

# Consortium



Norway



France



Senegal



Italy



Ethiopia



Kenya



Uganda



Germany



Italy



Spain



Austria



Switzerland



Benin



Switzerland



Ethiopia



Ethiopia



Ethiopia



Tunisia

# General Contact

[info@openmod4arica.eu](mailto:info@openmod4arica.eu)

[openmod4africa.eu](http://openmod4africa.eu)



[@OpenMod4Africa](https://www.instagram.com/OpenMod4Africa)

# OpenMod Africa

A global collaboration to empower Africa's energy future

The OpenMod4Africa consortium brings together universities, research institutes, and industry partners from Europe and Africa to support sustainable, data-driven energy planning across the continent.



Funded by the European Union

## ABOUT OPENMOD4AFRICA

**OpenMod4Africa** aims to develop an open toolbox containing state-of-the-art models to analyse long-term pathways towards a sustainable, secure and competitive energy system in Africa.



### OPEN

Open models, free to use and further develop by academia and everyone else.



### SCALABLE

Scalable models applicable to wide ranges of geographies (from small area to continent) and timeframes (from hour to decades).



### COLLABORATIVE

Involving a network of energy industries and universities in the EAPP and the WAPP regions.

## OPENMOD4AFRICA FOCUSES ON SIX KEY OBJECTIVES

- Build an open energy system modelling toolbox designed for Africa – the OM4A Toolbox.
- Empower African experts to use the OM4A Toolbox and strengthen their energy modelling skills.
- Provide insights into potential pathways for Africa's energy system development.
- Engage decision-makers to support sustainable, secure, and competitive energy planning.
- Collaborate with other initiatives across the continent.
- Ensure impact by maximising replicability and use of project results.

The **African Energy Modelling Network** is a vibrant, open community of African energy modelling experts and stakeholders dedicated to advancing sustainable, secure, and competitive energy systems across the continent. Through collaboration, knowledge sharing, and capacity building, it empowers decision-makers with insights from cutting-edge OM4A energy modelling tools tailored to Africa's socio-technoeconomic contexts.

## WHY DOES IT MATTER?

- ✓ Supporting research and case studies that tackle real-world energy challenges
- ✓ Building capacity among African experts through training and mentorship
- ✓ Facilitating collaboration between academia, industry, and policymakers
- ✓ Enabling African institutions to guide national energy strategies with robust modelling

## WHO IS INVOLVED?

The Network unites African universities, research institutions, industry, policymakers, and international stakeholders committed to sustainable energy. Open to all experts and organizations, it welcomes partnerships, event promotion, and support, both in-kind and financial, via the African Energy Modelling Network Secretariat.



Join the Network

[africanenergymodellingnetwork.net](http://africanenergymodellingnetwork.net)

## AN OPEN ENERGY SYSTEM MODELLING TOOLBOX

This **open, transparent modelling toolbox** assesses transition pathways aligned with Africa's needs for affordable, secure, and clean energy. It integrates state-of-the-art models and data across the energy system, linking them for consistent, multi-dimensional analyses beyond what individual models can provide.



### OPEN AND LINKED MODELS

A suite of open and linked state-of-the-art modelling tools. This includes energy system models and power system models.



### DATA TREATMENT

A common data format and nomenclature about various aspects of the African energy system and of its expansion, in line with a secure and cost-efficient low-carbon future.



### TRAINING MATERIAL

Modelling energy systems is a complex task. Browse our information material to get you started.



### SCENARIO EXPLORER

We model several scenarios for the expansion of Africa's energy system, and our Scenario Explorer will allow you to view the results.



### CASE STUDIES

Case studies demonstrating uses of the toolbox and providing new insights into possible futures for African energy systems.



### VISUALISATION TOOL

A visualisation tool which enables you to display various aspects of the African energy system on maps.