

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average S entout MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	520	870	15.85	661	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	95	90	2.02	84	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	551	552	11.89	496	
	Goindwal(GVK) (2*270)	540	0	0	0.00	0	
	Rajpura (2*700)	1400	660	330	15.90	662	
	Talwandi Saboo (3*660)	1980	716	616	15.69	654	
	Thermal (Total)	6560	2542	2458	61.35	2556	
	Total Hydro	1000	744	783	18.41	767	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	0.16	7	
	Solar	859	0	0	0.07	3	
	Renewable(Total)	1162	0	0	0.24	10	
	Total Punjab	8722	3286	3241	80.00	3333	
	Haryana	Paripat TPS (2*210+2*250)	920	0	0	0.00	0
		DCRTPP (Yamuna nagar) (2*300)	600	0	343	1.37	57
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	803	740	19.44	810	
Thermal (Total)		4497	803	1083	20.81	867	
Total Hydro		62	36	36	0.87	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	839	1119	21.68	903	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1100	900	22.09	921
		suratgarh TPS (6*250)	1500	654	534	13.07	545
	Chabra TPS (4*250)	1000	455	388	9.70	404	
	Chabra TPS (1*660)	660	0	0	0.00	0	
	Dholpur GPS (3*110)	330	86	86	2.13	89	
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	152	181	3.99	166	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	221	216	5.19	216	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	810	459	15.37	640	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	531	828	19.29	804	
	Kawai(Adani) (2*660)	1320	0	605	2.87	119	
	Thermal (Total)	9536	4009	4197	93.70	3904	
	Total Hydro	550	45	89	1.61	67	
	Wind power	4292	497	954	18.44	768	
	Biomass	102	20	50	0.48	20	
	Solar	1995	1	0	3.22	134	
	Renewable/Others (Total)	6389	518	1004	22.14	922	
	Total Rajasthan	16475	4572	5290	117.44	4894	
UP	Anpara TPS (3*210+2*500)	1630	1059	801	21.90	913	
	Obra TPS (2*50+2*94+5*200)	1194	405	357	8.70	363	
	Paricha TPS (2*110+2*220+2*250)	1160	647	584	14.50	604	
	Panki TPS (2*105)	210	113	126	3.00	125	
	Harduaqani TPS (1*60+1*105+2*250)	665	321	140	5.70	238	
	Tanda TPS (NTPC) (4*110)	440	272	253	6.25	260	
	Roza TPS (IPP) (4*300)	1200	742	664	17.00	708	
	Anpara-C (IPP) (2*600)	1200	741	669	16.90	704	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	339	270	7.20	300	
	Lalitpur TPS(3*660)	1980	753	688	17.30	721	
	Bara(2*660)	1320	743	733	17.70	738	
	Thermal (Total)	12449	6135	5285	136.15	5673	
	Vishnuparvayq_HPS (IPP)(4*110)	440	435	284	10.10	421	
	Alakanada(4*82.5)	330	342	250	7.80	325	
	Other Hydro	527	161	212	4.00	167	
	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	7123	6081	159.25	6635		
Uttarakhand	Other Hydro	1250	881	849	20.96	873	
	Total Gas	450	239	244	6.07	253	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.01	0	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.01	0	
Total Uttarakhand	2107	1120	1093	27.04	1127		
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	75	45	1.01	42	
	Pragati Gas Turbine (2x104+ 1x122)	330	150	265	4.89	204	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	250	6.05	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.64	318	
	Thermal (Total)	2917	805	890	19.59	816	
	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	805	890	19.59	816		

HP	Baspa HPS (IPP) (3*100)	300	302	222	5.48	228
	Malana HPS (IPP) (2*43)	86	90	37	1.42	59
	Other Hydro (>25MW)	372	386	306	8.34	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	223	185	5.50	229
	Renewable(Total)	486	223	185	5.50	229
	Total HP	1244	1001	750	20.74	864
	Total J & K	1398	740	687	17	709
Total State Control Area Generation		52451	19486	19151	462.75	19281
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6389	7691.35	7691.35	160.64	6693
Total Regional Availability(Gross)		78288	46944	39005	964.50	40187

IV. Total Hydro Generation:

Regional Entities Hydro	12234	11586	4737	170.30	7096
State Control Area Hydro	7468	4624	4184	96.00	4483
Total Regional Hydro	19702	16210	8921	266.30	11579

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.00	0
State Control Area Renewable	8844	741	1189	27.89	1162
Total Regional Renewable	8874	741	1189	27.89	1162

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	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-500	-500	0	0	0	500	0.00	11.48	-11.48
765 KV Gwalior-Agra (D/C)	2145	2208	2450	0	0	44.07	0.00	44.07	
400 KV Zerda-Kankroli	54	3	55	220	0.00	1.06	0.00	-1.06	
400 KV Zerda-Bhimnal	71	0	103	210	0.00	0.08	0.00	-0.08	
220 KV Auraja-Malanpur	-9	10	0	80	0.00	0.04	0.00	-0.04	
220 KV Badod-Kota/Morak	88	145	181	0	2.50	0.00	2.50		
Mundra-Mohindergarh(HVDC Bipole)	499	999	1003	0	16.07	0.00	16.07		
400 KV RAPPCC-Sujalpur	258	290	314	0	5.56	0.00	5.56		
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00		
765 kV Phagi-Gwalior (D/C)	1312	1361	1361	0	25.53	0.00	25.53		
+/- 800 kV HVDC Champa-Kurushetra	500	500	1000	0	11.08	0	11.08		
Sub Total WR	4418	5016			104.80	12.66	92.14		
400 kV Sasaram - Varanasi	-196	-159	196	0	4.25	0.00	4.25		
400 kV Sasaram - Allahabad	-39	-86	90	0	1.55	0.00	1.55		
400 KV MZP- GKP (D/C)	342	522	582	0	10.60	0.00	10.60		
400 KV Patna-Balia(D/C) X 2	435	1090	1090	0	19.56	0.00	19.56		
400 KV B'Sharif-Balia (D/C)	148	167	195	0	3.60	0.00	3.60		
765 KV Gaya-Balia	279	211	285	0	4.18	0.00	4.18		
765 KV Gaya-Varanasi (D/C)	160	385	385	0	4.85	0.00	4.85		
220 KV Pusauli-Sahupuri	236	223	245	0	5.25	0.00	5.25		
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
132 KV Son Ngr-Rihand	-27	-34	0	36	0.00	0.73	-0.73		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-240	-128	0	249	0.00	3.73	-3.73		
400 KV Barh -GKP (D/C)	-220	-208	0	220	0.00	4.00	-4.00		
400 kV B'Sharif - Varanasi (D/C)	93	-108	146	108	0.00	0.70	-0.70		
+/- 800 KV HVDC Alipurduar-Agra	300	300	700	0	11.90	0.00	11.90		
Sub Total ER	1271	2175			65.74	9.16	56.58		
+/- 800 KV HVDC BiswanathChariali-Agra	700	500	700	0.00	11.91	0.00	11.91		
Sub Total NER	700	500			11.91	0.00	11.91		
Total IR Exch	6389	7691			182.45	21.81	160.64		

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
25.31	3.68	28.99	18.37	10.45	-2.39	3.50	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
44.97	142.30	187.27	68.50	92.14	160.64	23.53	-50.15	-26.63

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	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-22	0	0	22	0	0	0	-0.29	

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	0.39	1.03	6.79	52.45	80.13	12.28	1.37	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)	
50.18	13.01	49.61	18.26	49.99	0.039	0.062	50.10	49.73	19.87

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	405	1:08	398	19:35	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	6:00	391	19:36	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	3:44	398	19:13	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	1:11	400	19:09	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	3:44	400	19:12	0.0	0.0	1.0	0.0	1.0
Ballabgarh	400	425	3:44	401	19:10	0.0	0.0	23.2	0.0	23.2
Bawana	400	422	3:40	402	19:11	0.0	0.0	8.8	0.0	8.8
Bassi	400	423	4:01	404	13:41	0.0	0.0	0.8	0.0	0.8
Hissar	400	422	3:47	400	19:08	0.0	0.0	1.5	0.0	1.5
Moga	400	420	3:44	400	19:10	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	432	3:49	409	19:13	0.0	0.0	45.7	1.3	45.7
Nalagarh	400	429	3:44	410	19:06	0.0	0.0	34.4	0.0	34.4
Kishenpur	400	422	3:37	399	19:11	0.0	0.0	3.7	0.0	3.7
Wagoora	400	416	3:45	376	19:50	6.3	15.7	0.0	0.0	6.3
Amritsar	400	424	3:45	405	19:10	0.0	0.0	6.9	0.0	6.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	421	3:36	403	19:07	0.0	0.0	1.6	0.0	1.6
Rishikesh	400	423	3:50	400	19:12	0.0	0.0	13.7	0.0	13.7

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	776	0:47	741	19:17	0.0	0.0	0.0	0.0	0.0
Balia	765	781	1:43	745	19:37	0.0	0.0	0.0	0.0	0.0
Moga	765	802	1:42	760	19:12	0.0	0.0	1.6	0.0	1.6
Agra	765	791	3:56	760	12:36	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	4:00	772	19:14	0.0	0.0	11.7	0.0	11.7
Unnao	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	1:43	751	19:41	0.0	0.0	0.0	0.0	0.0
Meerut	765	810	3:46	770	19:10	0.0	0.0	32.7	0.0	32.7
Jhatikara	765	802	4:00	770	19:12	0.0	0.0	1.4	0.0	1.4
Bareilly 765 kV	765	798	3:48	759	19:19	0.0	0.0	0.0	0.0	0.0
Anta	765	794	4:08	775	19:10	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	3:59	771	19:15	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	508.46	1470.42	503.08	1232.31	631.01	603.46
Pong	426.72	384.05	420.82	931.43	417.15	768.49	337.06	345.47
Tehri	829.79	740.04	824.50	1097.37	824.65	1100.54	195.96	263.00
Koteshwar	612.50	598.50	611.69	5.30	610.02	4.56	263.00	243.63
Chamera-I	760.00	748.75	754.32	0.00	0.00	0.00	318.16	155.44
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	519.97	6.89	519.27	5.60	136.60	282.72

* 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	736	0	0	416	0	0	18.16	0.02	18.18
Delhi	500	-319	0	434	-383	0	9.20	-5.37	3.83
Haryana	550	35	0	571	13	0	10.40	0.72	11.13
HP	-589	19	0	-684	-635	0	-12.50	-4.18	-16.69
J&K	-503	247	0	-503	361	0	-12.07	8.97	-3.09
CHD	0	29	0	0	-50	0	0.00	0.41	0.41
Rajasthan	-8	95	0	-8	3	0	-0.18	2.37	2.19
UP	922	-74	0	1389	841	0	20.92	6.05	26.97
Uttarakhand	-63	21	0	-149	-65	0	-1.69	0.31	-1.38
Total	1547	54	0	1466	85	0	32.25	9.31	41.55

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	993	416	31	0	0	0
Delhi	726	86	-7	-509	0	0
Haryana	611	292	57	11	0	0
HP	-212	-941	257	-670	0	0
J&K	-503	-503	485	104	0	0
CHD	0	0	73	-60	0	0
Rajasthan	-8	-8	507	1	0	0
UP	1439	401	1305	-74	0	0
Uttarakhand	-48	-149	125	-148	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	2	25
Rajasthan	2	16
Delhi	4	36
UP	1	18
Uttarakhand	7	96
HP	6	54
J & K	5	38
Chandigarh	5	64

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 23.09.2017 :

XVI. Synchronisation of new generating units :

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 : 23.09.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER