.14	3.65	-13.56	7.61	27.11	5.88	-5.88	
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	
45.30	103.54	148.84	34.07	126.13	160.20	-11.23	22.59	11.36	

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	-30	0	32	0	1		-0.74	

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	0.15	11.89	54.31	68.63	15.30	4.25	0.00	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					
50.18	13.04	49.76	17.23	49.99	0.048	0.068	50.18	49.76

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	404	02:01	398	05:48	0.0	0.0	0.0	0.0
Gorakhpur	400	419	04:03	403	12:18	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	04:02	393	11:24	0.0	0.0	0.0	0.0
Kanpur	400	411	04:03	400	09:38	0.0	0.0	0.2	0.0
Dadri	400	424	03:41	401	09:41	0.0	0.0	21.3	0.0
Ballabgarh	400	430	03:59	406	09:37	0.0	0.0	42.8	0.0
Bawana	400	428	20:42	405	09:40	0.0	0.0	39.2	0.0
Bassi	400	426	20:41	391	09:41	0.0	0.0	10.8	0.0
Hissar	400	424	20:44	399	09:38	0.0	0.0	3.6	0.0
Moga	400	423	20:45	402	09:40	0.0	0.0	2.2	0.0
Abdullapur	400	419	23:53	386	09:40	0.0	7.8	0.0	0.0
Nalagarh	400	434	21:28	406	09:39	0.0	0.0	50.5	8.5
Kishenpur	400	427	21:01	399	18:19	0.0	0.0	12.1	0.0
Wagoora	400	409	21:01	371	18:23	5.7	37.8	0.0	0.0
Amritsar	400	429	20:45	408	09:37	0.0	0.0	52.8	0.0
Kashipur	400	420	20:42	407	11:23	0.0	0.0	0.0	0.0
Hamirpur	400	421	00:00	400	09:38	0.0	0.0	39.3	0.0
Rishikesh	400	412	20:41	376	12:19	2.7	30.7	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	776	19:56	737	06:45	0.0	6.3	0.0	0.0
Balia	765	770	04:04	744	11:23	0.0	0.0	0.0	0.0
Moga	765	809	20:44	762	07:33	0.0	0.0	4.9	0.0
Agra	765	798	20:44	746	09:40	0.0	0.0	0.0	0.0
Bhiwani	765	812	20:45	756	09:38	0.0	0.0	11.1	0.0
Unnao	765	769	04:03	735	10:10	0.0	15.2	0.0	0.0
Lucknow	765	780	04:05	742	11:23	0.0	0.0	0.0	0.0
Meerut	765	820	20:45	764	09:48	0.0	0.0	8.0	0.0
Jhatikara	765	809	03:09	762	11:16	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	803	03:56	756	12:11	0.0	0.0	0.0	0.0
Anta	765	781	19:41	756	09:39	0.0	0.0	0.0	0.0
Phagi	765	798	20:44	747	06:50	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	506.45	1382.01	503.10	1232.31	183.32	403.74
Pong	426.72	384.05	415.47	693.24	410.24	504.32	64.96	384.85
Tehri	829.79	740.04	811.90	840.00	818.15	965.00	71.59	150.00
Koteshwar	612.50	598.50	610.92	4.95	610.11	4.60	150.00	147.17
Chamera-I	760.00	748.75	759.55	0.00	0.00	0.00	54.96	48.81
Rihand	268.22	252.98	849.80	252.30	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	506.62	1.39	509.32	1.10	37.66	23.69

* 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	-672	301	0	-599	279	0	-12.67	6.92	-5.76
Delhi	-936	-5	0	-547	466	0	-15.65	7.84	-7.82
Haryana	-282	226	0	-478	240	0	-8.00	5.16	-2.85
HP	152	67	0	245	-216	0	6.02	-1.95	4.06
J&K	438	-10	0	421	89	0	10.12	-0.38	9.75
CHD	-30	0	0	0	-30	0	-0.24	-0.17	-0.41
Rajasthan	-6	614	2	-6	-72	2	9.22	13.92	23.13
UP	103	0	0	-271	0	0	-3.80	0.00	-3.80
Uttarakhand	194	202	0	194	188	0	4.67	6.42	11.09
Total	-1041	1395	2	-1039	945	2	-10.36	37.75	27.39

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-195	-672	305	220	0	0
Delhi	-543	-936	762	-165	0	0
Haryana	-268	-515	270	-63	0	0
HP	318	152	67	-691	0	0
J&K	438	401	89	-196	0	0
CHD	0	-30	20	-55	0	0
Rajasthan	714	-6	1063	-338	2	2
UP	155	-334	0	0	0	0
Uttarakhand	194	194	449	99	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 30.11.2015 :

Normal.

XIV. Synchronisation of new generating units :

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

400 KV Jalandhar- Nakodar-S/c successfully synchronised at 20:01 Hrs on 30.11.2015.

XVI. Tripping of lines in pooling stations :

XVII. Complete generation loss in a generating station :