

	Rajpura (2*700)	1400	1320	1120	30.65	1277
	Talwandi Saboo (3*660)	1980	0	0	-0.32	-13
	Thermal (Total)	6560	1320	1120	30.12	1255
	Total Hydro	1000	586	217	9.62	401
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.18	7
	Solar	560	0	0	0.08	3
	Renewable(Total)	848	0	0	0.25	11
	Total Punjab	8408	1906	1337	39.99	1666
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	203	202	4.97	207
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	157	163	4.27	178
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	4497	360	365	9.23	385
	Total Hydro	62	10	16	0.38	16
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Renewable(Total)	40	0	0	0.00	0
	Total Haryana	4599	370	381	9.61	400
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	155	155	3.71
suratgarh TPS (6*250)		1500	181	181	4.35	181
Chabra TPS (4*250)		1000	708	383	14.27	595
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	172	177	4.34	181
RAPS A (NPC) (1*100+1*200)		300	194	194	4.27	178
Barsingar (NLC) (2*125)		250	208	214	4.90	204
Giral LTPS (2*125)		250	0	0	0.00	0
Rajwest LTPS (IPP) (8*135)		1080	414	523	10.59	441
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	822	845	21.56	898
Kawai(Adani) (2*660)		1320	862	858	23.77	991
Thermal (Total)		8876	3716	3530	91.75	3823
Total Hydro		550	65	98	2.33	97
Wind power		4017	93	182	5.20	217
Biomass		99	27	27	0.64	27
Solar		1295	0	0	2.83	118
Renewable/Others (Total)		5411	120	209	8.67	361
Total Rajasthan		14837	3901	3837	102.76	4282
UP	Anpara TPS (3*210+2*500)	1630	1391	1313	34.10	1421
	Obra TPS (2*50+2*94+5*200)	1194	314	312	7.40	308
	Paricha TPS (2*110+2*220+2*250)	1160	171	0	0.10	4
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	225	216	5.30	221
	Tanda TPS (NTPC) (4*110)	440	381	392	9.15	381
	Roza TPS (IPP) (4*300)	1200	0	0	0.00	0
	Anpara-C (IPP) (2*600)	1200	536	986	16.20	675
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	851	851	19.80	825
	Lalitpur TPS(3*660)	1980	587	594	16.10	671
	Bara(2*660)	1320	573	581	13.70	571
	Thermal (Total)	12449	5029	5245	121.85	5077
	Vishnuparyag HPS (IPP)(4*110)	440	63	58	1.50	63
	Alaknada(4*82.5)	330	84	0	1.00	42
	Other Hydro	527	180	207	4.10	171
	Cogeneration	981	850	850	20.40	850
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	Renewable(Total)	128	0	0	0.00	0
	Total UP	14855	6206	6360	148.85	6202
	Uttarakhand	Other Hydro	1250	423	214	6.83
Total Gas		225	284	299	7.00	292
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.21	9
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		327	0	0	0.21	9
Total Uttarakhand		1802	707	513	14.04	585
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	37	0.84	35
	Pragati Gas Turbine (2x104+ 1x122)	330	153	156	3.77	157
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	251	6.00	250
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	439	444	10.61	442
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	Renewable(Total)	18	0	0	0.00	0
	Total Delhi	2935	439	444	10.61	442
	HP	Baspa HPS (IPP) (3*100)	300	30	0	0.70
Malana HPS (IPP) (2*43)		86	0	0	0.21	9
Other Hydro		372	217	76	4.46	186
Wind Power		0	0	0	0.00	0
Biomass		0	0	0	0.00	0
Solar		0	0	0	0.00	0
Small Hydro (< 25 MW)		486	129	62	2.34	98
Renewable(Total)		486	129	62	2.34	98
Total HP		1244	376	138	7.70	321
J & K		Baqilhar HPS (IPP) (3*150+3*150)	900	147	147	3.52
	Other Hydro/IPP(including 98 MW Small Hydro)	308	136	120	2.86	119
	Gas/Diesel/Others	190	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)Included in Other Hydro Above	98	0	0	0.00	0
	Renewable(Total)	98	0	0	0.00	0
Total J & K	1398	283	267	6	266	

Total State Control Area Generation	50078	14188	13277	339.94	14164
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		8796	7883	218.80	9117
Total Regional Availability(Gross)	75315	40442	31011	830.70	34613

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9140	1317	75.77	3157
State Control Area Hydro	7163	2354	1514	39.84	1961
Total Regional Hydro	19397	11494	2831	115.62	5118

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.05	2
State Control Area Renewable	7356	249	271	11.48	478
Total Regional Renewable	7386	249	271	11.53	481

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-50	-500	200	500	0.29	5.62	-5.33
765 KV Gwalior-Agra (D/C)	2352	2430	3020	0	63.87	0.00	63.87
400 KV Zerda-Kankroli	-188	-104	0	209	0.00	3.20	-3.20
400 KV Zerda-Bhimnal	-108	-40	57	384	0.00	1.41	-1.41
220 KV Auraiya-Malanpur	-47	-62	0	92	0.00	1.37	-1.37
220 KV Badod-Kota/Morak	50	-58	54	45	0.42	0.00	0.42
Mundra-Mohinderghar(HVDC Bipole)	2299	1997	2314	0.00	51.17	0.00	51.17
400 KV RAPP-Subalpur	380	60	380	0	5.42	0.00	5.42
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	849	1033	755	0	27.68	0.00	27.68
+/- 800 kV HVDC Champa-Kurushetra	1500	1000	1500	0	28.08	0.00	28.08
Sub Total WR	7037	5756			176.93	11.61	165.33
400 kV Sasaram - Varanasi	290	289	297	0	7.03	0.00	7.03
400 kV Sasaram - Allahabad	97	96	136	0	2.52	0.00	2.52
400 KV MZP- GKP (D/C)	171	280	501	0	7.31	0.00	7.31
400 KV Patna-Balia(D/C) X 2	601	737	950	0	17.25	0.00	17.25
400 KV B'Sharif-Balia (D/C)	80	150	254	0	3.89	0.00	3.89
765 KV Gaya-Balia	255	252	332	0	6.83	0.00	6.83
765 KV Gaya-Varanasi (D/C)	347	277	637	0	9.83	0.00	9.83
220 KV Pusauli-Sahupuri	191	175	192	0	3.97	0.00	3.97
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-30	0	0	30	0.00	0.56	-0.56
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-284	-157	14	284	0.00	2.75	-2.75
400 KV Barh -GKP (D/C)	458	448	494	0	10.58	0.00	10.58
400 kV B'Sharif - Varanasi (D/C)	83	80	148	99	0.00	0.40	-0.40
Sub Total ER	2259	2627			69.20	3.70	65.50
+/- 800 KV HVDC BiswanathChariali-Agra	-500	-500	0	500.00	0.00	12.02	-12.02
Sub Total NER	-500	-500			0.00	12.02	-12.02
Total IR Exch	8796	7883			246.13	27.33	218.80

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
50.45	0.31	50.76	-2.30	-0.53	16.90	5.10	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
65.36	137.67	203.03	53.48	165.33	218.80	-11.88	27.66	15.77

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-35	-35	0	38	0	1	-0.86

VII. 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	0.17	7.82	63.50	79.86	10.07	2.29	0.00	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)		
50.18	18.02	49.75	21.07	49.98	0.038	0.059	50.06	49.89	20.14

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	407	1:11	403	4:50	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	19:53	403	18:51	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	20:42	400	12:13	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	18:04	406	5:27	0.0	0.0	0.0	0.0	0.0
Dadri	400	424	1:10	406	12:14	0.0	0.0	19.8	0.0	19.8
Ballabgarh	400	423	1:11	407	12:11	0.0	0.0	13.5	0.0	13.5
Bawana	400	426	1:12	406	12:14	0.0	0.0	24.6	0.0	24.6
Bassi	400	425	15:03	404	5:26	0.0	0.0	13.0	0.0	13.0
Hissar	400	422	1:10	400	12:12	0.0	0.0	0.7	0.0	0.7
Moga	400	423	1:07	399	12:15	0.0	0.0	4.1	0.0	4.1
Abdullapur	400	426	17:02	404	19:10	0.0	0.0	27.3	0.0	27.3
Nalagarh	400	430	17:02	412	12:11	0.0	0.0	61.9	0.0	61.9
Kishenpur	400	418	1:10	400	12:13	0.0	0.0	0.0	0.0	0.0
Wagoora	400	398	18:01	374	22:11	29.1	97.4	0.0	0.0	29.1
Amritsar	400	427	1:10	405	12:13	0.0	0.0	31.3	0.0	31.3
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	421	3:50	405	0:00	0.0	0.0	4.9	0.0	4.9
Rishikesh	400	422	20:42	400	12:13	0.0	0.0	1.4	0.0	1.4

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	776	1:10	753	10:22	0.0	0.0	0.0	0.0	0.0
Balia	765	784	19:58	767	9:33	0.0	0.0	0.0	0.0	0.0

Moga	765	806	1:09	763	12:15	0.0	0.0	6.3	0.0	6.3
Agra	765	793	15:04	764	11:12	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	1:10	777	12:10	0.0	0.0	29.7	0.0	29.7
Unnao	765	775	20:53	754	5:28	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	19:58	767	12:14	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	1:10	766	12:15	0.0	0.0	3.3	0.0	3.3
Jhatikara	765	808	1:10	774	12:13	0.0	0.0	19.3	0.0	19.3
Bareilly 765 kV	765	798	20:42	763	12:15	0.0	0.0	0.0	0.0	0.0
Anta	765	796	15:05	777	10:24	0.0	0.0	0.0	0.0	0.0
Phagi	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

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	467.39	226.00	482.19	511.55	154.24	429.34
Pong	426.72	384.05	397.12	162.91	396.94	157.28	44.40	243.89
Tehri	829.79	740.04	769.40	202.74	760.90	128.85	39.58	201.00
Koteshwar	612.50	598.50	610.59	4.95	611.29	5.20	201.00	193.43
Chamera-I	760.00	748.75	757.35	0.00	0.00	0.00	82.24	86.64
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	504.67	2.98	497.61	0.00	82.58	132.43

* 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	-202	0	0	0	0	0	-2.12	0.00	-2.12
Delhi	-449	-185	0	-275	23	0	-7.32	-0.95	-8.26
Haryana	-205	-98	0	-136	264	0	-3.69	4.85	1.16
HP	284	93	0	10	-200	0	4.59	1.45	6.04
J&K	174	297	0	174	173	0	4.18	6.12	10.31
CHD	0	-20	0	0	-35	0	0.00	-0.58	-0.58
Rajasthan	17	470	0	25	451	0	0.50	10.42	10.92
UP	100	0	0	65	-100	0	0.59	-1.33	-0.75
Uttarakhand	73	88	0	66	98	0	1.83	3.87	5.70
Total	-208	645	0	-72	673	0	-1.43	23.85	22.42

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	0	-202	0	0	0	0
Delhi	-171	-482	265	-316	0	0
Haryana	61	-206	350	-422	0	0
HP	284	10	371	-389	0	0
J&K	174	174	371	99	0	0
CHD	0	0	0	-71	0	0
Rajasthan	33	11	871	-84	0	0
UP	125	-87	0	-100	0	0
Uttarakhand	104	51	349	39	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	3.13%
ER	0.00%
Simultaneous	0.00%

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

WR	23.26%
ER	0.00%
Simultaneous	4.17%

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

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	1	15
Haryana	0	8
Rajasthan	1	15
Delhi	3	28
UP	2	20
Uttarakhand	2	16
HP	6	42
J & K	3	33
Chandigarh	3	18

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 19.03.2017 :

XVI. Synchronisation of new generating units :

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

XVIII. Tripping of lines in pooling stations :

XIX. 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.

Report for : 19.03.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER