

Aug
2017

WATCH YOUR POWER QUALITY

A photograph of four people (three men and one woman) standing in a shop filled with various electrical and solar products. The man on the far left is wearing a red shirt and holding a green folder. The woman next to him is wearing a white shirt. The man in the center is wearing a blue and white striped polo shirt with sunglasses hanging from his collar. The man on the far right is wearing a brown polo shirt. In the foreground, there are solar panels and a solar lighting kit. The background shows shelves stocked with various items, including light bulbs and boxes.

ESMI

ELECTRICITY SUPPLY MONITORING INITIATIVE

MONTHLY ANALYSIS REPORT - AUGUST 2017

Hivos
people unlimited

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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. 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 20 locations (Dar es Salaam region) of which 90% of its data were available for August 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 August 2017



80%

ESMI Locations
experienced outages for
more than 15 hours



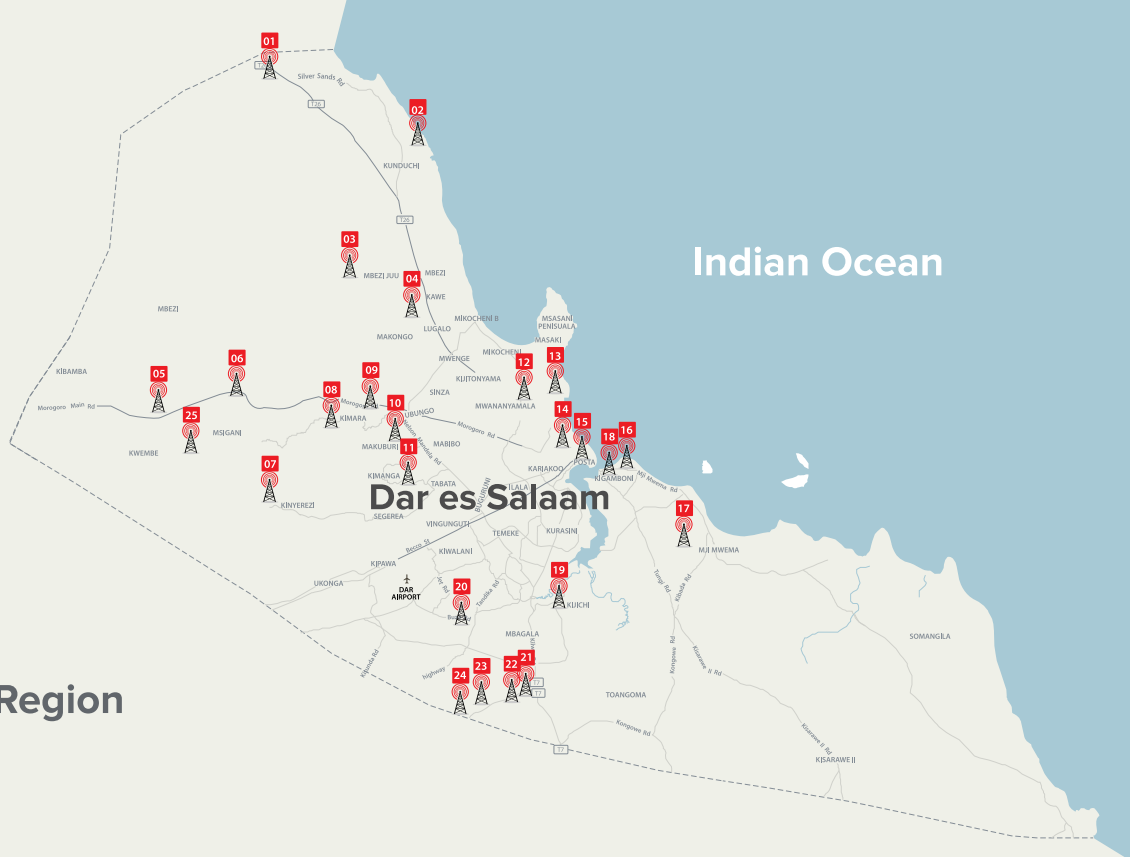
NONE

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



25%

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



Map showing current ESMI - Devices at Dar es Salaam

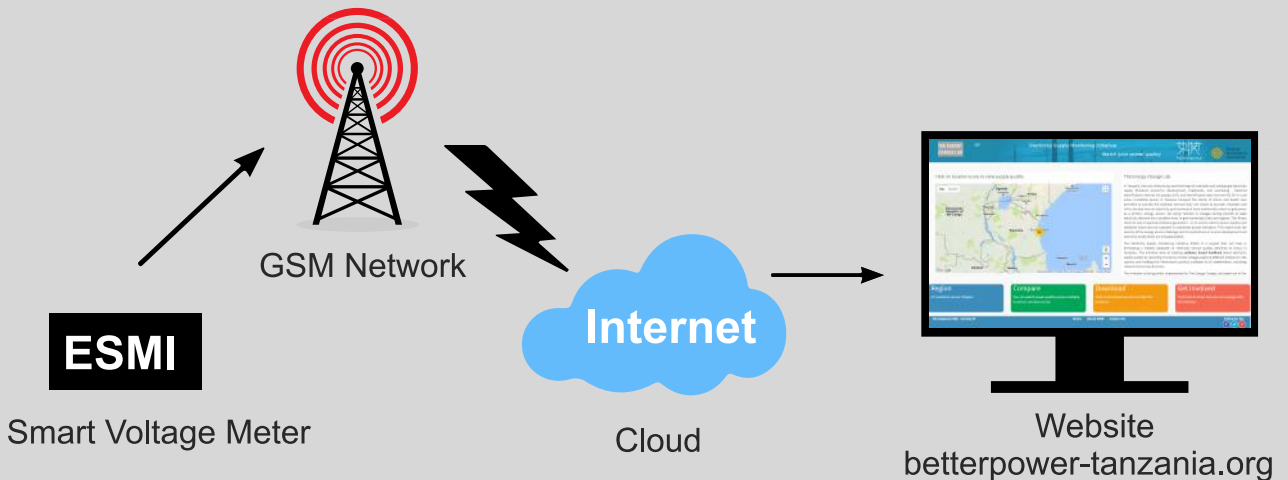
Supply Quality in Districts - August 2017

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	2	15	6	55 hrs
Temeke	5	8	14	94 hrs
Ilala	3	7	7	30 hrs
Ubungo	4	12	6	26 hrs
Kinondoni	6	4	6	36 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