

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

Ease of doing business index		
World rank	Sub-Saharan rank	
56 th	3 rd	

Global competitiveness index (World rank)	
95"	

	Population	53,771,300 inhabitants
Human Development Index		0.601
GDP	(annualized average rate growth between 2010 and 2020)	8.3%

ELECTRIFICATION RATE



91%

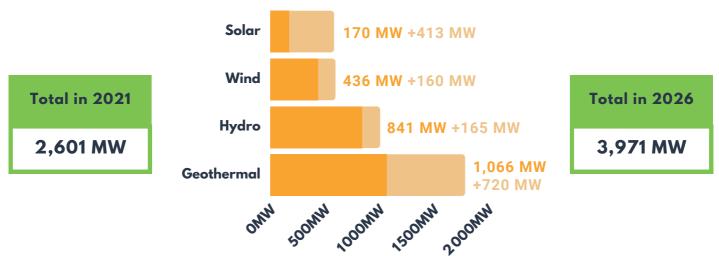


62%



70%

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











Data gathered with the support of Minsait. Full references available in the published report - June 2022



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 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.

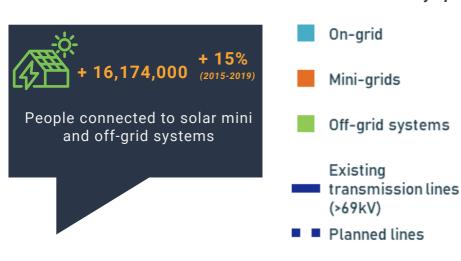
Kenya presents a good context for the development of smart grids, encouraging public institutions and companies' initiatives for grid digitalization. Automation and digital control systems are the most interesting technologies.

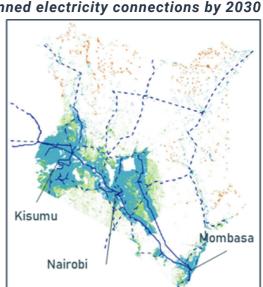


Electrical Equipment

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.

Kenya planned electricity connections by 2030





RESEARCH & DEVELOPMENT



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

KEY STAKEHOLDERS



most important stakeholders renewable energies are in the public sector



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





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CONTACT

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RWANDA

Rwanda stands out as the country with the second position in the Ease of Doing Business Index in sub-Saharan Africa, with a clear tendency to encourage private investment, especially targeting rural electrification projects.



NATIONAL CONTEXT

Ease of doing business index		
World rank	Sub-Saharan rank	
38 th	2 nd	
38 th		

Global competitiveness index (World rank)	
100°t	

	Population	12,952,209 inhabitants
Human Development Index		0.543
GDP	(annualized average rate growth between 2010 and 2020)	5.4%

ELECTRIFICATION RATE



93%

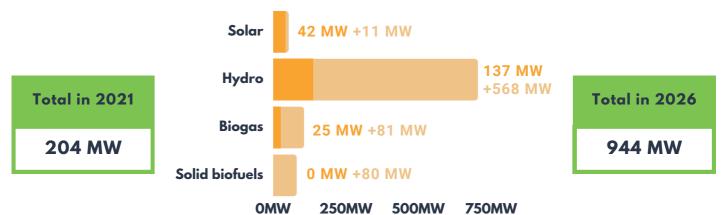


26%



46%

RENEWABLE ENERGY INSTALLED CAPACITY AND PROJECTIONS 2026



REGULATORY FRAMEWORK



Most of the existing funding programs in the country are aimed at financing rural electrification projects through off-grid systems













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OPPORTUNITIES

Mini-Grids & Off-grids



Due to Rwanda's high hydropower resource potential and geographical characteristics, small and medium hydro power plants will be highly developed in the coming years.

Energy Storage



In the last 5 years, there is a growing activity related to energy storage solutions in Rwanda, driven mainly by foreign private companies.

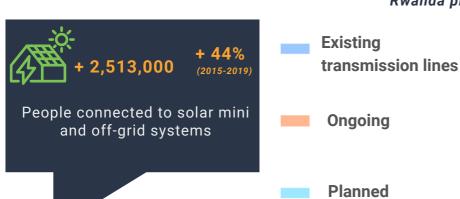
Rwanda is facing significant challenges for the implementation of smart grids, yet there are some ongoing projects. Smart grids development opportunities are linked to off grid solar home systems, and especially to incident management solutions.

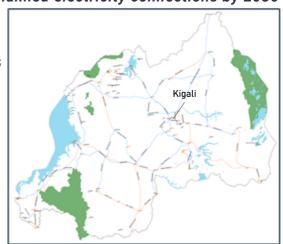


Electrical Equipment

Rwanda's electrical equipment market is still very low. However, the Rwandan Ministry of Infrastructure has set out several initiatives for investors interested in the energy sector, such as free taxes on electrical equipment during energy projects development.

Rwanda planned electricity connections by 2030





RESEARCH & DEVELOPMENT



Smart grids have been identified by the Government as one of the destinations for RE R&D due to their relevance

KEY STAKEHOLDERS

High number of stakeholders in RE compared to the country size

IPPs are relevant stakeholders and exploited, in 2021, around 51% of the country's total installed capacity





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