

	Rajpura (2*700)	1400	820	660	23.42	976
	Talwandi Saboo (3*660)	1980	616	616	15.61	651
	Thermal (Total)	6560	2185	2032	56.01	2334
	Total Hydro	1000	449	220	8.69	362
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.23	10
	Solar	560	0	0	0.04	1
	Renewable(Total)	848	0	0	0.27	11
	Total Punjab	8408	2634	2252	64.96	2707
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	459	463	10.80	450
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	1157	766	20.78	866
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	740	735	18.90	787
	Thermal (Total)	4497	2356	1964	50.47	2103
	Total Hydro	62	6	9	0.29	12
	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	2362	1973	50.76	2115
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	961	909	23.20	967
	suratgarh TPS (6*250)	1500	179	188	4.62	193
	Chabra TPS (4*250)	1000	776	769	19.88	828
	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	156	160	3.61	151
	RAPS A (NPC) (1*100+1*200)	300	190	190	4.38	182
	Barsingar (NLC) (2*125)	250	227	225	5.21	217
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	591	791	18.29	762
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	825	822	22.61	942
	Kawai(Adani) (2*660)	1320	1180	818	23.03	960
	Thermal (Total)	8876	5085	4872	124.83	5201
	Total Hydro	550	112	178	4.10	171
	Wind power	4017	539	522	14.71	613
	Biomass	99	7	7	0.16	7
	Solar	1295	0	0	2.30	96
	Renewable/Others (Total)	5411	546	529	17.17	715
	Total Rajasthan	14837	5743	5579	146.09	6087
UP	Anpara TPS (3*210+2*500)	1630	1435	1089	32.06	1336
	Obra TPS (2*50+2*94+5*200)	1194	564	550	14.05	586
	Paricha TPS (2*110+2*220+2*250)	1160	585	580	14.89	620
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaqanj TPS (1*60+1*105+2*250)	665	427	407	10.41	434
	Tanda TPS (NTPC) (4*110)	440	235	274	7.47	311
	Roza TPS (IPP) (4*300)	1200	738	765	19.50	812
	Anpara-C (IPP) (2*600)	1200	1076	617	23.54	981
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	141	1.02	43
	Anpara-D(2*500)	1000	442	418	10.13	422
	Lalitpur TPS(3*660)	1980	408	381	13.82	576
	Bara(2*660)	1320	747	724	19.69	821
	Thermal (Total)	12449	6657	5946	166.58	6941
	Vishnuparyag HPS (IPP)(4*110)	440	68	0	1.68	70
	Alaknada(4*82.5)	330	78	0	0.98	41
	Other Hydro	527	121	93	3.73	155
	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	7774	6889	193.37	8057	
Uttarakhand	Other Hydro	1250	504	258	8.53	355
	Total Gas	225	155	161	3.79	158
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.05	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.05	2
Total Uttarakhand	1802	659	419	12.37	515	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	33	35	0.88	37
	Pragati Gas Turbine (2x104+ 1x122)	330	158	153	3.82	159
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	280	6.26	261
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	441	468	10.95	456
	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	441	468	10.95	456
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.85	35
	Malana HPS (IPP) (2*43)	86	0	0	0.18	8
	Other Hydro	372	101	43	2.27	94
	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	46	35	0.97	40
	Renewable(Total)	486	46	35	0.97	40
	Total HP	1244	148	78	4.26	177
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	117	117	2.81
Other Hydro/IPP(including 98 MW Small Hydro)		308	80	18	0.95	40
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	197	135	4	157	

Total State Control Area Generation	50078	19957	17793	486.52	20272
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6816	7456	191.37	7974
Total Regional Availability(Gross)	75315	42794	32588	903.40	37641

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8672	666	62.40	2600
State Control Area Hydro	7163	1838	1132	36.01	1660
Total Regional Hydro	19397	10510	1797	98.40	4260

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.06	3
State Control Area Renewable	7356	592	564	18.45	769
Total Regional Renewable	7386	592	564	18.51	771

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)	-300	-100	100	300	0.19	3.36	-3.17
765 KV Gwalior-Agra (D/C)	2292	2582	2925	0	63.96	0.00	63.96
400 KV Zerda-Kankroli	-36	-144	10	245	0.00	2.34	-2.34
400 KV Zerda-Bhimnal	-10	-78	104	216	0.00	0.43	-0.43
220 KV Auraiya-Malanpur	-65	-66	0	74	0.00	1.47	-1.47
220 KV Badod-Kota/Morak	-31	-35	24	56	0.00	0.78	-0.78
Mundra-Mohinderghar(HVDC Bipole)	2000	2000	2504	0.00	48.91	0.00	48.91
400 KV RAPPCC-Sujalpur	315	285	366	0	6.05	0.00	6.05
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1052	998	680	0	27.42	0.00	27.42
Sub Total WR	5217	5442			146.54	8.37	138.16
400 kV Sasaram - Varanasi	170	184	201	0	4.60	0.00	4.60
400 kV Sasaram - Allahabad	72	55	73	0	1.30	0.00	1.30
400 KV MZP- GKP (D/C)	140	321	497	0	7.00	0.00	7.00
400 KV Patna-Balia(D/C) X 2	586	717	835	0	16.03	0.00	16.03
400 KV B'Sharif-Balia (D/C)	-41	116	272	41	2.82	0.00	2.82
765 KV Gaya-Balia	151	275	346	0	6.63	0.00	6.63
765 KV Gaya-Varanasi (D/C)	537	389	766	0	13.69	0.00	13.69
220 KV Pusauli-Sahupuri	107	94	147	0	2.64	0.00	2.64
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-38	-37	0	38	0.00	0.83	-0.83
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-86	-64	125	110	0.00	0.44	-0.44
400 KV Barh -GKP (D/C)	490	484	520	0	11.41	0.00	11.41
400 kV B'Sharif - Varanasi (D/C)	13	-20	142	26	1.05	0.00	1.05
Sub Total ER	2101	2514			67.16	1.77	65.39
+/- 800 KV BiswanathChariali-Agra	-502	-500	0	503.00	0.00	12.18	-12.18
Sub Total NER	-502	-500			0.00	12.18	-12.18
Total IR Exch	6816	7456			213.70	22.33	191.37

VI(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
42.28	0.36	42.64	-0.48	-5.15	13.41	0.00	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
55.57	136.41	191.98	53.21	138.16	191.37	-2.36	1.75	-0.61

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	-16	-15	0	17	0	1	-0.88

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	0.00	1.57	39.76	71.74	20.57	6.17	0.01	0.00

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (%) of Time
Maximum	Minimum	Hz	MAX				MIN		
50.20	Time 0.01	49.82	Time 21.05	50.01	Index 0.032	0.055	(Hz) 50.11	(Hz) 49.92	28.26

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	408	23:06	400	16:07	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	21:46	407	8:55	0.0	0.0	0.1	0.0	0.1
Bareilly(PG)400kV	400	421	21:55	401	8:55	0.0	0.0	0.1	0.0	0.1
Kanpur	400	418	21:45	403	8:47	0.0	0.0	0.0	0.0	0.0
Dadri	400	424	1:18	408	10:14	0.0	0.0	18.7	0.0	18.7
Ballabgarh	400	429	1:01	411	10:09	0.0	0.0	59.6	0.0	59.6
Bawana	400	425	0:55	408	10:09	0.0	0.0	24.6	0.0	24.6
Bassi	400	425	4:01	401	9:12	0.0	0.0	16.5	0.0	16.5
Hissar	400	421	1:17	407	5:42	0.0	0.0	0.3	0.0	0.3
Moga	400	416	6:20	410	8:55	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	1:19	415	18:38	0.0	0.0	34.8	0.0	34.8
Nalagarh	400	428	1:56	417	18:39	0.0	0.0	67.2	0.0	67.2
Kishenpur	400	419	1:15	399	18:48	0.0	0.0	0.0	0.0	0.0
Wagoora	400	397	13:01	369	18:51	36.7	88.5	0.0	0.0	36.7
Amritsar	400	427	1:46	407	9:10	0.0	0.0	14.6	0.0	14.6
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hampurpur	400	416	5:49	407	18:35	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	0	0:00	0	0:00	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	779	23:18	745	5:56	0.0	0.0	0.0	0.0	0.0
Balia	765	790	23:23	764	8:52	0.0	0.0	0.0	0.0	0.0
Moga	765	795	16:00	776	8:57	0.0	0.0	0.0	0.0	0.0

Agra	765	789	18:00	757	5:41	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	807	1:19	777	9:08	0.0	0.0	8.4	0.0	8.4
Unnao	765	772	3:01	741	8:52	0.0	0.5	0.0	0.0	0.0
Lucknow	765	802	3:01	772	8:57	0.0	0.0	3.4	0.0	3.4
Meerut	765	811	0:00	769	5:55	0.0	0.0	10.7	0.0	10.7
Jhatikara	765	804	0:59	768	5:40	0.0	0.0	2.8	0.0	2.8
Bareilly 765 kV	765	802	21:45	767	8:55	0.0	0.0	1.5	0.0	1.5
Anta	765	789	17:48	764	8:49	0.0	0.0	0.0	0.0	0.0
Phagi	765	798	0:47	765	8:55	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	483.72	552.50	497.20	983.40	127.91	435.37
Pong	426.72	384.05	405.71	361.16	407.26	407.15	41.00	312.50
Tehri	829.79	740.04	799.25	596.29	792.40	483.10	36.67	223.00
Koteshwar	612.50	598.50	610.10	4.52	610.76	4.95	223.00	212.90
Chamera-I	760.00	748.75	758.94	0.00	0.00	0.00	41.93	48.97
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	502.84	1.72	496.11	0.22	43.60	87.93

* 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	-544	0	0	-618	0	0	-18.45	-0.01	-18.46
Delhi	-94	-534	0	-276	57	0	-3.74	-0.41	-4.15
Haryana	-847	308	0	-513	203	0	-14.98	4.89	-10.09
HP	458	80	0	358	-212	0	11.90	-1.34	10.55
J&K	612	107	0	608	325	0	15.00	6.07	21.06
CHD	0	0	0	0	0	0	0.00	0.10	0.10
Rajasthan	23	263	0	-7	-233	0	9.47	3.42	12.89
UP	97	0	0	-164	-100	0	-9.14	-1.42	-10.57
Uttarakhand	312	50	0	0	245	0	3.86	4.63	8.48
Total	17	274	0	-611	286	0	-6.09	15.92	9.83

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-534	-1264	0	-23	0	0
Delhi	6	-286	623	-576	0	0
Haryana	-513	-847	314	-108	0	0
HP	717	334	80	-531	0	0
J&K	674	593	466	-15	0	0
CHD	0	0	39	-51	0	0
Rajasthan	1159	-7	542	-1022	0	0
UP	134	-969	0	-100	0	0
Uttarakhand	312	0	476	17	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	6.60%

(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	2	15
Haryana	2	19
Rajasthan	0	12
Delhi	4	19
UP	1	16
Uttarakhand	4	29
HP	3	15
J & K	2	23
Chandigarh	3	22

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 22.01.2017 :

XVI. Synchronisation of new generating units :

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

0

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 : 22.01.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER