

European Sustainable Energy Cluster partnership for Africa

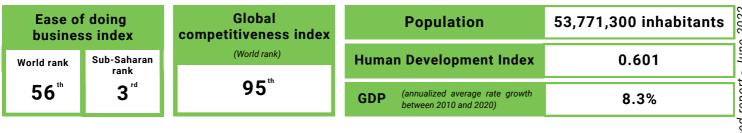
2021 - 2024

# **KENYA**

Kenya has the highest renewable energy (RE) installed capacity within ESECA target countries, as well as the most diversified energy mix. The country has a good context for smart grids development, with public and private digitalization initiatives.



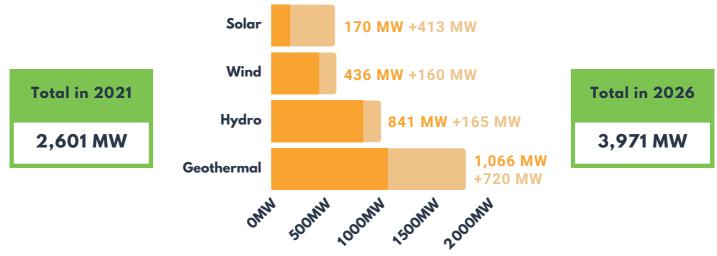
#### NATIONAL CONTEXT



#### **ELECTRIFICATION RATE**



#### **RENEWABLE ENERGY INSTALLED CAPACITY AND PROJECTIONS 2026**



#### **REGULATORY FRAMEWORK**

The energy sector is mainly structured around the Ministry of Energy and dominated by stateowned companies

The **Kenya National Electrification Strategy** (2018) is the most relevant current document for the country's energy sector and market incentives in RE have been recently included



**Cluster Energía** 











# Detailed market report is available upon request! Please contact us

## **OPPORTUNITIES**

#### Mini-Grids & Off-grids



Public initiatives as well as private companies are currently launching mini grids projects in Kenya, scattered throughout the country, with more than 150 new solar powered mini-grids expected to be developed in the medium term.

Energy Storage

Within sub-Saharan Africa, Kenya has one of

the most developed Battery Energy Storage Systems markets, and it is expected to be highly supported in the next decade.



Kenya presents a good context for the development of smart grids, encouraging both public institutions and private companies' initiatives for **grid digitalization**. Automation and digital control systems are the most interesting technologies.



Kenya is the country within the 5 analysed with the highest amount – in USD - of electrical equipment imports due to their grid modernization and development plans.

# On-grid On-grid Mini-grids Off-grid systems Off-grid systems Existing transmission lines (>69kV) Planned lines

#### **RESEARCH & DEVELOPMENT**

The number of R&D centres active in renewable energies is much higher in Kenya than in other African countries

#### **KEY STAKEHOLDERS**

The most important stakeholders in renewable energies are in the public sector

Universities and RE associations are numerous and active in RE, with continuous collaboration with R&D private centres

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Kenya planned electricity connections by 2030