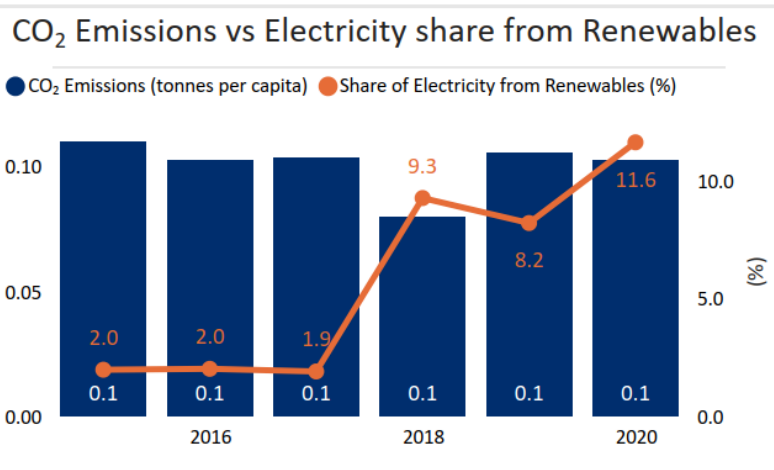
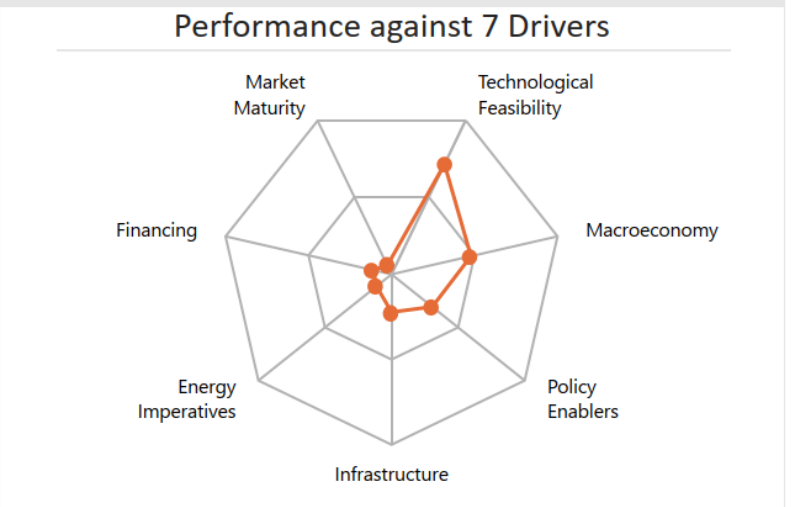
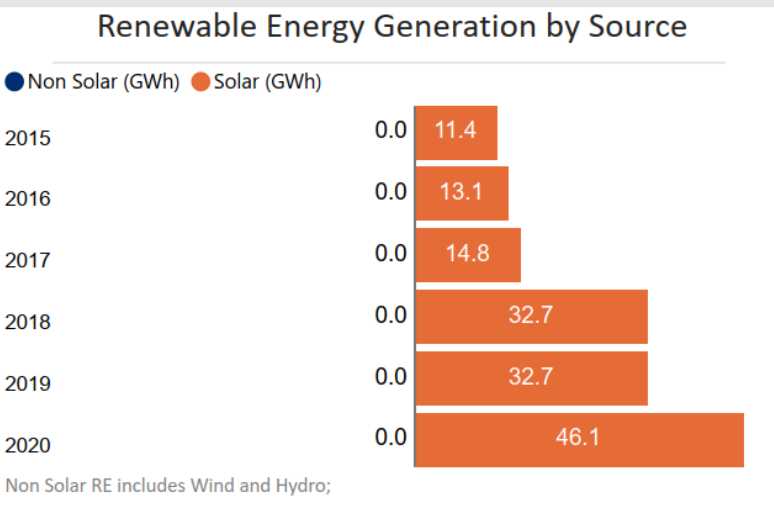


	<b>Niger</b>	Ease of doing Solar classification
	Africa	<b>Progressive</b>

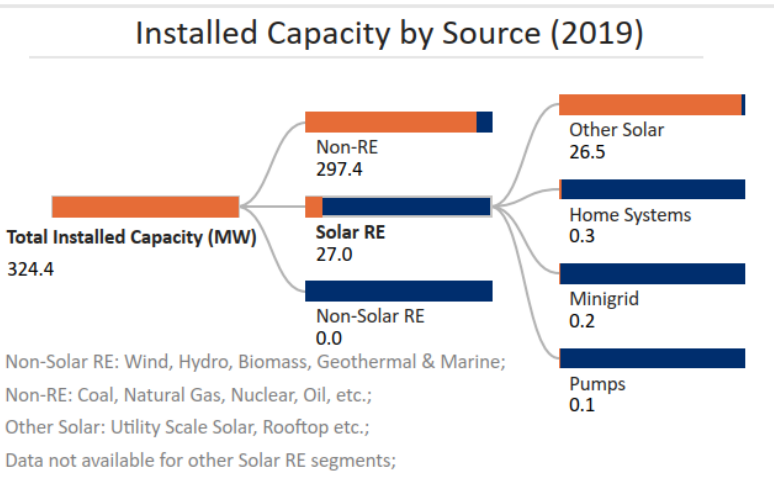
Electricity Consumption in kWh/capita (2020) <b>16.5</b>	Average PVout in kWh/kWp/day (2020) <b>4.8</b>	Cumulative Solar Capacity in MW (2021) <b>27.0</b>
Getting Electricity Score (2020) <b>52.7</b>	NDC Target by 2030 in % <b>45.0</b>	Human Development Index (2021) <b>0.4</b>



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

Investment or production tax credits?  
**No**

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



### Support for Renewables (2020)

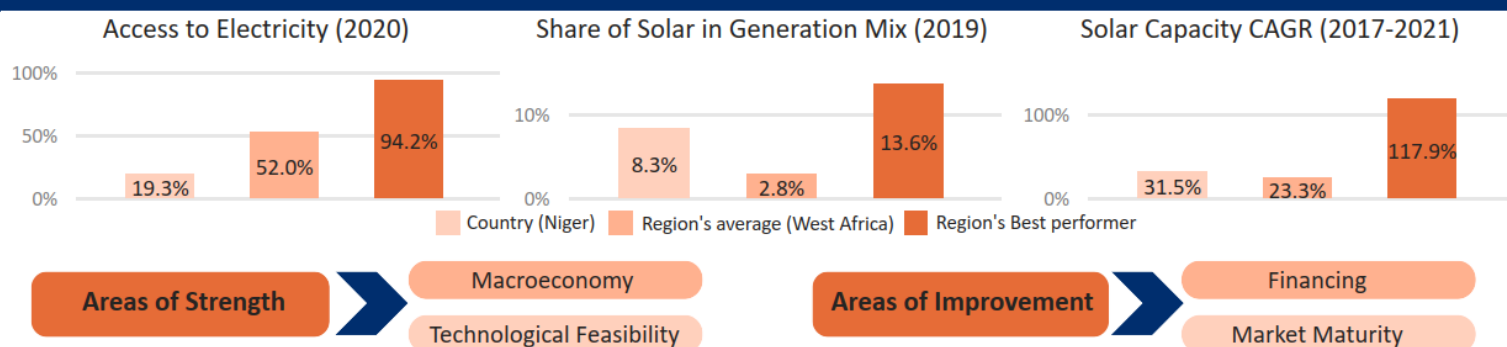
Feed-in-Tariffs for renewable energy supply to the grid?  
**No**

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



Macroeconomy

- Niger is a low-income country with a GDP per capita (PPP) of USD 1,304 in 2021. <sup>1,2</sup>
- GDP (Real) grew at an annual rate of 1.3% in 2021 and it is estimated to grow by 6.9% in 2022. <sup>3</sup>
- The inflation rate in the country declined to 3.2% in 2021 from 4.4% levels in 2020. <sup>4</sup>
- Total public debt in the country increased to 50.9% of GDP in 2021 from 43.6% levels in 2020. <sup>4</sup>



Policy enablers

- The Ministry of Energy is responsible for defining, implementing, monitoring and evaluating electricity policy in Niger. <sup>5</sup>
- The Department for the Promotion of Renewable Energies is responsible for promoting and developing RE sector in the country. <sup>5</sup>
- The Government of Niger created a Nigerien Agency for the Promotion of Rural Electrification (ANPER) to design, implement, and monitor rural electrification programs. <sup>6</sup>
- Lighting Africa worked with the Niger Ministry of Energy and Ministry of Finance to exempt taxes on imports of solar and other RE products that came into effect in 2017. <sup>7</sup>



Technological Feasibility

- Niger receives very high levels of solar irradiation of 6.2 kWh/m<sup>2</sup>/day and a specific yield of 4.8 kWh/kWp/day indicating a very strong technical feasibility for solar in the country. <sup>8</sup>
- Niger's Solar Home Systems sales recorded the largest percentage increase in the region (with an impressive 325%) and reached record volumes of 14,000 units sale from July 2019 to December 2019 period. <sup>9</sup>
- ANPER launched a nationwide feasibility study on mini-grid development with the support of USAID and Power Africa in 2019. <sup>6</sup>



Market Maturity

- 19.3% population in Niger had access to electricity as of 2020. <sup>10</sup>
- The Société Nigérienne d'Electricité (NIGELEC) is responsible for electricity production, transmission, and distribution. <sup>11</sup>
- Autorité de Régulation du Secteur de l'Énergie au Niger (ARSÉ) is the energy sector regulatory authority of Niger. <sup>12</sup>
- Niger is a member of the West African Power Pool (WAPP), which aims to integrate the national power systems into a unified regional electricity market. <sup>13</sup>



Infrastructure

- The Nigeria-Niger-Benin-Burkina Faso power interconnection project of one 330 kV double-circuit line over 842 kms allows power exchange among the Countries in the WAPP. <sup>14</sup>
- In 2022, the Economic Community of West African States (ECOWAS) started to build the "North Backbone" ("Dorsale Nord"), a 330 kV transmission line worth USD 568 Mn between Nigeria, Niger, Burkina Faso, Benin, and Togo. <sup>15</sup>
- The AfDB approved a USD 550 Mn investment for the construction of a 330 kV transmission line from Birnin Kebbi (Nigeria) to Ouagadougou (Burkina Faso) through Niamey (Niger). <sup>16</sup>



Financing

- In 2022, AfDB approved USD 379.6 Mn Desert to Power financing facility for Niger and committed to providing technical assistance over the next seven years. <sup>17</sup>
- International fund flow in 2018 was USD 29.2 Mn (in PPP terms) to support clean energy and RE deployment. <sup>18</sup>
- In Niger, the World Bank has shown keen interest in providing finance for 22 national and 10 regional projects valued at USD 2.98 Bn. <sup>18</sup>



Energy Imperatives

- In 2020, Niger's per capita electricity consumption of 0.016 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 324.43 MW in 2019. <sup>19</sup>
- The total installed capacity of Solar PV witnessed a CAGR of 31.5% between 2017-2021 reaching 27.04 MW in 2021 from 9.04 MW levels in 2017. <sup>20</sup>
- The price of electricity in the country stood at 19.3 US Cents/kWh as of 2019. <sup>22</sup>