

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	160	160	3.91	163
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.06	-2
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.14	-6
	Goindwal(GVK) (2*270)	540	278	0	3.24	135
	Rajpura (2*700)	1400	1016	860	21.30	888
	Talwandi Saboo (3*660)	1980	308	616	12.33	514
	Thermal (Total)	6560	1762	1636	40.59	1691
	Total Hydro	1000	257	256	6.66	277
	Total Punjab	7560	2019	1892	47.24	1968
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	210	0	3.18
DCRTPP (Yamuna nagar) (2*300)		600	549	437	11.63	485
Faridabad GPS (NTPC)(2*137.75+1*156)		432	390	0	4.85	202
RGTPP (khedar) (IPP) (2*600)		1200	537	378	9.69	404
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0
Thermal (Total)		4944	1686	815	29.35	1223
Total Hydro		62	8	12	0.25	10
Total Haryana		5006	1694	827	29.60	1233
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	730	699	17.40
	suratgarh TPS (6*250)	1500	199	196	4.95	206
	Chabra TPS (4*250)	1000	868	621	19.89	829
	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	167	204	4.65	194
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	159	160	3.45	144
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwast LTPS (IPP) (8*135)	1080	740	436	16.55	690
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	999	812	23.93	997
	Kawai(Adani) (2*660)	1320	1198	953	27.05	1127
	Thermal (Total)	8876	5060	4081	118	4911
	Total Hydro	550	20	22	0.26	11
	Wind power	3214	130	535	7.21	301
	Biomass	99	11	11	0.26	11
	Solar	730	0	0	3.08	128
	Renewable/Others (Total)	4043	141	546	10.55	439
	Total Rajasthan	13469	5221	4649	128.67	5361
	UP	Anpara TPS (3*210+2*500)	1630	1231	1228	29.45
Obra TPS (2*50+2*94+5*200)		1194	334	320	7.76	323
Paricha TPS (2*110+2*220+2*250)		1160	1004	985	23.97	999
Panki TPS (2*105)		210	77	77	1.69	70
Hariduaran TPS (1*60+1*105+2*250)		665	528	531	12.76	532
Tanda TPS (NTPC) (4*110)		440	380	290	7.79	325
Roza TPS (IPP) (4*300)		1200	1103	1080	25.35	1056
Anpara-C (IPP) (2*600)		1200	1085	1049	25.83	1076
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	404	8.41	350
Anpara-D(2*500)		1000	0	0	0.00	0
Lalitpur TPS(3*660)		1980	479	507	10.01	417
Bara(2*660)		1320	0	0	0.27	11
Thermal (Total)		12449	6626	6471	153	6387
Vishnuparyag HPS (IPP)(4*110)		440	72	70	1.75	73
Alakananda(4*82.5)		330	15	76	1.06	44
Other Hydro		527	104	30	1.26	52
Cogeneration		981	400	400	9.60	400
Total UP	14727	7217	7047	167	6956	
Uttarakhand	Total Hydro	1398	413	287	7.73	322
	Total Uttarakhand	1398	413	287	7.73	322
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	27	36	0.87	36
	Pragati Gas Turbine (2x104+ 1x122)	330	317	157	6.13	256
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	-2	-2	-0.03	-1
	Badarpur TPS (NTPC) (3*95+2*210)	705	189	333	6.26	261
	Thermal (Total)	2917	531	524	13.21	550
	Total Delhi	2917	531	524	13.21	550
HP	Baspa HPS (IPP) (3*100)	300	64	0	1.32	55
	Malana HPS (IPP) (2*43)	86	0	0	0.32	13
	Other Hydro	878	304	228	6.14	256
	Total HP	1264	368	228	7.78	324
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	440	380	9.96	415
	Other Hydro/IPP	560	118	82	2.25	94
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1500	558	462	12.21	509
Total State Control Area Generation		47841	18021	15916	413.39	17225
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6519.23	8011.29	162.51	6771
Total Regional Availability(Gross)		73078	41153	34190	850.30	35429

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8076	1841	86.68	3612
State Control Area Hydro	6881	1815	1443	39	1623
Total Regional Hydro	19115	9891	3284	125.64	5235

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(HVDC B/B)	250	250	250	0	0	0	6.03	0.00	6.03
765 KV Gwalior-Agra (D/C)	2335	3160	3204	0	0	0	61.70	0.00	61.70
400 KV Zerda-Kankroli	-106	-74	0	264	0	0	0.00	3.87	-3.87
400 KV Zerda-Bhinmal	-46	-34	4	196	0	0	0.00	2.34	-2.34
220 KV Auraiya-Malanpur	-33	-25	0	34	0	0	0.00	0.19	-0.19
220 KV Badod-Kota/Morak	9	38	54	52	0	0	0.10	0.00	0.10
Mundra-Mohinderghar(HVDC Bipole)	2197	1700	2207	0	0	0	50.95	0.00	50.95
400 KV Vindhychal - Rihand	0	0	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	711	1149	1208	0	0	0	18.44	0.00	18.44
Sub Total WR	5317	6164					137.22	6.40	130.82

Pusauli Bypass/HVDC	200	200	200	0	4.81	0.00	4.81
400 KV MZP- GKP (D/C)	88	220	282	80	3.25	0.00	3.25
400 KV Patna-Balia(D/C) X 2	14	156	186	90	1.89	0.00	1.89
400 KV B'Sharif-Balia (D/C)	95	206	230	0	3.69	0.00	3.69
765 KV Gaya-Balia	265	365	391	0	3.84	0.00	3.84
765 KV Gaya-Varanasi -1	88	168	151	0	2.00	0.00	2.00
220 KV Pusauli-Sahupuri	197	199	205	0	4.19	0.00	4.19
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-30	-24	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	-151	-195	21	233	0.00	3.50	-3.50
400 KV Barh -GKP (D/C)	113	150	154	0	3.00	0.00	3.00
400 kvB'Sharif - Varanasi (D/C)	-177	-98	0	230	0.00	3.50	-3.50
Sub Total ER	702	1347			27.61	7.55	20.06
+/- 800 KV BiswanathCharialli-Agra	500	500	500	0	11.63	0.00	11.63
Sub Total NER	500	500			11.63	0.00	11.63
Total IR Exch	6519	8011			176.46	13.95	162.51

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
35.11	0.36	35.47	6.85	2.70	-0.11	17.99	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
42.21	130.51	172.72	31.69	130.82	162.51	-10.52	0.31	-10.21

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	-20	-21	0	32	0	1	-0.71

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	0.16	2.06	18.29	71.51	73.08	7.26	1.50	0.20	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.23	13.01	49.68	20.34	49.96	0.067	50.14	0.00	26.92	

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of)
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	404	07:18	398	00:30	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	17:03	403	02:08	0.0	0.0	5.4	0.0	5.4
Bareilly(PG)400kV	400	417	17:32	402	10:54	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	08:04	404	19:11	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	08:03	405	19:13	0.0	0.0	0.1	0.0	0.1
Ballabgarh	400	427	08:01	409	14:36	0.0	0.0	35.5	0.0	35.5
Bawana	400	425	08:04	408	19:10	0.0	0.0	30.3	0.0	30.3
Bassi	400	420	04:01	402	19:36	0.0	0.0	0.0	0.0	0.0
Hissar	400	420	01:59	404	19:12	0.0	0.0	0.0	0.0	0.0
Moga	400	420	01:59	407	19:12	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	02:00	406	19:12	0.0	0.0	32.1	0.0	32.1
Nalagarh	400	434	02:00	413	19:10	0.0	0.0	68.9	4.5	68.9
Kishenpur	400	422	03:59	400	19:22	0.0	0.0	3.1	0.0	3.1
Wagoor	400	410	13:01	376	19:24	10.5	29.6	0.0	0.0	10.5
Amritsar	400	430	02:00	411	14:42	0.0	0.0	38.4	0.0	38.4
Kashipur	400	420	21:45	413	00:40	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	21:55	408	12:11	0.0	0.0	2.3	0.0	2.3
Rishikesh	400	415	21:56	387	09:50	0.0	5.6	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)
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	781	08:05	744	19:13	0.0	0.0	0.0	0.0	0.0
Balia	765	780	17:03	753	02:07	0.0	0.0	0.0	0.0	0.0
Moga	765	801	18:00	778	19:12	0.0	0.0	0.0	0.0	0.0
Agra	765	790	07:01	760	14:47	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	798	21:50	778	11:40	0.0	0.0	0.0	0.0	0.0
Unnao	765	763	17:38	744	19:12	0.0	0.0	0.0	0.0	0.0
Lucknow	765	784	13:01	762	01:11	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	17:48	776	12:12	0.0	0.0	11.9	0.0	11.9
Jhatikara	765	800	07:44	769	14:37	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Anta	765	772	02:00	760	00:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	781	03:59	760	14:31	0.0	0.0	0.0	0.0	0.0

Note : '0' in Max / Min Col -> Telemetry Outage

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	479.36	447.73	481.53	495.33	210.25	318.96
Pong	426.72	384.05	395.85	141.12	403.81	312.39	50.66	21.75
Tehri	829.79	740.04	748.75	43.21	769.45	204.00	40.89	150.00
Koteshwar	612.50	598.50	611.64	4.95	610.89	4.95	150.00	148.58
Chamera-I	760.00	748.75	754.70	0.00	0.00	0.00	127.31	131.71
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	496.11	3.43	515.25	2.20	150.01	185.97

* 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	18	-708	0	-390	168	0	-1.20	-0.54	-1.73
Delhi	-252	-142	0	-177	-53	0	-4.70	-0.23	-4.94
Haryana	497	-324	0	418	278	0	9.99	-1.93	8.06
HP	-176	220	0	-75	-269	0	-2.61	2.58	-0.03
J&K	-48	15	0	-71	100	0	-0.84	0.79	-0.04
CHD	0	0	0	0	-15	0	0.00	0.24	0.24
Rajasthan	-8	408	0	-4	414	0	-0.17	8.45	8.28
UP	391	1461	0	242	0	0	5.90	10.14	16.04
Uttarakhand	382	104	0	382	74	0	9.36	2.45	11.80
Total	803	1033	0	325	699	0	15.74	21.95	37.68

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	18	-390	326	-758	0	0
Delhi	-177	-303	221	-243	0	0
Haryana	519	348	287	-679	0	0
HP	-75	-176	391	-532	0	0
J&K	2	-71	100	-10	0	0
CHD	0	0	40	-40	0	0
Rajasthan	-4	-8	427	-201	0	0
UP	528	144	1461	0	0	0
Uttarakhand	411	337	157	27	0	0

XI. System Reliability Indices(Violation of TTC and ATC):

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

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 11.04.2016 :
Normal

XV. Synchronisation of new generating units :

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

0.00
0.00
0.00
0.00

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.