



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: 19th August 2018

To,

1. कार्यकारी निदेशक, पू. क्षेत्र. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. महाप्रबंधक, ऊ. क्षेत्र. 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. क्षेत्र. 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. क्षेत्र. भा. प्रे. के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. महाप्रबंधक, द. क्षेत्र. 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,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-अगस्त-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 18th 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

19-Aug-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	52740	44486	38888	21902	2723	160739
Peak Shortage (MW)	1583	0	0	350	176	2109
Energy Met (MU)	1267	987	842	481	53	3631
Hydro Gen (MU)	297	18	160	109	22	607
Wind Gen (MU)	7	57	233	-----	-----	297
Solar Gen (MU)*	19.00	9.22	41.98	0.86	0.01	71
Energy Shortage (MU)	10.7	0.0	0.0	1.1	1.2	12.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	56708	46145	39099	22831	2740	163450
	00:13	19:34	19:28	20:03	20:44	19:34

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	0.051	0.00	1.26	12.41	13.67	76.50	9.83

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	9997	0	224.9	136.8	-1.0	92	0.0
	Haryana	8940	0	192.4	148.5	0.0	201	0.0
	Rajasthan	10048	0	226.2	98.8	0.9	435	0.0
	Delhi	5704	6	117.9	102.3	-1.9	93	0.2
	UP	18397	0	393.5	201.2	-0.2	350	0.3
	Uttarakhand	1900	0	41.7	22.1	0.1	77	0.0
	HP	1479	0	29.0	-0.8	5.7	663	1.5
	J&K	1906	476	36.4	16.2	-4.5	100	8.7
	Chandigarh	257	0	5.2	6.1	-0.8	19	0.0
WR	Chhattisgarh	3846	0	88.2	16.4	0.1	479	0.0
	Gujarat	12897	0	284.1	67.6	3.6	947	0.0
	MP	8237	0	179.9	84.1	1.6	537	0.0
	Maharashtra	17532	0	387.7	107.9	0.0	462	0.0
	Goa	441	0	9.0	8.2	0.1	62	0.0
	DD	342	0	7.7	6.4	1.3	93	0.0
	DNH	776	0	17.9	16.5	1.4	105	0.0
	Essar steel	585	0	12.4	11.6	0.8	307	0.0
SR	Andhra Pradesh	7124	0	161.6	5.7	2.0	478	0.0
	Telangana	8375	0	177.3	54.5	-0.9	458	0.0
	Karnataka	7745	0	161.0	24.4	-4.4	513	0.0
	Kerala	2505	0	44.5	18.0	-1.9	114	0.0
	Tamil Nadu	14107	0	289.6	81.2	-1.5	505	0.0
	Pondy	352	0	7.6	7.6	0.0	69	0.0
ER	Bihar	4891	0	95.9	95.6	-1.6	200	0.0
	DVC	2929	0	67.9	-31.8	3.4	400	0.5
	Jharkhand	1072	0	25.3	18.9	0.4	100	0.0
	Odisha	5116	0	106.1	52.3	3.3	500	0.6
	West Bengal	8970	0	185.0	57.1	4.4	450	0.0
	Sikkim	89	0	1.1	1.1	0.0	15	0.0
NER	Arunachal Pradesh	123	3	2.3	2.3	0.0	25	0.0
	Assam	1741	94	35.0	28.5	2.3	188	0.9
	Manipur	162	3	2.3	2.2	0.1	25	0.0
	Meghalaya	305	0	5.4	0.7	-0.1	53	0.0
	Mizoram	77	5	1.5	1.1	0.1	17	0.0
	Nagaland	123	3	2.3	1.7	0.2	35	0.0
	Tripura	283	1	4.6	4.6	0.6	103	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	33.3	-6.8	-14.0
Day peak (MW)	1645.8	-372.0	-696.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	330.7	-271.3	-14.2	-44.8	0.2	0.5
Actual(MU)	323.4	-270.2	-16.4	-35.1	1.7	3.5
O/D/U/D(MU)	-7.2	1.1	-2.2	9.7	1.5	2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4260	16077	11012	1470	121	32941
State Sector	8675	17831	12833	5335	50	44723
Total	12935	33908	23845	6805	171	77664

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	581	1074	362	426	10	2453
Hydro	297	23	160	109	22	611
Nuclear	27	27	24	0	0	79
Gas, Naptha & Diesel	36	39	23	0	24	122
RES (Wind, Solar, Biomass & Others)	39	104	312	1	0	455
Total	980	1267	882	536	56	3720

Share of RES in total generation (%)	3.94	8.19	35.35	0.16	0.05	12.23
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.03	12.14	56.28	20.54	39.24	30.77

H. Diversity Factor

All India Demand Diversity Factor	1.025
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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.

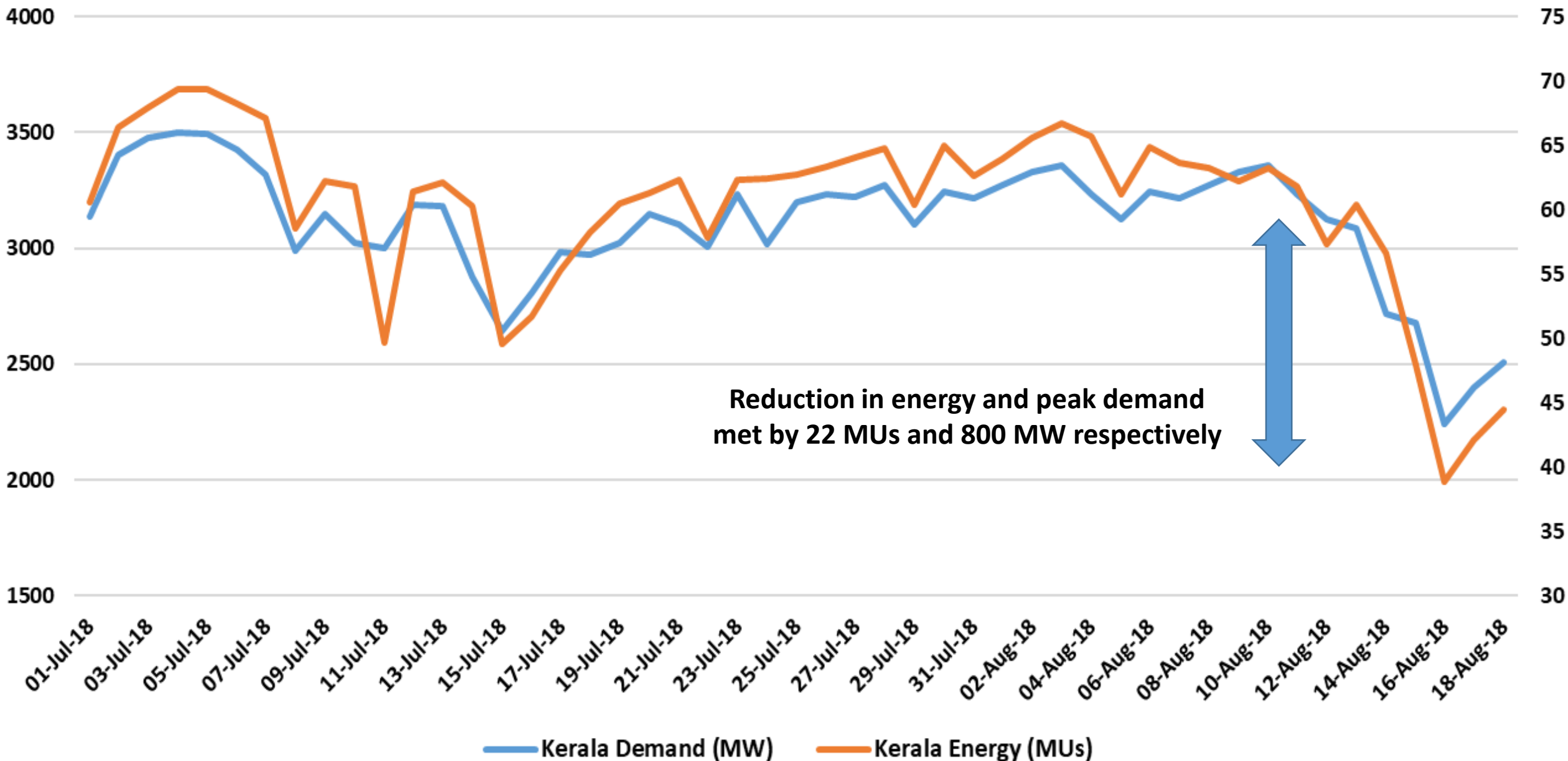
INTER-REGIONAL EXCHANGES						Date of Reporting : 19-Aug-18		
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	765kV	GAYA-VARANASI	D/C	0	379	0.0	4.8	-4.8
2		SASARAM-FATEHPUR	S/C	489	0	8.1	0.0	8.1
3		GAYA-BALIA	S/C	0	555	0.0	9.4	-9.4
4		ALIPURDUAR-AGRA	-	0	973	0.0	22.0	-22.0
5	HVDC	PUSAULI B/B	S/C	0	378	0.0	9.2	-9.2
6		PUSAULI-VARANASI	S/C	0	307	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	151	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	650	0.0	10.3	-10.3
9		PATNA-BALIA	Q/C	0	1333	0.0	25.1	-25.1
10		BIHARSHARIFF-BALIA	D/C	0	309	0.0	6.3	-6.3
11		MOTIHARI-GORAKHPUR	D/C	119	0	5.5	0.0	5.5
12		BIHARSHARIFF-VARANASI	D/C	25	0	1.8	0.0	1.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	184	0.0	3.8	-3.8
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.6	0.0	0.6
15		GARWAH-RIHAND	S/C	35	0	0.0	0.0	0.0
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAUJI	S/C	0	0	0.0	0.0	0.0
ER-NR						16.0	90.8	-74.7
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	901	0	17.0	0.0	17.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	1074	0	19.5	0.0	19.5
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1092	0	21.8	0.0	21.8
21		RANCHI-SIPAT	D/C	496	0	9.2	0.0	9.2
22	220 kV	BUDHIPADAR-RAIGARH	S/C	147	0	1.9	0.0	1.9
23		BUDHIPADAR-KORBA	D/C	192	0	3.8	0.0	3.8
ER-WR						73.2	0.0	73.2
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	159.0	763.9	0.0	6.3	-6.3
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	3.3	369.1	0.0	8.6	-8.6
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1186.8	0.0	10.7	-10.7
27	400 kV	TALCHER-I/C	D/C	1306.5	0.6	0.0	30.7	-30.7
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
ER-SR						0.0	25.6	-25.6
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	701	0.0	11.0	-11
30		ALIPURDUAR-BONGAIGAON	D/C	54	396	0.0	12.5	-12
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	145	0.0	4.4	-4
ER-NER						0.0	27.9	-27.9
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	1001	0.0	18.5	-18.5
NER-NR						0.0	18.5	-18.5
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2404	0.0	54.7	-54.7
34		V'CHAL B/B	D/C	240	200	1.2	2.1	-0.9
35		APL -MHG	D/C	0	1546	0.0	34.9	-34.9
36		GWALIOR-AGRA	D/C	0	1396	0.0	57.1	-57.1
37	765 kV	PHAGI-GWALIOR	D/C	0	1658	0.0	32.0	-32.0
38		JABALPUR-ORAI	D/C	0	691	0.0	26.7	-26.7
39		GWALIOR-ORAI	S/C	457	0	8.8	0.0	8.8
40		SATNA-ORAI	S/C	0	1919	0.0	42.4	-42.4
41	400 kV	ZERDA-KANKROLI	S/C	0	215	0.0	2.9	-2.9
42		ZERDA -BHINMAL	S/C	0	277	0.0	3.7	-3.7
43		V'CHAL -RIHAND	S/C	969	0	21.8	0.0	21.8
44		RAPP-SHUJALPUR	D/C	0	474	0	4	-4
45	220 kV	BADOD-KOTA	S/C	19	49	0.0	0.6	-0.6
46		BADOD-MORAK	S/C	2	84	0.0	1.0	-1.0
47		MEHGAON-AURAIYA	S/C	96	12	0.6	0.0	0.5
48		MALANPUR-AURAIYA	S/C	2	39	0.0	0.5	-0.5
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						32.4	262.6	-230.2
Import/Export of WR (With SR)								
50	HVDC	BHADRAWATI B/B	-	385	109	2.5	1.5	0.9
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	1836	0	20.5	0.0	20.5
53		WARDHA-NIZAMABAD	D/C	507	963	0.0	4.5	-4.5
54	400 kV	KOLHAPUR-KUDGI	D/C	1006	0	16.4	0.0	16.4
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56		PONDA-AMBEWADI	S/C	1	1	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	0	106	0.0	2.0	-2.0
WR-SR						39.4	8.0	31.3
TRANSNATIONAL EXCHANGE								
58		BHUTAN						33.3
59		NEPAL						-6.8
60		BANGLADESH						-14.0

POWER SYSTEM CONDITION IN KERALA AS ON 18.08.18				
Date:	18/08/2018			
Sl. No.				
1	Generation Affected			
	a	Due to transmission constraints		
		1	Idamalayar	From 08:30 hrs, 16.08.2018
	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	From 02:08 hrs ,16.08.2017
		4	Poringal	From 05:49 hrs, 16.08.2018
		5	Sabarigiri	Partially affected Unit #6 on frequent tripping due to LGB cooling water flow low from 12:03 hrs ,16.08.2018 onwards and unit #6 normalized from 17:25 hrs
	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 CR switched off at 17:26 hrs 15.08.2018
		2	110KV MALAYATTOOR	WATER ENTERED TO CR switched off at 08:42 hrs 16.08.2018 & Charged back at 16:04 Hrs 18.08.2018
		3	110KV EDATHUA	WATER ENTERED TO CR switched off at 21:35 hrs 16.08.2018
		4	66KV MULAVUKAD	WATER ENTERED TO CR switched off, 17.08.2018
		6	110KV THAKAZHI	WATER ENTERED TO CR Switched off at 15:13 hrs 18.08.2018
		7	110 KV KANDASANKADAV	WATER ENTERED TO CR Switched off at 18:52 hrs 18.08.2018
		8	110KV PARAPPANANGADI	WATER ENTERED TO CR switched off at 04:32 hrs 18.08.2018
	b	EHT lines(66kV and above) s/off due to flood related issues		
		1	66KV PALLOM - KUTTANAD	FOR SAFETY CLEARENCE switched off at 11:08 hrs 17.08.2018
		2	110KV PUNNAPRA - CHENGALA	FOR SAFETY CLEARENCE switched off at 19:06 hrs 17.08.2018
		3	110KV PUNNAPRA - KODIMATHA	FOR SAFETY CLEARENCE Switched off at 19:06 hrs 17.08.2018
		4	110KV CHENGANNUR-TRIKODITHANAM	FOR SAFETY CLEARENCE Switched off at 13:04 hrs 16.08.2018 and charged upto Believers hospital at 13:07 hrs 16.08.2018
		5	110KV CHENGANNUR- MALLAPPILLY	FOR SAFETY CLEARENCE Switched off at 13:20 hrs 16.08.2018
		6	110KV PUNNAPRA-EDATHUA #1,#2	FOR SAFETY CLEARENCE Switched off at 21:35 hrs 16.08.2018
		7	110KV KALAMASSERY- EDAYAR#1,#2	FOR SAFETY CLEARENCE Tripped at 11:12 & 11:44 hrs 16.08.2018 not charged due to safety clearance and 110KV Kalamassery Edayar #2 charged at IAC at 11:23 hrs 17.08.2018
		8	110 KV KALAMASSERY-METRO #1,2	FOR SAFETY CLEARENCE switched off at 7:12 hrs 16.08.2018
		9	110KNV CHELARI-PARAPPANANGADI	FOR SAFETY CLEARENCE Switched off at 04:32 hrs 18.08.2018
	c.	Failure of transmission Lines		
		1	Neriamangalam-Kuthungal Line	Tower Slanting From 14.08.2018 onwards

Peak Demand Met

Kerala Demand Trend

Energy Met



Kerala Hydro Generation

Ave. Hydro Gen.

Hydel Energy

