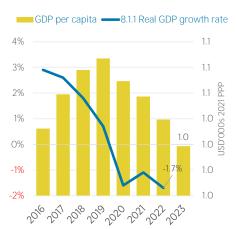
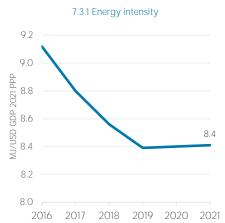
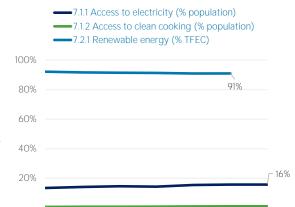
# Central African Republic



#### **COUNTRY INDICATORS AND SDGS**





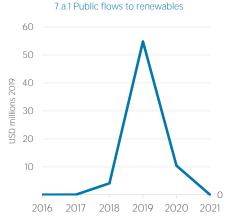


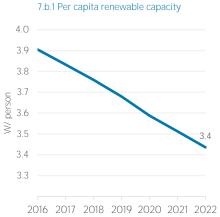
2019

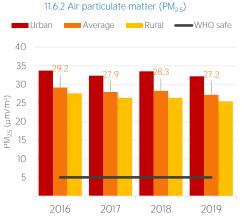
2020

2021

20221%







2018

2016

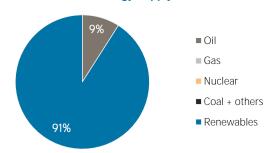
#### **TOTAL ENERGY SUPPLY (TES)**

Total Energy Supply (TES)	2016	2021
Non-renewable (TJ)	2 869	3 475
Renewable (TJ)	33 711	34 949
Total (TJ)	36 580	38 424
Renewable share (%)	92	91

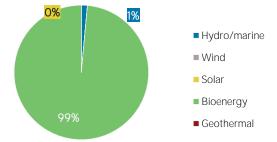
Growth in TES	2016-21	2020-21
Non-renewable (%)	+21.1	+1.3
Renewable (%)	+3.7	+1.1
Total (%)	+5.0	+1.1

Primary energy trade	2016	2021
Imports (TJ)	3 531	4 313
Exports (TJ)	0	0
Net trade (TJ)	- 3 531	- 4 313
Imports (% of supply)	10	11
Exports (% of production)	0	0
Energy self-sufficiency (%)	92	91

#### Total energy supply in 2021



#### Renewable energy supply in 2021

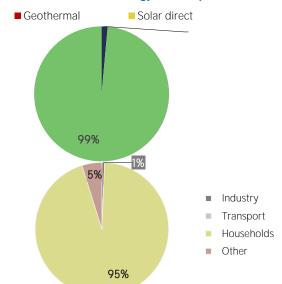


#### **RENEWABLE ENERGY CONSUMPTION (TFEC)**

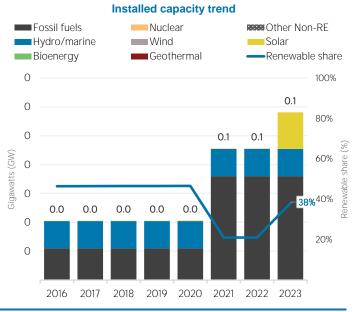
#### Renewable TFEC trend

#### ■ Electricity ■ Commercial heat ■ Bioenergy 40 35 30 Petajoules (PJ) 25 20 15 10 5 2016 2017 2018 2019 2020 2021 Consumption by sector 2016 2021 Industry (TJ) 249 238 Transport (TJ) 0 Households (TJ) 32 198 33 519 Other (TJ) 1777 1709

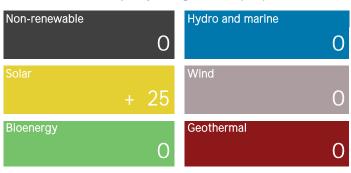
#### Renewable energy consumption in 2021



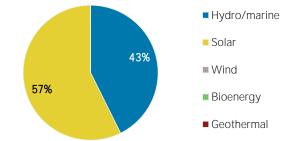
#### **ELECTRICITY CAPACITY**



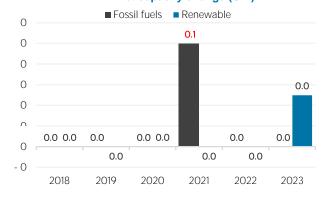
#### Net capacity change in 2023 (MW)



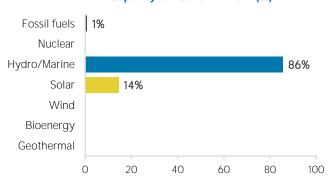
## Renewable capacity in 2023



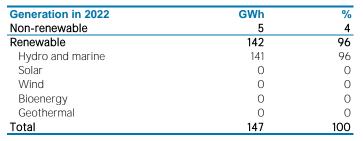
#### Net capacity change (GW)



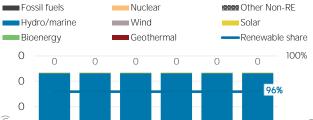
#### Capacity utilisation in 2022 (%)



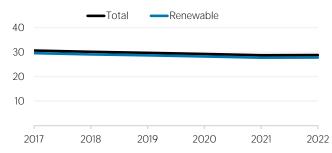
#### **ELECTRICITY GENERATION**

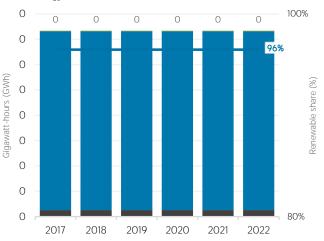




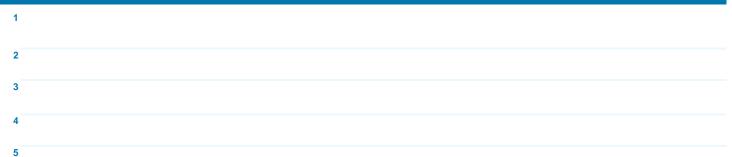


#### Per capita electricity generation (kWh)

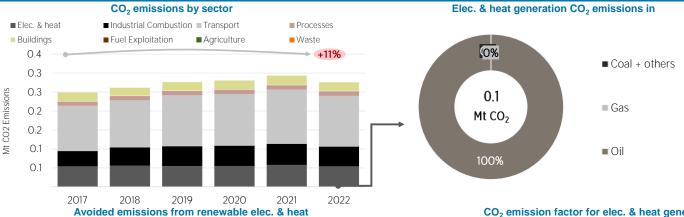




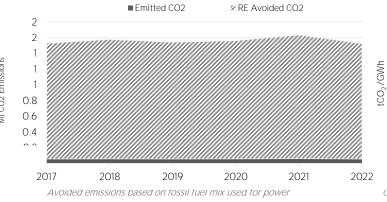
#### LATEST POLICIES, PROGRAMMES AND LEGISLATION

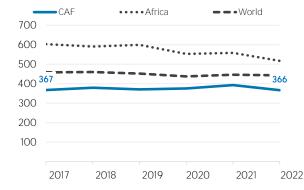


#### **ENERGY AND EMISSIONS**



## CO<sub>2</sub> emission factor for elec. & heat generation



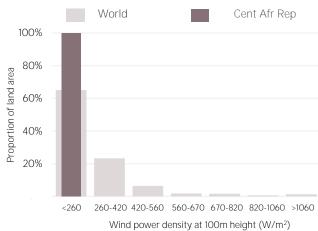


Calculated by dividing power sector emissions by elec. + heat gen.

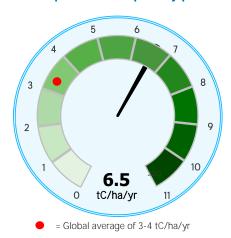
#### RENEWABLE RESOURCE POTENTIAL

#### Distribution of solar potential Cent Afr Rep World 100% 80% Proportion of land area 60% 40% 20% 1.8 - 1.9 <12 12 - 14 1.4 - 1.6 1.6 - 1.8 19 - 20 >20 Annual generation per unit of installed PV capacity (MWh/kWp)

#### Distribution of wind potential



#### Biomass potential: net primary production



#### Indicators of renewable resource potential

**Solar PV:** Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).

Onshore wind: Potential wind power density (W/m²) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country's land area in each of these classes compared to the global distribution of wind resources. Areas in the third class or above are considered to be a good wind resource.

**Biomass:** Net primary production (NPP) is the amount of carbon fixed by plants and accumulated as biomass each year. It is a basic measure of biomass productivity. The chart shows the average NPP in the country (tC/ha/yr), compared to the global average NPP of 3-4 tonnes of carbon



Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (H5). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided emissions from renewable power is calculated as renewable generation divided by fossil fuel generation multiplied by reported emissions from the power sector. This assumes that, if renewable power did not exist, fossil fuels would be used in its place to generate the same amount of power and using the same mix of fossil fuels. In countries and years where no fossil fuel generation occurs, an average fossil fuel emission factor has been used to calculate the avoided emissions.

These profiles have been produced to provide an overview of developments in renewable energy in different countries and areas. The IRENA statistics team would welcome comments and feedback on its structure and content, which can be sent to statistics@irena.org.

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