

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	630	505	12.74	531
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	110	90	2.17	90
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	251	205	5.13	214
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1320	1320	31.55	1315
	Talwandi Saboo (3*660)	1980	1650	1841	41.90	1746
	Thermal (Total)	6560	3961	3961	93.46	3894
	Total Hydro	1000	780	671	17.61	734
	Total Punjab	7560	4741	4632	111.07	4628
	Haryana	Panipat TPS (2*210+2*250)	920	224	0	1.54
DCRTPP (Yamuna nagar) (2*300)		600	256	278	5.98	249
Faridabad GPS (NTPC)(2*137.75+1*156)		432	315	259	7.23	301
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	1044	744	21.50	896
Thermal (Total)		4497	1839	1281	36.25	1511
Total Hydro		62	42	25	0.76	32
Total Haryana		4559	1881	1306	37.02	1542
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	524	259	10.50
	suratgarh TPS (6*250)	1500	213	0	1.70	71
	Chabra TPS (4*250)	1000	885	833	20.70	863
	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	97	110	2.50	104
	RAPS A (NPC) (1*100+1*200)	300	165	165	4.10	171
	Barsingsar (NLC) (2*125)	250	226	226	5.30	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	830	810	19.80	825
	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	1223	1206	29.10	1213
	Thermal (Total)	8876	4163	3609	94	3904
	Total Hydro	550	89	45	1.50	63
	Wind power	3214	776	1372	28.20	1175
	Biomass	99	24	24	0.59	24
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	800	1396	28.79	1199
	Total Rajasthan	13469	5052	5050	123.99	5166
	UP	Anpara TPS (3*210+2*500)	1630	1069	1152	26.30
Obra TPS (2*50+2*94+5*200)		1194	344	355	8.30	346
Paricha TPS (2*110+2*220+2*250)		1160	851	905	19.50	813
Panki TPS (2*105)		210	140	140	3.40	142
Harduaganj TPS (1*60+1*105+2*250)		665	445	433	9.60	400
Tanda TPS (NTPC) (4*110)		440	360	350	8.54	356
Roza TPS (IPP) (4*300)		1200	1103	1107	25.80	1075
Anpara-C (IPP) (2*600)		1200	936	983	21.60	900
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	403	8.30	346
Anpara-D(2*500)		1000	245	227	5.50	229
Lalitpur TPS(3*660)		1980	426	505	10.00	417
Bara(2*660)		1320	576	593	13.90	579
Thermal (Total)		12449	6900	7153	161	6697
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438
Alaknanda(4*82.5)		330	304	337	8.00	333
Other Hydro		527	273	216	5.20	217
Cogeneration		981	50	50	1.20	50
Total UP	14727	7962	8191	186	7735	
Uttarakhand	Total Hydro	1398	830	791	19.19	800
	Total Gas	225	161	163	3.80	158
	Total Uttarakhand	1623	991	954	23	958
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	72	72	0.79	33
	Pragati Gas Turbine (2x104+ 1x122)	330	268	266	6.45	269
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	279	253	6.38	266
	Badarpur TPS (NTPC) (3*95+2*210)	705	327	329	7.13	297
	Thermal (Total)	2917	946	920	20.75	865
	Total Delhi	2917	946	920	20.75	865
HP	Baspa HPS (IPP) (3*100)	300	333	333	7.47	311
	Malana HPS (IPP) (2*43)	86	106	106	2.63	3
	Other Hydro	878	629	602	14.59	608
	Total HP	1264	1068	1041	24.69	922
J & K	Baqlihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733
	Other Hydro/IPP	560	184	185	4.38	182
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1500	917	918	21.97	915
Total State Control Area Generation		47619	23558	23013	548.11	22731
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8374	10069	207.90	8663
Total Regional Availability(Gross)		72856	53413	48986	1169.89	48639

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	12047	6994	207.69	8654
State Control Area Hydro		7106	4899	4642	109.42	4611
Total Regional Hydro		19340	16946	11636	317.11	13265

V(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)	50	300	300	0	3.91	0.00	3.91
765 KV Gwalior-Agra (D/C)	2377	2915	2915	0	57.12	0.00	57.12
400 KV Zerda-Kankroli	-82	-34	0	289	0.00	3.30	-3.30
400 KV Zerda-Bhinmal	-66	-35	8	241	0.00	2.70	-2.70
220 KV Auraiya-Malanpur	-91	-39	0	101	0.00	1.54	-1.54
220 KV Badod-Kota/Morak	54	164	170	25	1.74	0.00	1.74
Mundra-Mohindergarh(HVDC Bipole)	2503	2498	2507	0.00	60.46	0.00	60.46
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1008	1157	1173	0	24.82	0.00	24.82
Sub Total WR	5753	6926			148.05	7.53	140.52
Pusauli Bypass/HVDC	250	250	250	0	6.10	0.00	6.10
400 KV MZP- GKP (D/C)	262	560	578	0	11.11	0.00	11.11
400 KV Patna-Balia(D/C) X 2	342	229	385	0	6.17	0.00	6.17
400 KV B'Sharif-Balia (D/C)	107	241	257	0	4.53	0.00	4.53
765 KV Gaya-Balia	293	399	399	0	3.91	0.00	3.91
765 KV Gaya-Varanasi (D/C)	493	649	672	0	13.04	0.00	13.04
220 KV Pusauli-Sahupuri	0	0	196	0	0.83	0.00	0.83
132 KV K'nasa-Sahupuri	-28	0	0	32	0.00	0.43	-0.43
132 KV Son Ngr-Rihand	-22	-20	0	26	0.00	0.48	-0.48
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-153	-95	31	185	0.00	1.64	-1.64
400 KV Barh -GKP (D/C)	374	304	382	0	6.70	0.00	6.70
400 kV B'Sharif - Varanasi (D/C)	3	-74	126	71	1.43	0.00	1.43
Sub Total ER	1921	2443			53.81	2.55	51.27
+/- 800 KV BiswanathCharialli-Agra	700	700	700	0.00	16.11	0.00	16.11
Sub Total NER	700	700			16.11	0.00	16.11
Total IR Exch	8374	10069			217.98	10.08	207.90

V(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
46.71	3.77	50.48	36.10	12.37	1.32	15.37	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
87.90	127.38	215.28	67.38	140.52	207.90	-20.51	13.14	-7.38

V(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	-19	-11	0	27	0	0	-0.48

VI. 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	0.29	9.73	62.90	78.63	10.34	1.32	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	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.14	6.02	49.78	19.12	49.98	0.040	50.15	49.97	21.37	

VII. 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	410	6:58	402	23:03	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	6:56	398	22:16	0.0	0.0	2.5	0.0	2.5
Bareilly(PG)400kV	400	412	18:02	390	13:46	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	6:04	398	19:23	0.0	0.0	0.0	0.0	0.0
Dadri	400	413	6:00	389	14:21	0.0	0.4	0.0	0.0	0.0
Ballabgarh	400	423	6:02	396	13:49	0.0	0.0	6.2	0.0	6.2
Bawana	400	419	6:01	392	14:25	0.0	0.0	0.0	0.0	0.0
Bassi	400	421	6:01	395	11:22	0.0	0.0	0.1	0.0	0.1
Hissar	400	415	6:02	385	14:25	0.0	4.1	0.0	0.0	0.0
Moga	400	412	6:02	388	14:25	0.0	1.3	0.0	0.0	0.0
Abdullapur	400	418	6:06	390	13:54	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	416	6:06	388	14:25	0.0	2.3	0.0	0.0	0.0
Kishenpur	400	410	4:00	395	14:26	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	3:58	378	19:25	4.1	57.0	0.0	0.0	4.1
Amritsar	400	413	6:02	388	14:24	0.0	0.7	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	410	4:01	389	12:53	0.0	0.1	0.0	0.0	0.0
Rishikesh	400	412	7:03	381	13:46	0.0	18.3	0.0	0.0	0.0

VIII. 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	790	6:03	749	19:32	0.0	0.0	0.0	0.0	0.0
Balia	765	793	6:06	752	22:09	0.0	0.0	0.0	0.0	0.0
Moga	765	798	6:01	750	14:25	0.0	0.0	0.0	0.0	0.0
Agra	765	796	6:03	753	13:51	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	799	6:01	753	13:46	0.0	0.0	0.0	0.0	0.0
Unnao	765	781	6:56	734	22:12	0.0	32.5	0.0	0.0	0.0
Lucknow	765	794	6:56	751	0:14	0.0	0.0	0.0	0.0	0.0
Meerut	765	781	16:40	768	0:00	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	799	6:02	750	14:25	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	795	6:57	746	13:50	0.0	0.0	0.0	0.0	0.0
Anta	765	796	0:00	796	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	794	6:02	753	11:49	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	502.77	1205.87	511.50	1620.46	700.90	608.16
Pong	426.72	384.05	417.90	794.52	422.32	1005.78	320.21	437.72
Tehri	829.79	740.04	822.35	1050.00	819.95	1002.75	327.86	203.00
Koteswar	612.50	598.50	609.81	4.47	611.69	5.20	203.00	212.51
Chamera-I	760.00	748.75	752.78	0.00	0.00	0.00	225.73	199.34
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	521.53	6.39	515.73	12.00	240.80	265.67

* 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	836	497	0	666	936	0	21.35	17.74	39.09
Delhi	589	-309	0	684	-102	0	15.96	-1.66	14.30
Haryana	1968	401	13	1792	375	13	43.24	7.37	50.62
HP	-958	-342	0	-655	-915	0	-19.28	-11.21	-30.49
J&K	-547	-216	0	-547	-15	0	-13.73	-1.32	-15.05
CHD	0	0	0	0	-35	0	0.36	0.01	0.36
Rajasthan	-230	591	4	-128	343	4	-3.69	12.44	8.74
UP	1177	491	0	416	0	0	14.29	4.31	18.60
Uttarakhand	-166	3	0	-166	-22	0	-3.99	0.29	-3.70
Total	2668	1117	17	2060	564	18	54.52	27.96	82.48

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1086	604	1390	113	0	0
Delhi	748	543	383	-451	0	0
Haryana	2096	1603	431	-213	14	13
HP	-553	-1080	-289	-1033	0	0
J&K	-547	-618	85	-216	0	0
CHD	44	0	30	-35	0	0
Rajasthan	-128	-230	596	-43	4	4
UP	1198	355	590	0	0	0
Uttarakhand	-166	-166	126	-37	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	3.47%
ER	0.00%
Simultaneous	0.00%

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

WR	21.18%
ER	0.00%
Simultaneous	4.86%

(iii) %age of times Angular Difference on Important Buses was beyond permissible limits (40 deg.)

Rihand - Dadri	0.00%
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XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 08.09.2016 :

XV. Synchronisation of new generating units :

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

XVII. Tripping of lines in pooling stations :

XVIII. 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.