

European Sustainable Energy Cluster partnership for Africa

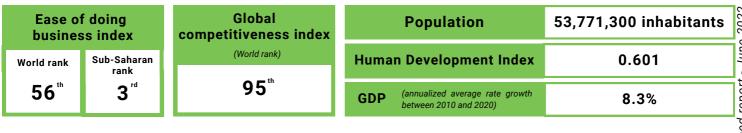
2021 - 2024

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.



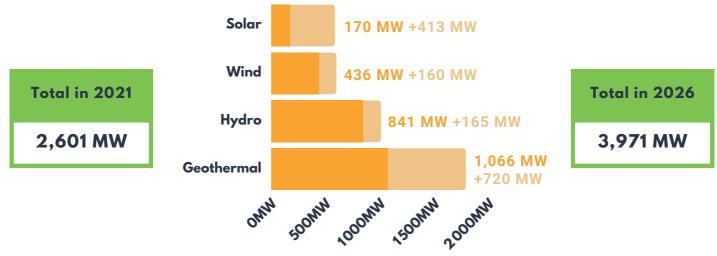
NATIONAL CONTEXT



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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Find us on the European Cluster Collaboration Platform

This brochure is part of the ESECA project (Grant Agreement 101035882), which has received funding from the European Union's COSME Programme (2014-2020).





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Kenya planned electricity connections by 2030