

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	320	7.05	294	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	1.93	80	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	201	202	4.38	183	
	Goindwal(GVK) (2*270)	540	180	240	8.23	343	
	Rajpura (2*700)	1400	1060	660	19.97	832	
	Talwandi Saboo (3*660)	1980	953	746	20.12	838	
	Thermal (Total)	6560	2804	2258	61.68	2570	
	Total Hydro	1000	494	582	13.96	582	
	Total Punjab	7560	3298	2840	75.64	3152	
	Haryana	Panipat TPS (2*210+2*250)	920	0	212	1.88	78
DCRTPP (Yamuna nagar) (2*300)		600	467	458	10.92	455	
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	383	753	14.97	624	
Thermal (Total)		4497	850	1423	27.77	1157	
Total Hydro		62	39	41	0.98	41	
Total Haryana		4559	889	1464	28.75	1198	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	75	254	3.99	166
	suratgarh TPS (6*250)	1500	0	0	0.00	0	
	Chabra TPS (4*250)	1000	277	217	5.52	230	
	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	118	61	2.36	98	
	RAPS A (NPC) (1*100+1*200)	300	163	162	4.10	171	
	Barsingsar (NLC) (2*125)	250	113	114	2.63	110	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	442	446	10.49	437	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	440	375	10.43	435	
	Kawai(Adani) (2*660)	1320	879	873	21.28	887	
	Thermal (Total)	8876	2507	2502	61	2533	
	Total Hydro	550	143	303	5.53	231	
	Wind power	3214	831	854	12.59	525	
	Biomass	99	22	22	0.53	22	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	853	876	13.12	547	
	Total Rajasthan	13469	3503	3681	79.46	3311	
	UP	Anpara TPS (3*210+2*500)	1630	893	871	20.40	850
Obra TPS (2*50+2*94+5*200)		1194	235	232	5.70	238	
Paricha TPS (2*110+2*220+2*250)		1160	580	655	14.50	604	
Panki TPS (2*105)		210	135	126	3.10	129	
Harduaganj TPS (1*60+1*105+2*250)		665	392	489	9.50	396	
Tanda TPS (NTPC) (4*110)		440	371	372	7.92	330	
Roza TPS (IPP) (4*300)		1200	549	1013	18.00	750	
Anpara-C (IPP) (2*600)		1200	639	1049	17.40	725	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	200	227	5.10	213	
Anpara-D(2*500)		1000	0	0	0.00	0	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	554	546	12.00	500	
Thermal (Total)		12449	4548	5580	114	4734	
Vishnuparyag HPS (IPP)(4*110)		440	217	0	5.90	246	
Alaknanda(4*82.5)		330	340	341	8.10	338	
Other Hydro		527	39	134	2.41	100	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5194	6105	131	5468	
Uttarakhand		Total Hydro	1398	690	805	17.11	713
		Total Gas	225	95	5	1.90	79
	Total Uttarakhand	1623	785	810	19	792	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	71	70	1.68	70	
	Pragati Gas Turbine (2x104+ 1x122)	330	265	265	6.48	270	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	250	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.11	296	
	Thermal (Total)	2917	916	915	21.29	887	
	Total Delhi	2917	916	915	21.29	887	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.85	327	
	Malana HPS (IPP) (2*43)	86	102	101	2.42	101	
	Other Hydro	878	599	599	13.68	570	
	Total HP	1264	1031	1030	23.95	998	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	731	731	17.54	731	
	Other Hydro/IPP	560	181	185	4.38	182	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	912	916	21.92	913	
Total State Control Area Generation		47619	16528	17761	401.25	16719	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8413	7560	171.56	7148	
Total Regional Availability(Gross)		72856	45350	43644	1006.04	41918	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11367	9670	245.86	10244
State Control Area Hydro		7106	4000	4157	101.77	4240
Total Regional Hydro		19340	15367	13827	347.63	14484

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)	-500	-350	0	500	0.00	11.70	-11.70
765 KV Gwalior-Agra (D/C)	2652	2218	2929	0	50.50	0.00	50.50
400 KV Zerda-Kankroli	110	-107	134	177	0.00	0.00	0.00
400 KV Zerda-Bhinmal	112	-115	187	175	0.00	0.16	-0.16
220 KV Auraiya-Malanpur	-2	-11	0	62	0.00	0.26	-0.26
220 KV Badod-Kota/Morak	128	79	189	27	2.49	0.00	2.49
Mundra-Mohindergarh(HVDC Bipole)	1803	2305	2305	0.00	42.94	0.00	42.94
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1035	760	1231	0	20.19	0.00	20.19
Sub Total WR	5338	4779			116.11	12.12	103.99
Pusauli Bypass/HVDC	-78	-107	0	107	0.00	1.73	-1.73
400 KV MZP- GKP (D/C)	362	394	566	0	10.42	0.00	10.42
400 KV Patna-Balia(D/C) X 2	536	525	716	0	13.05	0.00	13.05
400 KV B'Sharif-Balia (D/C)	167	197	264	0	4.88	0.00	4.88
765 KV Gaya-Balia	332	311	377	0	3.48	0.00	3.48
765 KV Gaya-Varanasi (D/C)	617	435	649	0	12.05	0.00	12.05
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-28	-24	0	30	0.00	0.59	-0.59
132 KV Son Ngr-Rihand	-24	-32	0	32	0.00	0.45	-0.45
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	80	19	114	0	1.40	0.00	1.40
400 KV Barh -GKP (D/C)	532	438	532	0	10.28	0.00	10.28
400 kV B'Sharif - Varanasi (D/C)	79	125	212	0	3.34	0.00	3.34
Sub Total ER	2575	2281			58.89	2.77	56.12
+/- 800 KV BiswanathCharialli-Agra	500	500	492	0.00	11.45	0.00	11.45
Sub Total NER	500	500			11.45	0.00	11.45
Total IR Exch	8413	7560			186.45	14.89	171.56

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
33.16	3.71	36.87	40.96	9.80	0.47	-2.77	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
78.29	106.12	184.42	67.57	103.99	171.56	-10.73	-2.13	-12.86

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	-27	-10	0	31	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	0.00	2.19	41.50	74.18	19.46	4.21	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)		
50.19	18.02	49.81	19.26	50.01	0.030	0.054	50.18	49.98	25.82

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	6:36	402	20:33	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	7:02	400	21:09	0.0	0.0	9.8	0.0	9.8
Bareilly(PG)400kV	400	420	6:32	401	14:55	0.0	0.0	0.0	0.0	0.0
Kanpur	400	422	4:39	402	19:26	0.0	0.0	7.2	0.0	7.2
Dadri	400	417	7:36	401	14:33	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	426	4:39	404	19:30	0.0	0.0	25.3	0.0	25.3
Bawana	400	420	7:43	404	14:29	0.0	0.0	0.0	0.0	0.0
Bassi	400	425	4:21	399	19:27	0.0	0.0	21.3	0.0	21.3
Hissar	400	416	7:43	396	19:39	0.0	0.0	0.0	0.0	0.0
Moga	400	415	8:02	399	19:34	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	416	7:33	403	14:34	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	417	4:16	405	14:59	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	417	4:00	404	19:43	0.0	0.0	0.0	0.0	0.0
Wagoora	400	411	3:59	392	19:55	0.0	0.0	0.0	0.0	0.0
Amritsar	400	419	4:00	406	1:49	0.0	0.0	0.0	0.0	0.0
Kashipur	400	421	17:58	412	21:36	0.0	0.0	1.3	0.0	1.3
Hamirpur	400	416	2:58	406	14:20	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	419	18:00	394	21:41	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	792	4:21	747	19:29	0.0	0.0	0.0	0.0	0.0
Balia	765	798	7:02	759	21:09	0.0	0.0	0.0	0.0	0.0
Moga	765	805	8:00	766	19:35	0.0	0.0	8.5	0.0	8.5
Agra	765	801	4:23	749	19:35	0.0	0.0	0.4	0.0	0.4
Bhiwani	765	805	4:39	777	10:47	0.0	0.0	35.4	0.0	35.4
Unnao	765	782	7:49	746	19:29	0.0	0.0	0.0	0.0	0.0
Lucknow	765	770	12:34	769	12:36	99.8	99.8	0.0	0.0	99.8
Meerut	765	814	7:49	772	19:35	0.0	0.0	27.3	0.0	27.3
Jhatikara	765	793	18:01	764	19:28	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	794	7:37	757	14:55	0.0	0.0	0.0	0.0	0.0
Anta	765	800	8:01	767	19:29	0.0	0.0	0.0	0.0	0.0
Phagi	765	801	3:59	758	19:40	0.0	0.0	11.0	0.0	11.0

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	481.75	858.11	507.40	1426.07	1574.30	650.01
Pong	426.72	384.05	412.56	588.94	420.90	931.43	3532.83	208.30
Tehri	829.79	740.04	805.35	711.45	806.65	736.90	901.71	565.00
Koteswar	612.50	598.50	610.60	4.80	609.74	4.44	565.00	579.83
Chamera-I	760.00	748.75	755.72	0.00	0.00	0.00	884.13	357.48
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	1156.00	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	515.66	3.56	524.21	10.64	705.68	235.34

* 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	1641	73	0	1135	66	0	39.65	0.87	40.53
Delhi	481	-149	0	561	-110	0	15.85	-3.84	12.01
Haryana	1961	405	13	1500	373	13	41.00	7.60	48.60
HP	-1505	-311	0	-1226	-322	0	-31.65	-7.09	-38.74
J&K	-583	-499	0	-583	-15	0	-15.56	-4.24	-19.80
CHD	0	0	0	0	-30	0	0.36	-0.09	0.26
Rajasthan	-129	620	0	-129	599	0	-3.08	14.13	11.04
UP	1027	294	0	686	0	0	18.19	2.16	20.35
Uttarakhand	-121	18	0	-121	139	0	-2.90	2.28	-0.62
Total	2774	452	13	1824	701	13	61.86	11.79	73.64

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1919	1101	86	0	0	0
Delhi	801	481	117	-451	0	0
Haryana	2042	1242	429	-274	13	13
HP	-1226	-1505	-236	-341	0	0
J&K	-583	-835	0	-499	0	0
CHD	44	0	0	-30	0	0
Rajasthan	-129	-129	622	198	0	0
UP	1039	613	491	0	0	0
Uttarakhand	-121	-121	205	3	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. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 11.08.2016 :

XV. Synchronisation of new generating units :

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

165 Mvar, ACF-1, Type-D3 sub-bank at Kurukshetra(PG) first time charged at 17:07 hrs dated 11.08.2016 and taken out 20:57 hrs dt. 11.08.2016

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.