

Report for previous day

Date of Reporting

17-Jul-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	53146	41052	38085	20196	2618	155098
Peak Shortage (MW)	1334	0	0	0	145	1479
Energy Met (MU)	1269	936	816	436	51	3507
Hydro Gen (MU)	314	17	74	95	26	526
Wind Gen (MU)	5	113	232	-----	-----	350
Solar Gen (MU)*	15.42	11.1	31.69	0.51	0.02	59
Energy Shortage (MU)	13.8	0.0	0.0	0.0	1.3	15.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	57334 22:28	42594 11:08	39022 19:28	21367 20:01	2664 19:31	160578 19:59

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	0.026	0.00	0.17	3.58	3.75	82.87	13.38

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	10599	0	234.0	132.3	-1.4	223	0.0
	Haryana	8927	0	195.6	149.2	1.3	290	0.1
	Rajasthan	8495	0	189.5	70.4	0.7	445	0.0
	Delhi	5663	0	119.2	97.5	-2.4	69	0.1
	UP	18639	0	413.8	194.4	2.0	368	0.0
	Uttarakhand	1750	150	39.4	24.1	3.2	362	3.3
	HP	1437	0	28.4	0.5	5.0	410	0.0
	J&K	2148	537	43.4	18.1	-0.3	122	10.3
WR	Chhattisgarh	3251	0	73.6	12.4	-1.8	212	0.0
	Gujarat	12509	0	274.1	80.4	4.7	691	0.0
	MP	7579	0	170.2	89.0	2.3	559	0.0
	Maharashtra	16980	0	373.7	95.9	-5.7	734	0.0
	Goa	351	0	9.1	9.1	-0.7	19	0.0
	DD	321	0	7.0	6.2	0.8	85	0.0
	DNH	747	0	17.1	16.7	0.4	63	0.0
	Essar steel	538	0	11.1	11.4	-0.3	289	0.0
SR	Andhra Pradesh	6804	0	150.8	6.0	1.0	442	0.0
	Telangana	7536	0	150.4	83.9	-0.2	483	0.0
	Karnataka	7988	0	157.3	36.3	-3.7	373	0.0
	Kerala	2809	0	51.7	28.3	0.2	191	0.0
	Tamil Nadu	14059	0	297.7	109.9	-0.8	599	0.0
	Pondy	383	0	7.8	8.0	-0.2	37	0.0
ER	Bihar	4995	0	97.7	94.2	0.6	60	0.0
	DVC	3370	0	68.7	-27.0	0.5	270	0.0
	Jharkhand	1055	0	23.9	18.7	-0.5	14	0.0
	Odisha	3740	0	71.5	31.0	0.4	440	0.0
	West Bengal	8518	0	173.0	58.4	2.6	280	0.0
NER	Sikkim	90	0	1.1	1.3	-0.2	0	0.0
	Arunachal Pradesh	116	5	2.3	2.3	0.0	15	0.0
	Assam	1686	81	32.2	25.8	0.5	173	1.1
	Manipur	169	4	2.4	2.6	-0.2	33	0.0
	Meghalaya	332	0	6.0	0.9	-0.3	25	0.0
	Mizoram	86	2	1.6	0.8	0.1	30	0.0
	Nagaland	127	2	2.2	2.0	-0.2	6	0.0
	Tripura	262	4	4.2	4.5	-0.4	39	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	33.2	-7.6	-13.3
Day peak (MW)	1446.4	-440.1	-592.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	293.5	-258.3	18.1	-50.8	-1.7	0.8
Actual(MU)	256.1	-214.6	6.8	-42.8	-4.2	1.2
O/D/U/D(MU)	-37.4	43.7	-11.3	7.9	-2.5	0.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4354	14397	8552	1680	81	29064
State Sector	6315	19164	12620	5915	50	44064
Total	10669	33561	21172	7595	131	73127

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	592	1000	380	402	8	2381
Hydro	314	18	76	95	26	528
Nuclear	27	30	45	0	0	102
Gas, Naptha & Diesel	24	39	23	0	25	110
RES (Wind, Solar, Biomass & Others)	30	124	296	1	0	451
Total	986	1210	821	497	58	3573

Share of RES in total generation (%)	3.07	10.28	36.05	0.16	0.07	12.63
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.60	14.22	50.87	19.21	44.39	30.28

H. Diversity Factor

All India Demand Diversity Factor	1.015
-----------------------------------	-------

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 : 17-Jul-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	475	0.0	9.0	-9.0
2		SASARAM-FATEHPUR	S/C	194	47	1.7	0.0	1.7
3		GAYA-BALIA	S/C	0	476	0.0	9.1	-9.1
4	HVDC	ALIPURDUAR-AGRA	-	0	687	0.0	17.1	-17.1
5		PUSAULI B/B	S/C	0	147	0.0	3.7	-3.7
6	400 kV	PUSAULI-VARANASI	S/C	0	134	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	63	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	915	0.0	13.7	-13.7
9		PATNA-BALIA	Q/C	0	1060	0.0	17.8	-17.8
10		BIHARSHARIFF-BALIA	D/C	0	465	0.0	7.1	-7.1
11		MOTIHARI-GORAKHPUR	D/C	299	2	5.2	0.0	5.2
12		BIHARSHARIFF-VARANASI	D/C	792	0	0.0	1.8	-1.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	200	0.0	4.1	-4.1
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	35	0	0.4	0.0	0.4
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						7.2	83.2	-76.0
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	501	10	7.2	0.0	7.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	1086	0	19.1	0.0	19.1
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1099	0	20.4	0.0	20.4
21		RANCHI-SIPAT	D/C	493	0	8.2	0.0	8.2
22	220 kV	BUDHIPADAR-RAIGARH	S/C	89	68	0.5	0.0	0.5
23		BUDHIPADAR-KORBA	D/C	154	0	2.7	0.0	2.7
ER-WR						58.0	0.0	58.0
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1105.8	0.0	10.2	-10.2
25	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	415.4	0.0	9.7	-9.7
26		TALCHER-KOLAR BIPOLE	D/C	0.0	999.4	0.0	19.1	-19.1
27	400 kV	TALCHER-I/C	D/C	788.8	0.6	0.0	12.2	-12.2
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
ER-SR						0.0	39.0	-39.0
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	460	0.0	7.8	-8
30		ALIPURDUAR-BONGAIGAON	D/C	206	173	0.0	0.3	0
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	109	0.0	1.8	-2
ER-NER						0.0	9.9	-9.9
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	16.4	-16.4
NER-NR						0.0	16.4	-16.4
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2506	0.0	46.7	-46.7
34		VCHAL B/B	D/C	240	103	1.9	0.8	1.1
35		APL -MHG	D/C	0	1911	0.0	34.0	-34.0
36	765 kV	GWALIOR-AGRA	D/C	0	1296	0.0	51.5	-51.5
37		PHAGI-GWALIOR	D/C	0	1536	0.0	30.1	-30.1
38		JABALPUR-ORAI	D/C	0	675	0.0	31.1	-31.1
39		GWALIOR-ORAI	S/C	754	0	11.4	0.0	11.4
40	400 kV	SATNA-ORAI	S/C	0	1990	0.0	39.2	-39.2
41		ZERDA-KANKROLI	S/C	131	203	0.0	1.0	-1.0
42		ZERDA -BHINMAL	S/C	47	187	0.0	1.3	-1.3
43		VCHAL -RIHAND	S/C	983	0	21.5	0.0	21.5
44	220 kV	RAPP-SHUJALPUR	D/C	0	404	0	3	-3
45		BADOD-KOTA	S/C	9	55	0.2	0.4	-0.2
46		BADOD-MORAK	S/C	0	97	0.0	1.0	-1.0
47		MEHGAON-AURAIYA	S/C	19	35	0.0	0.2	-0.2
48	132kV	MALANPUR-AURAIYA	S/C	0	54	0.0	0.8	-0.8
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						35.0	241.0	-206.0
Import/Export of WR (With SR)								
50	HVDC LINK	BHADRAWATI B/B	-	192	113	0.4	0.0	0.4
51	765 kV	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52		SOLAPUR-RAICHUR	D/C	1423	729	10.5	0.0	10.5
53		WARDHA-NIZAMABAD	D/C	3	1695	0.0	15.8	-15.8
54	400 kV	KOLHAPUR-KUDGI	D/C	813	0	11.8	0.0	11.8
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						22.7	15.8	7.0
TRANSNATIONAL EXCHANGE								
58		BHUTAN						33.2
59		NEPAL						-7.6
60		BANGLADESH						-13.3