ESECA Africa

European Sustainable Energy Cluster partnership for Africa

2021 - 2024

SENEGAL

Senegal has many assets to offer: a well-organized electricity sector, developed electricity transmission lines and highly qualified electrical engineers and power sector technicians to maintain the integrity and stability of the network.

NATIONAL CONTEXT

Ease of doing business index	
World rank	Sub-Saharan rank
123th	16th

Global competitiveness index (World rank)
114th

Population	16,743,930 inhabitants
Human Development Index	0.512
GDP (annualized average rate growth between 2010 and 2020)	4.3%

ELECTRIFICATION RATE

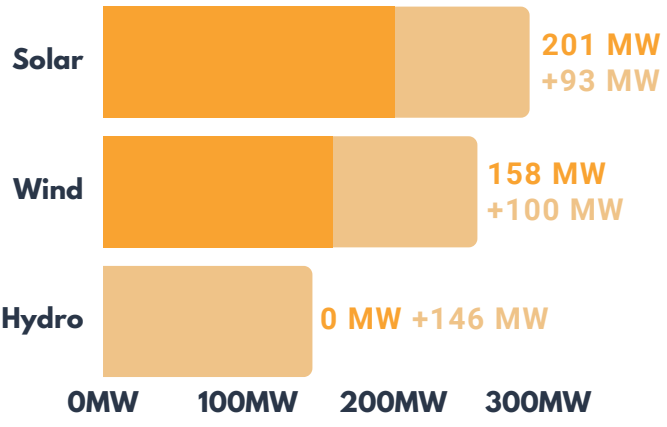
Urban 95%

Rural 48%

Average 70%

RENEWABLE ENERGY INSTALLED CAPACITY AND PROJECTIONS 2026

Total in 2021: 384 MW



Total in 2026: 698 MW

REGULATORY FRAMEWORK

- SENELEC has a monopoly in transmission and distribution, but in production it reaches **power purchase agreements** with IPPs
- **VAT exemptions** on renewable energy products is the most interesting market incentive

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

Cluster Energía BASQUE ENERGY CLUSTER · MI4 MetalIndustry4 · LE2C LOMBARDY ENERGY CLEANTECH CLUSTER · Cluster Power electronics · MEDEE Motors and Electrical Devices for Energy Efficiency

Detailed market report is available upon request! Please contact us

OPPORTUNITIES

Mini-Grids & Off-grids

Despite the high electrification rates, by 2021 Senegal was the **second country worldwide with the highest number of planned mini grids**, planning more than 1,200 new mini grid connections.

Smart Grids

Smart grid projects in Senegal have begun to be deployed in the last 3 years in order to integrate renewable energies, **improve access to electricity and avoid technical losses**.

Energy Storage

First utility scale Battery Energy Storage System project is under development in the Taiba N'diaye Wind Farm (40 MW battery system), yet the activity in relation to energy storage in Senegal is **still incipient.**

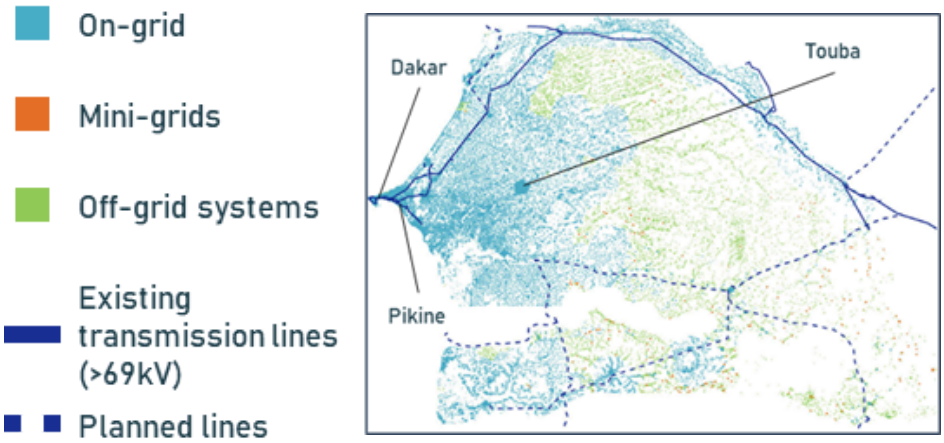
Electrical Equipment

Although the equipment related to solar installations is the most developed in recent years, it is insufficient to meet the current demand, thus having to **import large quantities of equipment.**

+ 1,440,000 **+ 75%** *(2015-2019)*

People connected to solar mini and off-grid systems

Senegal planned electricity connections by 2030



RESEARCH & DEVELOPMENT

- Some public agencies have clear R&D guidelines
- **Solar** is the technology that is generating the most R&D activity

KEY STAKEHOLDERS

- Public and governmental agents, the public company SENELEC and IPPs, are the most relevant stakeholders in the RE sector
- Private companies (IPPs, installers and EPCs) are mainly focused on solar, yet **wind is having a growing activity**

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Find us on the European Cluster Collaboration Platform

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INTERNATIONAL

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