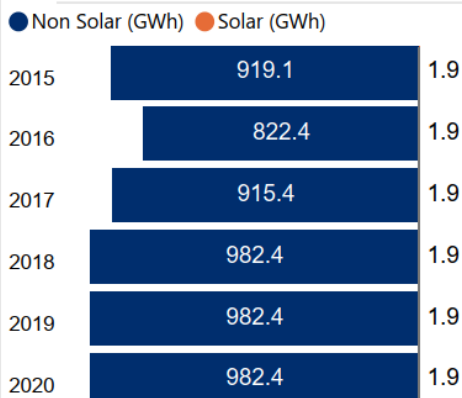


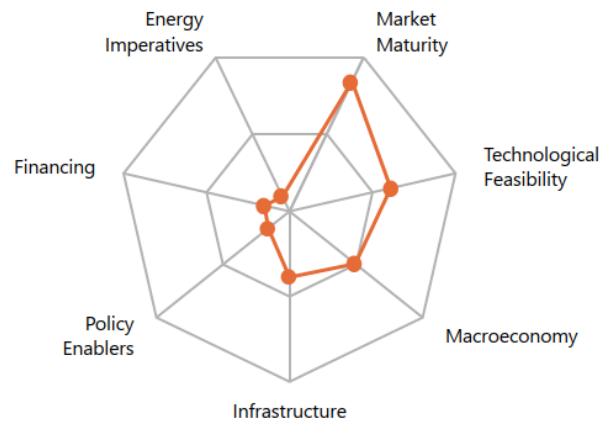
	<b>Gabon</b>	Ease of doing Solar classification
	Africa	<b>Influencer</b>
Electricity Consumption in kWh/capita (2020)	Average PVout in kWh/kWp (2020)	Cumulative Solar Capacity in MW (2021)
<b>1325.4</b>	<b>3.6</b>	<b>1.4</b>
Getting Electricity Score (2020)	NDC Target by 2030 in GgCO <sub>2</sub> e (base year 2005)	Human Development Index (2021)
<b>49.8</b>	<b>3322.0</b>	<b>0.7</b>

### Renewable Energy Generation by Source

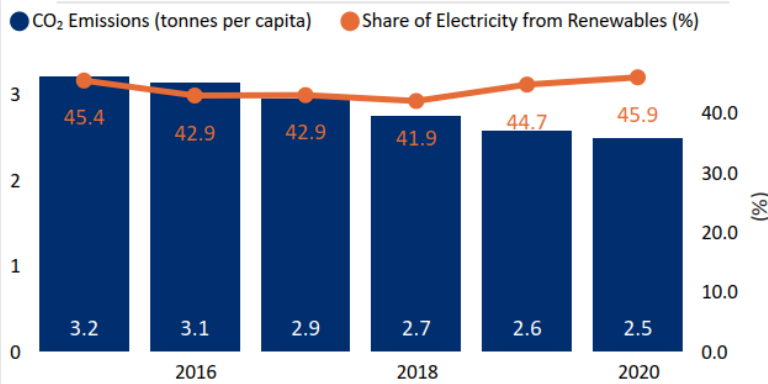


Non Solar RE includes Wind and Hydro;

### Performance against 7 Drivers



### CO<sub>2</sub> Emissions vs Electricity share from Renewables

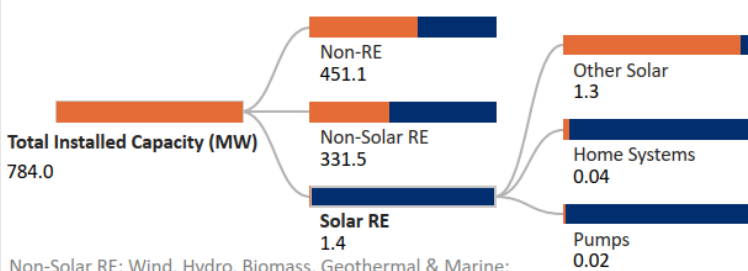


### Fiscal Incentives & Public Financing for Renewables (2020)

Investment or production tax credits?  
**No**

Public investment, loans, grants, capital subsidies or rebates?  
**No**

### 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)

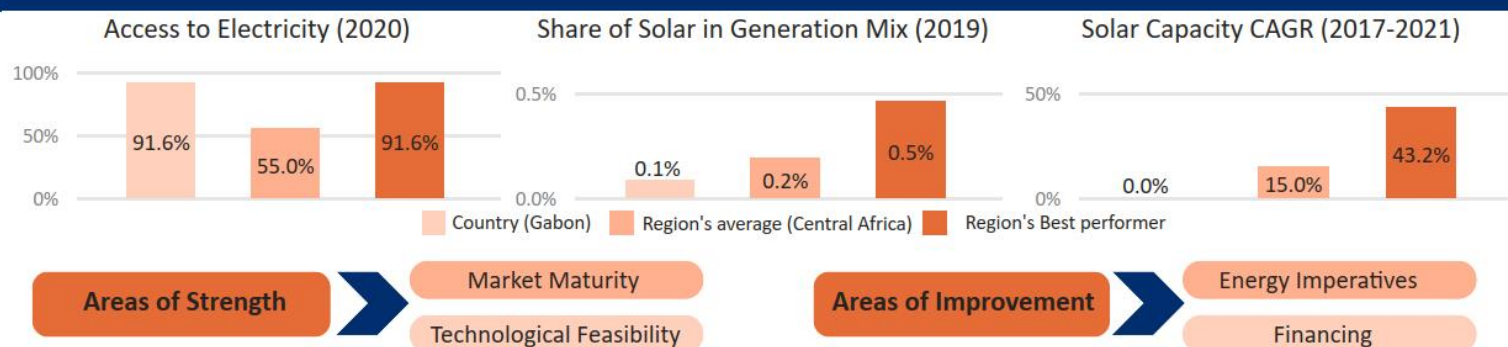
Feed-in-Tariffs for renewable energy supply to the grid?  
**No**

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

- Gabon is an upper middle-income country with GDP per capita (PPP) of USD 15,176 in 2021. <sup>1, 2</sup>
- GDP (Real) grew at an annual rate of 0.9% in 2021 and is estimated to increase by 2.7% in 2022. <sup>3</sup>
- Total public debt in the country increased to 74.7% of GDP in 2021 from 77.4% levels in 2020. <sup>4</sup>
- Inflation rate in the country declined to 1.1% in 2021 from 1.3% levels in 2020. <sup>4</sup>



Policy enablers

- Gabon aims to monetize its carbon credits that are estimated at USD 5 Bn in 2021. <sup>4</sup>
- Gabon's Energy Policy aims to reduce its dependence on fossil fuels for electricity generation by promoting RE in the country. <sup>5</sup>
- The PSGE (Emerging Gabon Strategic Plan) focuses on the green growth and aims to transform the country into an emerging economy by 2025. <sup>6</sup>



Technological Feasibility

- Gabon receives high levels of solar irradiation of 4.5 kWh/m<sup>2</sup>/day and specific yield of 3.6 kWh/kWp/day indicating a strong technical feasibility for solar in the country. <sup>7</sup>
- The Gabonese Minister of Energy has plans to construct a 120 MWp solar power plant at Ayémé Plaine equipped with a 15-hour BESS. <sup>8</sup>
- In 2022, the Ministry of Energy had set out a plan to electrify off-grid households across the country through solar home systems. <sup>9</sup>



Market Maturity

- 91.6% population in Gabon had access to electricity as of 2020. <sup>10</sup>
- Ministry of Mines, Petroleum and Hydrocarbons and Ministry of Energy and Hydraulic Resources is responsible for providing electricity services in the Gabonese Republic. <sup>11</sup>
- Water and Energy Sector Regulatory Agency is the energy regulator in the country. <sup>11</sup>
- The Société d'Electricité et d'Eaux du Gabon (SEEG) is the sole generator, transmitter, and distributor of electric energy. <sup>11</sup>



Infrastructure

- The electricity produced in the country is transported at various voltage levels (Libreville 255 kV and 90 kV; Franceville 63 kV and Bongolo 63 kV) to various sub-stations across the nation. <sup>12</sup>
- The sub-transmission network consists of 30 kV, 20 kV and 5.5 kV medium voltage levels. <sup>12</sup>



Financing

- In 2021, the AfDB approved €39 Mn for the construction of the Kingulé Aval hydroelectric project in Gabon. <sup>13</sup>
- The AfDB approved €57.5 Mn to the Coder Hydropower Project for the design, construction, and operation of two run-of-river hydro projects in Ngounie Province and North Gabon. <sup>14</sup>
- In Gabon, the World Bank has shown keen interest in providing support through financing of more than 20 projects in a variety of sectors. <sup>15</sup>



Energy Imperatives

- The total installed capacity in the country stood at 784 MW in 2019. <sup>16</sup>
- In 2020, the per capita electricity consumption stood at 1.32 MWh which is lower in comparison to the global average of 3.31 MWh. <sup>17</sup>
- The price of electricity in the country was 18.9 US Cents/kWh as of 2019. <sup>18</sup>