

	Rajpura (2*700)	1400	1220	660	23.80	992
	Talwandi Saboo (3*660)	1980	924	924	25.07	1045
	Thermal (Total)	6560	2559	2128	59.28	2470
	Total Hydro	1000	434	241	8.98	374
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	1.06	44
	Solar	560	0	0	0.08	3
	Renewable(Total)	848	0	0	1.14	47
	Total Punjab	8408	2993	2369	69.40	2892
Haryana	Panipat TPS (2*210+2*250)	920	466	414	10.05	419
	DCRTPP (Yamuna nagar) (2*300)	600	279	231	5.77	240
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	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	1184	739	21.83	910
	Thermal (Total)	4497	1929	1384	37.65	1569
	Total Hydro	62	12	6	0.31	13
	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	1941	1390	37.95	1581
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	943	973	23.44	977
	suratgarh TPS (6*250)	1500	663	540	14.70	612
	Chabra TPS (4*250)	1000	921	753	20.92	872
	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	125	128	3.06	127
	RAPS A (NPC) (1*100+1*200)	300	168	173	4.27	178
	Barsingar (NLC) (2*125)	250	226	227	5.31	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	835	447	16.58	691
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1130	829	23.93	997
	Kawai(Adani) (2*660)	1320	621	620	13.66	569
	Thermal (Total)	8876	5632	4690	125.86	5244
	Total Hydro	550	201	177	4.81	200
	Wind power	4017	111	632	6.24	260
	Biomass	99	5	5	0.12	5
	Solar	1295	3	0	0.14	6
	Renewable/Others (Total)	5411	119	637	6.50	271
	Total Rajasthan	14837	5952	5504	137.16	5715
UP	Anpara TPS (3*210+2*500)	1630	833	614	19.35	806
	Obra TPS (2*50+2*94+5*200)	1194	483	420	11.05	460
	Paricha TPS (2*110+2*220+2*250)	1160	919	663	19.58	816
	Panki TPS (2*105)	210	68	68	1.85	77
	Harduaqanj TPS (1*60+1*105+2*250)	665	532	413	11.69	487
	Tanda TPS (NTPC) (4*110)	440	370	276	8.27	345
	Roza TPS (IPP) (4*300)	1200	1099	756	23.28	970
	Anpara-C (IPP) (2*600)	1200	1080	648	22.75	948
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	316	253	7.22	301
	Anpara-D(2*500)	1000	371	294	8.57	357
	Lalitpur TPS(3*660)	1980	594	594	14.18	591
	Bara(2*660)	1320	0	378	8.89	370
	Thermal (Total)	12449	6665	5377	156.69	6529
	Vishnuparyag HPS (IPP)(4*110)	440	83	88	2.04	85
	Alakanada(4*82.5)	330	78	0	1.27	53
	Other Hydro	527	196	157	4.06	169
	Cogeneration	981	800	800	19.20	800
	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	7822	6422	183.25	7636	
Uttarakhand	Other Hydro	1250	534	369	9.50	396
	Total Gas	225	279	291	6.75	281
	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	813	660	16.29	679	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	73	72	1.96	82
	Pragati Gas Turbine (2x104+ 1x122)	330	158	155	3.80	158
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	290	280	6.34	264
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-4	-0.16	-7
	Thermal (Total)	2917	517	503	11.93	497
	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	517	503	11.93	497
	HP	Baspa HPS (IPP) (3*100)	300	75	0	1.15
Malana HPS (IPP) (2*43)		86	0	0	0.23	10
Other Hydro		372	102	49	2.09	87
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	58	41	1.13	47
Renewable(Total)		486	58	41	1.13	47
Total HP		1244	235	90	4.60	192
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	150	130	3.20	133
	Other Hydro/IPP(including 98 MW Small Hydro)	308	81	21	0.99	41
	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	231	151	4	175

Total State Control Area Generation	50078	20505	17089	464.78	19366
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6580	5467	169.04	7043
Total Regional Availability(Gross)	75315	44188	30085	884.23	36843

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8405	598	64.53	2689
State Control Area Hydro	7163	2283	1570	39.75	1939
Total Regional Hydro	19397	10689	2168	104.28	4628

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.08	3
State Control Area Renewable	7356	177	678	8.81	367
Total Regional Renewable	7386	177	678	8.88	370

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)	200	-500	200	500	2.25	4.14	-1.89
765 KV Gwalior-Agra (D/C)	1599	1553	2638	0	42.44	0.00	42.44
400 KV Zerda-Kankroli	-88	-124	47	151	0.00	2.14	-2.14
400 KV Zerda-Bhimnal	83	-22	156	89	0.82	0.00	0.82
220 KV Auraiya-Malanpur	-89	-92	0	121	0.00	1.98	-1.98
220 KV Badod-Kota/Morak	-89	-79	24	124	0.00	1.82	-1.82
Mundra-Mohinderghar(HVDC Bipole)	2498	1702	2506	0.00	51.34	0.00	51.34
400 KV RAPPCC-Sujalpur	354	141	390	0	6.72	0.00	6.72
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	946	990	1437	0	28.46	0.00	28.46
Sub Total WR	5414	3569			132.02	10.08	121.95
400 kV Sasaram - Varanasi	-91	-22	0	91	0.00	1.35	-1.35
400 kV Sasaram - Allahabad	0	-50	0	105	0.00	1.48	-1.48
400 KV MZP- GKP (D/C)	63	356	373	0	6.65	0.00	6.65
400 KV Patna-Balia(D/C) X 2	712	711	854	0	18.27	0.00	18.27
400 KV B'Sharif-Balia (D/C)	43	159	230	0	4.11	0.00	4.11
765 KV Gaya-Balia	74	120	259	0	4.12	0.00	4.12
765 KV Gaya-Varanasi (D/C)	316	403	638	0	11.96	0.00	11.96
220 KV Pusaali-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-36	-38	0	42	0.00	0.88	-0.88
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	74	104	277	0	3.93	0.00	3.93
400 KV Barh -GKP (D/C)	466	506	574	0	11.73	0.00	11.73
400 kV B'Sharif - Varanasi (D/C)	45	150	221	0	2.91	0.00	2.91
Sub Total ER	1666	2399			63.67	4.22	59.46
+/- 800 KV BiswanathCharialli-Agra	-500	-501	0	500.00	0.00	12.37	-12.37
Sub Total NER	-500	-501			0.00	12.37	-12.37
Total IR Exch	6580	5467			195.70	26.66	169.04

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
45.35	0.94	46.29	1.40	-8.64	8.37	0.88	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
56.05	121.69	177.74	47.09	121.95	169.04	-8.96	0.25	-8.71

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	13	11	0	13	0	1	-0.69

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	1.30	15.44	55.50	62.51	14.72	7.30	0.10	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)		
50.21	3.51	49.73	9.14	49.99	0.069	0.082	50.15	49.78	37.49

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	411	1:02	400	8:35	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	1:05	406	7:34	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	423	0:30	402	8:14	0.0	0.0	6.7	0.0	6.7
Kanpur	400	418	0:01	403	7:33	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	3:49	407	11:16	0.0	0.0	26.1	0.0	26.1
Ballabgarh	400	430	3:58	410	11:17	0.0	0.0	47.2	0.0	47.2
Bawana	400	409	0:00	409	0:00	0.0	0.0	0.0	0.0	0.0
Bassi	400	424	20:59	398	11:49	0.0	0.0	4.0	0.0	4.0
Hissar	400	420	3:59	401	11:16	0.0	0.0	0.0	0.0	0.0
Moga	400	420	21:54	405	11:20	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	424	1:42	291	18:25	35.7	35.7	20.5	0.0	56.2
Nalagarh	400	428	13:09	417	7:01	0.0	0.0	64.9	0.0	64.9
Kishenpur	400	423	13:09	400	5:48	0.0	0.0	0.3	0.0	0.3
Wagoora	400	400	13:10	369	11:20	36.7	96.0	0.0	0.0	36.7
Amritsar	400	427	23:18	412	6:54	0.0	0.0	29.1	0.0	29.1
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	420	20:06	185	14:07	21.9	21.9	0.0	0.0	21.9
Rishikesh	400	424	0:33	400	11:07	0.0	0.0	20.5	0.0	20.5

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	21:59	741	7:35	0.0	0.1	0.0	0.0	0.0
Balia	765	790	23:57	759	7:35	0.0	0.0	0.0	0.0	0.0
Moga	765	801	20:59	772	11:19	0.0	0.0	0.1	0.0	0.1

Agra	765	791	21:59	758	7:33	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	21:55	776	11:07	0.0	0.0	16.5	0.0	16.5
Unnao	765	776	0:33	745	11:17	0.0	0.0	0.0	0.0	0.0
Lucknow	765	803	0:28	763	7:33	0.0	0.0	3.7	0.0	3.7
Meerut	765	809	20:59	772	6:44	0.0	0.0	2.3	0.0	2.3
Jhatikara	765	805	21:58	771	11:18	0.0	0.0	10.1	0.0	10.1
Bareilly 765 kV	765	798	0:31	765	7:33	0.0	0.0	0.0	0.0	0.0
Anta	765	796	21:58	766	11:10	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	21:55	767	11:11	0.0	0.0	0.8	0.0	0.8

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	489.42	719.44	501.87	1179.55	163.10	429.31
Pong	426.72	384.05	408.71	454.47	411.90	555.85	45.05	348.24
Tehri	829.79	740.04	810.30	808.00	804.55	695.00	38.94	199.00
Koteshwar	612.50	598.50	610.47	4.50	610.59	4.95	199.00	215.15
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	45.26	48.77
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	505.64	2.26	499.44	4.29	46.07	102.38

* 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	-623	3	0	-705	-260	0	-20.91	-1.65	-22.56
Delhi	-183	-325	0	-273	-56	0	-5.72	-2.07	-7.79
Haryana	-973	257	0	-659	246	0	-18.40	4.55	-13.85
HP	495	67	0	404	-74	0	12.64	-1.40	11.24
J&K	610	194	0	605	257	0	14.79	5.19	19.98
CHD	0	0	0	0	0	0	0.00	0.02	0.02
Rajasthan	-7	339	0	-7	249	0	6.74	8.14	14.87
UP	124	0	0	-94	-100	0	-7.07	-1.61	-8.68
Uttarakhand	321	-154	0	114	23	0	6.24	-1.08	5.16
Total	-236	381	0	-616	284	0	-11.70	10.09	-1.61

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-618	-1256	3	-628	0	0
Delhi	-137	-363	276	-421	0	0
Haryana	-659	-996	271	-208	0	0
HP	662	379	67	-622	0	0
J&K	648	592	373	-56	0	0
CHD	0	0	24	-31	0	0
Rajasthan	684	-7	732	202	0	0
UP	172	-852	0	-100	0	0
Uttarakhand	321	49	149	-311	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	3.47%
ER	0.00%
Simultaneous	11.81%

(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	26
Haryana	0	11
Rajasthan	0	12
Delhi	3	31
UP	1	16
Uttarakhand	2	20
HP	4	28
J & K	2	19
Chandigarh	4	36

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 26.12.2016 :

XVI. Synchronisation of new generating units :

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

0
0.00
0
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 : 26.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER