



Cameroon

Africa

Ease of doing Solar classification



Progressive

Electricity Consumption
in kWh/capita (2020)

329.2

Average PVout in kWh/kWp/day
(2020)

4.3

Cumulative Solar Capacity in MW
(2021)

14.4

Getting Electricity Score (2020)

61.3

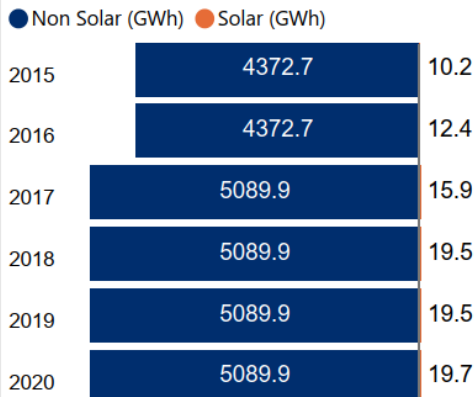
NDC Target by 2030 in %
(base year 2005)

35.0

Human Development Index (2021)

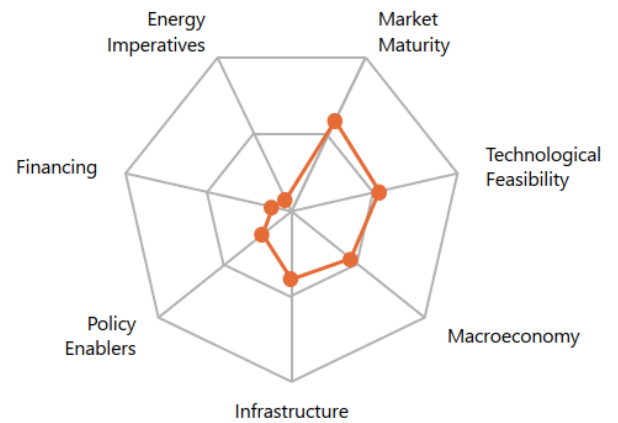
0.6

Renewable Energy Generation by Source

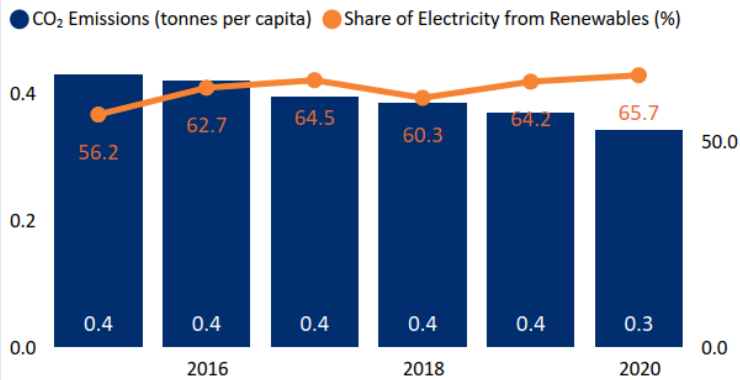


Non Solar RE includes Wind and Hydro;

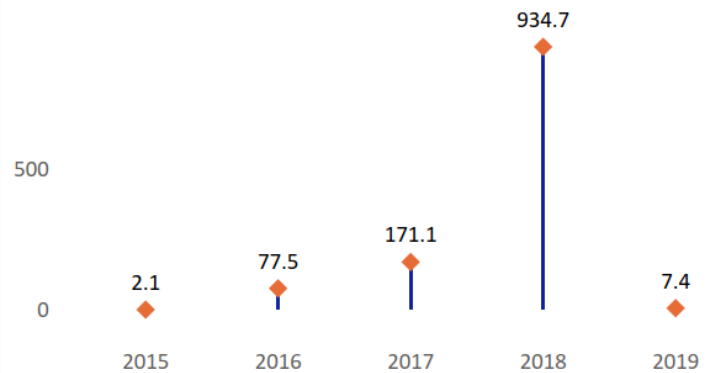
Performance against 7 Drivers



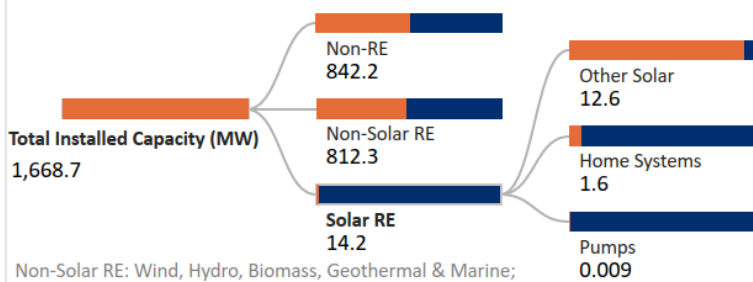
CO₂ Emissions vs Electricity share from Renewables



International Finance received for Clean Energy (Million US Dollars)



Installed Capacity by Source (2019)



Non-Solar RE: Wind, Hydro, Biomass, Geothermal & Marine;

Non-RE: Coal, Natural Gas, Nuclear, Oil, etc.;

Other Solar: Utility Scale Solar, Rooftop etc.;

Data not available for other Solar RE segments;

Support for Renewables (2020)

Feed-in-Tariffs for renewable energy supply to the grid?

No

Net metering/Gross metering policies and regulations?

No

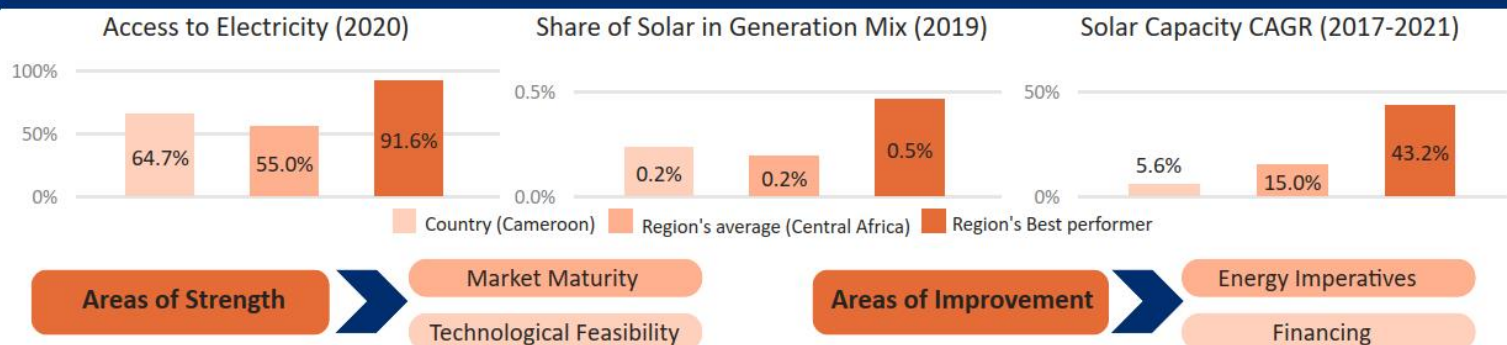
Renewable Energy Certificates?

No

Renewable Purchase Obligation?

No

Country's regional performance and characteristics



Key Insights

Drivers

Insights



Macro-economy

- Cameroon is a lower middle-income country¹ with GDP per capita (PPP) of USD 4,065 as of 2021.²
- GDP (Real) grew at an annual rate of 3.5% in 2021 and it is estimated to grow by 4.3% in 2022.³
- Total public debt in the country increased to 46% of GDP in 2021 from 28.8% of GDP levels in 2015.⁴
- Inflation rate in the country has slightly risen to 2.5% in 2021 from 2.4% levels in 2020.⁴



Policy enablers

- Ministry of Water and Energy (MINEE) is responsible for the design, development, implementation and monitoring of government policies in the energy sector.⁵
- In 2021, the country submitted its NDC with an aim to reduce emissions to 35% by 2030.⁴
- The Rural Electrification Agency (AER) is responsible for promoting rural electrification throughout the country.⁵



Technological Feasibility

- The country receives high levels of solar irradiation of 5.07 kWh/m²/day and specific yield of 4.3 kWh/kWp/day indicating a strong technical feasibility for solar in the country.⁶
- In Cameroon, 36 MW of solar generation capacity and 20 MW/19 MWh of battery storage will be leased to power company ENEO, which is controlled by London-based investor Actis. The Cameroon government also holds a 44% stake.⁷
- In 2022, Aptech Africa commissioned a PV-hybrid system in Cameroon including a 18.36 kWp of roof-mounted PV generation with 25.2 kWh of lithium-ion battery storage.⁸



Market Maturity

- 64.7% population in the country had access to electricity as of 2020.¹²
- The Electricity Regulatory Agency (ARSEL) is responsible for the regulation, control and monitoring the performance of operators in the electricity sector.⁵
- The Electricity Development Corporation (EDC) is the designated agency for managing the public assets in the electricity sector.⁵
- National Electric Energy Transport Company (SONATREL) is responsible for managing the transport of electricity.⁵
- Cameroon is a member of the Central Africa Power Pool.⁹



Infrastructure

- In Cameroon, electricity is transmitted at 225 kV, 110 kV and 90 kV voltage levels and distributed at 30 kV, 15 kV, 0.38 kV and 0.22 kV.⁵
- Cameroon's electricity network is made up of three interconnected regional networks: Réseau interconnecté Sud (RIS), Réseau interconnecté nord (RIN) and Réseau Est (RIE).⁵
- The construction of the Chad - Cameroon Interconnection and the South-North Backbone is jointly financed (USD 750 Mn) by the AfDB and the WB.⁵
- The country plans for medium and long-term network expansion of 2,420 km of power lines by 2030 at an investment of USD 1.76 Bn.⁵



Financing

- In 2020, the AfDB and the multi-donor Fund for African Private Sector Assistance (FAPA) launched an initiative to bolster the deployment of electricity metering services in the country.¹⁰
- AfDB has approved a loan of €150 Mn to finance the construction of 420 MW Nachtigal hydroelectric project.¹¹
- In Cameroon, the AfDB has shown keen interest in developing a flagship forum, Africa Energy Market Place ("AEMP") to showcase investment opportunities in the energy sector.⁵



Energy Imperatives

- The total installed capacity of solar PV witnessed a CAGR of 5.64% between 2017-2021 reaching 14.4 MW in 2021 from 11.6 MW levels in 2017.¹³
- In 2020, the per capita electricity consumption stood at 0.33 MWh which is significantly lower in comparison to the global average of 3.31 MWh as of 2020.¹⁴
- The price of electricity in the country was 14.10 US Cents/kWh as of 2019.¹⁵