

	Rajpura (2*700)	1400	1320	1220	31.29	1304
	Talwandi Saboo (3*660)	1980	1178	608	23.19	966
	Thermal (Total)	6560	2498	1828	54.23	2259
	Total Hydro	1000	293	208	8.82	368
	Wind Power	0	0	0	0.00	0
	Biomass	288	10	10	0.23	10
	Solar	560	0	0	0.08	3
	Renewable(Total)	848	10	10	0.31	13
	Total Punjab	8408	2800	2046	63.36	2640
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	279	408	9.49	396
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	188	167	4.22	176
	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	467	575	13.72	572
	Total Hydro	62	26	7	0.44	18
	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	493	582	14.16	590
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	155	152	4.01	167
	suratgarh TPS (6*250)	1500	186	181	4.83	201
	Chabra TPS (4*250)	1000	896	751	20.23	843
	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	0	177	2.73	114
	RAPS A (NPC) (1*100+1*200)	300	194	194	4.23	176
	Barsingar (NLC) (2*125)	250	213	211	4.97	207
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	728	447	16.01	667
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	903	829	23.51	980
	Kawai(Adani) (2*660)	1320	946	859	25.98	1082
	Thermal (Total)	8876	4221	3801	106.50	4438
	Total Hydro	550	77	62	1.90	79
	Wind power	4017	1008	1364	21.76	907
	Biomass	99	24	24	0.57	24
	Solar	1295	0	0	2.94	122
	Renewable/Others (Total)	5411	1032	1388	25.26	1053
	Total Rajasthan	14837	5330	5251	133.66	5569
UP	Anpara TPS (3*210+2*500)	1630	1410	1410	33.61	1400
	Obra TPS (2*50+2*94+5*200)	1194	662	624	15.05	627
	Paricha TPS (2*110+2*220+2*250)	1160	640	628	14.13	589
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	208	211	4.78	199
	Tanda TPS (NTPC) (4*110)	440	384	390	8.63	360
	Roza TPS (IPP) (4*300)	1200	0	0	0.00	0
	Anpara-C (IPP) (2*600)	1200	1071	747	21.01	875
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	428	833	17.05	710
	Lalitpur TPS(3*660)	1980	473	1184	19.87	828
	Bara(2*660)	1320	585	583	13.36	557
	Thermal (Total)	12449	5861	6610	147.49	6145
	Vishnuparyag HPS (IPP)(4*110)	440	68	63	1.62	68
	Alakanada(4*82.5)	330	84	0	1.01	42
	Other Hydro	527	15	86	1.83	76
	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	6878	7609	172.35	7181
	Uttarakhand	Other Hydro	1250	407	187	6.69
Total Gas		225	92	98	2.28	95
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.24	10
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		327	0	0	0.24	10
Total Uttarakhand		1802	499	285	9.21	384
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	75	77	1.77	74
	Pragati Gas Turbine (2x104+ 1x122)	330	149	158	3.71	154
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	250	6.00	250
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	475	485	11.48	478
	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	475	485	11.48	478
	HP	Baspa HPS (IPP) (3*100)	300	0	0	0.79
Malana HPS (IPP) (2*43)		86	0	0	0.26	11
Other Hydro		372	98	18	2.12	88
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	135	83	2.76	115
Renewable(Total)		486	135	83	2.76	115
Total HP		1244	233	101	5.93	247
J & K		Baqilhar HPS (IPP) (3*150+3*150)	900	146	146	3.36
	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	282	266	6	259	

Total State Control Area Generation	50078	16990	16625	416.37	17349
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6303	6186	190.84	7952
Total Regional Availability(Gross)	75315	41406	32916	886.89	36954

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9158	1207	77.50	3229
State Control Area Hydro	7163	1577	1078	34.47	1541
Total Regional Hydro	19397	10735	2285	111.97	4770

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.07	3
State Control Area Renewable	7356	1177	1481	28.57	1190
Total Regional Renewable	7386	1177	1481	28.64	1193

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)	-400	-400	0	400	0.00	8.88	-8.88
765 KV Gwalior-Agra (D/C)	2432	1938	2843	0	52.67	0.00	52.67
400 KV Zerda-Kankroli	-255	-242	0	373	0.00	5.31	-5.31
400 KV Zerda-Bhimnal	-168	-212	10	320	0.00	3.88	-3.88
220 KV Auraiya-Malanpur	-16	-54	0	59	0.00	0.45	-0.45
220 KV Badod-Kota/Morak	31	-25	53	37	0.05	0.00	0.05
Mundra-Mohinderghar(HVDC Bipole)	2002	1798	2012	0.00	47.70	0.00	47.70
400 KV RAPPCC-Sujalpur	280	175	360	0	6.32	0.00	6.32
400 KV Vindhychal-Rihand	0		0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	900	1185	1270	0	25.67	0.00	25.67
+/- 800 kV HVDC Champa-Kurushetra	150	600	1500	0	20.19	0.00	20.19
Sub Total WR	4956	4763			152.60	18.52	134.07
400 kV Sasaram - Varanasi	282	289	290	0	6.97	0.00	6.97
400 kV Sasaram - Allahabad	108	96	131	0	2.56	0.00	2.56
400 KV MZP- GKP (D/C)	172	198	416	0	5.98	0.00	5.98
400 KV Patna-Balia(D/C) X 2	795	775	995	0	19.91	0.00	19.91
400 KV B'Sharif-Balia (D/C)	151	88	298	0	3.75	0.00	3.75
765 KV Gaya-Balia	306	199	343	0	5.76	0.00	5.76
765 KV Gaya-Varanasi (D/C)	-410	-353	557	0	10.26	0.00	10.26
220 KV Pusauli-Sahupuri	216	202	216	0	4.23	0.00	4.23
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-26	-30	0	30	0.00	0.54	-0.54
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-268	-128	0	268	0.00	2.29	-2.29
400 KV Barh -GKP (D/C)	474	552	602	0	11.93	0.00	11.93
400 kV B'Sharif - Varanasi (D/C)	47	35	98	47	0.24	0.00	0.24
Sub Total ER	1847	1923			71.59	2.83	68.76
+/- 800 KV HVDC BiswanathChariali-Agra	-500	-500	0	500.00	0.00	12.00	-12.00
Sub Total NER	-500	-500			0.00	12.00	-12.00
Total IR Exch	6303	6186			224.19	33.35	190.84

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
49.56	0.25	49.81	-2.15	-0.52	6.24	1.18	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
53.90	138.70	192.60	56.77	134.07	190.84	2.86	-4.62	-1.76

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	-36	0	38	0	1	-0.87

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	1.40	16.81	67.59	73.41	8.95	1.23	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)		
50.16	18.01	49.71	15.46	49.96	0.059	0.068	50.04	49.82	26.59

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	406	22:30	401	5:53	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	414	15:53	402	10:19	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	417	20:57	393	10:15	0.0	0.0	0.0	0.0	0.0
Kanpur	400	415	18:16	400	10:15	0.0	0.0	0.0	0.0	0.0
Dadri	400	423	3:37	401	10:15	25.1	25.1	9.1	0.0	34.2
Ballabgarh	400	423	3:36	401	10:16	0.0	0.0	6.8	0.0	6.8
Bawana	400	424	3:02	403	10:16	0.0	0.0	15.8	0.0	15.8
Bassi	400	424	4:00	400	6:43	0.0	0.0	6.3	0.0	6.3
Hissar	400	420	3:12	400	10:14	0.0	0.0	0.0	0.0	0.0
Moga	400	419	3:01	401	12:08	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	427	3:14	406	12:06	0.0	0.0	23.2	0.0	23.2
Nalagarh	400	428	3:02	410	7:10	0.0	0.0	32.1	0.0	32.1
Kishenpur	400	420	3:36	396	19:06	0.0	0.0	0.0	0.0	0.0
Wagoora	400	402	2:48	370	19:07	28.1	72.0	0.0	0.0	28.1
Amritsar	400	424	3:36	404	12:06	0.0	0.0	10.3	0.0	10.3
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	416	0:00	404	7:10	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	417	2:46	393	10:14	0.0	0.0	0.0	0.0	0.0

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	775	18:17	747	10:19	0.0	0.0	0.0	0.0	0.0
Balia	765	784	15:56	759	10:05	0.0	0.0	0.0	0.0	0.0

Moga	765	797	0:45	768	12:07	0.0	0.0	0.0	0.0	0.0
Agra	765	790	18:17	761	6:10	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	3:36	779	12:43	0.0	0.0	9.7	0.0	9.7
Unnao	765	775	20:02	743	10:15	0.0	0.0	0.0	0.0	0.0
Lucknow	765	786	20:02	755	10:21	0.0	0.0	0.0	0.0	0.0
Meerut	765	804	0:46	764	6:10	0.0	0.0	2.0	0.0	2.0
Jhatikara	765	805	3:37	768	10:15	0.0	0.0	8.3	0.0	8.3
Bareilly 765 kV	765	793	20:59	751	10:15	0.0	0.0	0.0	0.0	0.0
Anta	765	795	3:16	772	6:40	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	466.25	212.85	481.88	503.43	161.24	372.20
Pong	426.72	384.05	396.64	151.67	396.85	157.28	46.52	258.25
Tehri	829.79	740.04	767.65	186.00	756.25	93.00	41.38	199.00
Koteshwar	612.50	598.50	610.55	4.82	610.86	4.95	199.00	201.47
Chamera-I	760.00	748.75	757.63	0.00	0.00	0.00	104.44	90.36
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	504.41	2.77	497.54	5.67	82.33	129.26

* 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	-5.80	-0.26	-6.05
Delhi	-431	-71	0	-246	77	0	-6.73	1.79	-4.94
Haryana	-205	-202	0	-137	316	0	-3.77	5.67	1.90
HP	259	77	0	10	-219	0	7.67	-1.73	5.95
J&K	175	198	0	175	124	0	4.21	4.76	8.97
CHD	0	-20	0	0	-40	0	0.00	-0.46	-0.46
Rajasthan	26	213	0	26	-90	0	0.55	-3.49	-2.94
UP	120	-47	0	132	-100	0	1.80	-2.08	-0.28
Uttarakhand	73	9	0	73	203	0	1.91	4.79	6.70
Total	-184	157	0	33	271	0	-0.15	8.99	8.84

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	0	-404	0	-152	0	0
Delhi	-195	-436	406	-157	0	0
Haryana	-86	-206	382	-251	0	0
HP	492	10	77	-401	0	0
J&K	175	175	371	0	0	0
CHD	0	0	15	-81	0	0
Rajasthan	34	13	245	-1106	0	0
UP	182	-10	-47	-100	0	0
Uttarakhand	104	73	522	9	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	2.78%

(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	0	12
Haryana	1	14
Rajasthan	0	10
Delhi	3	25
UP	0	10
Uttarakhand	3	32
HP	4	45
J & K	3	26
Chandigarh	5	42

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 22.03.2017 :

XVI. Synchronisation of new generating units :

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

1. 400kV Lucknow-Rosa LIL Oed at GSS Shahjahanpur, 400kV Lucknow Shahjahanpur charged at 1825Hrs and 400kV Shahjahanpur-Rosa charged at 2010Hrs of 22.03.17

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 : 22.03.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER