

	Thermal (Total)	6560	3134	2024	58.97	2457
	Total Hydro	1000	854	848	20.26	844
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	0.10	4
	Solar	859	0	0	0.06	3
	Renewable(Total)	1162	0	0	0.17	7
	Total Punjab	8722	3988	2872	79.40	3308
Haryana	Panipat TPS (2*210+2*250)	920	354	376	8.90	371
	DCRTPP (Yamuna nagar) (2*300)	600	224	217	5.14	214
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	192	170	4.22	176
	RGTPP (khedar) (IPP) (2*600)	1200	441	391	9.50	396
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	1150	737	22.01	917
	Thermal (Total)	4497	2361	1891	49.77	2074
	Total Hydro	62	35	35	0.85	36
	Wind Power	0	0	0	0.00	0
	Biomass	106	0	0	0.00	0
	Solar	50	0	0	0.00	0
	Renewable(Total)	156	0	0	0.00	0
	Total Haryana	4715	2396	1926	50.62	2109
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1011	847	21.14	881
	suratgarh TPS (6*250)	1500	447	704	14.43	601
	Chabra TPS (4*250)	1000	447	428	10.31	429
	Chabra TPS (1*660)	660	0	0	0.00	0
	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	168	170	4.47	186
	RAPS A (NPC) (1*100+1*200)	300	172	171	4.22	176
	Barsingar (NLC) (2*125)	250	108	97	2.40	100
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwst LTPS (IPP) (8*135)	1080	806	441	16.85	702
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	956	812	20.42	851
	Kawai(Adani) (2*660)	1320	611	445	14.18	591
	Thermal (Total)	9536	4726	4115	108.42	4517
	Total Hydro	550	92	68	1.63	68
	Wind power	4292	261	917	8.56	357
	Biomass	102	24	24	0.58	24
	Solar	1995	0	0	2.60	108
	Renewable/Others (Total)	6389	285	941	11.74	489
	Total Rajasthan	16475	5103	5124	121.79	5074
UP	Anpara TPS (3*210+2*500)	1630	734	730	17.77	740
	Obra TPS (2*50+2*94+5*200)	1194	436	396	9.85	410
	Paricha TPS (2*110+2*220+2*250)	1160	588	516	12.59	525
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	397	312	7.96	331
	Tanda TPS (NTPC) (4*110)	440	364	386	8.84	368
	Roza TPS (IPP) (4*300)	1200	819	804	16.54	689
	Anpara-C (IPP) (2*600)	1200	1104	1065	25.55	1065
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	454	452	10.83	451
	Lalitpur TPS(3*660)	1980	1848	1851	29.63	1235
	Bara(2*660)	1320	607	606	14.15	590
	Thermal (Total)	12449	7351	7118	153.70	6404
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	9.99	416
	Alaknanda(4*82.5)	330	342	342	8.12	338
	Other Hydro	527	250	300	5.39	225
	Cogeneration	981	30	30	0.72	30
	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	8408	8225	177.93	7414	
Uttarakhand	Other Hydro	1250	858	782	19.19	800
	Total Gas	225	285	287	6.88	287
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.00	0
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.00	0
	Total Uttarakhand	1882	1143	1069	26.07	1086
Delhi	Raighat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	0	71	0.63	26
	Pragati Gas Turbine (2x104+ 1x122)	330	260	262	6.39	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	429	431	10.35	431
	Badarpur TPS (NTPC) (3*95+2*210)	705	321	326	7.10	296
	Thermal (Total)	2917	1010	1090	24.47	1020
	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	1010	1090	24.47	1020	
HP	Baspa HPS (IPP) (3*100)	300	332	332	7.89	329
	Malana HPS (IPP) (2*43)	86	94	82	1.86	78
	Other Hydro (>25MW)	372	366	345	8.35	348
	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	284	296	6.93	289
	Renewable(Total)	486	284	296	6.93	289
Total HP	1244	1075	1055	25.03	1043	
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	883	884	21.21	884
	Other Hydro/IPP(including 98 MW Small Hydro)	308	202	200	4.81	201
	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	1085	1084	26	1084	
Total State Control Area Generation		52226	24208	22446	531.32	22138
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6623	7932.7	190.90	7954
Total Regional Availability(Gross)		77963	52633	47177	1130.60	47108

IV. Total Hydro Generation:

Regional Entities Hydro	12234	12258	7983	215.73	8933
State Control Area Hydro	7243	5311	5236	109.56	5140
Total Regional Hydro	19477	17570	13220	325.29	14073

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.03	1
State Control Area Renewable	8844	569	1237	18.83	785
Total Regional Renewable	8874	569	1237	18.87	786

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-500	-150	0	500	0.00	6.49	-6.49
765 KV Gwalior-Agra (D/C)	2043	2305	2587	0	52.01	0.00	52.01
400 KV Zerda-Kankroli	-163	-116	0	186	0.00	2.73	-2.73
400 KV Zerda-Bhinmal	-82	-74	68	125	0.00	1.00	-1.00
220 KV Auraiya-Malanpur	-34	-39	0	44	0.00	0.18	-0.18
220 KV Badod-Kota/Morak	-58	-6	69	77	0.00	0.20	-0.20
Mundra-Mohindergarh(HVDC Bipole)	2303	1998	2305	0	49.19	0.00	49.19
400 KV RAPP-Subalpur	145	180	259	0	4.55	0.00	4.55
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	744	942	1193	0	21.76	0.00	21.76
+/- 800 kV HVDC Champa-Kurushetra	1000	1000	1000	0	15.70	0	15.70
Sub Total WR	5398	6040			143.22	10.59	132.63
400 kV Sasaram - Varanasi	194	159	198	0	4.26	0.00	4.26
400 kV Sasaram - Allahabad	6	31	36	0	0.90	0.00	0.90
400 KV MZP- GKP (D/C)	280	524	723	0	12.73	0.00	12.73
400 KV Patna-Balia(D/C) X 2	485	766	1004	0	18.23	0.00	18.23
400 KV B Sharif-Balia (D/C)	91	168	304	0	4.62	0.00	4.62
765 KV Gaya-Balia	241	262	309	0	5.91	0.00	5.91
765 KV Gaya-Varanasi (D/C)	86	245	485	0	6.42	0.00	6.42
220 KV Pusauli-Sahupuri	-117	-104	123	0	2.79	0.00	2.79
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-21	-13	0	32	0.00	0.50	-0.50
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-178	-115	88	220	0.00	1.04	-1.04
400 KV Barh -GKP (D/C)	-202	-174	0	202	0.00	3.49	-3.49
400 kV B Sharif - Varanasi (D/C)	-140	-6	150	160	0.32	0.00	0.32
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	725	1743			56.18	5.03	51.15
+/- 800 KV HVDC BiswanathChariali-Agra	500	150	500	0.00	7.12	0.00	7.12
Sub Total NER	500	150			7.12	0.00	7.12
Total IR Exch	6623	7933			206.53	15.63	190.90

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
40.33	3.62	43.94	23.01	12.43	-13.42	3.19	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
53.53	144.97	198.50	58.27	132.63	190.90	4.74	-12.34	-7.60

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-8	-4	0	24	0	0	-0.37

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	0.12	5.28	63.41	85.21	9.21	0.63	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time	Hz	Index				
50.14	13.00	49.78	19.12	49.98	0.030	0.051	50.07	49.90	14.79

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	406	3:40	400	19:01	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	17:03	386	19:11	0.0	1.2	0.0	0.0	0.0
Bareilly(PG)400kV	400	411	7:28	391	19:13	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	7:59	399	19:10	0.0	0.0	0.0	0.0	0.0
Dadri	400	413	6:04	398	19:11	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	418	7:44	399	19:19	0.0	0.0	0.0	0.0	0.0
Bawana	400	411	6:05	396	19:16	0.0	0.0	0.0	0.0	0.0
Bassi	400	422	4:02	402	19:13	0.0	0.0	0.6	0.0	0.6
Hissar	400	414	7:45	397	19:11	0.0	0.0	0.0	0.0	0.0
Moga	400	414	8:00	399	19:11	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	416	6:05	401	19:10	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	412	17:38	404	19:20	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	417	3:55	402	19:48	0.0	0.0	0.0	0.0	0.0
Wagoora	400	413	3:53	382	19:55	0.0	11.2	0.0	0.0	0.0
Amritsar	400	412	11:06	403	19:11	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	415	3:58	403	19:09	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	415	4:00	397	19:11	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)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	782	5:29	744	19:13	0.0	0.0	0.0	0.0	0.0
Balia	765	788	7:57	749	19:11	0.0	0.0	0.0	0.0	0.0
Moga	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Agra	765	787	4:00	756	19:12	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	797	3:59	770	19:10	0.0	0.0	0.0	0.0	0.0

Unnao	765	770	7:54	736	19:11	0.0	1.4	0.0	0.0	0.0
Lucknow	765	788	7:54	747	19:11	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	3:59	766	19:12	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	796	7:59	763	19:12	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	787	7:56	750	19:11	0.0	0.0	0.0	0.0	0.0
Anta	765	788	4:02	763	19:13	0.0	0.0	0.0	0.0	0.0
Phagi	765	794	3:59	768	19:12	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	508.36	1470.42	499.48	1076.64	915.94	513.67
Pong	426.72	384.05	420.80	931.43	415.56	693.24	634.58	339.72
Tehri	829.79	740.04	814.00	882.26	815.05	903.26	359.75	205.00
Koteswar	612.50	598.50	610.52	4.57	610.68	4.69	205.00	215.86
Chamera-I	760.00	748.75	754.13	0.00	0.00	0.00	214.00	235.99
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	520.96	10.01	520.34	4.47	253.85	390.37

* 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	1780	-302	0	1328	-302	0	40.55	-7.88	32.67
Delhi	619	-149	0	599	-374	0	17.18	-5.86	11.31
Haryana	1273	120	0	1124	13	0	24.22	1.82	26.04
HP	-1330	-298	0	-1337	-353	0	-29.87	-7.03	-36.90
J&K	-741	-483	0	-741	-86	0	-17.77	-4.25	-22.02
CHD	0	-15	0	0	-70	0	0.00	-0.25	-0.25
Rajasthan	-59	-258	0	-59	-202	0	-1.41	-1.66	-3.07
UP	1305	1193	0	1435	-69	0	17.68	22.98	40.66
Uttarakhand	-212	39	0	-285	4	0	-5.55	0.75	-4.81
Total	2636	-152	0	2064	-1438	0	45.02	-1.39	43.63

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1794	1328	-268	-605	0	0
Delhi	1111	476	29	-447	0	0
Haryana	1273	870	132	-184	0	0
HP	-1055	-1565	-187	-378	0	0
J&K	-741	-741	-5	-498	0	0
CHD	0	0	39	-70	0	0
Rajasthan	-59	-59	153	-1655	0	0
UP	1646	223	2363	-69	0	0
Uttarakhand	-196	-285	92	-51	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. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	14
Haryana	3	15
Rajasthan	1	13
Delhi	5	42
UP	0	12
Uttarakhand	2	32
HP	2	35
J & K	1	17
Chandigarh	4	22

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 26.08.2017 :

XVI. Synchronisation of new generating units :

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

1. 400kV G.Noida(400kV)-G.Noida(765kV)-2 first time charged on no-load from G.Noida(400kV) end at 1433Hrs of 26.08.17

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 : 26.08.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER