



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 20th August 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- महाप्रबंधक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 18.08.2018.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अगस्त-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 19th August 2018, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

20-Aug-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	52756	42052	35575	19602	2644	152629
Peak Shortage (MW)	953	0	0	0	187	1140
Energy Met (MU)	1218	967	816	458	54	3512
Hydro Gen (MU)	348	18	161	109	21	656
Wind Gen (MU)	18	93	226	-----	-----	336
Solar Gen (MU)*	18.83	10.86	36.36	0.79	0.02	67
Energy Shortage (MU)	11.0	0.0	0.0	0.0	1.1	12.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	55341 21:16	43500 19:34	36067 09:22	21287 00:03	2665 19:15	155761 20:25

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	0.020	0.00	0.00	0.98	0.98	85.02	13.99

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	9930	0	220.7	139.1	-0.7	86	0.0
	Haryana	8277	0	178.3	137.4	0.9	295	0.0
	Rajasthan	9976	0	217.2	85.5	1.1	503	0.0
	Delhi	5357	0	108.0	92.5	-1.8	131	0.0
	UP	17750	0	382.5	195.7	0.1	279	0.0
	Uttarakhand	1893	0	39.8	19.7	0.3	115	0.0
	HP	1251	0	26.2	-1.1	2.9	191	0.9
	J&K	2050	513	40.5	18.2	-2.4	89	10.1
	Chandigarh	264	0	5.0	5.6	-0.6	-7	0.0
WR	Chhattisgarh	3600	0	82.9	16.8	-1.9	311	0.0
	Gujarat	12349	0	280.8	73.2	2.4	477	0.0
	MP	7890	0	175.7	84.7	-2.1	506	0.0
	Maharashtra	17146	0	382.2	105.1	-0.6	517	0.0
	Goa	441	0	9.0	7.9	0.5	57	0.0
	DD	309	0	7.1	6.3	0.7	65	0.0
	DNH	768	0	17.9	17.2	0.8	72	0.0
	Essar steel	526	0	11.0	10.8	0.2	311	0.0
SR	Andhra Pradesh	7039	0	158.2	6.1	1.0	477	0.0
	Telangana	7697	0	163.2	52.2	0.4	539	0.0
	Karnataka	7682	0	157.5	23.9	-0.6	747	0.0
	Kerala	2537	0	45.1	16.8	-0.4	299	0.0
	Tamil Nadu	12490	0	284.4	78.7	-0.4	588	0.0
	Pondy	336	0	7.2	7.2	0.0	52	0.0
ER	Bihar	4734	0	99.4	96.2	1.3	100	0.0
	DVC	2903	0	67.9	-30.4	3.6	350	0.0
	Jharkhand	1111	0	24.8	18.8	0.1	80	0.0
	Odisha	4548	0	94.3	46.0	0.8	300	0.0
	West Bengal	8535	0	170.9	56.1	2.1	350	0.0
	Sikkim	72	0	0.8	1.5	-0.7	0	0.0
NER	Arunachal Pradesh	122	5	2.3	2.2	0.2	25	0.0
	Assam	1665	155	35.6	29.3	2.3	188	0.9
	Manipur	151	13	2.1	2.3	-0.1	25	0.0
	Meghalaya	295	5	4.9	0.8	0.0	53	0.0
	Mizoram	79	2	1.4	1.2	-0.1	17	0.0
	Nagaland	119	6	2.3	1.7	0.2	35	0.0
	Tripura	279	0	4.8	4.3	0.1	103	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	33.0	-7.5	-15.3
Day peak (MW)	1517.8	-449.0	-682.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	290.9	-240.8	-11.6	-39.7	1.1	-0.1
Actual(MU)	282.2	-237.0	-15.6	-31.3	2.7	1.0
O/D/U/D(MU)	-8.6	3.8	-4.1	8.4	1.6	1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3690	15717	11012	1470	121	32010
State Sector	8015	17281	13083	5335	50	43764
Total	11705	32998	24095	6805	171	75774

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	523	1031	333	398	8	2293
Hydro	348	18	161	109	21	657
Nuclear	27	27	24	0	0	79
Gas, Naptha & Diesel	16	40	23	0	25	104
RES (Wind, Solar, Biomass & Others)	50	103	299	1	0	453
Total	963	1220	840	508	55	3585

Share of RES in total generation (%)	5.18	8.48	35.56	0.16	0.13	12.63
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	44.10	12.22	57.63	21.57	38.26	33.14

H. Diversity Factor

All India Demand Diversity Factor	1.020
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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 : **20-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	514	0.0	8.9	-8.9
2		SASARAM-FATEHPUR	S/C	376	22	4.0	0.0	4.0
3		GAYA-BALIA	S/C	0	396	0.0	7.0	-7.0
4	HVDC	ALIPURDUAR-AGRA	-	0	784	0.0	17.6	-17.6
5		PUSAULI B/B	S/C	2	377	0.0	5.0	-5.0
6	400 kV	PUSAULI-VARANASI	S/C	0	303	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	49	161	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	651	0.0	11.0	-11.0
9		PATNA-BALIA	Q/C	0	1041	0.0	20.6	-20.6
10		BIHARSHARIFF-BALIA	D/C	0	219	0.0	3.9	-3.9
11		MOTIHARI-GORAKHPUR	D/C	119	0	6.0	0.0	6.0
12		BIHARSHARIFF-VARANASI	D/C	25	0	0.0	1.6	-1.6
13	220 kV	PUSAULI-SAHUPURI	S/C	0	175	0.0	3.5	-3.5
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						10.6	79.1	-68.4
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	858	2	16.0	0.0	16.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	962	0	18.0	0.0	18.0
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1080	0	17.5	0.0	17.5
21		RANCHI-SIPAT	D/C	444	0	8.7	0.0	8.7
22	220 kV	BUDHIPADAR-RAIGARH	S/C	184	22	2.1	0.0	2.1
23		BUDHIPADAR-KORBA	D/C	181	0	3.4	0.0	3.4
ER-WR						65.7	0.0	65.7
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	73.0	898.9	0.0	12.0	-12.0
25	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	373.2	0.0	8.7	-8.7
26		TALCHER-KOLAR BIPOLE	D/C	0.0	303.4	0.0	7.3	-7.3
27	400 kV	TALCHER-I/C	D/C	1012.1	1.0	0.0	22.8	-22.8
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
ER-SR						0.0	28.0	-28.0
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	576	0.0	11.5	-11
30		ALIPURDUAR-BONGAIGAON	D/C	0	254	0.0	4.3	-4
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	130	0.0	4.7	-5
ER-NER						0.0	20.5	-20.5
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	700	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2402	0.0	33.9	-33.9
34		V'CHAL B/B	D/C	240	0	5.2	0.0	5.2
35		APL -MHG	D/C	0	1453	0.0	26.3	-26.3
36	765 kV	GWALIOR-AGRA	D/C	0	1402	0.0	57.5	-57.5
37		PHAGI-GWALIOR	D/C	0	1526	0.0	16.1	-16.1
38		JABALPUR-ORAI	D/C	0	713	0.0	28.3	-28.3
39		GWALIOR-ORAI	S/C	426	0	8.5	0.0	8.5
40	400 kV	SATNA-ORAI	S/C	0	1888	0.0	42.7	-42.7
41		ZERDA-KANKROLI	S/C	56	169	0.0	2.0	-2.0
42		ZERDA -BHINMAL	S/C	3	232	0.0	2.7	-2.7
43		V'CHAL -RIHAND	S/C	963	0	21.6	0.0	21.6
44	220 kV	RAPP-SHUJALPUR	D/C	0	438	0	4	-4
45		BADOD-KOTA	S/C	0	52	0.0	0.7	-0.7
46		BADOD-MORAK	S/C	0	95	0.0	1.2	-1.2
47		MEHGAON-AURAIYA	S/C	90	12	1.2	0.0	1.2
48	132kV	MALANPUR-AURAIYA	S/C	0	51	0.0	0.7	-0.7
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						36.5	215.7	-179.2
Import/Export of WR (With SR)								
50	HVDC LINK	BHADRAWATI B/B	-	0	113	0.0	2.4	-2.4
51	765 kV	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52		SOLAPUR-RAICHUR	D/C	1226	0	14.0	0.0	14.0
53	400 kV	WARDHA-NIZAMABAD	D/C	205	687	0.0	7.5	-7.5
54		KOLHAPUR-KUDGI	D/C	829	0	16.2	0.0	16.2
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	1	98	0.0	1.6	-1.6
WR-SR						30.2	11.5	18.7
TRANSNATIONAL EXCHANGE								
58		BHUTAN						33.0
59		NEPAL						-7.5
60		BANGLADESH						-15.3

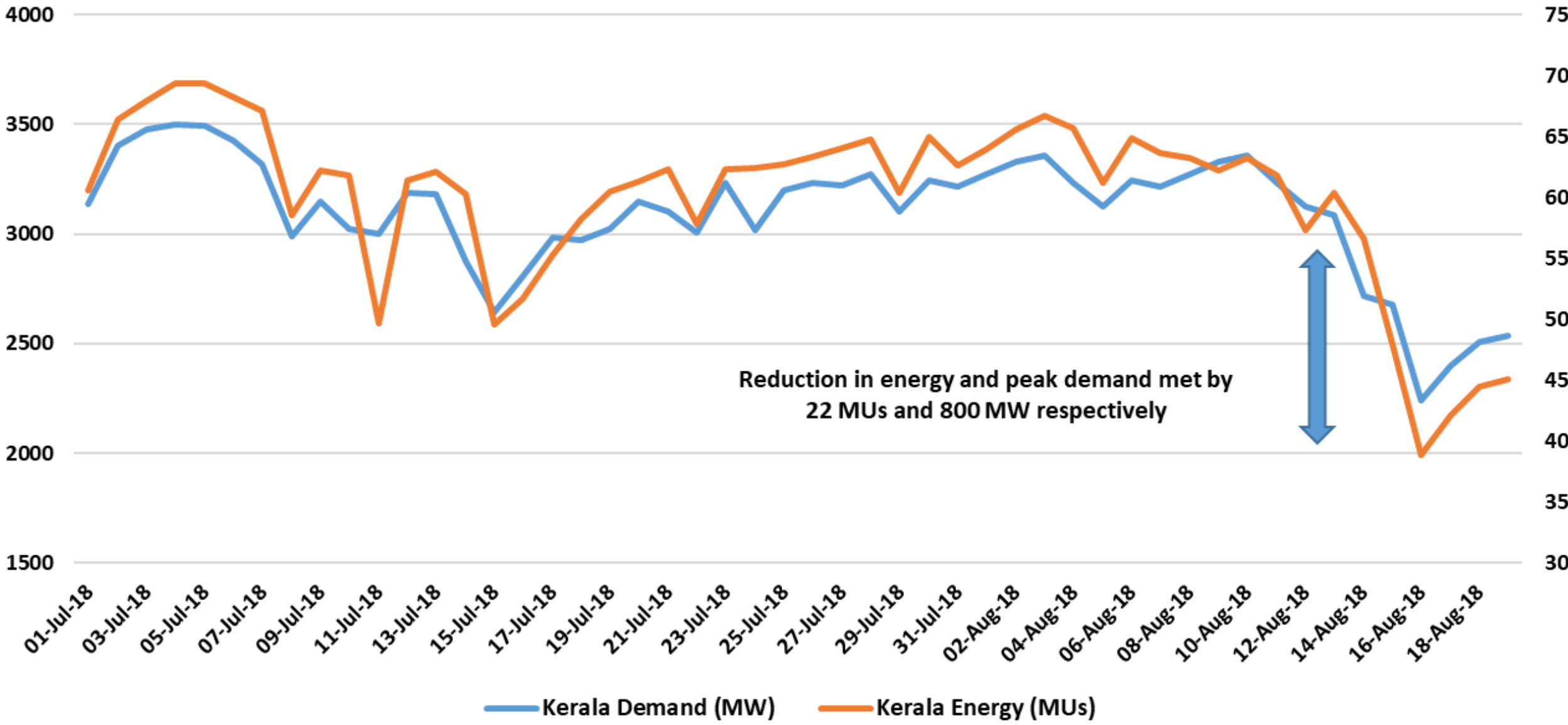
POWER SYSTEM CONDITION IN KERALA					
Date:	20/08/2018 07.00 HRS				
Sl.No.					
1	Generation Affected				
	a	Due to transmission constraints			Unit#1 put in service at 23.50hrs on 19.08.18, Unit#2 at 00.39hrs on 20.08.18.
		1	Idamalayar		
		2			
		3			
	b	Due to power house inundation/tailrace water level high			
		1	Panniyar		From 23:49 hrs, 15.08.2018
		2	Neriamangalam	Partially affected	Unit#1 switched off at 02:17 hrs 16.08.2018 ,due to cooling water outlet temperature high , unit #2 mechanical lockout at 00:27 hrs 16.08.2018.NES synd back at 13.38 hrs 18.08.2018
		3	Lower Periyar	Due to flooding	From 14:19 hrs ,14.08.2017, EHT Feeders charged through backfeeding, machines not running
		4	Poringal	Due to flooding	From 05:49 hrs, 16.08.2018
		5	Sabarigiri	Partially affected	five machines in service from 19.30hrs
		6	Kuthungal	due to flooding	No generation & communication
		7	Maniyar	due to flooding	No generation & communication
		8	Allungal	due to flooding	14-8-2018, 22:45 hrs
		9	Karikayam	due to flooding.	No2& No3 not running-due to block in penstock path due to mud- No1- running
		10	Urumi 2		Machine running.
		11	Poozhithodu	due to flooding	8-8-2018, 22:05hrs
		12	Ranni-perinad	due to flooding	14-8-2018, 22:05hrs
		13	Chempukadavu 1,2	due to flooding	15-8-2018, 17:17hrs
		14	MATTUPETTY	due to flooding	11-8-2018 15.00hrs
15	ADYANPARA	due to flooding	14.08.2018		
c.	Due to other reasons/Flood control				
	1	Pallivasal	For flood control in Munnar Town	From 12:23 hrs,14.08.2018	
2	Transmission System Affected				
	a	Substation s/off due to inundation			
		1	110KV KURUMASSERY	WATER ENTERED TO	switched off at 17:26 hrs 15.08.2018-
		2	110KV MALAYATTOOR		All EHT feeders charged by 23.00hrs on 19.08.18
		3	110KV EDATHUA	WATER ENTERED TO	switched off at 21:35 hrs 16.08.2018
		4	110 KV KANDASANKADAV		Restored 18-8-2018 9.45
		5	110KV PARAPPANANG	WATER ENTERED TO	switched off at 04:32 hrs 18.08.2018
		6	110 KV EDAYAR		16-8-2018, 12:43 hrs, substation energized and feeders charged by 16.15hrs on 19.08.18
		7	66 KV KCPL	WATER ENTERED TO	16-8-2018, 8:55 hrs
		8	66 KV KUTTANAD	WATER ENTERED TO	17-8-2018, 10.35
		9	66 KV VAIGA THREADS	NON AVAILABILITY O	18-8-2018 12.01
		10	66KV KORATTY		18-8-2018 12.01 & charged at 12.50 on 19.08.18
		11	66KV MULAVUKAD		Trfr #1 charged at 17.09, trfr #2 charged at 17.16 on 19.08.18
12	33 KV VELLIKULANGAR	WATER ENTERED TO	15-8-2018 12.01		

13	33 KV KALLETUMKARA		Charged at 18.15 hrs on 19.08.18
14	33 KV VADAKEKARA	WATER ENTERED TO	16-8-2018 12.44
15	33 KV VARAPUZHA		Charged at 14.25 hrs on 19.08.18, All feeders charged
16	33 KV ALANGAD	WATER ENTERED TO	16-8-2018 12.46
17	33 KV THAKAZHI		RESTORED 19-8-2018 --15.31hrs
b	EHT lines(66kV and above) s/off due to flood related issues		
1	220 KV Madakathra-Lower Periyar I&II		RETURNED AT 16-8-2018 14.28
2	220 KV Brahmapuram-Lower Periyar I&II		RETURNED AT 19-8-2018 10:58hrs
3	220 kv IDUKKI-LOWER PERIYAR I&II		RETURNED AT 16-8-2018 14.28hrs
4	110KV PUNNAPRA - CHENGALA	FOR SAFETY CLEARANCE	switched off at 19:06 hrs 17.08.2018
5	110KV PUNNAPRA - KODIMATHA	FOR SAFETY CLEARANCE	Switched off at 19:06 hrs 17.08.2018
7	110KV CHENGANNUR-TRIKODITHANAM	FOR SAFETY CLEARANCE	Switched off at 13:04 hrs 16.08.2018 and charged upto Believers hospital at 13:07 hrs 16.08.2018
8	110KV CHENGANNUR-MALLAPPILLY	FOR SAFETY CLEARANCE	Switched off at 13:20 hrs 16.08.2018
9	110kv PUNNAPRA-EDA	FOR SAFETY CLEARANCE	Switched off at 21:35 hrs 16.08.2018
10	110KV KALAMASSERY- EDAYAR#1,#2		110KV Kalamassery Edayar #2 charged at IAC at 11:23 hrs 17.08.2018,no1 charged at 10.51 on 19-8-2018
11	110 KV KALAMASSERY-	FOR SAFETY CLEARANCE	switched off at 7:12 hrs 16.08.2018
12	110KV CHELARI-PARAPPANANGADI	FOR SAFETY CLEARANCE	Switched off at 04:32 hrs 18.08.2018
13	110 KV ALUVA-CARBORANDAM-KALAMASSERY	DUE TO ACCESS FAIL	TRIPPED DUE TO TREE FALL 15-8-2018
14	110KVPORINGAL-CHALAKUDY1	DUE TO FLOODING	15-8-2018, 22:19hrs
15	110KV PORINGAL-CHALAKUDY2	DUE TO FLOODING	16-8-2018, 5:50hrs
16	110 KV CHALAKUDY-TF	DUE TO FLOODING	16-8-2018, 15:07hrs
17	110 KV KALAMASSERY-EDAPLLY	DUE TO FLOODING	16-8-2018, 17:14hrs
18	110 KV EDAYAR-NORTH PARAVUR 1&2		RESTORED 19-8-2018 11.30,11.52
19	66 KV ALUVA-PALLIVASAL-1	DUE TO ACCESS FAIL	TRIPPED DUE TO TREE FALL 15-8-2018, 16:53hrs
20	66KV PALLOM - KUTTANAD	FOR SAFETY CLEARANCE	switched off at 11:08 hrs 17.08.2018
21	66KV ALUVA - ANGAMALLYV	DUE TO ACCESS FAIL	18-8-2018, 12:01 hrs, charged at 17.46hrs on 19.08.18

3		Failure of transmission Lines		
	1	Neriamangalam-Kuthu	Tower Slanting	From 14.08.2018 onwards
		Load affected		
			Anticipated Normal Demand	Actual Demand
		Evenig Peak MW	3670	2613
		Day Peak MW	2650	1972
		Night Off Peak MW	2000	1482
		Consumption Mu	62	44.9677

Kerala Demand Trend

Energy Met



Kerala Hydro Generation

Ave. Hydro Gen.

Hydel Energy

