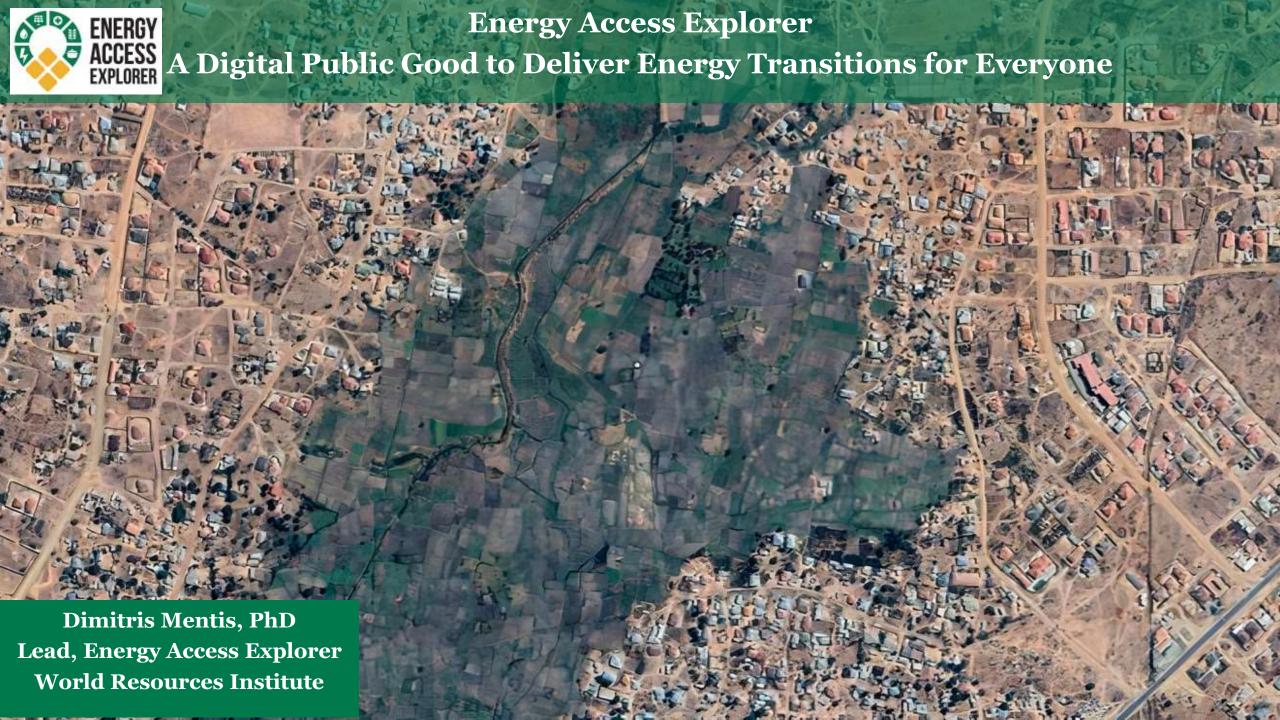


CLICK TO KNOW MORE



IMPORTANCE OF ENERGY FOR SOCIO-ECONOMIC DEVELOPMENT

675 million people no access to electricity / 2 billion people cook with polluting fuels





Energy is interconnected with 125 (74%) out of 169 SDG targets

TREAT DEMAND AND SUPPLY AS EQUAL





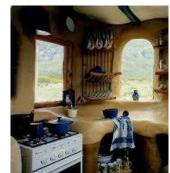














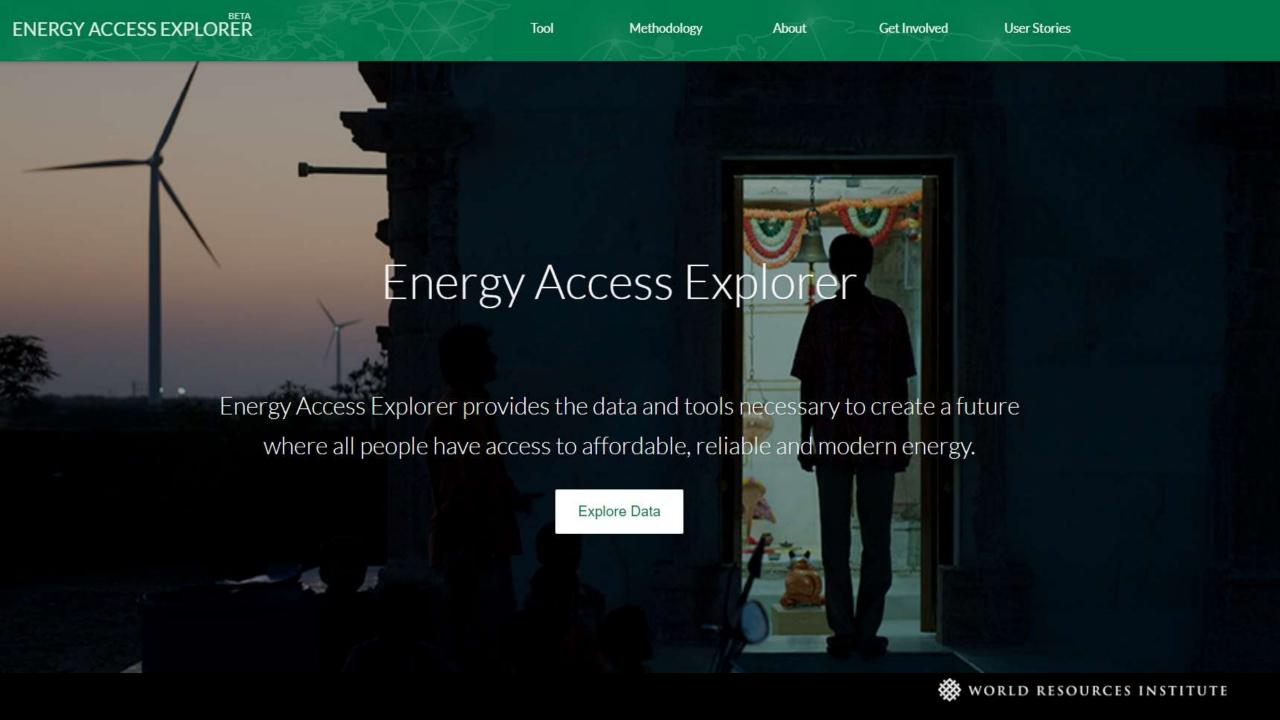


REDUCE RELIANCE ON GIS AND PROGRAMMING EXPERTISE FOR DATA USERS



DEPLOY AN OPEN-SOURCE DYNAMIC INFORMATION SYSTEM FOR DATA PROVIDERS





Energy Access Explorer

Equity-driven Data-informed

Integrated

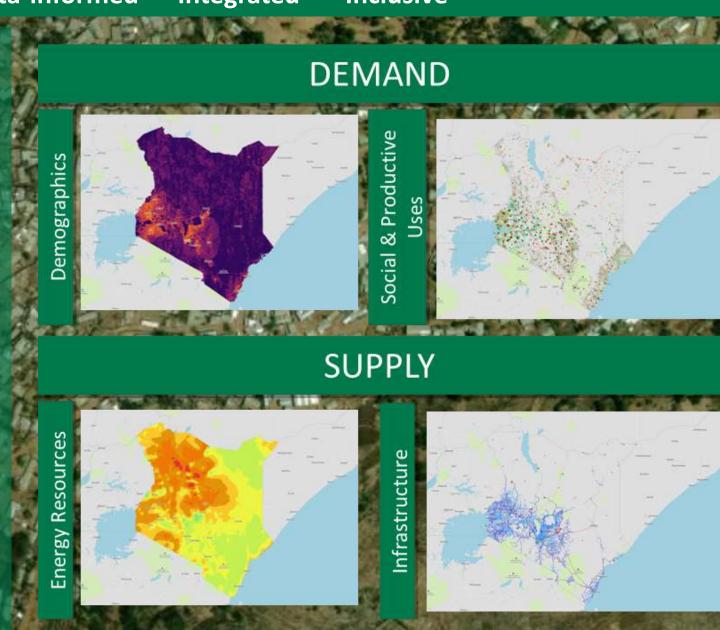
Inclusive

Dual Functionality

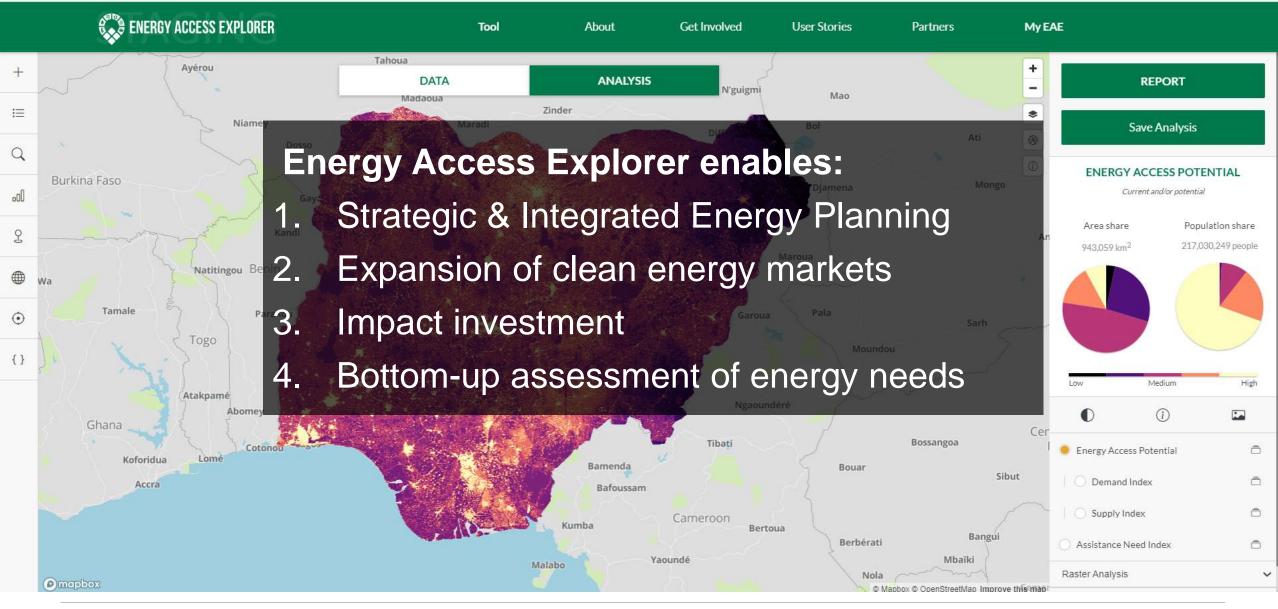
- ✓ High resolution Priority Areas for Energy Access Interventions
- Dynamic Information System for Data Providers

Data in different scales and formats:

- ✓ Open Census
- ✓ Satellite
- ✓ Global
- ✓ National
- ✓ Sub-national
- ✓ Primary



EAE USE CASES



Energy Access Explorer – Frontend Open Online Interactive Customizable

Example of EAE Data – Uganda In collaboration with Uganda's Energy Sector GIS Working Group and Ministry of Health

Demographics

Population density

Socio economic activities

- Education facilities
- Health care facilities
- Agricultural zones

Resource availability

Global Horizontal Irradiation

Infrastructure

 Transmission, Distribution and Power Generation network

Environment

Protected areas

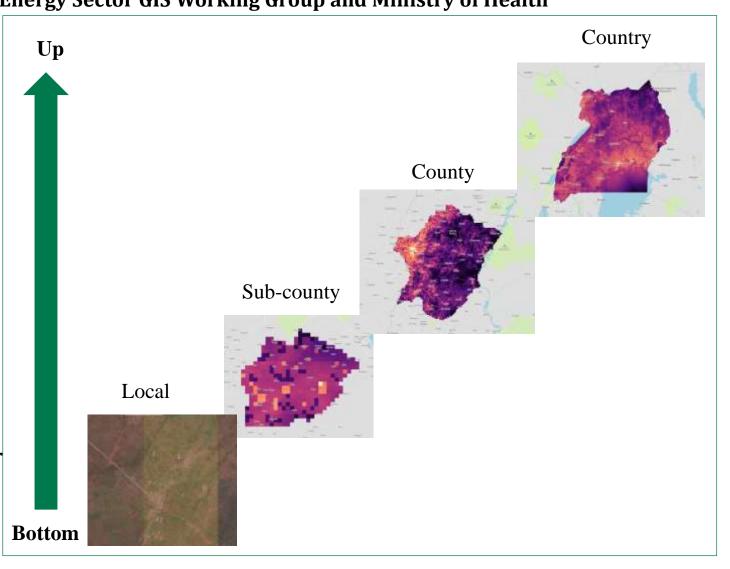
Finance

Finance service providers

Multicriteria analysis

High priority areas close to health care facilities, far from distribution lines and with high solar irradiation

Plus high population density, and high agricultural productivity

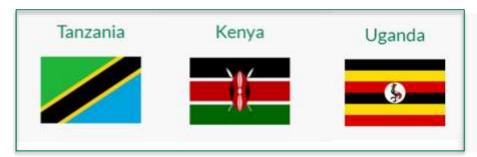


A DATA DRIVEN, INTEGRATED AND INCLUSIVE APPROACH TO PLANNING FOR ACHIEVING UNIVERSAL ACCESS TO ENERGY FOR EQUITABLE DEVELOPMENT

- Covers countries with 32% of the total unserved population globally
- Originally prototyped for 3
 countries and is now being
 developed for 23 geographies, at
 both national and subnational
 levels
- Close partnership with > 200 stakeholders and users.
- > 20,000 users
- > 15 MUSD in kind contributions



NEW GEOGRAPHIES



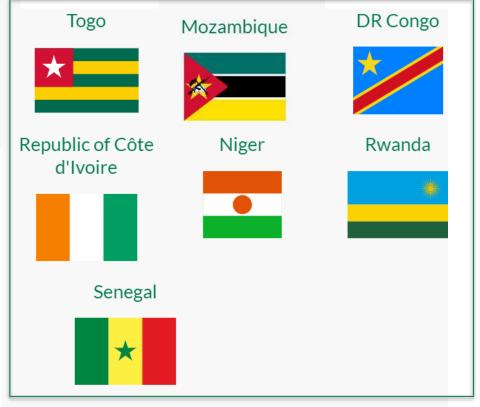
Prototype



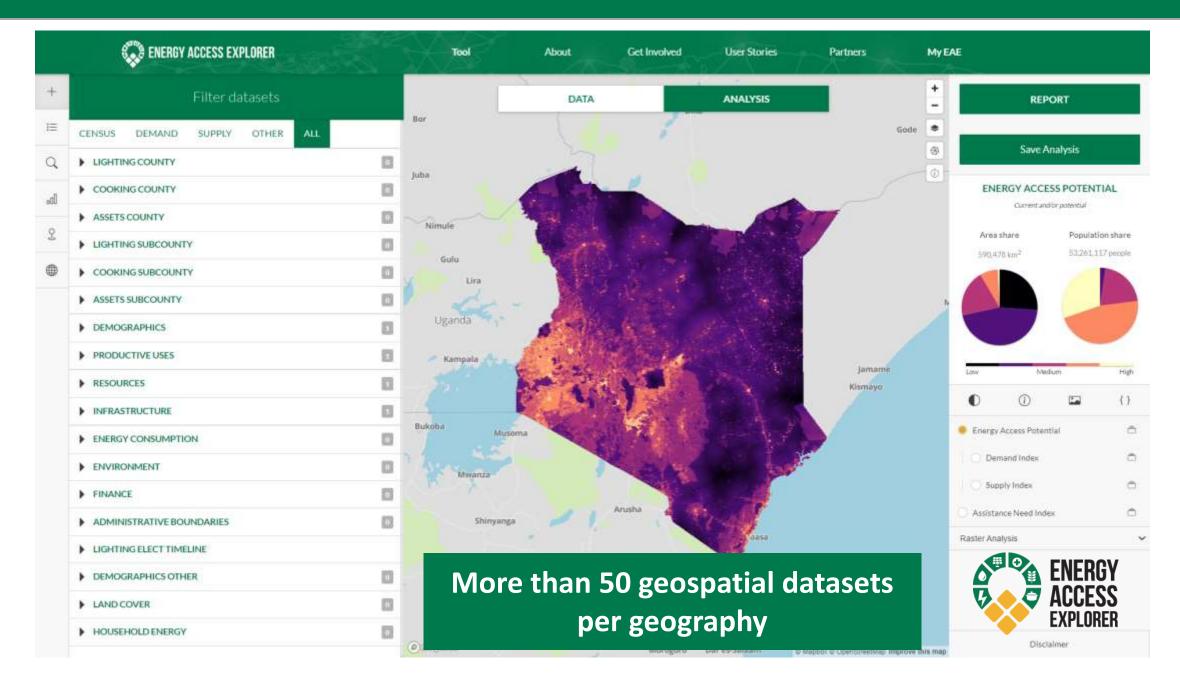
New



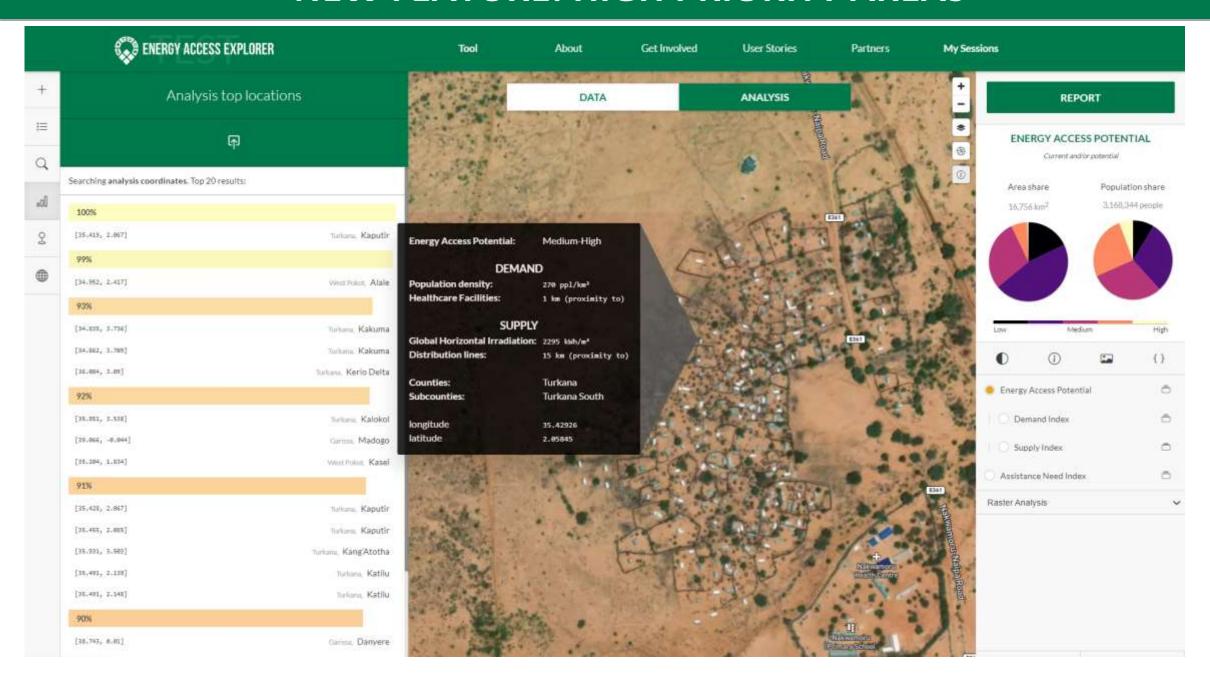
Pipeline



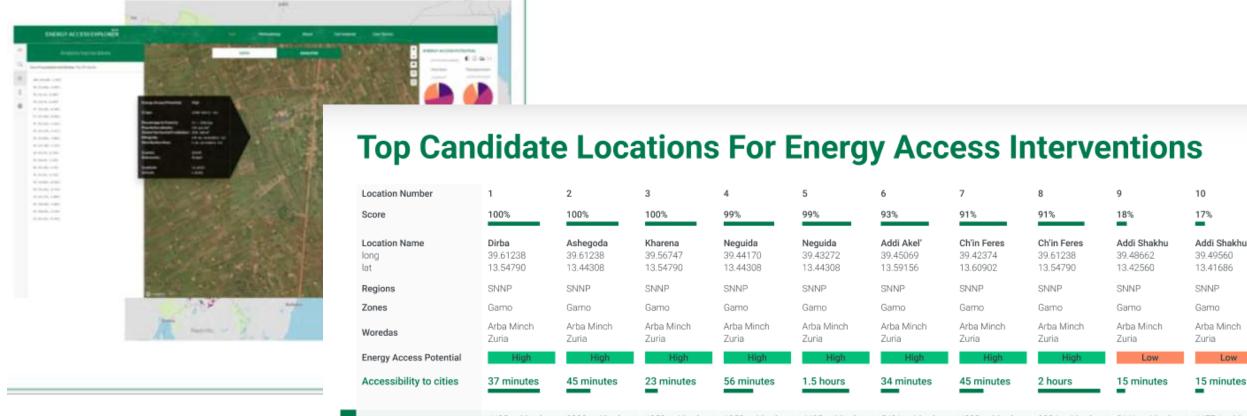
NEW DATA



NEW FEATURE: HIGH PRIORITY AREAS

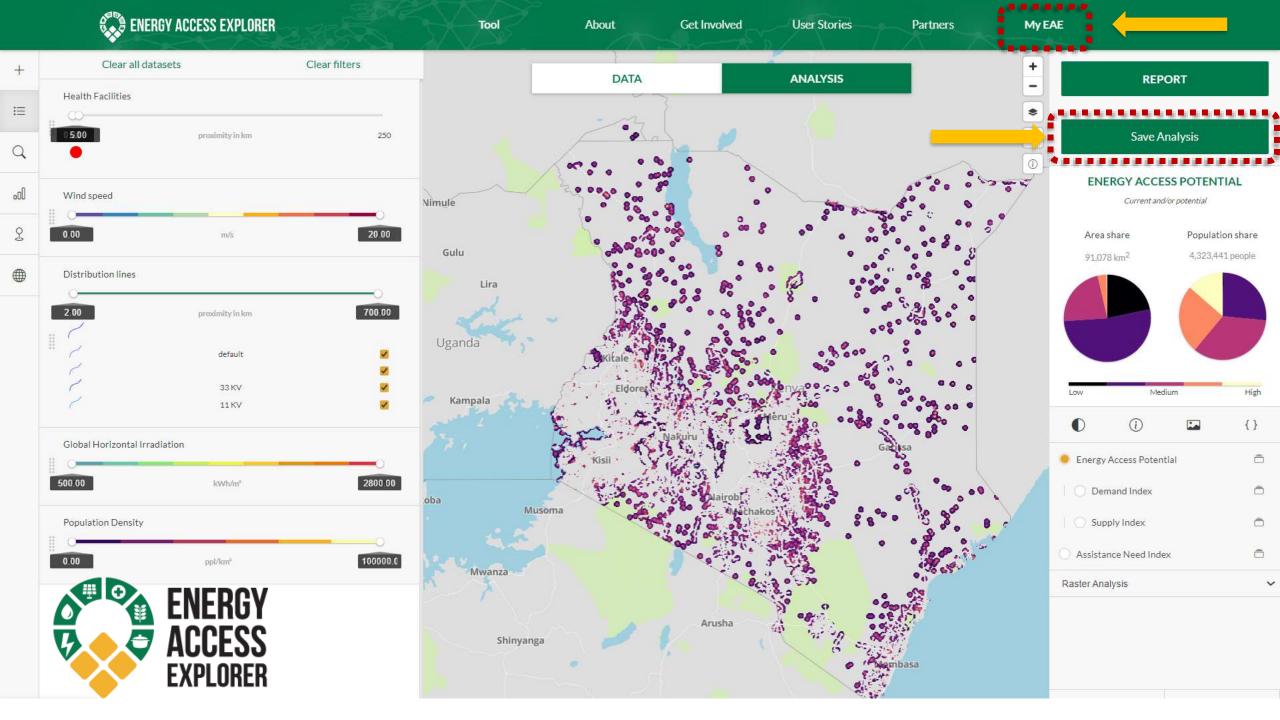


NEW FEATURE: FROM DATA TO ACTIONABLE INSIGHTS





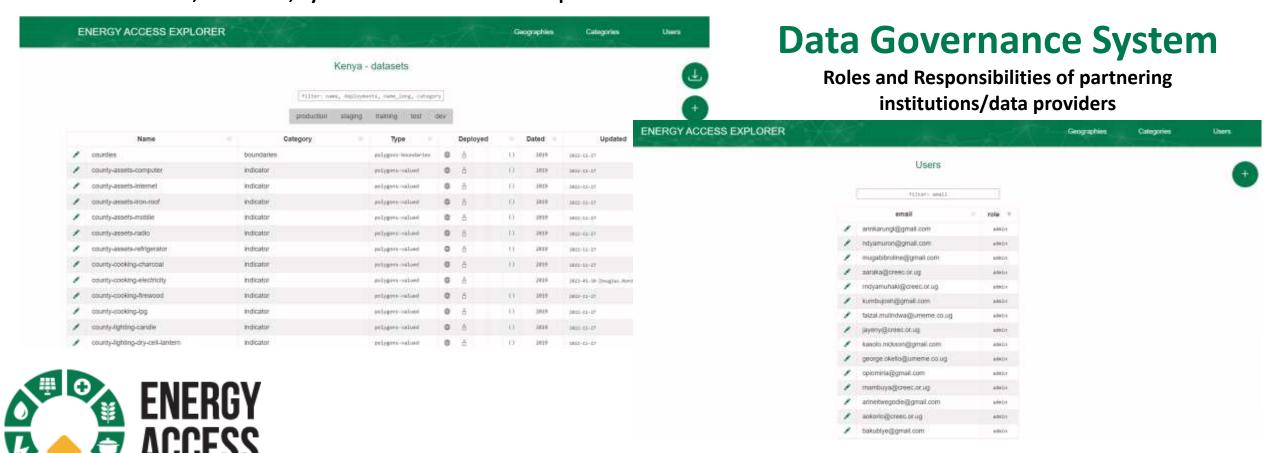




NEW FEATURE: EFFECTIVE DATA MANAGEMENT AND GOVERNANCE SYSTEM

Data Management System

Data, Metadata, System Customization in one place



INVESTING FOR IMPACT RESULTS BASED FINANCING – OFF GRID ELECTRIFICATION IN ETHIOPIA

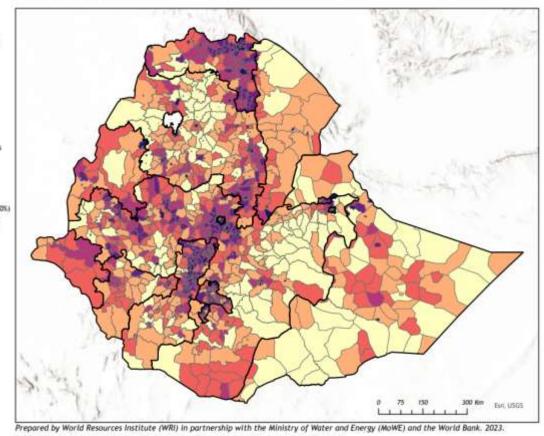


Priority Areas for Off-Grid Electrification in Ethiopia



Index Weights:

Mean Distance from Grid (40%) Off-Grid Population (30%) Off-Grid Pop. Density (20%) Off-Grid Area (10%)



Data and analysis are provided by Energy Access Explorer (www.energyaccessexplorer.org)







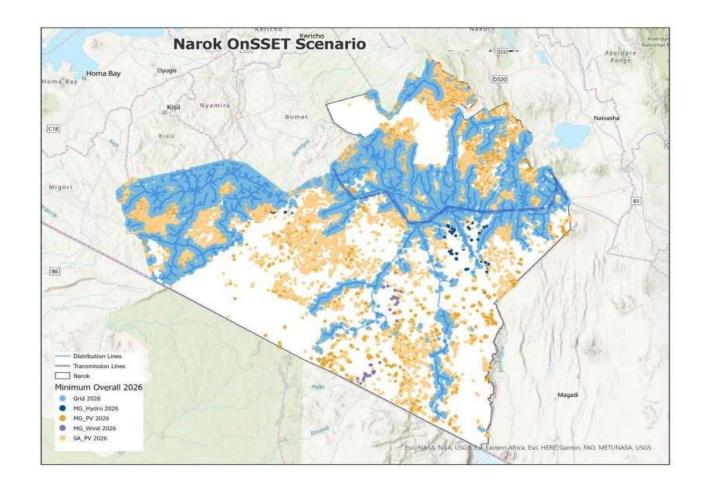






INTEGRATED AND INCLUSIVE ENERGY PLANNING IN KENYA







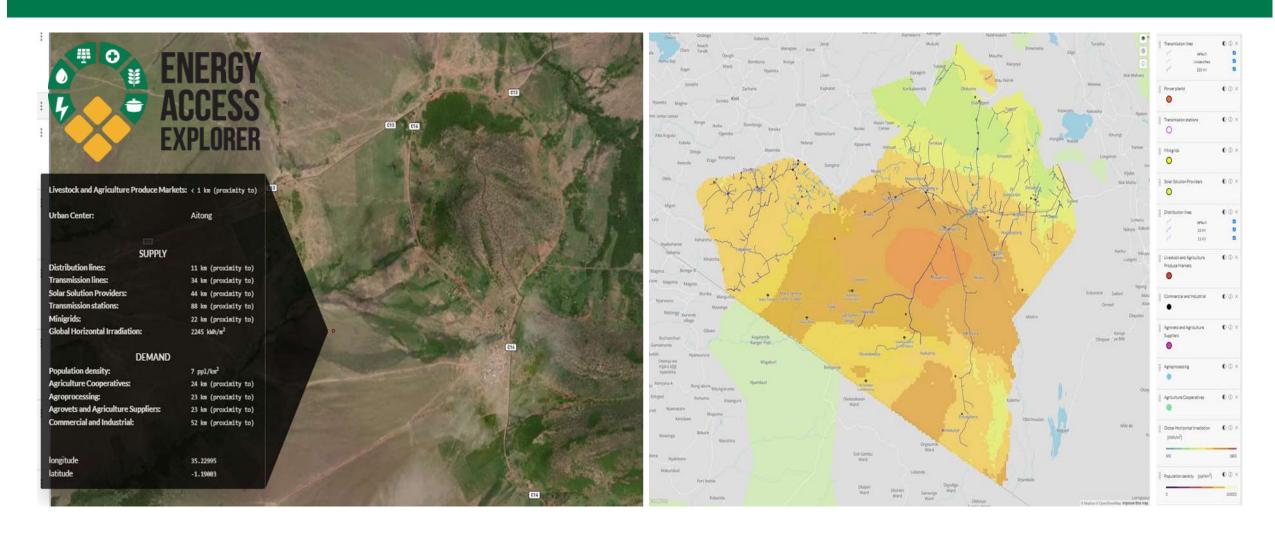








PRODUCTIVE USES OF ENERGY— CRITICAL FOR SOCIO-ECONOMIC GROWTH







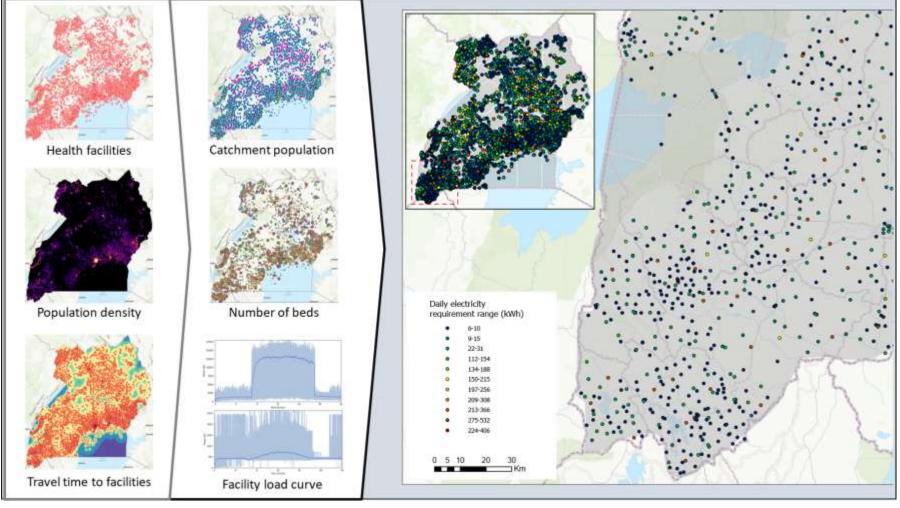






POWERING HEALTHCARE — QUINTESSENTIAL FOR EQUITABLE DEVELOPMENT









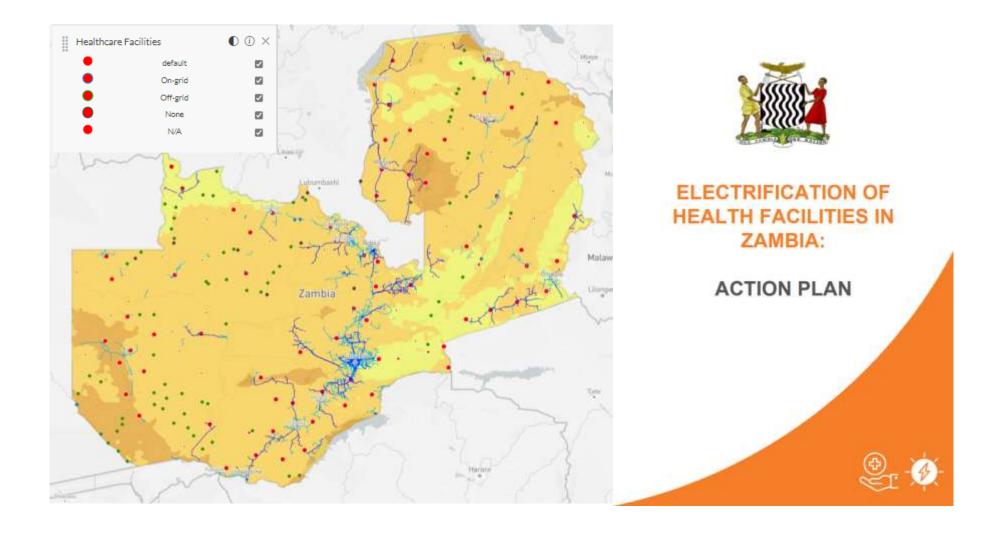






POWERING HEALTHCARE — QUINTESSENTIAL FOR EQUITABLE DEVELOPMENT

















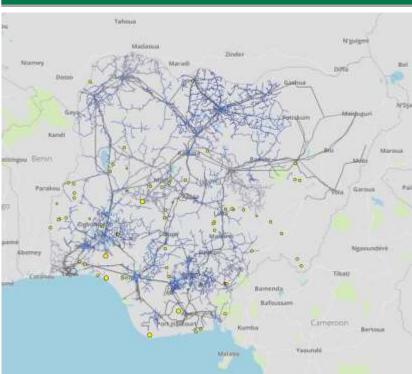
MARKET INTELLIGENCE — UNEARTHING MARKET PROSPECTS FOR CLEAN ENERGY AFRICA MINIGRID PROGRAM IN NIGERIA

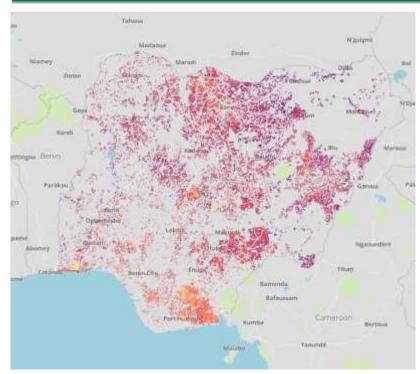
Demand



Opportunities











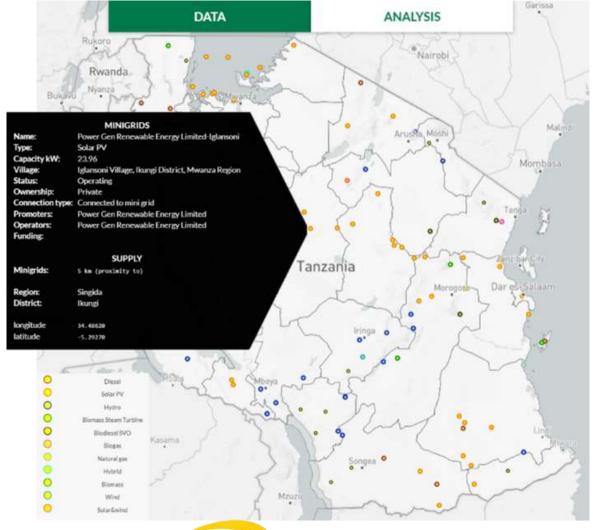






MARKET INTELLIGENCE —UNEARTHING MARKET PROSPECTS FOR CLEAN ENERGY TANZANIA











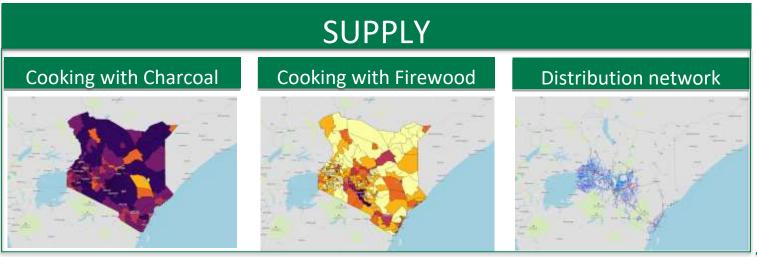




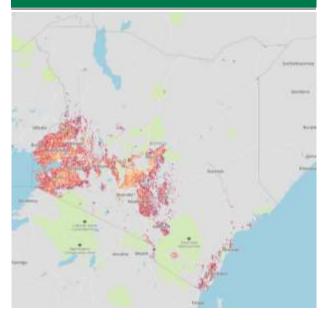


PRIORITY AREAS FOR CLEAN COOKING



























Energy Access Explorer

An Open-Source, Data-driven, Integrated & Inclusive Approach to Achieving Universal Access to Energy for Equitable Development

20,000 Users from 158 Countries 48% Female Users



Website: energyaccessexplorer.org
Code: GitHub.com/energyaccessexplorer

Interested in learning more or contributing to the development of EAE?

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Lead, Energy Access Explorer