

	Thermal (Total)	6560	4492	3561	94.95	3956
	Total Hydro	1000	798	867	20.50	854
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.07	3
	Solar	560	0	0	0.07	3
	Renewable(Total)	848	0	0	0.14	6
	Total Punjab	8408	5290	4428	115.59	4816
Haryana	Panipat TPS (2*210+2*250)	920	831	766	18.69	779
	DCRTPP (Yamuna nagar) (2*300)	600	539	462	11.91	496
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	48	0	0.27	11
	RGTPP (khedar) (IPP) (2*600)	1200	512	381	10.66	444
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	584	372	11.31	471
	Thermal (Total)	4497	2514	1981	52.85	2202
	Total Hydro	62	32	34	0.83	34
	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	2546	2015	53.67	2236
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	153	179	3.82	159
	suratgarh TPS (6*250)	1500	196	191	4.65	194
	Chabra TPS (4*250)	1000	929	826	23.77	991
	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	189	189	4.60	192
	RAPS A (NPC) (1*100+1*200)	300	164	165	4.07	169
	Barsingar (NLC) (2*125)	250	221	219	5.20	217
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	288	367	9.16	382
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	1006	1189	26.26	1094
	Thermal (Total)	9536	3146	3325	81.53	3397
	Total Hydro	550	0	0	0.38	16
	Wind power	4017	671	734	7.94	331
	Biomass	99	18	18	0.43	18
	Solar	1295	0	0	2.00	83
	Renewable/Others (Total)	5411	689	752	10.37	432
	Total Rajasthan	15497	3835	4077	92.28	3845
UP	Anpara TPS (3*210+2*500)	1630	868	888	21.30	888
	Obra TPS (2*50+2*94+5*200)	1194	423	345	9.10	379
	Paricha TPS (2*110+2*220+2*250)	1160	772	588	15.10	629
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	449	319	8.30	346
	Tanda TPS (NTPC) (4*110)	440	290	205	5.90	246
	Roza TPS (IPP) (4*300)	1200	816	564	15.60	650
	Anpara-C (IPP) (2*600)	1200	943	1122	23.60	983
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	912	902	20.30	846
	Lalitpur TPS(3*660)	1980	1833	1130	27.20	1133
	Bara(2*660)	1320	605	603	13.90	579
	Thermal (Total)	12449	7911	6666	160.30	6679
	Vishnuparyag HPS (IPP)(4*110)	440	400	435	10.40	433
	Alaknanda(4*82.5)	330	330	340	8.00	333
	Other Hydro	527	324	150	5.40	225
	Cogeneration	981	0	0	0.00	0
	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	8965	7591	184.10	7671
	Uttarakhand	Other Hydro	1250	440	568	12.77
Total Gas		225	274	279	6.63	276
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		100	0	0	0.54	23
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		407	0	0	0.54	23
Total Uttarakhand		1882	714	847	19.94	831
Delhi	Raighat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.81	76
	Pragati Gas Turbine (2x104+ 1x122)	330	150	154	3.73	155
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	420	420	10.23	426
	Badarpur TPS (NTPC) (3*95+2*210)	705	324	328	7.12	297
	Thermal (Total)	2917	968	976	22.89	954
	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	968	976	22.89	954	
HP	Baspa HPS (IPP) (3*100)	300	331	331	7.87	328
	Malana HPS (IPP) (2*43)	86	108	108	2.57	107
	Other Hydro (>25MW)	372	376	398	8.62	359
	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	361	284	7.24	302
	Renewable(Total)	486	361	284	7.24	302
Total HP	1244	1176	1121	26.30	1096	
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	882	882	21.17	882
	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	1084	1082	26	1083	
Total State Control Area Generation		50818	24578	22137	540.74	22531
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8756	9263	202.89	8454
Total Regional Availability(Gross)		76555	54974	49757	1187.85	49494

IV. Total Hydro Generation:

Regional Entities Hydro	12234	12023	10287	258.46	10769
State Control Area Hydro	7243	4858	4876	110.55	4905
Total Regional Hydro	19477	16881	15163	369.02	15674

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.09	4
State Control Area Renewable	7436	1050	1036	18.29	762
Total Regional Renewable	7466	1050	1036	18.38	766

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)	-200	-300	0	450	0.00	6.61	-6.61
765 KV Gwalior-Agra (D/C)	2675	2357	2675	0	50.53	0.00	50.53
400 KV Zerda-Kankroli	186	132	301	0	3.60	0.00	3.60
400 KV Zerda-Bhinmal	289	173	326	0	3.82	0.00	3.82
220 KV Auraiya-Malanpur	-4	-6	0	46	0.00	0.14	-0.14
220 KV Badod-Kota/Morak	120	117	99	0	2.58	0.00	2.58
Mundra-Mohindergarh(HVDC Bipole)	0	0	0	0	0.00	0.00	0.00
400 KV RAPP-C-Sujapur	290	163	238	0	4.59	0.00	4.59
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1135	1098	1135	0	25.92	0.00	25.92
+/- 800 kV HVDC Champa-Kurushetra	1500	1500	1500	0	33.75	0	33.75
Sub Total WR	5991	5234			124.78	6.74	118.04
400 kV Sasaram - Varanasi	60	185	192	0	4.41	0.00	4.41
400 kV Sasaram - Allahabad	42	151	78	0	1.47	0.00	1.47
400 KV MZP- GKP (D/C)	415	565	712	0	13.48	0.00	13.48
400 KV Patna-Balia(D/C) X 2	583	546	654	0	13.49	0.00	13.49
400 KV B Sharif-Balia (D/C)	224	423	460	0	8.26	0.00	8.26
765 KV Gaya-Balia	336	374	428	0	7.27	0.00	7.27
765 KV Gaya-Varanasi (D/C)	396	289	493	0	8.69	0.00	8.69
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-12	-12	0	30	0.00	0.32	-0.32
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-52	31	145	88	0.86	0.00	0.86
400 KV Barh -GKP (D/C)	256	396	602	0	4.47	0.00	4.47
400 kV B Sharif - Varanasi (D/C)	17	81	217	75	2.19	0.00	2.19
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2265	3029			64.58	0.32	64.26
+/- 800 KV HVDC BiswanathChariali-Agra	500	1000	1000	0.00	20.60	0.00	20.60
Sub Total NER	500	1000			20.60	0.00	20.60
Total IR Exch	8756	9263			209.96	7.06	202.89

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
43.63	3.72	47.35	5.77	4.96	-6.76	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
46.37	154.98	201.35	84.86	118.04	202.89	38.49	-36.94	1.54

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	-28	-27	0	29	0	1	-0.62

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	0.91	8.99	55.46	77.56	11.83	1.66	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)	
50.16	13.02	49.75	21.49	49.99	0.041	0.062	50.10	49.82	22.44

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	405	12:56	403	0:00	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	7:37	392	20:02	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	415	7:36	388	19:52	0.0	1.4	0.0	0.0	0.0
Kanpur	400	415	17:17	398	19:50	0.0	0.0	0.0	0.0	0.0
Dadri	400	410	5:04	391	14:19	0.1	0.1	0.0	0.0	0.1
Ballabgarh	400	413	7:39	389	14:18	0.0	0.7	0.0	0.0	0.0
Bawana	400	406	6:02	388	14:20	0.0	3.0	0.0	0.0	0.0
Bassi	400	422	18:01	398	19:55	0.0	0.0	0.9	0.0	0.9
Hissar	400	408	8:02	390	14:19	0.0	0.0	0.0	0.0	0.0
Moga	400	404	8:00	391	14:19	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	402	5:24	388	13:39	0.0	7.9	0.0	0.0	0.0
Nalagarh	400	406	2:41	394	14:13	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	408	2:04	399	20:10	0.0	0.0	0.0	0.0	0.0
Wagoora	400	405	2:21	386	20:48	0.0	5.6	0.0	0.0	0.0
Amritsar	400	405	6:03	208	16:36	0.1	0.1	0.0	0.0	0.1
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	404	2:42	393	14:13	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	8:02	384	15:43	0.0	6.6	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	780	7:36	740	19:52	0.0	0.9	0.0	0.0	0.0
Balia	765	792	7:46	749	20:01	0.0	0.0	0.0	0.0	0.0
Moga	765	779	8:02	749	14:19	0.0	0.0	0.0	0.0	0.0
Agra	765	791	7:48	751	19:55	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	792	7:48	759	19:47	0.0	0.0	0.0	0.0	0.0

Unnao	765	780	7:45	739	19:55	0.0	2.3	0.0	0.0	0.0
Lucknow	765	795	7:46	747	19:55	0.0	0.0	0.0	0.0	0.0
Meerut	765	794	8:02	753	14:20	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	792	7:46	755	20:25	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	795	7:47	744	19:52	0.0	0.0	0.0	0.0	0.0
Anta	765	792	18:03	761	20:14	0.0	0.0	0.0	0.0	0.0
Phagi	765	796	18:02	758	20:12	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	492.65	817.99	485.17	593.99	1687.63	679.29
Pong	426.72	384.05	407.93	425.81	399.52	209.93	1309.43	211.39
Tehri	829.79	740.04	791.30	472.57	783.60	371.99	813.22	502.00
Koteswar	612.50	598.50	610.05	4.59	609.20	4.21	502.00	484.14
Chamera-I	760.00	748.75	757.59	0.00	0.00	0.00	436.74	352.38
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	521.32	10.82	505.73	6.92	437.24	425.51

* 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	1773	0	0	1428	0	0	45.21	0.16	45.37
Delhi	730	-227	0	565	-71	0	16.80	-1.69	15.11
Haryana	903	387	0	836	43	0	20.41	5.90	26.31
HP	-1705	-165	0	-1518	-376	0	-35.40	-5.63	-41.04
J&K	-786	-493	0	-786	-106	0	-18.86	-6.88	-25.74
CHD	0	-10	0	0	0	0	0.00	0.02	0.02
Rajasthan	-207	-525	0	-207	-147	0	-4.98	3.32	-1.66
UP	386	1373	0	224	1185	0	4.56	8.88	13.43
Uttarakhand	-397	27	0	-265	2	0	-8.08	0.97	-7.11
Total	697	367	0	278	530	0	19.66	5.04	24.70

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	2265	1428	54	0	0	0
Delhi	850	540	69	-397	0	0
Haryana	910	836	466	33	0	0
HP	-1301	-1731	-71	-433	0	0
J&K	-786	-786	-56	-493	0	0
CHD	0	0	44	-50	0	0
Rajasthan	-207	-209	374	-730	0	0
UP	437	78	1373	-82	0	0
Uttarakhand	-265	-417	100	-55	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	2.43%

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

WR	0.00%
ER	0.00%
Simultaneous	20.49%

(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	14
Haryana	1	17
Rajasthan	3	15
Delhi	2	18
UP	0	7
Uttarakhand	2	15
HP	5	60
J & K	2	22
Chandigarh	3	31

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 26.07.2017 :

XVI. Synchronisation of new generating units :

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

1. 200MVA, 400/132/33KV ICT-3 at Agra(South),UP first time charged from 400KV side on No-Load at 14:42Hrs on 26.07.2017

2. 765KV Mainpuri-G.Noida line along with Line Reactor (3x80MVAR) at G.Noida charged at 16:25Hrs from Mainpuri end & Synchronised from G.Noida end at 16:29Hrs on 26.07.2017

3. 400KV Mainpuri(UP)-Mainpuri(PG) line 2 charged at 12:38Hrs and synchronized at 12:55Hrs

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 : 26.07.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER