

**Fiji**

Asia & Pacific

Ease of doing Solar classification



**Influencer**

Electricity Consumption  
in kWh/capita (2020)

**1104.4**

Average PVout in kWh/kWp/day  
(2020)

**3.8**

Cumulative Solar Capacity in MW  
(2021)

**9.7**

Getting Electricity Score (2020)

**72.8**

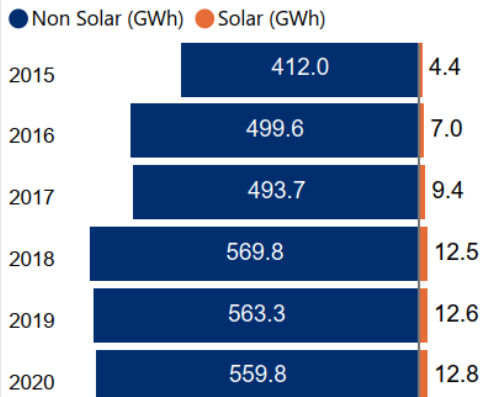
NDC Target by 2030 in %  
(base year 2013)

**30.0**

Human Development Index (2021)

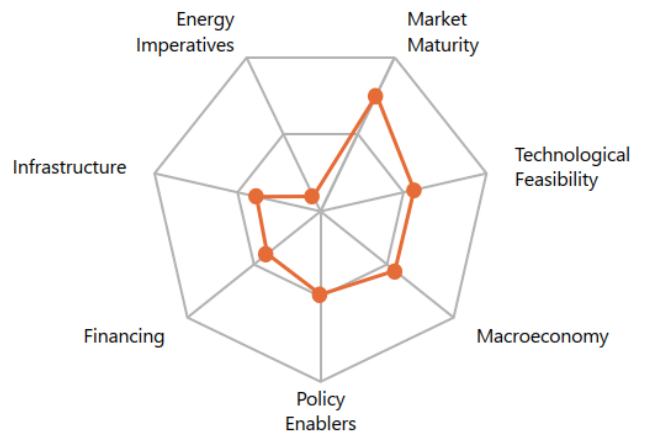
**0.7**

**Renewable Energy Generation by Source**

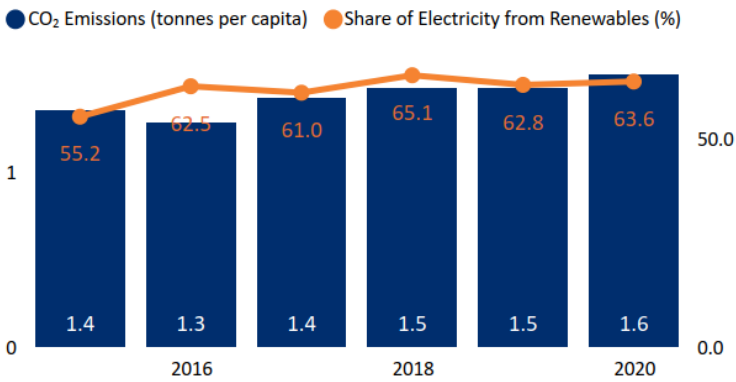


Non Solar RE includes Wind and Hydro;

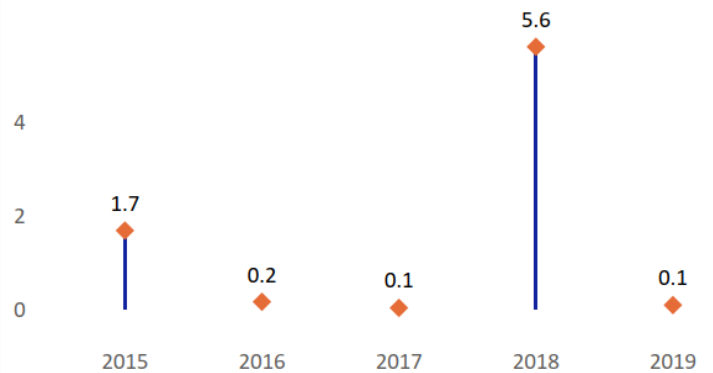
**Performance against 7 Drivers**



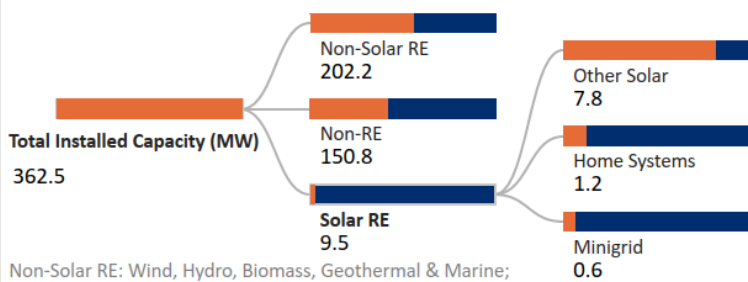
**CO<sub>2</sub> Emissions vs Electricity share from Renewables**



**International Finance received for Clean Energy (Million US Dollars)**



**Installed Capacity by Source (2019)**



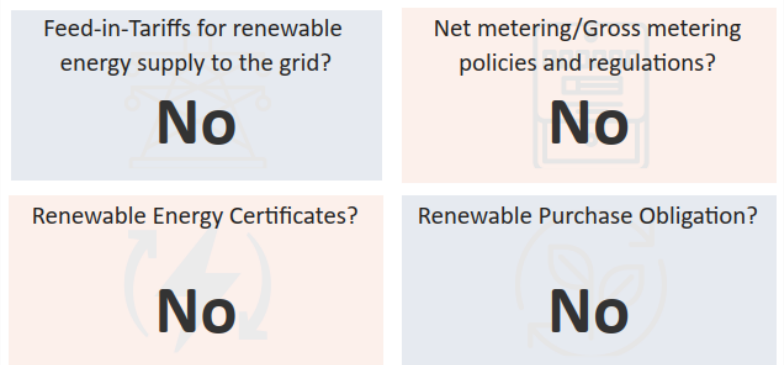
Non-Solar RE: Wind, Hydro, Biomass, Geothermal & Marine;

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

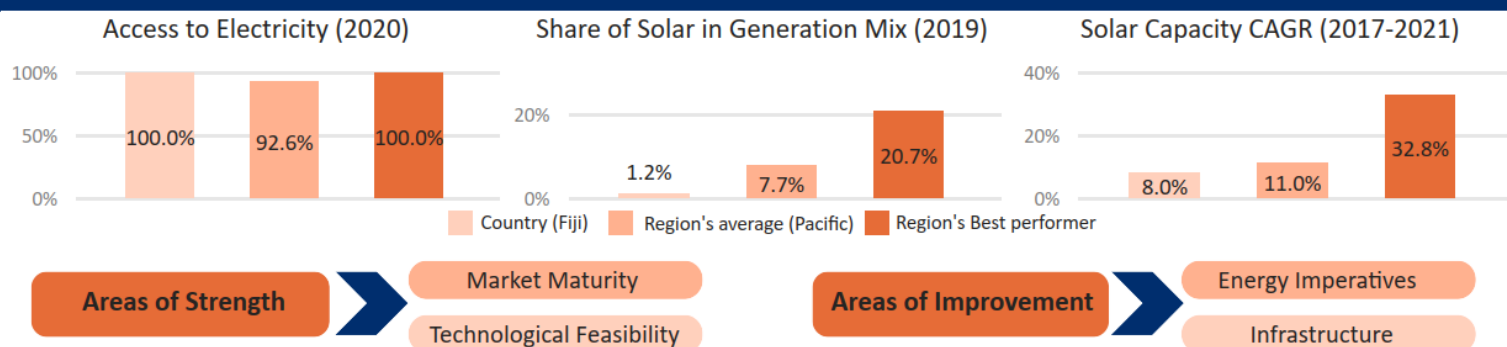
Other Solar: Utility Scale Solar, Rooftop etc.;

Data not available for other Solar RE segments;

**Support for Renewables (2020)**



## Country's regional performance and characteristics



## Key Insights

### Drivers

### Insights



Macro-economy

- Fiji is a middle-income country with a GDP per capita (PPP) of USD 11,381 in 2021. <sup>1, 2</sup>
- Due to COVID-19 Pandemic, the GDP (Real) had declined by 17% in 2020. However, in 2021, the GDP is showing signs of bouncing back with an annual growth rate of -5.1%, a recovery of almost 12 percentage points. <sup>1</sup>
- The inflation rate (CPI) of Fiji has increased to 0.2% in 2021 from -2.6% levels in 2020. <sup>3</sup>
- The general government gross debt to GDP has reached 83% in 2021 from 63.1% levels in 2020. <sup>4</sup>



Policy enablers

- Fiji's 20-year National Development Plan aims to generate all power from RE sources by 2030. <sup>5</sup>
- Fiji has a Fiji National Policy in place to target rural electrification, grid-based power supply and R&D in promotion of new technology in RE. <sup>6</sup>
- The Fijian government in its NDC commitment has reaffirmed its net zero GHG emissions by 2050. <sup>7</sup>
- Fiji has enacted its Climate Change Act, 2021 as per the commitment in NDC to enable country's mitigation, adaptation, and disaster risk management. <sup>8</sup>



Technological Feasibility

- Fiji receives moderate levels of solar irradiation (GHI) of 4.3 kWh/m<sup>2</sup>/day and specific yield 3.8 kWh/kWp/day indicating a moderate technical feasibility for solar in the country. <sup>9</sup>
- Fiji Electricity Authority (FEA) and the Korean International Cooperation Agency (KOICA) has developed a 1.55 MW solar PV project on the island of Taveuni. <sup>10</sup>
- Fiji is coming up with Energy Fiji Solar PV Park of 15 MW which is expected to start its commercial operation in 2023. <sup>11</sup>



Market Maturity

- 100% of the population in Fiji is having access to electricity since 2020. <sup>12</sup>
- Energy Fiji Ltd (EFL) has sole statutory authority for the generation, transmission, distribution, retail of electricity. <sup>13</sup>
- The Department of Energy (DOE) is responsible for energy policies and plans, energy efficiency and conservation, RE and rural electrification. <sup>14</sup>
- Energy Fiji Ltd (EFL) has set out a process for regularly reviewing the cost of electricity supply and setting tariffs and making all forms of electricity subsidies transparent to energy consumers. <sup>15</sup>



Infrastructure

- Fiji's power network comprises of 11 kV, 33 kV, 132 kV lines. <sup>16</sup>
- In budget 2021-2022, Fiji government has allocated over USD 11 Mn for grid extension and house wiring for communities that have been relocated to due to rising sea levels. <sup>17</sup>
- ADB has provided a loan of USD 20 Mn to finance expansion of transmission network for 11 kV, 33 kV, 132 kV lines. <sup>18</sup>



Financing

- A risk sharing fund administered by ANZ Bank and funded by the Global Environment Facility is established to allow participation of Fiji Development Bank and ANZ Fiji – to share the risk of lending for renewable projects. <sup>19</sup>
- Private Financing Advisory Network (PFAN) with its result-based concept is funding private distributed energy service companies (DESCOs) for co-financing and developing off-grid solar projects in Fiji. <sup>20</sup>
- EFL and IFC have signed an agreement for Pacific's largest solar project worth USD 15 Mn. <sup>21</sup>



Energy Imperatives

- In 2020, the per capita electricity consumption stood at 1.10 MWh which is significantly lower in comparison to the global average of 3.31 MWh. <sup>22</sup>
- The total installed capacity of Solar PV witnessed a CAGR of 8.0% between 2017-2021 reaching 9.7 MW in 2021 from 7.1 MW levels in 2017. <sup>23</sup>
- The peak demand for electricity in the country is 0.99 TWh as of 2021 which has remained same as the last year's demand. <sup>25</sup>
- In 2021, the total installed capacity in the country has reached over 0.25 GW <sup>26</sup> with a significant share coming from hydro (50.51%), other fuels (36.36%) followed by bioenergy (11.11%) and solar (2.02%). <sup>25</sup>