

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	592	350	9.39	391
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	100	2.35	98
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	677	538	13.52	563
	Goindwal(GVK) (2*270)	540	0	0	-0.04	-2
	Rajpura (2*700)	1400	1320	1320	31.31	1305
	Talwandi Saboo (3*660)	1980	0	308	5.98	249
	Thermal (Total)	6560	2709	2616	62.52	2605
	Total Hydro	1000	435	405	10.07	420
	Total Punjab	7560	3144	3021	72.59	3025
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	422	0	3.36
DCRTPP (Yamuna nagar) (2*300)		600	0	0	0.00	0
Faridabad GPS (NTPC)(2*137.75+1*156)		432	171	176	4.19	174
RGTPP (khedar) (IPP) (2*600)		1200	381	568	10.78	449
Maqum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	784	737	19.77	824
Thermal (Total)		4944	1758	1481	38.09	1587
Total Hydro		62	23	27	0.52	22
Total Haryana		5006	1781	1508	38.61	1609
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	608	759	17.98
	suratgarh TPS (6*250)	1500	768	580	16.35	681
	Chabra TPS (4*250)	1000	651	837	18.89	787
	Dholpur GPS (3*110)	330	101	100	2.59	108
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	133	141	3.73	155
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingar (NLC) (2*125)	250	80	83	1.85	77
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	395	683	13.62	567
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	811	888	23.18	966
	Kawai(Adani) (2*660)	1320	867	1173	26.45	1102
	Thermal (Total)	8876	4414	5244	125	5193
	Total Hydro	550	0	0	0.00	0
	Wind power	3214	350	600	12.55	523
	Biomass	99	21	21	0.49	21
	Solar	730	0	0	0.11	5
Renewable/Others (Total)	4043	371	621	13.15	548	
Total Rajasthan	13469	4785	5865	137.78	5741	
UP	Anpara TPS (3*210+2*500)	1630	1403	1407	33.60	1400
	Obra TPS (2*50+2*94+5*200)	1194	455	489	11.20	467
	Paricha TPS (2*110+2*220+2*250)	1160	917	885	22.00	917
	Panki TPS (2*105)	210	131	63	2.20	92
	Harduaganj TPS (1*60+1*105+2*250)	665	543	546	13.00	542
	Tanda TPS (NTPC) (4*110)	440	389	383	9.33	389
	Roza TPS (IPP) (4*300)	1200	1090	1098	24.60	1025
	Anpara-C (IPP) (2*600)	1200	1080	1089	25.80	1075
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	356	500	10.10	421
	Anpara-D(2*500)	1000	362	0	5.00	208
	Lalitpur TPS(3*660)	1980	356	500	10.10	421
	Bara(2*660)	1320	0	0	0.00	0
	Thermal (Total)	12449	7082	6960	167	6955
	Vishnuparyag HPS (IPP)(4*110)	440	435	340	8.20	342
	Alaknanada(4*82.5)	330	166	84	2.50	104
	Other Hydro	527	40	20	0.70	29
	Cogeneration	981	100	100	2.40	100
Total UP	14727	7823	7504	181	7530	
Uttarakhand	Total Hydro	1398	707	582	15.88	662
	Total Uttarakhand	1398	707	582	15.88	662
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.03	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	72	73	1.78	74
	Praagati Gas Turbine (2x104+ 1x122)	330	264	265	6.38	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	254	253	6.09	254
	Badarpur TPS (NTPC) (3*95+2*210)	705	161	159	2.53	105
	Thermal (Total)	2917	751	750	16.75	698
	Total Delhi	2917	751	750	16.75	698
HP	Baspa HPS (IPP) (3*100)	300	279	199	5.78	241
	Malana HPS (IPP) (2*43)	86	56	69	0.94	39
	Other Hydro	878	399	385	8.99	375
	Total HP	1264	734	653	15.71	655
J & K	Baqilhar HPS (IPP) (3*150+2*150)	750	735	735	17.64	735
	Other Hydro/IPP	560	159	142	3.66	153
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1500	894	877	21.30	888
Total State Control Area Generation		47841	20619	20760	499.34	20806
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5698.22	6039	145.00	6042
Total Regional Availability(Gross)		73078	45204	42041	1042.74	43447

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9696	6120	186.24	7760
State Control Area Hydro	6881	3434	2988	75	3120
Total Regional Hydro	19115	13130	9108	261.12	10880

(VA). 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	
Vindhyachal(HVDC B/B)	250	250	250	50	0.13	5.42	-5.29		
765 KV Gwalior-Agra (D/C)	2501	2660	2807	0	56.13	0.00	56.13		
400 KV Zerda-Kankroli	-76	-171	0	279	0.00	4.58	-4.58		
400 KV Zerda-Bhinmal	0	-112	8	247	0.00	2.66	-2.66		
220 KV Auraiya-Malanpur	4	-41	0	65	0.00	0.75	-0.75		
220 KV Badod-Kota/Morak	-6	35	51	53	0.27	0.00	0.27		
Mundra-Mohindergarh(HVDC Bipole)	2203	2501	2507	0	56.50	0.00	56.50		
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 kV Phagi-Gwalior (D/C)	597	751	782	0	14.61	0.00	14.61		
Sub Total WR	5473	5873			127.64	13.42	114.22		

Pusauli Bypass/HVDC	0	0	0	0	0.00	0.00	0.00
400 KV MZP- GKP (D/C)	-104	-42	166	40	1.33	0.00	1.33
400 KV Patna-Balia(D/C) X 2	445	460	595	0	10.12	0.00	10.12
400 KV B Sharif-Balia (D/C)	16	57	110	21	1.18	0.00	1.18
765 KV Gaya-Balia	158	251	288	0	2.30	0.00	2.30
765 KV Gaya-Varanasi (D/C)	-109	-70	117	112	0.74	0.00	0.74
220 KV Pusauli-Sahupuri	175	198	207	0	4.23	0.00	4.23
132 KV K'nasa-Sahupuri	0	0	1	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-22	-9	0	28	0.00	0.51	-0.51
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-121	-70	7	128	0.00	1.66	-1.66
400 KV Barh -GKP (D/C)	-576	-488	576	0	10.78	0.00	10.78
400 kvB Sharif - Varanasi (D/C)	-122	-121	0	180	0.00	2.65	-2.65
Sub Total ER	-260	166			30.69	4.82	25.87
+/- 800 KV BiswanathCharialli-Agra	485	0	486	0	4.91	0.00	4.91
Sub Total NER	485	0			4.91	0.00	4.91
Total IR Exch	5698	6039			163.24	18.24	145.00

VB. Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdlt (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
31.91	0.20	32.11	2.55	8.24	-1.68	-0.14	0.00	0.00

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
32.98	126.67	159.65	30.78	114.22	145.00	-2.20	-12.45	-14.65

VC. 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	-29	-31	0	33	0	1	-0.70

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	0.20	7.20	51.78	77.82	13.32	1.71	0.05	0.00

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	Index		(Hz)	(Hz)	
50.17	6.01	49.78	14.52	49.99	0.034	0.057	50.14	49.94	22.18

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	407	7:38	400	13:40	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	414	8:00	393	14:52	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Kanpur	400	412	6:03	394	14:58	0.0	0.0	0.0	0.0	0.0
Dadri	400	414	5:02	396	14:51	1.6	1.6	0.0	0.0	1.6
Ballabgarh	400	419	5:01	398	14:51	0.0	0.0	0.0	0.0	0.0
Bawana	400	415	5:02	398	14:52	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	18:12	394	0:03	0.0	0.0	3.9	0.0	3.9
Hissar	400	410	5:02	395	0:05	0.0	0.0	0.0	0.0	0.0
Moga	400	409	4:22	396	10:14	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	413	4:02	401	0:06	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	418	4:21	402	10:15	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	407	4:02	394	20:21	0.0	0.0	0.0	0.0	0.0
Wagoora	400	404	3:58	380	20:26	0.0	22.3	0.0	0.0	0.0
Amritsar	400	414	4:01	399	10:19	0.0	0.0	0.0	0.0	0.0
Kashipur	400	417	5:02	406	12:14	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	409	2:53	395	10:15	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	404	4:23	375	12:45	5.4	50.7	0.0	0.0	5.4

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	768	18:04	731	14:52	0.0	19.5	0.0	0.0	0.0
Balia	765	771	17:25	731	14:52	0.0	11.2	0.0	0.0	0.0
Moga	765	784	5:02	757	14:52	0.0	0.0	0.0	0.0	0.0
Agra	765	782	18:04	743	14:52	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	787	18:41	758	23:09	0.0	0.0	0.0	0.0	0.0
Unnao	765	762	7:47	725	14:52	0.7	35.5	0.0	0.0	0.7
Lucknow	765	775	8:04	739	14:52	0.0	0.7	0.0	0.0	0.0
Meerut	765	792	5:02	755	12:14	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	787	18:04	755	14:50	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	774	18:06	738	14:52	0.0	3.0	0.0	0.0	0.0
Arta	765	782	18:07	756	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	789	19:06	735	19:03	0.0	0.1	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	475.31	356.29	486.02	619.14	764.33	543.68
Pong	426.72	384.05	393.03	39.10	405.34	352.07	227.47	169.33
Tehri	829.79	740.04	741.45	4.65	757.20	98.32	127.12	120.00
Koteshwar	612.50	598.50	606.58	3.03	610.80	4.95	120.00	112.17
Chamera-I	760.00	748.75	754.87	0.00	0.00	0.00	265.00	282.59
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	1140.00	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	501.15	3.14	523.82	7.94	199.78	142.34

* 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	-28	315	0	-433	262	0	-2.30	7.63	5.34
Delhi	402	-91	0	451	42	0	10.69	-0.16	10.53
Haryana	227	316	0	211	314	0	6.01	5.39	11.40
HP	-382	-635	0	-229	-1055	0	-6.72	-19.93	-26.65
J&K	-480	-156	0	-530	-106	0	-12.94	-3.11	-16.05
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-84	524	0	-102	522	0	-2.06	12.35	10.29
UP	999	0	0	835	0	0	21.14	0.00	21.14
Uttarakhand	106	245	0	106	256	0	2.54	6.57	9.11
Total	760	518	0	309	234	0	16.71	8.75	25.46

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-28	-433	340	261	0	0
Delhi	501	402	339	-557	0	0
Haryana	358	211	331	-116	0	0
HP	-229	-382	-551	-1139	0	0
J&K	-480	-626	-106	-156	0	0
CHD	44	0	0	0	0	0
Rajasthan	-84	-102	524	375	0	0
UP	1007	796	0	0	0	0
Uttarakhand	106	106	341	177	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 12.05.2016 :
Normal

XV. Synchronisation of new generating units :

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

1. 765/400KV 1500MVA ICT-2 at Varanasi first time put on load at 1917Hrs of 12.05.16

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.