

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	48937	41492	33942	19419	2559	146349
Peak Shortage (MW)	458	0	0	400	38	896
Energy Met (MU)	1201	1042	782	436	49	3510
Hydro Gen (MU)	232	19	144	97	23	514
Wind Gen (MU)	14	95	195	-----	-----	304
Solar Gen (MU)*	15.46	10.5	27.58	0.54	0.02	54
Energy Shortage (MU)	9.6	0.0	0.0	1.2	0.6	11.4
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	57427 00:12	49803 06:14	35577 07:22	20686 00:02	2504 19:57	158283 01:10

B. Frequency Profile (%)

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.024	0.00	0.00	1.09	1.09	78.61	20.30

C. Power Supply Position in States

Region	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)	
NR	Punjab	9880	0	215.9	137.4	-1.8	98	0.0	
	Haryana	8890	0	177.4	134.5	0.8	206	0.0	
	Rajasthan	11247	0	238.7	100.6	2.2	498	0.0	
	Delhi	5665	0	102.7	92.0	-1.6	184	0.1	
	UP	17568	0	364.7	194.9	0.6	431	0.0	
	Uttarakhand	1592	0	33.9	14.7	-0.6	55	0.0	
	HP	1129	0	23.0	-4.4	1.0	234	0.0	
	J&K	2013	503	39.6	19.6	-4.7	50	9.5	
	Chandigarh	257	0	5.0	6.2	-1.2	-15	0.0	
	WR	Chhattisgarh	3561	0	84.0	14.2	0.7	666	0.0
Gujarat		14909	0	344.7	83.8	4.7	2988	0.0	
MP		8384	0	178.7	75.1	-1.5	454	0.0	
Maharashtra		19068	0	397.0	107.7	1.6	556	0.0	
Goa		423	0	8.3	7.6	0.1	49	0.0	
DD		305	0	5.0	4.5	0.5	78	0.0	
DNH		747	0	14.9	14.1	0.8	136	0.0	
Essar steel		549	0	9.7	9.7	0.0	306	0.0	
SR		Andhra Pradesh	6805	0	150.7	11.5	1.7	628	0.0
		Telangana	8555	0	175.8	75.2	0.9	487	0.0
	Karnataka	7035	0	147.6	29.3	-5.8	395	0.0	
	Kerala	2677	0	47.9	17.6	-2.2	116	0.0	
	Tamil Nadu	11565	0	254.2	65.0	-3.8	558	0.0	
	Pondy	308	0	6.2	6.5	-0.3	31	0.0	
	ER	Bihar	4724	0	94.8	91.4	1.5	385	0.0
DVC		2764	0	65.0	-28.1	7.4	500	1.2	
Jharkhand		1051	0	23.4	18.1	-0.6	125	0.0	
Odisha		4614	0	92.2	44.6	3.1	500	0.0	
West Bengal		8233	0	159.1	55.0	2.7	452	0.0	
Sikkim		61	0	1.5	1.4	0.1	0	0.0	
NER	Arunachal Pradesh	114	2	2.2	2.5	-0.3	0	0.0	
	Assam	1650	21	31.0	25.0	0.9	185	0.5	
	Manipur	163	3	2.4	2.5	-0.2	21	0.0	
	Meghalaya	286	0	5.1	0.8	0.1	25	0.0	
	Mizoram	70	2	1.4	1.3	-0.3	11	0.0	
	Nagaland	118	2	2.1	2.1	-0.3	26	0.0	
	Tripura	228	8	4.5	4.9	0.5	49	0.1	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual(MU)	31.9	-6.1	-15.3
Day peak (MW)	1896.5	-277.0	-667.4

E. Import/export By Regions(in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	288.6	-261.6	18.8	-46.2	0.6	0.2
Actual(MU)	270.0	-255.0	11.3	-27.8	-1.3	-2.8
O/D/U/D(MU)	-18.6	6.6	-7.5	18.4	-1.9	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3980	15282	10472	1970	78	31783
State Sector	8945	14871	12300	7495	50	43660
Total	12925	30153	22772	9465	128	75443

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	504	1109	343	380	5	2341
Hydro	321	19	144	97	23	602
Nuclear	27	27	24	0	0	79
Gas, Naptha & Diesel	11	41	24	0	26	102
RES (Wind, Solar, Biomass & Others)	43	106	257	1	0	407
Total	906	1303	792	477	53	3532

Share of RES in total generation (%)	4.79	8.12	32.49	0.11	0.08	11.52
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	43.18	11.68	53.72	20.36	42.33	30.82

H. Diversity Factor

All India Demand Diversity Factor	1.049
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Diversity factor = Sum of regional maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Date of Reporting : 16-Aug-18

Import=(+ve)
/Export =(-ve)
for NET (MU)

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	458	0.0	6.3	-6.3	
2		SASARAM-FATEHPUR	S/C	263	0	4.4	0.0	4.4	
3		GAYA-BALIA	S/C	0	402	0.0	7.5	-7.5	
4		ALIPURDUAR-AGRA	-	0	686	0.0	16.4	-16.4	
5	400 kV	PUSAULI B/B	S/C	0	200	0.0	3.7	-3.7	
6		PUSAULI-VARANASI	S/C	0	138	0.0	0.0	0.0	
7		PUSAULI -ALLAHABAD	S/C	0	55	0.0	0.0	0.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	762	0.0	14.1	-14.1	
9		PATNA-BALIA	Q/C	0	1120	0.0	20.9	-20.9	
10		BIHARSHARIFF-BALIA	D/C	0	248	0.0	5.5	-5.5	
11		MOTIHARI-GORAKHPUR	D/C	119	0	5.5	0.0	5.5	
12		BIHARSHARIFF-VARANASI	D/C	25	0	0.0	0.7	-0.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	150	0.0	3.2	-3.2	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	35	0	0.6	0.0	0.6	
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
ER-NR						10.4	78.4	-67.9	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1140	6	17.5	0.0	17.5	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1060	0	18.9	0.0	18.9	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1237	0	21.8	0.0	21.8	
21		RANCHI-SIPAT	D/C	541	0	11.1	0.0	11.1	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	112	38	0.8	0.0	0.8	
23		BUDHIPADAR-KORBA	D/C	165	0	3.0	0.0	3.0	
ER-WR						73.1	0.0	73.1	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	101.0	984.9	0.0	10.1	-10.1	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	427.7	0.0	10.0	-10.0	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1386.6	0.0	21.2	-21.2	
27	400 kV	TALCHER-I/C	D/C	995.7	0.0	0.0	12.6	-12.6	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	41.2	-41.2	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	554	0.0	8.1	-8	
30		ALIPURDUAR-BONGAIGAON	D/C	230	268	0.0	1.3	-1	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	113	0.0	1.8	-2	
ER-NER						0.0	11.2	-11.2	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	701	0.0	14.6	-14.6	
NER-NR						0.0	14.6	-14.6	
Import/Export of WR (With NR)									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	25.9	-25.9	
34		V'CHAL B/B	D/C	0	0	3.6	1.4	2.2	
35		APL -MHG	D/C	0	0	0.0	22.8	-22.8	
36		GWALIOR-AGRA	D/C	0	0	0.0	54.2	-54.2	
37	765 kV	PHAGI-GWALIOR	D/C	0	0	0.0	34.3	-34.3	
38		JABALPUR-ORAI	D/C	0	0	0.0	26.7	-26.7	
39		GWALIOR-ORAI	S/C	0	0	9.6	0.0	9.6	
40		SATNA-ORAI	S/C	0	0	0.0	41.9	-41.9	
41		400 kV	ZERDA-KANKROLI	S/C	0	0	0.0	2.0	-2.0
42			ZERDA -BHINMAL	S/C	0	0	0.0	4.1	-4.1
43	V'CHAL -RIHAND		S/C	0	0	20.4	0.0	20.4	
44	RAPP-SHUJALPUR		D/C	0	0	0	4	-4	
45	220 kV	BADOD-KOTA	S/C	0	0	0.1	0.8	-0.8	
46		BADOD-MORAK	S/C	0	0	0.0	1.1	-1.1	
47		MEHGAON-AURAIYA	S/C	0	0	0.2	0.1	0.1	
48	132kV	MALANPUR-AURAIYA	S/C	0	0	0.0	0.6	-0.6	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						33.9	220.2	-186.3	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	0	4.7	0.0	4.7	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	0	0	0.0	14.4	-14.4	
53		WARDHA-NIZAMABAD	D/C	0	0	0.0	15.5	-15.5	
54	400 kV	KOLHAPUR-KUDGI	D/C	0	0	13.6	0.0	13.6	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
WR-SR						18.3	29.8	-11.5	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						31.9	
59		NEPAL						-6.1	
60		BANGLADESH						-15.3	