

## Burundi

Africa

Ease of doing Solar classification



**Progressive**

Electricity Consumption  
in kWh/capita (2020)

**29.4**

Average PVout in kWh/kWp/day  
(2020)

**4.2**

Cumulative Solar Capacity in MW  
(2021)

**5.1**

Getting Electricity Score (2020)

**26.4**

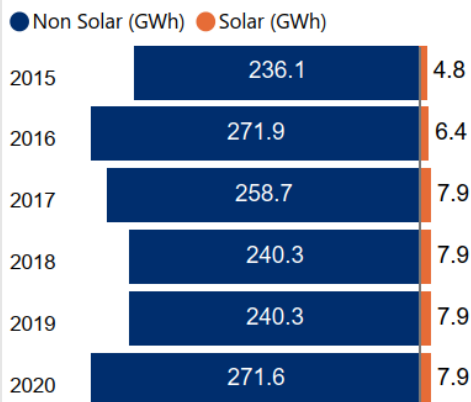
NDC Target by 2030 in %  
(base year 2005)

**3.0**

Human Development Index (2021)

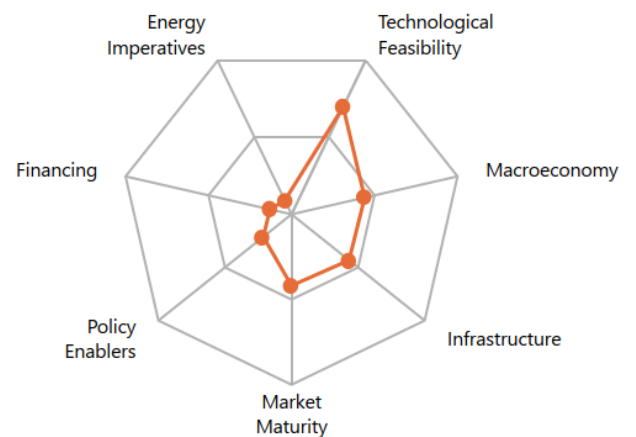
**0.4**

### Renewable Energy Generation by Source

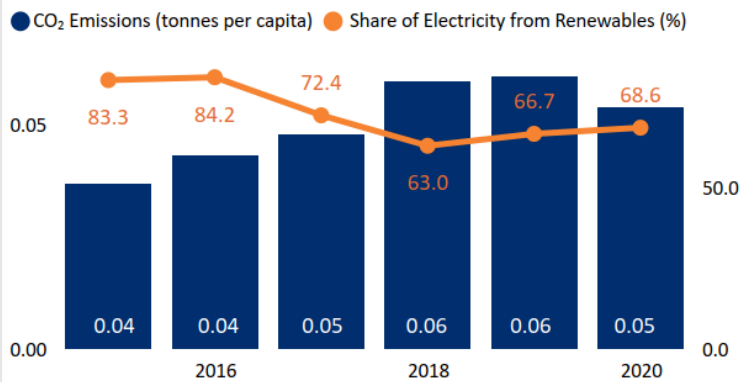


Non Solar RE includes Wind and Hydro;

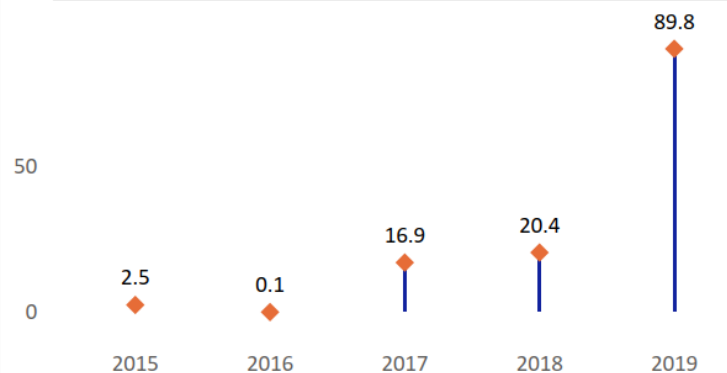
### Performance against 7 Drivers



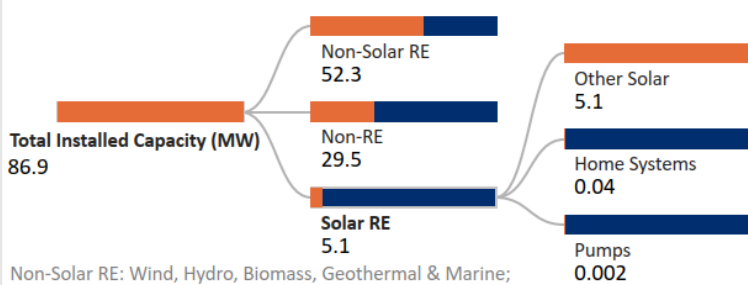
### CO<sub>2</sub> Emissions vs Electricity share from Renewables



### 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**

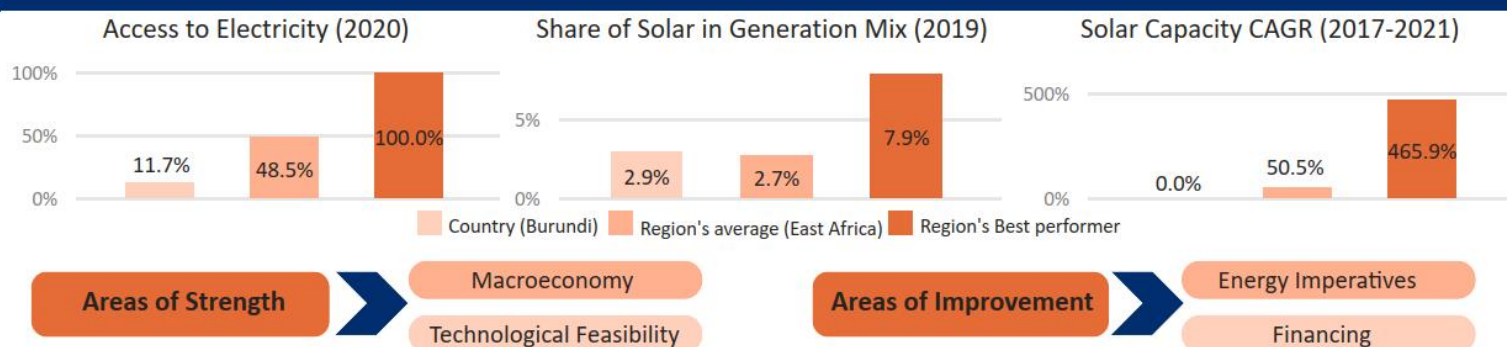
Renewable Energy Certificates?

**No**

Renewable Purchase Obligation?

**No**

## Country's regional performance and characteristics



## Key Insights

### Drivers

### Insights



Macroeconomy

- Burundi is a low-income country<sup>1</sup> with GDP per capita (PPP) of USD 775 as of 2021.<sup>2</sup>
- GDP (Real) grew at an annual rate of 2.4% in 2021 and it is estimated to grow by 3.6% in 2022.<sup>3</sup>
- Total public debt in the country increased to 71.9% of GDP in 2021 from 67% level in 2020.<sup>4</sup>
- Inflation Rate in the country increased to 8.3% in 2021 from 7.3% levels in 2020.<sup>5</sup>



Policy enablers

- Ministry of Hydraulics, Energy and Mines (MINHEM) is responsible for developing and implementing the energy sector policies.<sup>6</sup>
- ABER (Burundian Agency for Rural Electrification) is the designated agency that is responsible for the development and implementation of rural electrification programs and projects.<sup>6</sup>
- In 2020, Burundi revised its NDCs focusing on conserving carbon sinks, adopting climate-resilient seeds and crops, and developing non-motorized transport infrastructure.<sup>4</sup>



Technological Feasibility

- The country receives high levels of solar irradiation of 5.0 kWh/m<sup>2</sup>/day and specific yield of 4.2 kWh/kWp/day indicating a strong technical feasibility for solar in the country.<sup>7</sup>
- Average hours of direct sunshine typically vary between 4 to 5 hours daily regardless of the season.<sup>8</sup>
- The UN Environment program is currently active in Burundi and is working on the introduction of electric vehicles (two and three wheelers).<sup>9</sup>
- The penetration of quality-verified off-grid solar products in Burundi is very low with only an estimated 50,000-100,000 products sold to date across the country.<sup>10</sup>



Market Maturity

- 11.7% of the population in Burundi is having access to electricity since 2020 indicating a huge scope for electrification.<sup>11</sup>
- Burundian National Authority for Regulating the Electricity and Water Sector (AREEN) is the designated regulatory agency responsible for the electricity and water sector in Burundi.<sup>6</sup>
- REGIDESO is a state-owned, vertically integrated power utility responsible for the supply and distribution of electricity in Burundi.<sup>12</sup>
- Burundi is a member of Eastern Africa Power Pool.<sup>13</sup>



Infrastructure

- Burundi imports electricity from neighbouring countries such as Democratic Republic of Congo (DRC) and Rwanda through a cross-border hydropower complex.<sup>14</sup>
- The country's transmission and distribution network of (30 kV-110 kV) are not in a good shape and require investments to improve the operations.<sup>15</sup>



Financing

- The AfDB, through its Sustainable Energy Fund for Africa (SEFA), is providing \$990,000 grant to support the development of a 9 MW Solar-Hydro hybrid project in Burundi.<sup>16</sup>
- The AfDB's debt funding platform-Facility for Energy Inclusion attracts nearly \$160 Mn for small-scale renewable energy projects.<sup>17</sup>
- The AfDB and the Government of Burundi signed a \$29 Mn grant agreement to finance Phase 1 of the Access to Energy Project, which is part of the country's infrastructure development program.<sup>18</sup>



Energy Imperatives

- In 2020, the per capita electricity consumption of 0.03 MWh is significantly lower in comparison to the global average of 3.31 MWh.<sup>19</sup>
- The price of electricity in the country was 15.70 US Cents/kWh as of 2019.<sup>20</sup>