

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 21st August 2018

Τо

- 1. कार्यकारी निदेशक, पू.क्षे.भा .प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 2. महाप्रबंधक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 General Manager, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह, लापलंग, शिलोंग ७९३००६ Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. महाप्रबंधक , द .क्षे .भा .प्रे .के., २९ , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 20.08.2018.

महोदय/Dear Sir.

आई॰ई॰जी॰सी॰-२०१० की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक २०-अगस्त-२०१८ की अखिल भारतीय प्रणाली की दैनिक ग्रिंड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 20th August 2018, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting** 21-Aug-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	56157	43753	38744	20482	2674	161810
Peak Shortage (MW)	869	0	0	520	197	1586
Energy Met (MU)	1256	991	833	438	51	3569
Hydro Gen (MU)	352	24	171	104	21	672
Wind Gen (MU)	25	62	233			319
Solar Gen (MU)*	16.35	8.06	32.08	0.60	0.01	57
Energy Shortage (MU)	9.5	0.0	0.0	1.6	2.1	13.2
Maximum Demand Met during the day	57641	45112	38259	21113	2653	162804
(MW) & time (from NLDC SCADA)	22:30	10:40	19:00	20:31	19:04	19:54

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	0.025	0.00	0.02	2.79	2.81	77.48	19.71

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
	Punjab	10774	0	238.1	142.8	0.1	390	0.0
	Harvana	8956	0	189.6	145.6	1.2	641	0.0
	Rajasthan	10075	0	222.9	81.1	1.3	846	0.0
	Delhi	5752	0	117.6	100.4	-1.4	132	0.0
NR	UP	18067	0	370.7	185.4	1.2	863	0.0
	Uttarakhand	1960	0	41.1	21.3	0.2	243	0.0
	HP	1343	9	28.5	-1.4	3.3	131	0.1
	J&K	2153	538	41.9	19.4	-2.7	173	9.4
	Chandigarh	280	0	5.8	6.4	-0.6	22	0.0
	Chhattisgarh	3579	0	81.5	15.5	-1.4	389	0.0
	Gujarat	13490	0	294.1	74.9	1.0	470	0.0
	MP	7830	0	171.6	77.8	-0.5	473	0.0
WR	Maharashtra	18437	0	398.4	115.1	-1.3	566	0.0
WK	Goa	441	0	9.0	8.5	-0.1	72	0.0
	DD	332	0	7.3	6.6	0.7	85	0.0
	DNH	781	0	18.1	17.4	0.6	67	0.0
	Essar steel	561	0	11.0	10.7	0.3	293	0.0
	Andhra Pradesh	6884	0	158.5	3.5	2.1	433	0.0
	Telangana	6739	0	141.6	43.5	-1.8	402	0.0
SR	Karnataka	8333	0	166.6	25.1	0.1	405	0.0
3N	Kerala	2967	0	53.6	21.8	-0.8	263	0.0
	Tamil Nadu	14761	0	304.9	91.1	-0.4	442	0.0
	Pondy	364	0	7.7	7.7	-0.1	32	0.0
	Bihar	4813	0	92.5	91.1	-0.4	200	0.0
	DVC	2869	0	64.3	-29.3	2.3	220	1.0
ER	Jharkhand	1096	0	23.2	18.2	-1.2	80	0.0
LIX	Odisha	4771	0	91.9	43.1	3.4	250	0.6
	West Bengal	8209	0	164.6	57.8	0.2	225	0.0
	Sikkim	85	0	1.0	1.3	-0.3	15	0.0
	Arunachal Pradesh	118	2	2.2	2.4	-0.2	25	0.0
	Assam	1709	151	33.2	28.0	0.9	188	2.0
	Manipur	181	1	2.2	2.3	-0.1	25	0.0
NER	Meghalaya	311	0	5.0	1.2	0.0	53	0.0
	Mizoram	81	1	1.4	1.1	0.0	17	0.0
	Nagaland	116	2	2.2	2.0	-0.2	35	0.0
	Tripura	282	3	4.8	4.5	-0.4	103	0.1

 $\textbf{D. Transnational Exchanges} \ \ (\textbf{MU}) \textbf{-} \textbf{Import} (+\textbf{ve}) / \textbf{Export} (-\textbf{ve})$

	Bhutan	Nepal	Bangladesh
Actual(MU)	32.2	-6.8	-15.3
Day peak (MW)	1749.4	-307.0	-667.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	292.5	-245.4	-16.2	-34.2	3.5	0.2
Actual(MU)	279.8	-238.3	-18.4	-28.7	1.1	-4.5
O/D/U/D(MU)	-12.7	7.1	-2.2	5.5	-2.4	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3800	15582	10512	1470	91	31456
State Sector	7240	16394	12703	5335	50	41721
Total	11040	31976	23215	6805	141	73177

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	553	1059	339	383	7	2342
Hydro	352	24	171	104	21	672
Nuclear	27	27	24	0	0	79
Gas, Naptha & Diesel	17	41	23	0	26	106
RES (Wind, Solar, Biomass & Others)	54	102	303	1	0	460
Total	1003	1254	861	488	54	3659

Share of RES in total generation (%)	5.37	8.17	35.18	0.12	0.06	12.56
Share of Non-fossil fuel (Hydro, Nuclear and	42.22	12.25	57.86	21.49	38.55	33.09
RES) in total generation (%)	43.23	12.25	57.80	21.49	36.33	33.09

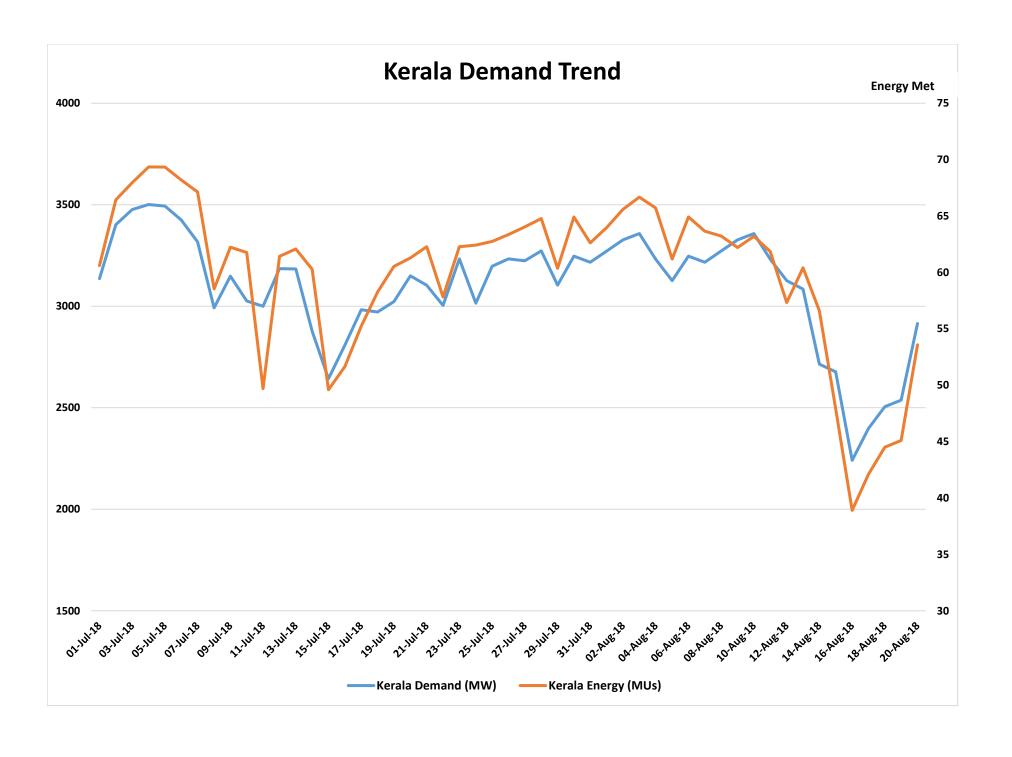
H. Diversity Factor
All India Demand Diversity Factor
1.012
Diversity factor = Sum of regional maximum demands / All India maximum demand

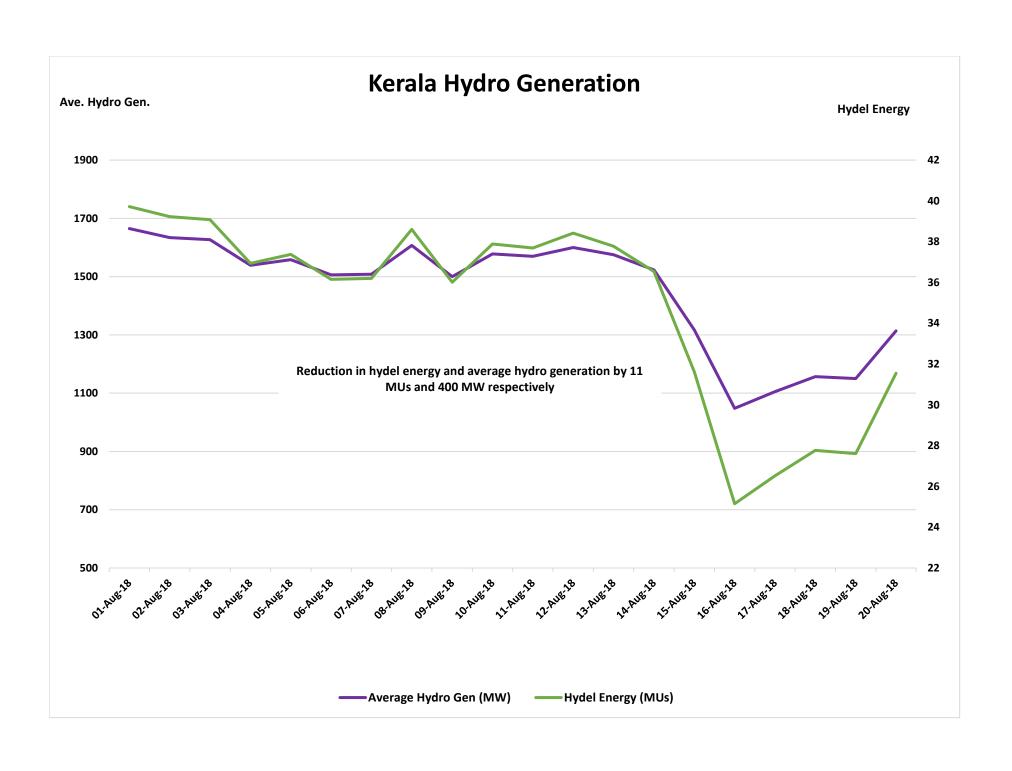
 $[\]textbf{*Source:} \ RLDCs \ for \ solar \ connected \ to \ ISTS; \ SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

		INTE	A-ALUI	OTTAL EA	<u>CHANGES</u>	Date of 1	Reporting :	21-Aug-1
								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)
mport/E	Export of	ER (With NR)	D/C	0	500	0.0	7.4	-7.4
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	0 358	509 14	0.0 4.3	7.4	4.3
3		GAYA-BALIA	S/C	0	355	0.0	6.6	-6.6
4	HVDC	ALIPURDUAR-AGRA	-	0	787	0.0	18.8	-18.8
5		PUSAULI B/B	S/C S/C	0	398	0.0	7.0	-7.0
6 7	-	PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	297 412	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	669	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	Q/C	0	1121	0.0	20.1	-20.1
10		BIHARSHARIFF-BALIA	D/C	0	211	0.0	3.1	-3.1
11		MOTIHARI-GORAKHPUR	D/C	119	0	5.5	0.0	5.5
12	***	BIHARSHARIFF-VARANASI	D/C	25	0	0.3	0.0	0.3
13	220 kV	PUSAULI-SAHUPURI SONE NAGAR-RIHAND	S/C S/C	0	176 0	0.0	3.6 0.0	-3.6 0.0
15		GARWAH-RIHAND	S/C	35	0	0.6	0.0	0.6
16	132 kV	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
(mport/F	Export of	ER (With WR)	1		ER-NR	10.6	77.0	-66.4
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	912	12	13.5	0.0	13.5
19	, 33 K V	NEW RANCHI-DHARAMJAIGARH	D/C	942	0	15.7	0.0	15.7
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	981	0	18.6	0.0	18.6
21	A 7	RANCHI-SIPAT	D/C	425	0	6.8	0.0	6.8
22	220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C D/C	129 178	0	3.2	0.0	1.1 3.2
23		BUDHIPADAK-KUKBA	D/C	1/6	ER-WR	59.0	0.0	59.0
mport/E		ER (With SR) ANGUL-SRIKAKULAM	D/C	47.0	1180.8	0.0	10.5	-10.5
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	367.7	0.0	8.7	-8.7
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	303.6	0.0	7.3	-7.3
27	400 kV	TALCHER-I/C	D/C	1005.1	0.0	0.0	17.6	-17.6
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0 ER-SR	0.0	0.0 26.5	0.0 -26.5
	Export of	ER (With NER)	D/G		##O	0.0	40.4	
29 30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	60	570 251	0.0	10.1	-10 -3
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	127	0.0	2.4	-2
					ER-NER	0.0	15.4	-15.4
32		NER (With NR) BISWANATH CHARIALI-AGRA		0	700	0.0	16.8	-16.8
	пурс	DIS WILWITH CHARACTER TORAL		Ü	NER-NR	0.0	16.8	-16.8
	Export of	WR (With NR)	1					_
33		CHAMPA-KURUKSHETRA	D/C	0	2004	0.0	43.6	-43.6
34	HVDC	V'CHAL B/B	D/C	240	0	3.6	0.0	3.6
35 36		APL -MHG GWALIOR-AGRA	D/C D/C	0	1917 1448	0.0	35.5 55.5	-35.5 -55.5
37		PHAGI-GWALIOR	D/C	0	1480	0.0	22.9	-22.9
38	765 kV	JABALPUR-ORAI	D/C	0	708	0.0	25.9	-25.9
39		GWALIOR-ORAI	S/C	384	0	6.8	0.0	6.8
40		SATNA-ORAI	S/C	0	1851	0.0	40.8	-40.8
41		ZERDA-KANKROLI	S/C	177	167	0.0	0.5	-0.5
42	400 kV	ZERDA -BHINMAL V'CHAL -RIHAND	S/C S/C	175 953	218 0	0.0 20.8	0.0	-1.5 20.8
44		RAPP-SHUJALPUR	D/C	953	439	0	3	-3
45		BADOD-KOTA	S/C	17	45	0.1	0.4	-0.3
46	220 kV	BADOD-MORAK	S/C	5	69	0.0	0.9	-0.9
47	220 K V	MEHGAON-AURAIYA	S/C	45	22	0.3	0.1	0.2
48		MALANPUR-AURAIYA	S/C	13	44	0.0	0.4	-0.4
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0 WR-NR	0.0 31.6	0.0 231.3	0.0 -199.7
		WR (With SR)						
50 51	HVDC LINK	BHADRAWATI B/B BARSUR-L.SILERU	-	0	309	0.0	2.6	-2.6
52		SOLAPUR-RAICHUR	D/C	1378	508	0.0	0.0	0.0
53	765 kV	WARDHA-NIZAMABAD	D/C	464	1154	0.0	5.6	-5.6
54	400 kV	KOLHAPUR-KUDGI	D/C	970	0	16.2	0.0	16.2
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	0	106	0.0	1.9	-1.9
		TR	ANSNATI	ONAL EX	WR-SR CHANGE	29.9	10.0	19.9
58		BHUTAN		EA				32
59		NEPAL						-6
60	l	BANGLADESH						-15.

		-		NA	TURAL CALAN	MITY- POWE	R SYSTEM C	ONDITION	
1	Gonora	tion Affe	octod						Date: 21/08/2018 06.00 HR
-	Genera	SI.No.	Generating Station	Installed Capacity (MW)	Capacity affected due to inundation (MW)	Capacity revived till now (MW)	Present affected capacity (MW)	Reason for outage	Remarks
	а	Due to tra	ansmission constraints				ı	1	
		1	Idamalayar (2x37.5)	75	75	75	0	Line Constraints	Unit#1 revived at 23.50hrs on 19.08.18, Unit#2 revived at 00.39hrs on 20.08.18.
			Sub-Total	75	75	75	0		
	b	Due to po	wer house inundation/tail	ace water leve	el high		I	Land Cliding Quarter	T
		1	Panniyar (2x16)	32	32	0	32	Land Sliding & water entered to control room.	outage since 23:49 hrs, 15.08.2018
		2	Neriamangalam (3x17.5 +25)	77.5	35	35	0	Partialy affected (2X17.5)	Unit#1 switched off at 02:17 hrs 16.08.2018 ,due to coooling water outlet temperature high , unit #2 mechanical lockout at 00:27 hrs 16.08.2018. Neriyamangalam Extension Scheme (NES) synchronized back at 13.38 hrs 18.08.2018
				180	180	0	180		Outage since 14:19 hrs ,14.08.2017, EHT Feeders charged through backfeeding, machines not running
		3 4	Lower Periyar (3x60) Poringal (4x8 +16)	48	48	0	48	Due to flooding Due to flooding	yet. Outage since 05:49 hrs, 16.08.2018
		5	Sabarigiri (2x60 +4x55)	340	170	170	0	Partially affected (2X55 + 60)	five machines in service from 19.30hrs. 55 MW machine is out due to other reasons prior to flood an continued to be kept under outage.
		6	Kuthungal (3x7)	21	21	0	21	due to flooding	No generation & communication
		7	Maniyar (3x4)	12	12	0	12	due to flooding	No generation & communication
		8	Allungal (2x3.5)	7	7	0	7	due to flooding	Outage since 22:45 hrs, 14-8-2018
		9	Karikayam (3x3.5)	10.5	7	7	0	due to flooding.	No2& No3 were under outage due to block in penstor path due to mud. Both units are revived by 16:00Hrs on 20.08.18
		10	Urumi 1 & 2 (3x1.25 + 3x0.8)	6.15	6.15	3.75	2.4	Canal Blocked due to land slide	13:00Hrs on 20.08.2018
		11 12	Poozhithodu (3x1.6)	4.8	4.8	0	4.8	due to flooding	Outage since 22:05hrs, 8-8-2018
			Ranni-perinad (2x2) Chempukadavu					due to flooding	Outage since 22:05hrs, 14-8-2018
		13	(2.70+3.75) MATTUPETTY (2)	6.45	6.45	0	6.45	due to flooding due to flooding	Outage since 17:17hrs, 15-8-2018 Outage since 15.00hrs, 11-8-2018
		15	ADYANPARA (2x1.5 +0.5)	3.5	3.5	0	3.5	due to flooding	Outage since 15.00m3, 11-5-2018 Outage since 14-08-2018
			Sub-Total	754.9	538.9	215.75	323.15	Ŭ	<u> </u>
	c.	Due to ot	her reasons/Flood control						
		1	Pallivasal (3x7.5+3x5)	37.5	37.5	0	37.5	For flood control in Munnar Town	Outage since 12:23 hrs,14.08.2018
		6	Sub-Total	37.5 867	37.5 651	0 291	37.5 361		
2			nd Total ission System Affecte		951	291	301		
_	а		n switched off due to inund						
	ű	Sl.No.	Substation Name			Reason for	Outage		Remarks
		1	110KV KURUMASSERY			WATER ENTER			switched off at 17:26 hrs 15.08.2018-
		2	110KV MALAYATTOOR			WATER ENTER			All EHT feeders restored by 23.00hrs on 19.08.18
		3	110KV EDATHUA 110 KV			WATER ENTER			switched off at 21:35 hrs 16.08.2018
		4	KANDASANKADAV			WATER ENTER	RED TO CR		Restored by 9.45Hrs, 18-8-2018 switched off at 04:32 hrs, 18.08.2018. 110kv feeder
		5	110KV PARAPPANANGAD			WATER ENTE	restored at 11:02hr on 20.8.18;Transformer#2-charg 13:39Hrs on 20.8.18;Transfrmr#1 charged at 16:41Hr on 20.8.18		
		6	110 KV EDAYAR			WATER ENTER	RED TO CR		switched off at 12:43 hrs,16-8-2018. restored by 16.15hrs on 19.08.18
		7	66 KV KCPL			WATER ENTER			switched off at 8:55 hrs, 16-8-2018
		- 8	66 KV KUTTANAD			WATER ENTER			switched off at 10.35 Hrs, 17-8-2018 switched off at 12.01 Hrs, 18-8-2018. Restored at
		9	66 KV VAIGA THREADS		N	ION AVAILABILI	19:46Hrs on 19.08.2018 switched off at 12.01Hrs, 18-8-2018 & Restored by		
		10	66KV KORATTY			WATER ENTER			12.50Hrs on 19.08.18 Trfr #1 charged at 17.09Hrs, trfr #2 charged at 17.16H
		11	66KV MULAVUKAD			WATER ENTER			on 19.08.18 switched off at 12.01Hrs, 15-8-2018. Restored at
		12	33 KV VELLIKULANGARA						16:39Hrs on 20.08.2018
		13 14	33 KV KALLETUMKARA 33 KV VADAKEKARA			WATER ENTER			Restored at 18.15 hrs on 19.08.18 switched off at 12.44Hrs, 16-8-2018
		15	33 KV VADAKEKARA 33 KV VARAPUZHA			WATER ENTER			Restored at 14.25 hrs on 19.08.18
		16	33 KV ALANGAD			WATER ENTER	RED TO CR		switched off at 12.46 Hrs, 16-8-2018
	1	17	33 KV THAKAZHI			WATER ENTER	RED TO CR	·	Restored at 15.31hrs , 19-8-2018

	Sl.No.	Name of Transmission Line	Reason for Outage	Remarks	
	1	220 KV Madakathra-Lower Periyar I&II	Lines switched off due to	Restored at 14.28Hrs, 16-8-2018	
	2	220 KV Brahmapuram-Lower Periyar I&II	landsliding at Lower	Restored at 10:58hrs, 19-8-2018	
	3	220 kv IDUKKI-LOWER PERIYAR I&II	Periyar Substation	Restored at 14.28hrs, 16-8-2018	
	4	110KV PUNNAPRA - CHENGALA	FOR SAFETY CLEARENCE	switched off at 19:06 hrs 17.08.2018	
	5	110KV PUNNAPRA - KODIMATHA	FOR SAFETY CLEARENCE	Switched off at 19:06 hrs 17.08.2018	
				Switched off at 13:04 hrs 16.08.2018 and restor	
	7	110KV CHENGANNUR-TRIKODITHANAM	FOR SAFETY CLEARENCE	15:10Hrs on 20.08.2018	
				Switched off at 13:20 hrs 16.08.2018 and restor	
	8	110KV CHENGANNUR- MALLAPPILLY	FOR SAFETY CLEARENCE	16:11Hrs on 20.8.2018	
	9	110kV PUNNAPRA-EDATHUA #1,#2	FOR SAFETY CLEARENCE	Switched off at 21:35 hrs 16.08.2018	
				110KV Kalamassery Edayar #2 charged at IAC at	
	10			hrs 17.08.2018,Ckt#1 charged at 10.51Hrs on 19	
		110KV KALAMASSERY- EDAYAR#1,#2	DUE TO FLOODING	2018	
	11	110 KV KALAMASSERY-METRO #1,2	FOR SAFETY CLEARENCE	switched off at 7:12 hrs 16.08.2018	
				Switched off at 04:32 hrs 18.08.2018 and restor	
	12	110KV CHELARI-PARAPPANANGADI	FOR SAFETY CLEARENCE	20.08.18 at 11.02 hrs.	
	13	110 KV ALUVA-CARBORANDAM-KALAMASSERY	DUE TO ACCESS FAILURE	TRIPPED DUE TO TREE FALL 15-8-2018	
	14	110KVPORINGAL-CHALAKUDY1	DUE TO FLOODING	Switched off at 22:19hrs, 15-8-2018	
				Switched off at 5:50hrs, 16-8-2018 and restored	
	15	110KV PORINGAL-CHALAKUDY2	DUE TO FLOODING	12:49Hrs on 20.8.18	
	16	110 KV CHALAKUDY-TRACTION	DUE TO FLOODING	Switched off at 15:07hrs, 16-8-2018	
				Switched off at 17:14hrs, 16-8-2018 and restore	
	17	110 KV KALAMASSERY-EDAPLLY	DUE TO FLOODING	20.08.18 at 08.36 hrs	
				Ckt#1 & 2 restored at 11.30Hrs &11.52Hrs resp	
	18	110 KV EDAYAR-NORTH PARAVUR 1&2	DUE TO FLOODING	on 19-8-2018	
	19	66 KV ALUVA-PALLIVASAL-1	DUE TO ACCESS FAILURE	TRIPPED DUE TO TREE FALL 15-8-2018, 16:53hrs	
	20	66KV PALLOM - KUTTANAD	FOR SAFETY CLEARENCE	switched off at 11:08 hrs 17.08.2018	
				switched off at 12:01 hrs, 18-8-2018. charged a	
	21	66KV ALUVA - ANGAMALLY	DUE TO ACCESS FAILURE	17.46hrs on 19.08.18	
1	Failure of transi	mission Lines			
	1	Neriamangalam-Kuthungal Line	Tower Slanting	switched off on 14.08.2018	





POWER MAP OF KERALA

AFFECTED GENERATING STATIONS

