Open Modelling Toolbox for development of long-term pathways for the energy system in Africa

Fact Sheet

Project Information

**OpenMod4Africa**

Grant agreement ID: 101118123

**Funded under**
Climate, Energy and Mobility

**DOI**
10.3030/101118123

**Start date**
1 July 2023

**End date**
30 June 2026

**Total cost**
€ 2 499 363,75

**EU contribution**
€ 2 499 363,75

**Coordinated by**
SINTEF ENERGI AS
Norway

Objective

OpenMod4Africa aims to develop an open Toolbox populated with state-of-the-art models for analysing long-term pathways to sustainable, secure and competitive energy systems in Africa. The Toolbox will build on EU projects like Open ENTRANCE, Plan4RES and FocusAfrica, and will adapt and further develop open models in accordance with the African context and needs. The models are scalable, and can be applied to cities, industries and countries. Furthermore, a main objective for OpenMod4Africa is capacity building among energy models in academia. Four African universities will be actively involved in adapting models and conducting two regional case studies. The additional capacity and the open Toolbox will enable the universities to train new generations of energy modelling experts for the energy
industries in Africa. A network of energy industries and universities in 25 African countries will also be engaged. These players will be invited to use the Toolbox, and to be involved in training activities. They will also be invited to a permanent network of expertise, which will be developed for further capacity building and collaboration beyond the project. Two case studies will develop energy pathways for rural areas, cities, countries and large regions of countries in Western and Eastern Africa. The replication strategies will pave the way for further analyses beyond the project. Finally, OpenMod4Africa aims to collaborate with other ongoing initiatives to maximize the impacts of the project and create synergies. The consortium consists of 12 partners and 2 associated partners. Five partners are African. Important long-term impacts from the three-year project include enabling academia and decision-makers in Africa to conduct their own analyses for the optimal development of their energy system, supplying energy to a much larger share of the population, and establishing a system based upon the abundant share of renewables on the continent.

Keywords

Open energy system models  capacity building  stakeholder engagement
Permanent Network of stakeholders

Programme(s)

HORIZON.2.5 - Climate, Energy and Mobility
HORIZON.2.5.2 - Energy Supply

Topic(s)

HORIZON-CL5-2022-D3-02-02 - AU-EU Energy System Modelling

Call for proposal

HORIZON-CL5-2022-D3-02

See other projects for this call

Funding Scheme
Coordinator

SINTEF ENERGI AS
Net EU contribution
€ 715,487,50
Address
Sem saelandsveg 11
7465 Trondheim
Norway
Region
Norge > Trøndelag > Trøndelag
Activity type
Research Organisations
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

Participants (11)

ELECTRICITE DE FRANCE
France
Net EU contribution
€ 345,850,00
Address
Avenue de wagram 22
75008 Paris
Region
Ile-de-France > Ile-de-France > Paris
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 0,00

CENTRE DE TEST DES SYSTEMES SOLAIRE
Senegal
Net EU contribution
€ 156 475,00
Address
Liberte 6 exension cite ambassade france villa 28 0000 Dakar
Activity type
Other
Links
Contact the organisation Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0,00

FONDAZIONE ENI ENRICO MATTEI
Italy
Net EU contribution
€ 130 675,00
Address
Corso magenta 63 complesso immobiliare le stelline 20123 Milano
Region
Nord-Ovest > Lombardia > Milano
Activity type
Research Organisations

Links
- Contact the organisation
- Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Other funding
€ 0,00

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VERITAS CONSULTING PLC

Ethiopia
Net EU contribution
€ 145 312,50

Address
Bole sub-city woreda 03
Addis ababa

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
- Contact the organisation
- Participation in EU R&I programmes
- HORIZON collaboration network

Other funding
€ 0,00

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STRATHMORE UNIVERSITY

Kenya
Net EU contribution
€ 116 162,50

Address
Ole sangale road madaraka estate
00200 Nairobi

Activity type
Higher or Secondary Education Establishments

Links
MAKERERE UNIVERSITY

Uganda

Net EU contribution

€ 91 787.50

Address

Main campus
256 Kampala

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

TECHNISCHE UNIVERSITAT BERLIN

Germany

Net EU contribution

€ 273 006,25

Address

Strasse des 17 juni 135
10623 Berlin

Region

Berlin > Berlin > Berlin

Activity type

Higher or Secondary Education Establishments

Links
UNIVERSIDAD PONTIFICIA COMILLAS

Spain

Net EU contribution

€ 242 075,00

Address

Calle alberto aguilera 23
28015 Madrid

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation  Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

RENEWABLE ENERGY SOLUTIONS FOR THE MEDITERRANEAN AND AFRICA

Italy

Net EU contribution

€ 108 932,50

Address

Via ticino 14
00198 Rome

Region

Centro (IT) > Lazio > Roma

Activity type
INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANLYSE

Austria
Net EU contribution
€ 121,875,00
Address
Schlossplatz 1
2361 Laxenburg
Region
Östereich > Niederösterreich > Wiener Umland/Südteil
Activity type
Research Organisations
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

ADDIS ABABA UNIVERSITY

Ethiopia
Net EU contribution
€ 51,725,00
Address
Addis ababa university
1176 Addis ababa
Activity type
Partners (2)

ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE

Switzerland

Net EU contribution € 0,00

Address
Batiment ce 3316 station 1
1015 Lausanne

Region
Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type
Higher or Secondary Education Establishments

Other funding € 0,00

HAUTE ECOLE SPECIALISEE DE SUISSE OCCIDENTALE

Switzerland

Net EU contribution € 0,00

Address
Activity type
Higher or Secondary Education Establishments

Links
- Contact the organisation
- Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Other funding
€ 0,00

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