

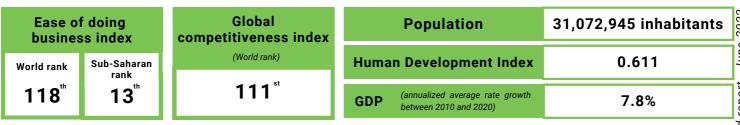
European Sustainable Energy Cluster partnership for Africa

2021 - 2024

# **GHANA**

Ghana targets universal access to energy in the upcoming years: as electrification rates have grown significantly recently, the demand has risen, opening opportunities in the transmission and distribution sectors to modernize and extend the electrical grid.

#### NATIONAL CONTEXT



#### **ELECTRIFICATION RATE**



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

	Solar	24	<b>17 MW +</b> 497 I	WW	
Total in 2021	Wind		0 MW +985 MW		Total in 2026
1,839 MW	Hydro			1,584 MW	3,578 MW
+265 MW					

#### **REGULATORY FRAMEWORK**

Ghana counts a significant number of **market incentives** and public funding programs to encourage the growth of the renewable energy installed capacity

The National Energy Policy has sufficient mechanisms in order to achieve electrification targets in the medium term

Cluster Energía











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

### **OPPORTUNITIES**

#### Mini-Grids & Off-grids



There are limited ongoing mini and off grid projects in Ghana compared to other sub-Saharan African countries, as **electrification rates are already high.** 

# Smart Grids

Ghana's electric grid uses old technology, not having incorporated new digital technologies extensively, yet with considerable drivers for its development.

Energy Storage

Despite having little activity in energy storage, several projects have been announced recently, and energy storagerelated regulatory framework development is expected for the coming years.



Electrical equipment related to renewable energies is mainly focused on solar, and in particular in Solar Lightning, yet there is a need to import more electrical equipment to **modernize the existing electrical equipment**.

#### Ghana planned electricity connections by 2030

The main stakeholders are still public, yet the

Private companies are mainly focused on

solar (installers, distributors and EPCs)



#### **RESEARCH & DEVELOPMENT**

Ghana stands out in terms of R&D in specific technologies, battery energy storage systems (with some innovative projects such as Huaweii, the largest BESS company in Africa), in wind, and some bioenergy projects

### in company/eseca



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**KEY STAKEHOLDERS** 

RE market tends to liberalize

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