



## Togolese Republic

Africa

Ease of doing Solar classification



**Progressive**

Electricity Consumption  
in kWh/capita (2020)

**62.8**

Average PVout in kWh/  
kWp/day (2020)

**4.1**

Cumulative Solar Capacity in MW  
(2021)

**57.2**

Getting Electricity Score (2020)

**72.6**

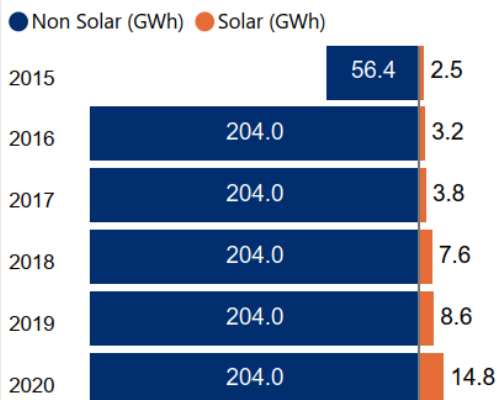
NDC Target by 2030 in %  
(base year 2018)

**20.5**

Human Development Index (2021)

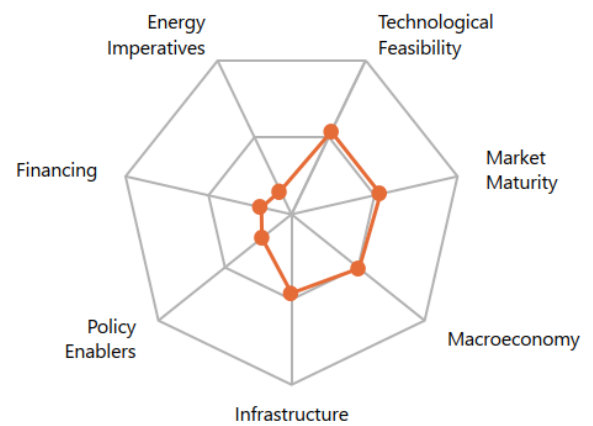
**0.5**

### Renewable Energy Generation by Source

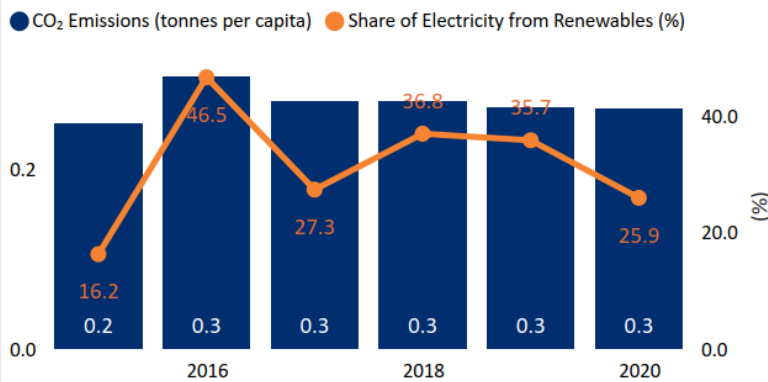


Non Solar RE includes Wind and Hydro;

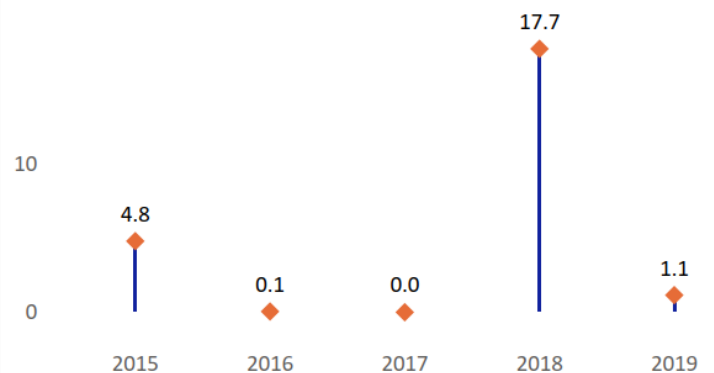
### Performance against 7 Drivers



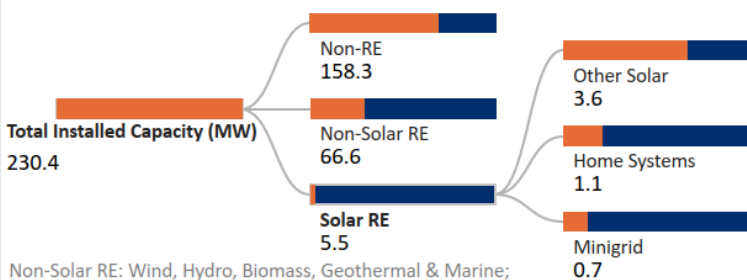
### CO<sub>2</sub> Emissions vs Electricity share from Renewables



### 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**

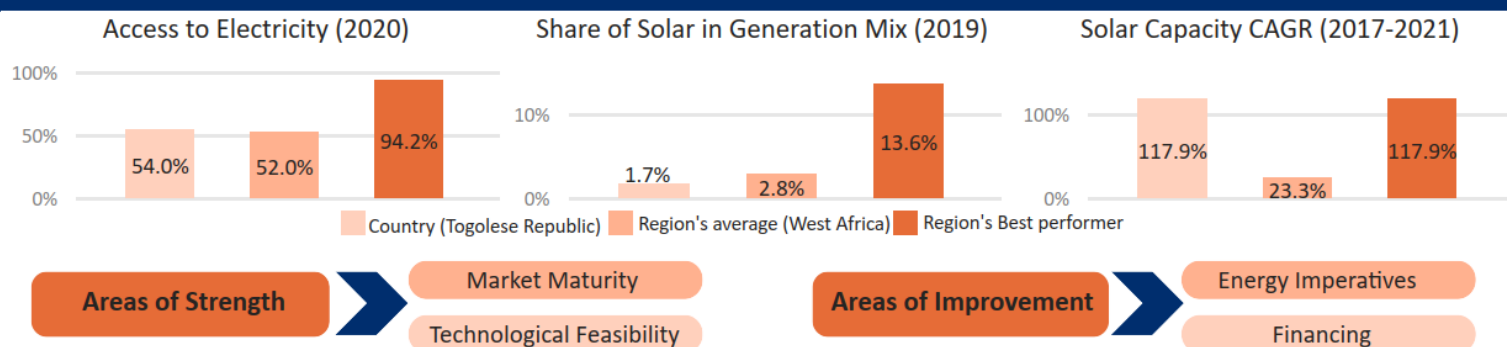
Renewable Energy Certificates?

**No**

Renewable Purchase Obligation?

**No**

## Country's regional performance and characteristics



## Key Insights

### Drivers

### Insights



Macro-economy

- Togo is a low-income country<sup>1</sup> with a GDP per capita (PPP) of USD 2,334 in 2021.<sup>2</sup>
- GDP (Real) grew at an annual rate of 5.1% in 2021 and it is estimated to grow by 5.6% in 2022.<sup>3</sup>
- The inflation rate in the country increased to 4.3% in 2021 from 1.8% levels in 2020.<sup>4</sup>
- Total public debt in the country increased to 61% of GDP in 2021 from 58.6% levels in 2020.<sup>5</sup>



Policy enablers

- The Ministry of Mines and Energy (MME) is responsible for planning, organizing, coordinating the energy sector policies, and promoting research and use of RE in Togo.<sup>6</sup>
- Togolese Agency for Rural Electrification and Renewable Energies (AT2ER) is responsible for implementing the country's rural electrification policy and developing RE sector in Togo.<sup>7</sup>
- The Government of Togo is showing interest in increasing private sector investment in the power sector and attracting companies (in off-grid domain) to increase access to electricity in rural areas.<sup>8</sup>



Technological Feasibility

- Togo receives high levels of solar irradiation of 5.2 kWh/m<sup>2</sup>/day and a specific yield of 4.1 kWh/kWp/day indicating strong technical feasibility for solar in the country.<sup>9</sup>
- The UN Environment program is currently active in Togo and is working on the introduction of electric vehicles (two and three-wheelers).<sup>10</sup>
- Currently, the Government of Togo is planning to accelerate rural electrification through the deployment of solar home systems (SHS).<sup>11</sup>



Market Maturity

- 54% population in Togo had access to electricity as of 2020.<sup>12</sup>
- The Regulatory Authority for Electricity Sector (ARSE) is responsible for regulating tariffs and monitoring and managing potential conflicts between distributors and consumers.<sup>13</sup>
- The Compagnie Energie Electrique du Togo (CEET) is the agency responsible for the distribution and sale of electrical energy.<sup>14</sup>
- The Communauté Electrique du Benin (CEB) was created in 1968 through the Benin-Togo electricity code to import, produce and transmit electricity for the benefit of the two countries.<sup>13</sup>



Infrastructure

- The Nigeria–Benin Interconnection Reinforcement Project aims at the construction of a 330 kV double circuit HV transmission line for power exchange between Nigeria and Togo/Benin.<sup>15</sup>
- The proposed interconnections such as the Ghana-Togo-Benin transmission line of 338 kV is slated to increase transmission capacity and enable the flow of energy between countries.<sup>16</sup>
- Togo imports electricity from Ghana, Nigeria, and Cote d'Ivoire to meet the country's electricity demand.<sup>7</sup>



Financing

- The World Bank approved a USD 150 Mn International Development Association (IDA) financing that aims to improve fiscal and debt management, reduce the cost of electricity, and promote the use of RE in Togo.<sup>17</sup>
- In Togo, the EU has ramped up its financial and technical support, and the AfDB has prepared and implemented a new country strategy for 2016–2020.<sup>18</sup>



Energy Imperatives

- In 2020, Togo's per capita electricity consumption stood at 0.06 MWh, which is significantly lower in comparison to the global average of 3.31 MWh.<sup>21</sup>
- The total installed capacity in the country stood at 230.4 MW in 2019.<sup>19</sup>
- The total installed capacity of solar PV witnessed a CAGR of 117.9% reaching 57.23 MW in 2021 from 2.54 MW levels in 2017.<sup>20</sup>
- The price of electricity in the country stood at 17 US Cents/kWh as of 2019.<sup>22</sup>