

Sept  
2017

WATCH YOUR POWER QUALITY

A photograph of four people (three men and one woman) standing in a shop. The shop is filled with various items, including solar panels, a solar lighting kit, and other electronic components. The people are smiling and looking towards the camera. The man on the far left is wearing a red shirt and holding a folder. The woman next to him is wearing a white shirt. The man in the middle is wearing a blue and white striped polo shirt with sunglasses hanging from his neck. The man on the far right is wearing a brown polo shirt. In the foreground, there are two solar panels and a solar lighting kit.

# ESMI

## ELECTRICITY SUPPLY MONITORING INITIATIVE

MONTHLY ANALYSIS REPORT - SEPTEMBER 2017

**Hivos**  
people unlimited

**iied**

[www.betterpower-tanzania.org](http://www.betterpower-tanzania.org)

# SUMMARY

Electricity Supply Monitoring Initiative (ESMI) is a program being implemented by Energy Change Lab. It aims to improve transparency and provide evidence based feedback about the quality of electricity supply. Under ESMI, specially designed, mobile data enabled monitors are being deployed at each location and supply quality data is published daily at [betterpower-tanzania.org](http://betterpower-tanzania.org). It was launched in June 2017 and currently covers 5 districts of Dar es salaam region with 25 devices.

This report presents a summary analysis of supply quality data from 19 locations (Dar es Salaam region) of which 90% of its data were available for September 2017. This analysis covers three main parameters of supply quality: i) no supply hours, ii) number of interruptions, and, iii) evening hours of supply. The analysis covers households, offices and Industries. See notes at the end for more details and explanation.

## In September 2017



89%

**ESMI Locations**  
experienced outages for  
more than 15 hours



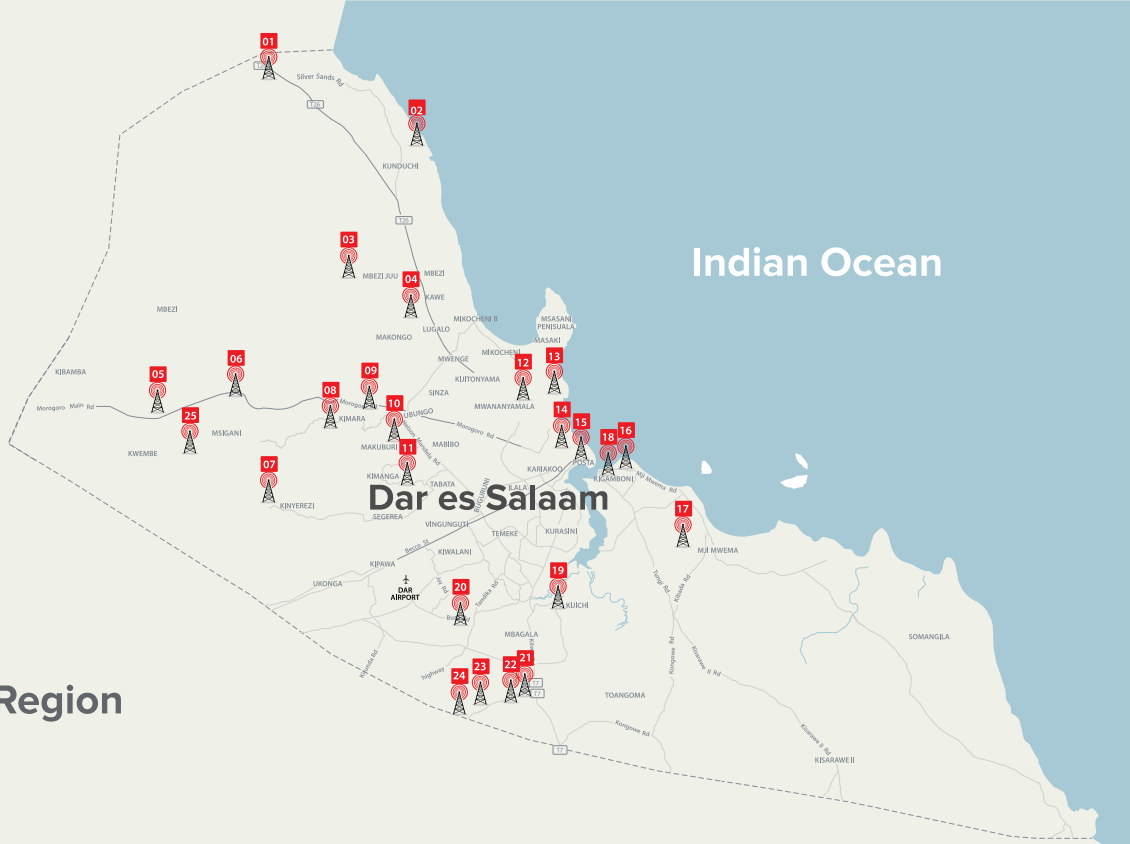
32%

**ESMI Location**  
experienced more than 30  
interruptions, each greater  
than 15 min



32%

**ESMI Locations**  
experienced average daily  
outage of 30 min or more  
during evening hours



**Coastal Region**

**Map showing current ESMI - Devices at Dar es Salaam**

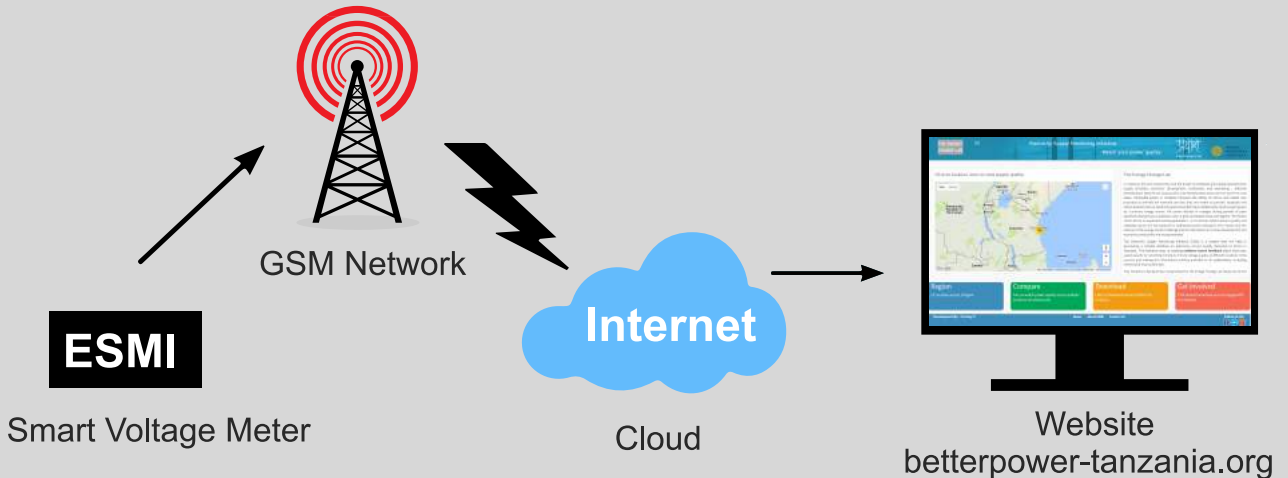
## Supply Quality in Districts - September 2017

**Average number of interruptions per location**

District	ESMI Locations	Short - 15 Minutes to 1 Hour	Long - 1 hour and more	Average no supply hours per location
Kigamboni	3	21	12	41 hrs
Temeke	4	15	23	125 hrs
Ilala	2	4	6	27 hrs
Ubungo	4	9	12	47 hrs
Kinondoni	6	5	3	17 hrs

# ESMI Locations Receiving Entire Six Hours Of Evening Supply

Evening supply hours considered is between 5 p.m. to 11 p.m. and this analysis ignores upto 2 hours of total evening supply interruptions during the month.



## Notes:

- Analysis in this report covers locations with more than 90% data availability during the month.
- Analysis, except evening hours of supply, consider interruptions of more than 15 minutes.
- In some cases the interruptions were caused by customers inability to pay on time.

[www.energychangelab.org](http://www.energychangelab.org)