ENERGY PROFILE

Mozambique

2%

1%

0%

-1%

-2%

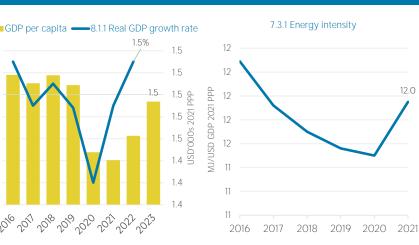
-3%

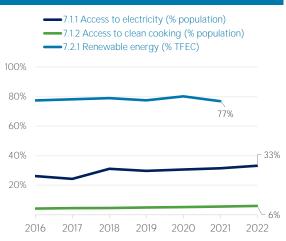
-4%

-5%

2016

COUNTRY INDICATORS AND SDGS



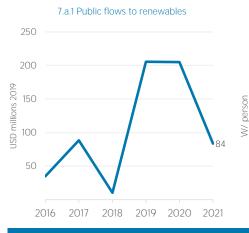


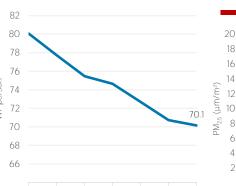
-WHO safe

16.4

2019

International Renewable Energy Agency





7.b.1 Per capita renewable capacity

2016 2017 2018 2019 2020 2021 2022

TOTAL ENERGY SUPPLY (TES)

2017

11.6.2 Air particulate matter (PM_{2.5})

16.3

Rural

16.7

2018

Average

Urban

8

6

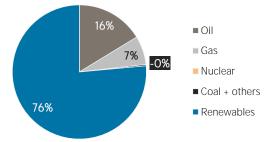
4

2

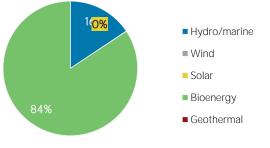
16.4

2016









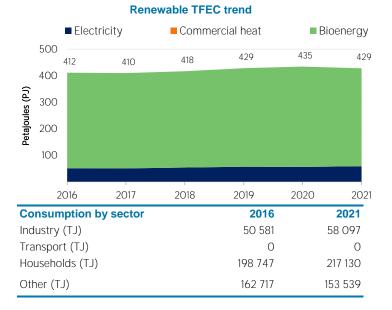
Total Energy Supply (TES) 2021 2016 108 984 Non-renewable (TJ) 114 422 Renewable (TJ) 340 446 363 730 Total (TJ) 454 868 472 714 Renewable share (%) 75 77

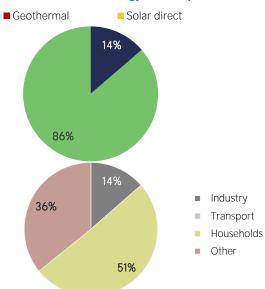
Growth in TES	2016-21	2020-21
Non-renewable (%)	-4.8	+26.4
Renewable (%)	+6.8	-0.6
Total (%)	+3.9	+4.5

Primary energy trade	2016	2021
Imports (TJ)	126 956	107 821
Exports (TJ)	413 820	455 481
Net trade (TJ)	286 864	347 660
Imports (% of supply)	28	23
Exports (% of production)	61	54
Energy self-sufficiency (%)	149	177

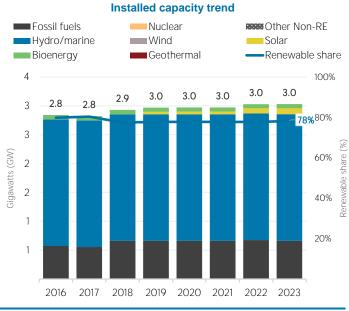
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable energy consumption in 2021





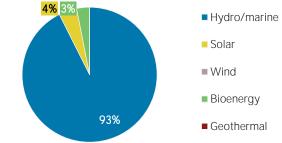
ELECTRICITY CAPACITY



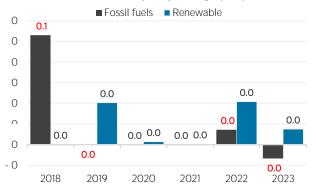
Net capacity change in 2023 (MW)

Non-renewable			Hydro and marine	
	-	13		0
Solar			Wind	
		15		0
Bioenergy			Geothermal	
		0		0

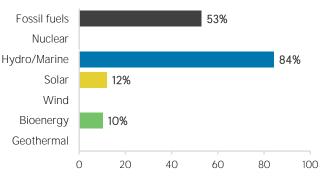




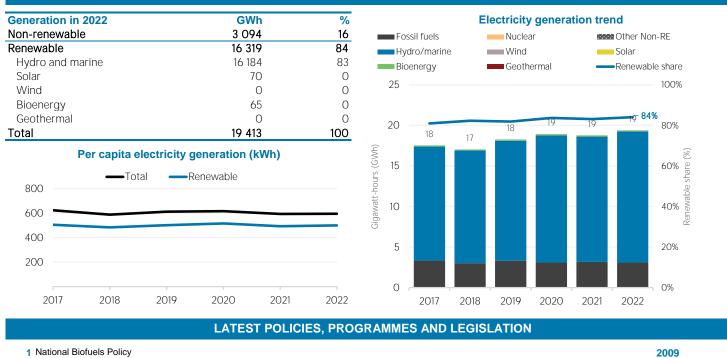
Net capacity change (GW)

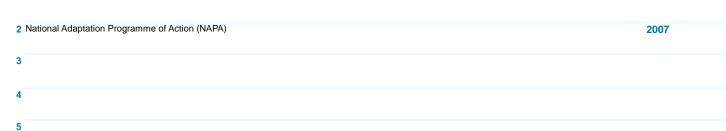


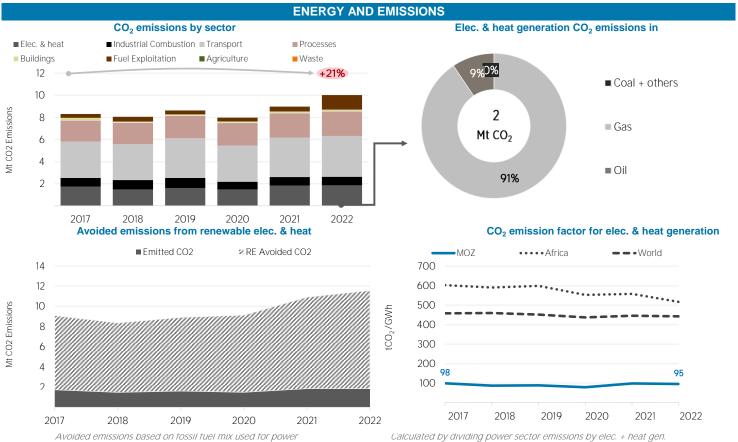




ELECTRICITY GENERATION







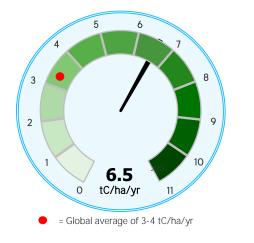
Calculated by dividing power sector emissions by elec. + heat gen.

RENEWABLE RESOURCE POTENTIAL



Annual generation per unit of installed PV capacity (MWh/kWp)

Biomass potential: net primary production



 Distribution of wind potential

 World
 Mozambique

 80%
 60%

 40%
 20%

 <260</td>
 260-420
 420-560
 560-670
 670-820
 820-1060
 >1060

 Wind power density at 100m height (W/m²)
 Wind power density at 100m height (W/m²)
 Nozambique

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.

Blomass: 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

Sources: IRENA statistics, plus data from the following sources: UN SDG Database (original sources: WHO; World Bank; IEA; IRENA; and UNSD); UN World Population Prospects: UNSD Energy Balances; UN COMTRADE; World Bank World Development Indicators; EDGAR; REN21 Global Status Report; IEA-IRENA Joint Policies and Measures Database; IRENA Global Atlas; and World Bank Global Solar Atlas and Global Wind Atlas.

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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