
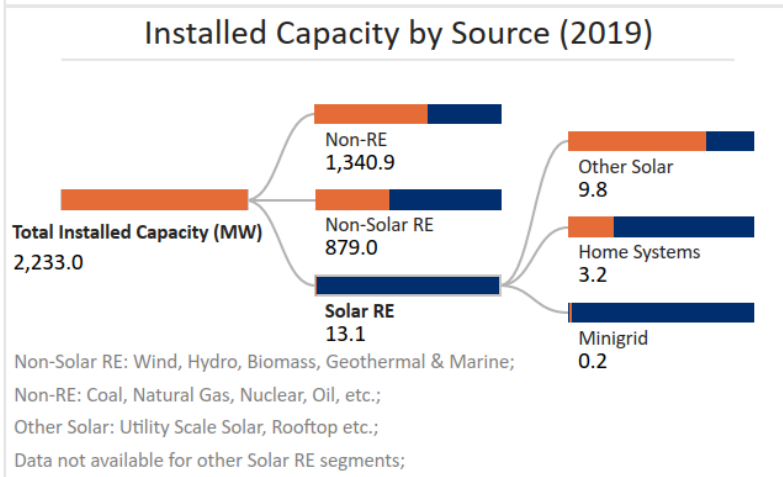
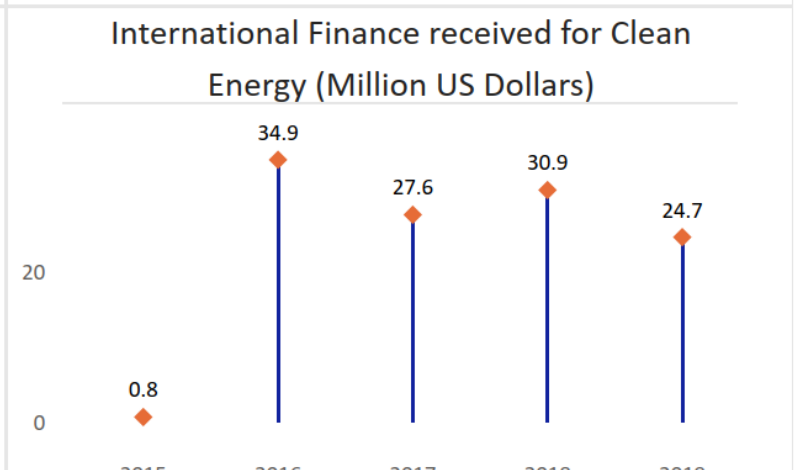
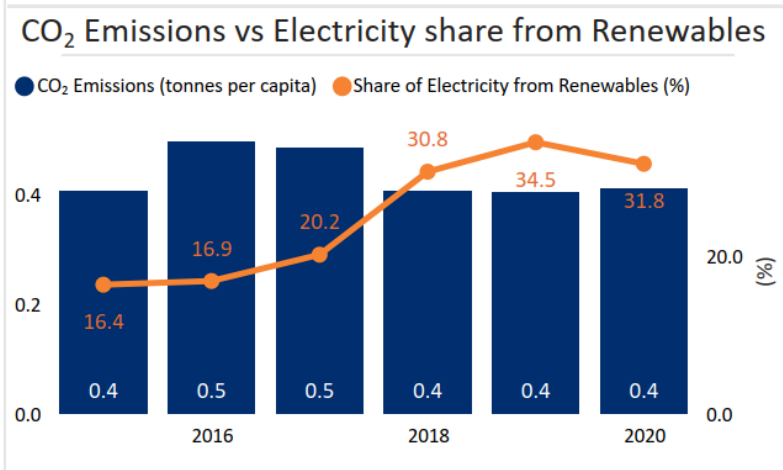
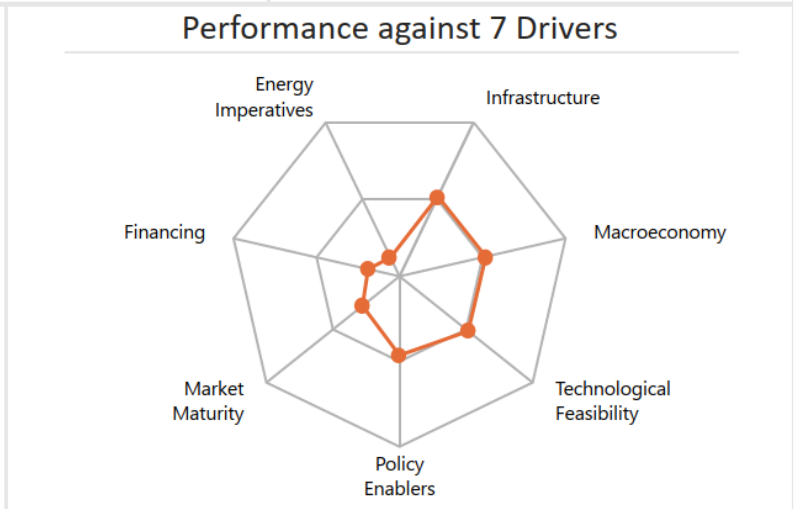
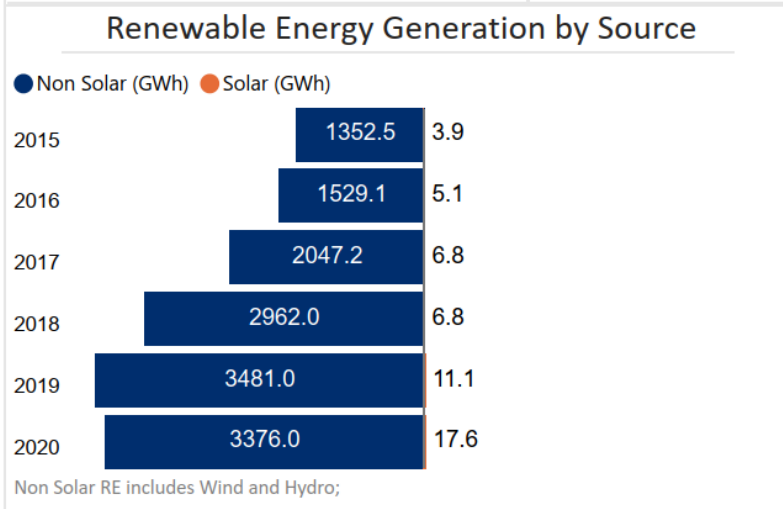
		Côte d'Ivoire	Ease of doing Solar classification  Influencer
		Africa	
Electricity Consumption in kWh/capita (2020) 361.7	Average PVout in kWh/kWp/day (2020) 4.0	Cumulative Solar Capacity in MW (2021) 13.1	
Getting Electricity Score (2020) 59.2	NDC Target by 2030 in % 30.4	Human Development Index (2021) 0.6	



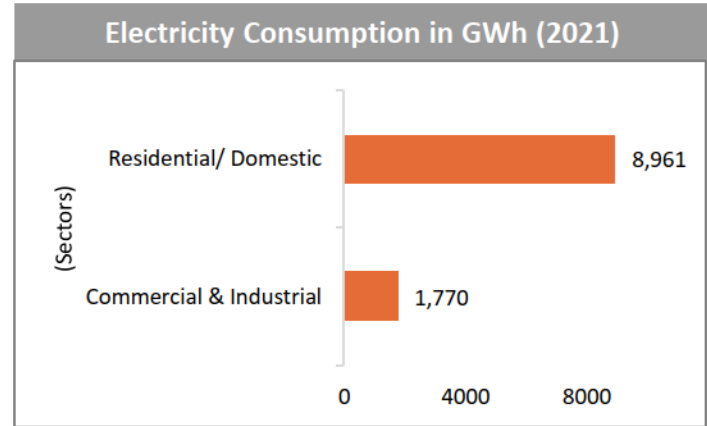
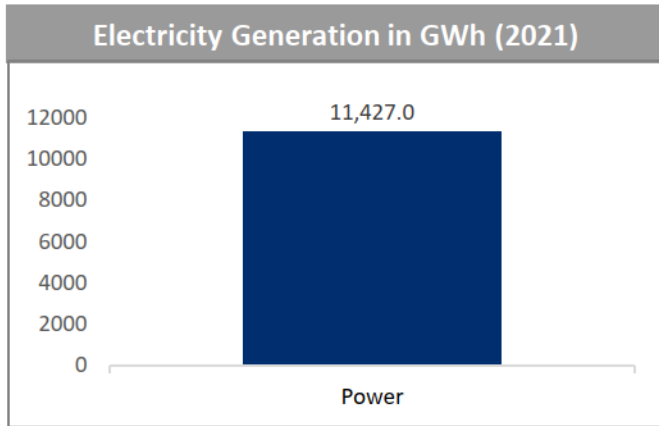
Support for Renewables (2020)

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

Peak Demand/Load in MW (2021)
1645.0

Diesel based Electricity Generation in GWh (2021)
5.0

Solar PV project Capital Cost in USD/MW (2021)
750.0

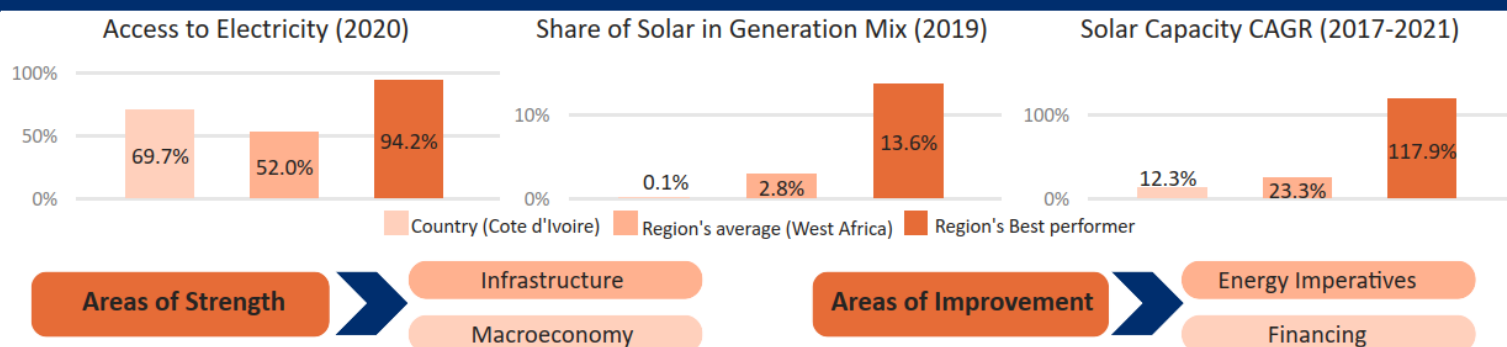


Financial Support Mechanisms (2021)	
Duty waivers to solar developers for importing/procuring material from foreign land	Yes
Tax waivers for manufacturers of raw materials (modules, off grid appliances, etc.)	No
Credit facilitation for solar energy from financial institutions (FIs)	Yes
Viability Gap Funding (VGF) i.e. Grant to support RE projects that are economically justified but fall short of financial viability	No
Accelerated Depreciation benefit for Industrial/commercial users of Solar Power	No

Policies/Schemes for Solar Segments (2021)								
Rooftop Solar	Solar Mini Grids	Standalone solar systems	Utility scale solar	Solar Parks	Floating Solar	Solar heating and cooling system	Battery waste management	Green Hydrogen
No	Yes	Yes	Yes	Yes	Yes	No	No	No

Emerging Technologies/Innovative Models (2021)	
Hybrid technologies - combination of two or more technologies to achieve efficient systems (Example: wind + solar PV hybrid systems, solar + storage systems)	Yes
Emerging technologies - the next generation technologies (Example: Artificial Intelligence, Machine learning, Internet of Things, etc.)	Yes
E-mobility/Electric vehicles	Yes

Country's regional performance and characteristics



Key Insights

Drivers

Insights



Macroeconomy

- Côte d'Ivoire is a lower middle-income country¹ with GDP per capita (PPP) of USD 5,850 in 2021.²
- GDP (Real) grew at an annual rate of 6.5% in 2021 and it is estimated to increase by 6% in 2022.³
- Inflation rate in the country increased to 4.2% in 2021 from 2.4% levels in 2020.⁴
- The budget deficit in the country reduced to 5.0% of GDP in 2021 from 5.6% levels in 2020.⁴



Policy enablers

- The Ministry of Petroleum, Energy, and Renewable Energy is responsible for promoting off-grid solar in the country.⁵
- The Ministry of the Environment and Sustainable Development is responsible for implementing and enforcing environmental and sustainable development policies in the country.⁵
- Ivorian Association of Renewable Energies (AIENR) is responsible for promoting renewable energy and energy efficiency in Côte d'Ivoire.⁵
- Rural Electrification Master Plan (Plan Directeur d'Electrification Rurale [PDER]) has been created to strengthen electrification in rural areas of the country.⁵



Technological Feasibility

- Côte d'Ivoire receives high levels of solar irradiation of 5.0 kWh/m²/day and specific yield of 4.0 kWh/kWp/day indicating a strong technical feasibility for solar in the country.⁶
- The UN Environment program is currently active in Côte d'Ivoire and is working on the introduction of electric light duty vehicles and zero/low-emissions buses.⁷
- The project 'Promoting RE Based Grids in Rural Communities for Productive Uses in Côte d'Ivoire' aims to develop a market-based approach for improving the access to PV-based minigrids in rural areas.⁸



Market Maturity

- 69.7% population in Côte d'Ivoire had access to electricity as of 2020.⁹
- National Authority for the Regulation of the Electricity Sector (ANARE) is the energy regulator in the country.⁵
- The Ivorian Electricity Company (Compagnie Ivoirienne d'Electricité, CIE) handles the generation, transmission, and distribution of electricity.⁵
- Côte d'Ivoire is the member of the West African Power Pool (WAPP), which aims to integrate the national power systems into a unified regional electricity market.¹⁰



Infrastructure

- The country's average Transmission and Distribution loss levels are 8.3% and 10.4% respectively.¹¹
- The country is a net exporter of electricity to neighbouring countries such as Benin, Burkina Faso, Ghana, and Togo.⁵
- CIE operates an electricity network of more than 50,000 kms and it distributes electricity to more than 1.9 Mn customers in the Ivory Coast.¹²



Financing

- In Côte d'Ivoire, the AfDB is providing €50 Mn for development of RE projects in the country.¹³
- In 2018, the AfDB mobilized over CFAF 15 Bn to finance pay-as-you-go solar home systems in Côte d'Ivoire.¹⁴
- The AfDB approved USD 324 Mn to support two RE projects in Côte d'Ivoire and Morocco that are expected to significantly increase power supplies and keep economic growth on track.¹⁵



Energy Imperatives

- The total installed capacity in the country stood at 2,233 MW in 2019.¹⁶
- The total installed capacity of solar PV witnessed a CAGR of 12.3% between 2017-2021 reaching 13.14 MW in 2021 from 8.28 MW levels in 2017.¹⁷
- In 2020, the per capita electricity consumption stood at 0.36 MWh which is significantly lower in comparison to the global average of 3.31 MWh.¹⁸
- The price of electricity in the country was 11.8 US Cents/kWh as of 2019.¹⁹