

Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	0.13	5
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	85	0.62	26
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	251	251	5.36	223
	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	660	660	15.79	658
	Talwandi Saboo (3*660)	1980	1725	1725	40.85	1702
	Thermal (Total)	6560	2636	2721	62.75	2615
	Total Hydro	1000	769	676	18.43	768
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	0.15	6
	Solar	859	0	0	0.08	3
	Renewable(Total)	1162	0	0	0.23	10
	Total Punjab	8722	3405	3397	81.41	3392
	Haryana	Panipat TPS (2*210+2*250)	920	417	199	6.16
DCRTPP (Yamuna nagar) (2*300)		600	551	471	12.00	500
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (khardar) (IPP) (2*600)		1200	0	0	0.00	0
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	586	810	18.62	776
Thermal (Total)		4497	1554	1480	36.77	1532
Total Hydro		62	33	36	0.85	35
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	1587	1516	37.62	1568
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	582	731	15.86
	suratgarh TPS (6*250)	1500	661	677	15.80	658
	Chabra TPS (4*250)	1000	678	653	16.09	670
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	86	87	2.14	89
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	186	186	4.52	188
	RAPS A (NPC) (1*100+1*200)	300	157	0	3.85	160
	Barsingar (NLC) (2*125)	250	221	221	5.12	213
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	834	835	19.78	824
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1128	1128	26.80	1117
	Kawai(Adani) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	9536	4533	4518	109.94	4581
	Total Hydro	550	89	63	1.59	66
	Wind power	4292	201	942	11.05	460
	Biomass	102	19	19	0.46	19
	Solar	1995	0	0	0.39	16
	Renewable/Others (Total)	6389	220	961	11.89	496
Total Rajasthan	16475	4842	5542	123.42	5142	
UP	Anpara TPS (3*210+2*500)	1630	1241	1185	29.49	1229
	Obra TPS (2*50+2*94+5*200)	1194	400	406	9.80	408
	Paricha TPS (2*110+2*220+2*250)	1160	590	580	13.90	579
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	436	437	10.10	421
	Tanda TPS (NTPC) (4*110)	440	379	385	9.00	375
	Roza TPS (IPP) (4*300)	1200	751	764	17.70	737
	Anpara-C (IPP) (2*600)	1200	1086	1032	24.90	1038
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	472	449	10.81	450
	Lalitpur TPS(3*660)	1980	1234	753	21.91	913
	Bara(2*660)	1320	1209	1172	28.67	1194
	Thermal (Total)	12449	7798	7163	176.28	7345
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.45	435
	Alakanada(4*82.5)	330	255	345	7.92	330
	Other Hydro	527	228	270	5.75	240
	Cogeneration	981	50	50	1.20	50
	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	8766	8263	201.60	8400	
Uttarakhand	Other Hydro	1250	937	933	22.48	937
	Total Gas	450	277	284	6.76	282
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.59	25
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.59	25
	Total Uttarakhand	2107	1214	1217	29.84	1243
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	106	67	2.03	85
	Pragati Gas Turbine (2x104+ 1x122)	330	305	259	0.00	0
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	195	-6	1.75	73
	Badarpur TPS (NTPC) (3*95+2*210)	705	333	164	5.83	243
	Thermal (Total)	2917	940	485	9.61	400
	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	940	485	9.61	400	
HP	Baspa HPS (IPP) (3*100)	300	183	183	4.43	185
	Malana HPS (IPP) (2*43)	86	91	40	1.13	47
	Other Hydro (>25MW)	372	353	336	7.82	326
	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	267	331	7.57	315
Renewable(Total)	486	267	331	7.57	315	
Total HP	1244	893	890	20.95	873	
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	588	440	11.04	460
	Other Hydro/IPP(including 98 MW Small Hydro)	308	518	250	2.40	100
	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	1106	690	13	560
Total State Control Area Generation	52451	22753	21999	517.88	21578
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5954	7637	189.84	7910
Total Regional Availability(Gross)	78288	50198	44629	1097.58	45733

IV. Total Hydro Generation:

Regional Entities Hydro	12234	11058	4661	160.37	6646
State Control Area Hydro	7468	5022	4622	94.29	4551
Total Regional Hydro	19702	16081	9283	254.66	11197

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.11	5
State Control Area Renewable	8844	487	1292	20.29	845
Total Regional Renewable	8874	487	1292	20.40	850

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	-500	0	500	0.00	11.12	-11.12
765 KV Gwalior-Agra (D/C)	1563	2284	2478	0	48.57	0.00	48.57
400 KV Zerda-Kankroli	-47	-43	0	163	0.00	1.24	-1.24
400 KV Zerda-Bhinmal	33	-53	97	125	0.00	0.40	-0.40
220 KV Auraiya-Malanpur	-128	-64	0	153	0.00	1.96	-1.96
220 KV Badod-Kota/Morak	-16	49	129	21	0.85	0.00	0.85
Mundra-Mohindergarh(HVDC Bipole)	1499	1402	1504	0	33.93	0.00	33.93
400 KV RAPP- Sujalpur	161	173	278	0	4.80	0.00	4.80
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	883	1198	1434	0	27.30	0.00	27.30
+/- 800 kV HVDC Champa-Kurushetra	1000	1000	3000	0	19.41	0	19.41
Sub Total WR	4448	5446			134.85	14.72	120.13
400 kV Sasaram - Varanasi	202	186	203	0	4.60	0.00	4.60
400 kV Sasaram - Allahabad	37	54	75	0	1.31	0.00	1.31
400 KV MZP- GKP (D/C)	256	400	625	0	10.49	0.00	10.49
400 KV Patna-Balia(D/C) X 2	458	634	883	0	15.96	0.00	15.96
400 KV B'Sharif-Balia (D/C)	44	95	231	0	3.34	0.00	3.34
765 KV Gaya-Balia	173	275	322	0	5.78	0.00	5.78
765 KV Gaya-Varanasi (D/C)	6	156	407	0	4.95	0.00	4.95
220 KV Pusauli-Sahupuri	-236	-236	225	0	5.45	0.00	5.45
132 KV K'nasa-Sahupuri	0	0	1	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.77	-0.77
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-277	-264	0	288	0.00	4.29	-4.29
400 KV Barh -GKP (D/C)	-220	-194	0	220	0.00	3.96	-3.96
400 kV B'Sharif - Varanasi (D/C)	163	85	176	64	1.14	0.00	1.14
+/- 800 KV HVDC Alipurduar-Agra	400	300	600	0	12.85	0.00	12.85
Sub Total ER	1006	1491			65.87	9.01	56.85
+/- 800 KV HVDC BiswanathCharialli-Agra	500	700	700	0.00	12.86	0.00	12.86
Sub Total NER	500	700			12.86	0.00	12.86
Total IR Exch	5954	7637			213.57	23.74	189.84

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
43.09	2.94	46.02	14.86	14.37	-24.29	-7.24	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
36.60	154.91	191.50	69.71	120.13	189.84	33.11	-34.78	-1.66

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	-24	-11	0	24	0	0	-0.34

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	6.84	63.82	85.63	7.08	0.51	0.00	0.00

Frequency (Hz)				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time	Hz	Index				
50.15	13.02	49.82	0.09	49.98	0.032	0.052	50.05	49.89	14.37

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	402	8:08	396	12:32	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	409	8:04	392	21:00	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	417	7:59	403	11:44	0.0	0.0	0.0	0.0	0.0
Kanpur	400	415	3:57	403	12:40	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	3:35	397	11:47	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	418	3:59	396	12:09	0.0	0.0	0.0	0.0	0.0
Bawana	400	412	3:27	397	11:51	0.0	0.0	0.0	0.0	0.0
Bassi	400	418	4:02	400	12:40	0.0	0.0	0.0	0.0	0.0
Hissar	400	412	3:31	395	12:09	0.0	0.0	0.0	0.0	0.0
Moga	400	414	4:00	397	12:07	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	418	2:42	404	15:00	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	421	3:09	407	12:09	0.0	0.0	2.0	0.0	2.0
Kishenpur	400	419	3:58	399	10:57	0.0	0.0	0.0	0.0	0.0
Wagoora	400	412	3:25	379	10:57	0.5	57.3	0.0	0.0	0.5
Amritsar	400	419	3:55	402	12:08	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	3:00	400	11:54	0.0	0.0	0.0	0.0	0.0

Rishikesh	400	412	6:08	398	12:41	0.0	0.0	0.0	0.0	0.0
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VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	778	4:01	750	12:49	0.0	0.0	0.0	0.0	0.0
Balia	765	783	7:59	761	19:15	0.0	0.0	0.0	0.0	0.0
Moga	765	792	4:01	761	12:08	0.0	0.0	0.0	0.0	0.0
Agra	765	791	4:02	764	12:40	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	796	3:49	768	12:08	0.0	0.0	0.0	0.0	0.0
Unnao	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Lucknow	765	787	8:00	763	12:40	0.0	0.0	0.0	0.0	0.0
Meerut	765	801	4:01	768	12:10	0.0	0.0	0.2	0.0	0.2
Jhatikara	765	796	4:01	768	12:40	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	800	7:59	774	12:40	0.0	0.0	0.0	0.0	0.0
Anta	765	784	3:56	766	11:53	0.0	0.0	0.0	0.0	0.0
Phagi	765	795	4:05	767	12:10	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)	nflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	508.84	1485.27	502.93	1219.07	569.56	602.64
Pong	426.72	384.05	420.84	931.43	416.76	743.22	209.77	437.21
Tehri	829.79	740.04	824.65	1100.54	824.45	1096.31	193.26	173.00
Koteshwar	612.50	598.50	610.89	5.00	610.08	4.44	173.00	169.53
Chamera-I	760.00	748.75	754.00	0.00	0.00	0.00	140.84	153.16
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	519.63	7.13	518.47	6.48	186.05	276.93

* 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 (MU)	PXIL (MU)	Total (MU)
Punjab	802	-455	0	428	-354	0	21.11	-10.47		10.64
Delhi	303	-332	0	310	-191	0	8.34	-5.28		3.06
Haryana	550	110	0	580	5	0	9.97	0.07		10.03
HP	-558	-141	0	-331	-950	0	-10.06	-10.33		-20.39
J&K	-503	64	0	-503	229	0	-12.07	5.92		-6.15
CHD	0	0	0	0	-60	0	0.00	-0.35		-0.35
Rajasthan	-8	-22	0	-8	-16	0	-0.18	1.36		1.18
UP	922	-32	0	727	-70	0	17.21	-1.37		15.84
Uttarakhand	-61	-81	0	-161	-46	0	-1.96	-1.40		-3.36
Total	1447	-887	0	1043	-1453	0	32.37	-21.86		10.51

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1168	428	-152	-960	0	0
Delhi	701	116	-11	-485	0	0
Haryana	582	292	112	-343	0	0
HP	-327	-598	-131	-1076	0	0
J&K	-503	-503	479	-116	0	0
CHD	0	0	39	-70	0	0
Rajasthan	-8	-8	492	-35	0	0
UP	1089	407	-27	-74	0	0
Uttarakhand	-59	-162	8	-260	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	12
Haryana	1	17
Rajasthan	4	23
Delhi	2	21
UP	1	13
Uttarakhand	5	29
HP	3	48
J & K	5	37
Chandigarh	6	51

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 27.09.2017 :

XVI. Synchronisation of new generating units :

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

1. 400 KV Ataur-Hapur ckt-1 first time charged at 12.07 hrs and at Atur 400 KV Bus-1 charged at 12.10 hrs on 27.09.2017 at 13.36 hrs on 27.09.2017
2. 400 KV Atatur-Hapur ckt-2 first time charged at 13.33 hrs and Atur 400 KV Bus-2 charged at 13.36 hrs on 27.09.2017
3. 500 MVA ICT-1 First time charged at Ataur(UP) from HV side on No load at 17.31 hrs on 27.09.2017

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 : 27.09.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER