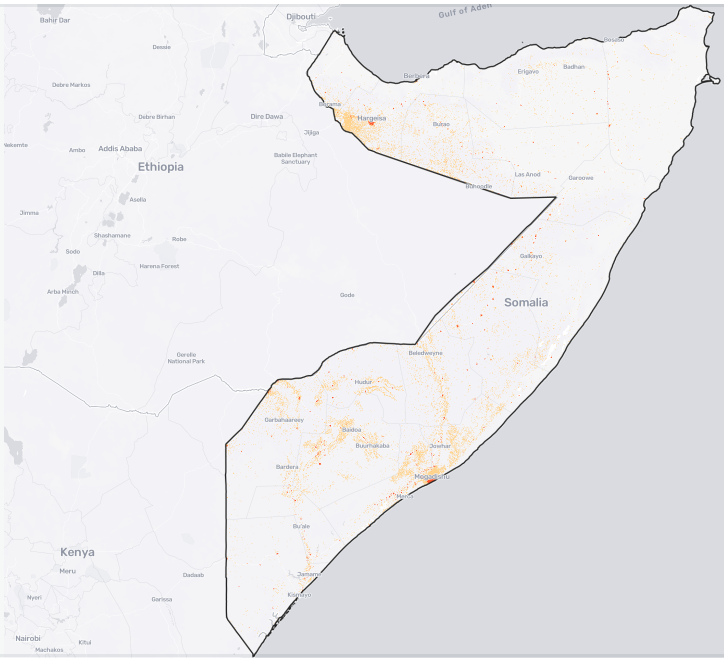
Somalia

Somalia OnSSET v1.0

Somalia Electrification Platform

Explore least cost electrification strategies in Somalia



Year

2030

Technologies

- Expanded Mini Grid
- Mini Grid Hybrid PV Diesel
- Mini Grid Hybrid Wind Diesel
- Stand Alone PV

Population connected

Expanded Mini Grid	0
Mini Grid Hybrid PV Diesel	11 462 904
Mini Grid Hybrid Wind Diesel	66 794
Stand Alone PV	9 583 260
	21 112 958

Investment required

Expanded Mini Grid	0
Mini Grid Hybrid PV Diesel	1 228 233 595
Mini Grid Hybrid Wind Diesel	5 050 902
Stand Alone PV	320 386 740
	1 553 671 237

Added capacity

Expanded Mini Grid	0
Mini Grid Hybrid PV Diesel	632 326
Mini Grid Hybrid Wind Diesel	1 696
Stand Alone PV	117 212
	751 234

Scenarios

The model determined the least cost electrification option for each area based on the following assumptions.

Transmission network outlook

Mini-grids and stand-alone only

Intensification strategy

No intensification

Demand target

Low

Distribution costs

Existing local technologies

Mini-grid PV panel cost

Low

Diesel cost

Low (0.68 USD/litre)

Filters

The model results were further narrowed down using the following filters..

No filters applied to the model results.

About the model

Developed by: KTH

Last updated: 2020-02-24

This model is developed using the Open Source Spatial Electrification Tool (OnSSET). For more information on the functionality of the model please contact the development team at KTH.