

	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	560	660	14.82	618
	Talwandi Saboo (3*660)	1980	0	0	0.00	0
	Thermal (Total)	6560	1456	1704	35.36	1473
	Total Hydro	1000	562	545	13.53	564
	Wind Power	0	0	0	0.00	0
	Biomass	288	10	10	0.25	10
	Solar	560	0	0	0.09	4
	Renewable(Total)	848	10	10	0.34	14
	Total Punjab	8408	2028	2259	49.23	2051
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	224	224	4.91	205
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	753	904	19.21	800
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	489	616	11.28	470
	Thermal (Total)	4497	1466	1744	35.40	1475
	Total Hydro	62	15	27	0.48	20
	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	1481	1771	35.88	1495
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	333	298	7.83
suratgarh TPS (6*250)		1500	181	183	4.62	193
Chabra TPS (4*250)		1000	777	833	19.92	830
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	191	191	4.72	197
RAPS A (NPC) (1*100+1*200)		300	0	0	0.00	0
Barsingsar (NLC) (2*125)		250	191	204	4.63	193
Giral LTPS (2*125)		250	0	0	0.00	0
Rajwest LTPS (IPP) (8*135)		1080	522	685	14.29	595
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	849	860	21.97	916
Kawai(Adani) (2*660)		1320	456	618	13.46	561
Thermal (Total)		9536	3500	3872	91.44	3810
Total Hydro		550	0	0	0.00	0
Wind power		4017	804	1317	21.51	896
Biomass		99	26	26	0.63	26
Solar		1295	0	0	2.01	84
Renewable/Others (Total)		5411	830	1343	24.15	1006
Total Rajasthan		15497	4330	5215	115.59	4816
UP	Anpara TPS (3*210+2*500)	1630	1386	1375	31.64	1318
	Obra TPS (2*50+2*94+5*200)	1194	689	622	15.70	654
	Paricha TPS (2*110+2*220+2*250)	1160	908	907	20.30	846
	Panki TPS (2*105)	210	160	144	3.50	146
	Harduaganj TPS (1*60+1*105+2*250)	665	544	543	12.00	500
	Tanda TPS (NTPC) (4*110)	440	285	287	6.64	277
	Roza TPS (IPP) (4*300)	1200	1098	1116	24.87	1036
	Anpara-C (IPP) (2*600)	1200	783	815	18.70	779
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	405	349	8.13	339
	Anpara-D(2*500)	1000	427	432	10.09	420
	Lalitpur TPS(3*660)	1980	0	590	9.61	401
	Bara(2*660)	1320	432	583	11.68	487
	Thermal (Total)	12449	7117	7763	172.86	7202
	Vishnuparyag HPS (IPP)(4*110)	440	217	218	5.24	218
	Alaknanda(4*82.5)	330	85	84	2.03	84
	Other Hydro	527	138	177	3.23	135
	Cogeneration	981	400	400	9.60	400
	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	7957	8642	192.96	8040
	Uttarakhand	Other Hydro	1250	647	546	12.95
Total Gas		225	284	292	6.74	281
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.54	23
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		327	0	0	0.54	23
Total Uttarakhand	1802	931	838	20.23	843	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	71	71	1.81	76
	Pragati Gas Turbine (2x104+ 1x122)	330	152	155	3.78	157
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	250	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	315	335	6.84	285
	Thermal (Total)	2917	790	811	18.45	769
	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	790	811	18.45	769	
HP	Baspa HPS (IPP) (3*100)	300	147	137	3.06	127
	Malana HPS (IPP) (2*43)	86	55	16	0.64	27
	Other Hydro (>25MW)	372	254	172	5.26	219
	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	201	162	4.40	183
	Renewable(Total)	486	201	162	4.40	183
	Total HP	1244	657	487	13.35	556
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	592	738	15.37	641
	Other Hydro/IPP(including 98 MW Small Hydro)	308	94	66	1.84	77
	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	686	804	17	717
Total State Control Area Generation	50738	18861	20827	462.89	19287
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		9610	10704	199.67	8320
Total Regional Availability(Gross)	76635	47435	44690	1016.57	42357

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9803	4046	152.79	6366
State Control Area Hydro	7163	3291	3180	68.02	3137
Total Regional Hydro	19397	13094	7226	220.81	9504

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.14	6
State Control Area Renewable	7356	1041	1515	29.43	1226
Total Regional Renewable	7386	1041	1515	29.57	1232

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-300	-300	0	300	0.00	7.37	-7.37
765 KV Gwalior-Agra (D/C)	2702	2806	2891	0	52.30	0.00	52.30
400 KV Zerda-Kankroli	-14	-214	0	346	0.00	4.62	-4.62
400 KV Zerda-Bhinmal	1	0	64	275	0.00	3.94	-3.94
220 KV Auraiya-Malanpur	-34	-18	0	73	0.00	0.69	-0.69
220 KV Badod-Kota/Morak	106	41	75	40	1.05	0.00	1.05
Mundra-Mohindergarh(HVDC Bipole)	2200	2500	2506	0	51.53	0.00	51.53
400 KV RAPP-C-Sujalpur	331	114	450	0	4.48	0.00	4.48
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1002	1311	661	0	24.16	0.00	24.16
+/- 800 kV HVDC Champa-Kurushetra	1500	1500	1500	0	32.73	0	32.73
Sub Total WR	7494	7740			166.24	16.62	149.63
400 kV Sasaram - Varanasi	105	109	122	0	2.69	0.00	2.69
400 kV Sasaram - Allahabad	135	133	155	0	1.77	0.00	1.77
400 KV MZP- GKP (D/C)	223	487	515	0	7.49	0.00	7.49
400 KV Patna-Balia(D/C) X 2	714	850	870	0	17.90	0.00	17.90
400 KV B'Sharif-Balia (D/C)	127	275	286	0	4.26	0.00	4.26
765 KV Gaya-Balia	295	368	388	0	6.02	0.00	6.02
765 KV Gaya-Varanasi (D/C)	449	646	672	0	10.48	0.00	10.48
220 KV Pusaui-Sahupuri	223	221	229	0	4.30	0.00	4.30
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.48	-0.48
132 KV Son Ngr-Rihand	-30	-27	0	38	0.00	0.65	-0.65
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-142	-27	40	241	0.00	1.19	-1.19
400 KV Barh -GKP (D/C)	524	582	582	0	11.60	0.00	11.60
400 kV B'Sharif - Varanasi (D/C)	-7	-153	58	171	0.00	1.80	-1.80
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2616	3464			66.52	4.11	62.41
+/- 800 KV HVDC BiswanathCharialli-Agra	-500	-500	0	500.00	0.00	12.36	-12.36
Sub Total NER	-500	-500			0.00	12.36	-12.36
Total IR Exch	9610	10704			232.76	33.09	199.67

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
51.18	0.75	51.93	-0.12	1.51	3.71	11.18	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
55.53	148.77	204.30	50.04	149.63	199.67	-5.48	0.86	-4.63

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-29	-29	0	31	0	1	-0.67

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	0.24	11.45	62.50	74.94	11.12	2.80	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	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.16	18.31	49.77	14.22	49.98	0.046	0.065	50.10	49.82	25.06

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	5:02	397	22:17	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	6:17	392	19:22	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	417	6:18	394	0:05	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	6:32	399	0:07	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	6:03	399	22:15	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	417	6:18	398	22:11	0.0	0.0	0.0	0.0	0.0
Bawana	400	416	6:03	398	0:03	0.0	0.0	0.0	0.0	0.0
Bassi	400	422	18:03	394	22:15	0.0	0.0	0.9	0.0	0.9
Hissar	400	411	7:11	394	0:07	0.0	0.0	0.0	0.0	0.0
Moga	400	415	13:03	402	0:07	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	414	7:13	399	0:05	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	415	6:10	407	0:10	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	414	9:02	398	19:47	0.0	0.0	0.0	0.0	0.0
Wagoora	400	401	8:59	374	19:49	15.1	46.0	0.0	0.0	15.1
Amritsar	400	422	13:02	408	0:02	0.0	0.0	1.9	0.0	1.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	414	13:02	404	0:06	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)	Voltage
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Station	Voltage Level (kV)	Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	% Deviat
Fatehpur	765	784	6:32	753	22:16	0.0	0.0	0.0	0.0	0.0
Balia	765	790	6:34	754	19:24	0.0	0.0	0.0	0.0	0.0
Moga	765	791	7:02	765	0:08	0.0	0.0	0.0	0.0	0.0
Agra	765	794	18:31	753	22:16	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	797	6:05	766	0:04	0.0	0.0	0.0	0.0	0.0
Unnao	765	771	5:16	743	22:32	0.0	0.0	0.0	0.0	0.0
Lucknow	765	800	7:03	749	22:32	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	6:18	763	0:05	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	797	6:15	763	0:05	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	797	7:02	751	22:34	0.0	0.0	0.0	0.0	0.0
Anta	765	793	17:52	766	22:14	0.0	0.0	0.0	0.0	0.0
Phagi	765	797	18:05	758	23:56	1.3	1.3	0.0	0.0	1.3

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	470.85	282.71	475.68	368.17	515.96	449.53
Pong	426.72	384.05	396.60	157.67	394.46	116.59	64.17	117.09
Tehri	829.79	740.04	752.95	70.05	741.35	4.65	87.22	196.00
Koteshwar	612.50	598.50	610.88	4.95	607.35	2.88	196.00	191.90
Chamera-I	760.00	748.75	752.20	0.00	0.00	0.00	210.33	197.13
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	516.17	7.40	498.26	2.72	315.91	283.17

* 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	113	1057	0	486	0	0	3.80	15.99	19.78
Delhi	-242	101	0	-257	-42	0	-4.94	3.44	-1.50
Haryana	149	245	0	149	213	0	0.57	3.08	3.65
HP	-62	-154	0	-294	-619	0	-2.73	-8.55	-11.28
J&K	-163	-300	0	-163	-179	0	-3.90	-6.70	-10.60
CHD	0	10	0	0	0	0	0.00	0.36	0.36
Rajasthan	-8	-66	0	-8	-27	0	-0.19	4.05	3.85
UP	811	1008	0	1138	1073	0	9.37	10.38	19.74
Uttarakhand	104	1	0	-121	83	0	2.16	0.37	2.53
Total	701	1901	0	930	502	0	4.13	22.42	26.55

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	488	-48	1498	0	0	0
Delhi	-87	-272	602	-238	0	0
Haryana	149	-452	297	-461	0	0
HP	-36	-437	-154	-834	0	0
J&K	-163	-163	-129	-510	0	0
CHD	0	0	70	0	0	0
Rajasthan	-8	-8	399	-508	0	0
UP	1138	40	1986	-68	0	0
Uttarakhand	269	-274	166	-247	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	0	10
Haryana	1	15
Rajasthan	3	25
Delhi	3	22
UP	0	9
Uttarakhand	4	36
HP	3	17
J & K	3	26
Chandigarh	5	42

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 29.04.2017 :

XVI. Synchronisation of new generating units :

1. 500MVA ICT first time loaded at Azamgarh(UP) @ 13:32Hrs on 29.04.2017

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

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 : 29.04.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER