

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	320	510	9.02	376	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	180	3.27	136	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	203	384	6.27	261	
	Goindwal(GVK) (2*270)	540	235	220	5.37	224	
	Rajpura (2*700)	1400	660	1120	20.26	844	
	Talwandi Saboo (3*660)	1980	937	954	21.50	896	
	Thermal (Total)	6560	2445	3368	65.70	2737	
	Total Hydro	1000	789	605	17.04	710	
	Total Punjab	7560	3234	3973	82.74	3447	
	Haryana	Panipat TPS (2*210+2*250)	920	413	412	9.43	393
DCRTPP (Yamuna nagar) (2*300)		600	465	461	10.90	454	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	0	379	5.85	244	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	660	0	6.26	261	
Thermal (Total)		4497	1538	1252	32.45	1352	
Total Hydro		62	40	40	0.98	41	
Total Haryana		4559	1578	1292	33.43	1393	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	229	389	7.73	322
	suratgarh TPS (6*250)	1500	1	196	2.76	115	
	Chabra TPS (4*250)	1000	168	290	6.91	288	
	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	13	39	0.56	23	
	RAPS A (NPC) (1*100+1*200)	300	162	163	4.19	175	
	Barsingsar (NLC) (2*125)	250	114	99	2.77	115	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	445	0	7.51	313	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	436	495	9.78	408	
	Kawai(Adani) (2*660)	1320	906	1202	23.08	962	
	Thermal (Total)	8876	2474	2873	65	2721	
	Total Hydro	550	302	316	7.52	313	
	Wind power	3214	492	356	10.18	424	
	Biomass	99	23	23	0.54	23	
	Solar	730	0	0	2.08	87	
	Renewable/Others (Total)	4043	515	379	12.80	533	
	Total Rajasthan	13469	3291	3568	85.61	3567	
	UP	Anpara TPS (3*210+2*500)	1630	1299	1292	30.40	1267
Obra TPS (2*50+2*94+5*200)		1194	230	221	5.50	229	
Paricha TPS (2*110+2*220+2*250)		1160	573	822	15.20	633	
Panki TPS (2*105)		210	135	135	3.20	133	
Harduaganj TPS (1*60+1*105+2*250)		665	389	525	10.30	429	
Tanda TPS (NTPC) (4*110)		440	380	384	8.17	340	
Roza TPS (IPP) (4*300)		1200	1026	837	17.62	734	
Anpara-C (IPP) (2*600)		1200	641	1090	18.07	753	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	227	324	5.77	240	
Anpara-D(2*500)		1000	0	0	0.00	0	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	553	547	11.73	489	
Thermal (Total)		12449	5453	6177	126	5248	
Vishnuparyag HPS (IPP)(4*110)		440	395	435	10.00	417	
Alaknanda(4*82.5)		330	342	341	8.17	340	
Other Hydro		527	45	82	1.70	71	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	6285	7085	147	6126	
Uttarakhand		Total Hydro	1398	662	792	14.45	602
		Total Gas	225	90	2	1.45	61
	Total Uttarakhand	1623	752	794	16	662	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.76	73	
	Pragati Gas Turbine (2x104+ 1x122)	330	263	263	6.38	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	254	252	6.16	257	
	Badarpur TPS (NTPC) (3*95+2*210)	705	325	268	6.56	273	
	Thermal (Total)	2917	916	858	20.85	869	
	Total Delhi	2917	916	858	20.85	869	
HP	Baspa HPS (IPP) (3*100)	300	331	331	7.73	322	
	Malana HPS (IPP) (2*43)	86	102	102	2.44	102	
	Other Hydro	878	655	623	15.23	635	
	Total HP	1264	1088	1056	25.40	1058	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733	
	Other Hydro/IPP	560	181	185	4.38	182	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	914	918	21.97	915	
Total State Control Area Generation		47619	18058	19544	432.92	18038	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8952	9123	201.04	8377	
Total Regional Availability(Gross)		72856	48163	46230	1075.93	44831	
IV. Total Hydro Generation:							
Regional Entities Hydro		12234	11893	7625	237.36	9890	
State Control Area Hydro		7106	4667	4587	108.67	4528	
Total Regional Hydro		19340	16560	12212	346.03	14418	

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)	-250	350	350	350	1.88	4.21	-2.33
765 KV Gwalior-Agra (D/C)	2577	2379	3015	0	52.87	0.00	52.87
400 KV Zerda-Kankroli	54	-88	173	149	0.04	0.00	0.04
400 KV Zerda-Bhinmal	188	-153	220	287	0.00	0.36	-0.36
220 KV Auraiya-Malanpur	-109	5	0	152	0.00	0.61	-0.61
220 KV Badod-Kota/Morak	106	105	172	8	1.85	0.00	1.85
Mundra-Mohindergarh(HVDC Bipole)	2303	2298	2306	0.00	55.62	0.00	55.62
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1079	1019	1422	0	22.97	0.00	22.97
Sub Total WR	5948	5915	0	0	135.23	5.18	130.04
Pusauli Bypass/HVDC	-119	-117	0	131	0.00	2.36	-2.36
400 KV MZP- GKP (D/C)	340	446	530	0	10.04	0.00	10.04
400 KV Patna-Balia(D/C) X 2	532	637	637	0	13.33	0.00	13.33
400 KV B'Sharif-Balia (D/C)	196	384	384	0	6.64	0.00	6.64
765 KV Gaya-Balia	338	0	415	0	3.77	0.00	3.77
765 KV Gaya-Varanasi (D/C)	559	584	1008	0	13.22	0.00	13.22
220 KV Pusauli-Sahupuri	0	195	200	0	3.46	0.00	3.46
132 KV K'nasa-Sahupuri	-28	-20	0	38	0.00	0.54	-0.54
132 KV Son Ngr-Rihand	-10	-31	0	34	0.00	0.58	-0.58
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	104	42	127	0	1.56	0.00	1.56
400 KV Barh -GKP (D/C)	464	492	510	0	10.22	0.00	10.22
400 kV B'Sharif - Varanasi (D/C)	128	96	232	0	3.18	0.00	3.18
Sub Total ER	2504	2708	0	0	65.42	3.49	61.93
+/- 800 KV BiswanathChariali-Agra	500	500	500	0.00	9.07	0.00	9.07
Sub Total NER	500	500	0	0	9.07	0.00	9.07
Total IR Exch	8952	9123	0	0	209.71	8.67	201.04

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
35.20	3.71	38.91	37.23	10.67	5.16	0.78	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
81.30	122.64	203.95	71.00	130.04	201.04	-10.31	7.40	-2.91

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	-31	-18	0	31	0	1	-0.51

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	0.00	1.64	40.90	72.66	20.59	4.33	0.86	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)		
50.35	13.03	49.85	5.17	50.01	0.038	50.31	50.00	27.34	

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	6:20	400	0:10	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	424	6:03	396	1:16	0.0	0.0	5.4	0.0	5.4
Bareilly(PG)400kV	400	426	6:03	397	22:20	0.0	0.0	4.5	0.0	4.5
Kanpur	400	423	6:01	401	22:28	0.0	0.0	1.6	0.0	1.6
Dadri	400	416	6:01	398	19:36	0.1	0.1	0.0	0.0	0.1
Ballabgarh	400	427	6:03	403	14:47	0.0	0.0	11.9	0.0	11.9
Bawana	400	421	6:01	400	19:36	0.0	0.0	0.2	0.0	0.2
Bassi	400	428	6:03	400	19:38	0.0	0.0	13.8	0.0	13.8
Hissar	400	419	6:03	393	19:38	0.0	0.0	0.0	0.0	0.0
Moga	400	415	6:01	397	19:36	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	421	5:37	399	19:36	0.0	0.0	1.1	0.0	1.1
Nalagarh	400	424	5:44	404	19:35	0.0	0.0	8.7	0.0	8.7
Kishenpur	400	414	5:31	403	19:34	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	2:59	390	19:49	0.0	0.0	0.0	0.0	0.0
Amritsar	400	418	5:31	404	10:50	0.0	0.0	0.0	0.0	0.0
Kashipur	400	423	6:03	409	22:20	0.0	0.0	4.4	0.0	4.4
Hamirpur	400	419	5:31	405	11:40	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	419	6:02	392	22:21	0.0	0.0	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	798	6:02	751	22:28	0.0	0.0	0.0	0.0	0.0
Balia	765	801	6:03	749	1:00	0.0	0.0	0.1	0.0	0.1
Moga	765	787	18:01	767	19:36	0.0	0.0	0.0	0.0	0.0
Agra	765	802	6:01	754	19:37	0.0	0.0	0.3	0.0	0.3
Bhiwani	765	808	5:58	766	19:35	0.0	0.0	5.6	0.0	5.6
Unnao	765	780	6:03	736	0:19	0.0	9.9	0.0	0.0	0.0
Lucknow	765	812	6:03	747	1:15	0.0	0.0	4.0	0.0	4.0
Meerut	765	822	6:01	766	22:30	0.0	0.0	21.3	0.2	21.3
Jhatikara	765	772	0:00	772	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	811	6:03	749	22:27	0.0	0.0	4.2	0.0	4.2
Anta	765	800	6:02	773	21:16	0.0	0.0	0.0	0.0	0.0
Phagi	765	807	6:00	766	20:11	0.0	0.0	3.7	0.0	3.7

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	493.17	838.00	507.03	1396.66	1882.76	652.56
Pong	426.72	384.05	411.04	534.70	420.91	931.43	1448.52	393.63
Tehri	829.79	740.04	803.45	676.00	805.30	710.47	855.73	562.00
Koteshwar	612.50	598.50	610.63	4.69	610.32	4.69	562.00	555.54
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	568.94	358.39
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	513.66	5.47	523.95	10.79	834.16	261.10

* 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	1628	166	0	1251	435	0	40.32	5.06	45.37
Delhi	479	-22	0	568	12	0	16.38	-1.34	15.04
Haryana	1242	397	13	1393	367	13	34.52	9.41	43.93
HP	-1210	-329	0	-1277	-335	0	-28.52	-7.82	-36.35
J&K	-580	-499	0	-656	-15	0	-16.37	-3.48	-19.84
CHD	0	0	0	0	0	0	0.36	-0.10	0.25
Rajasthan	-129	594	0	-129	452	0	-3.08	12.75	9.67
UP	1057	294	0	685	0	0	18.39	2.65	21.04
Uttarakhand	-121	1	0	-121	138	0	-2.90	1.35	-1.55
Total	2367	602	13	1716	1055	13	59.09	18.48	77.58

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1922	1173	737	0	0	0
Delhi	901	439	222	-347	0	0
Haryana	1715	1184	420	134	14	13
HP	-891	-1505	-229	-411	0	0
J&K	-580	-912	0	-499	0	0
CHD	44	0	0	-35	0	0
Rajasthan	-129	-129	594	-224	0	0
UP	1074	613	491	0	0	0
Uttarakhand	-121	-121	140	1	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	6.60%
ER	0.00%
Simultaneous	4.17%

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

WR	11.11%
ER	0.00%
Simultaneous	9.38%

(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 10.08.2016 :

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.