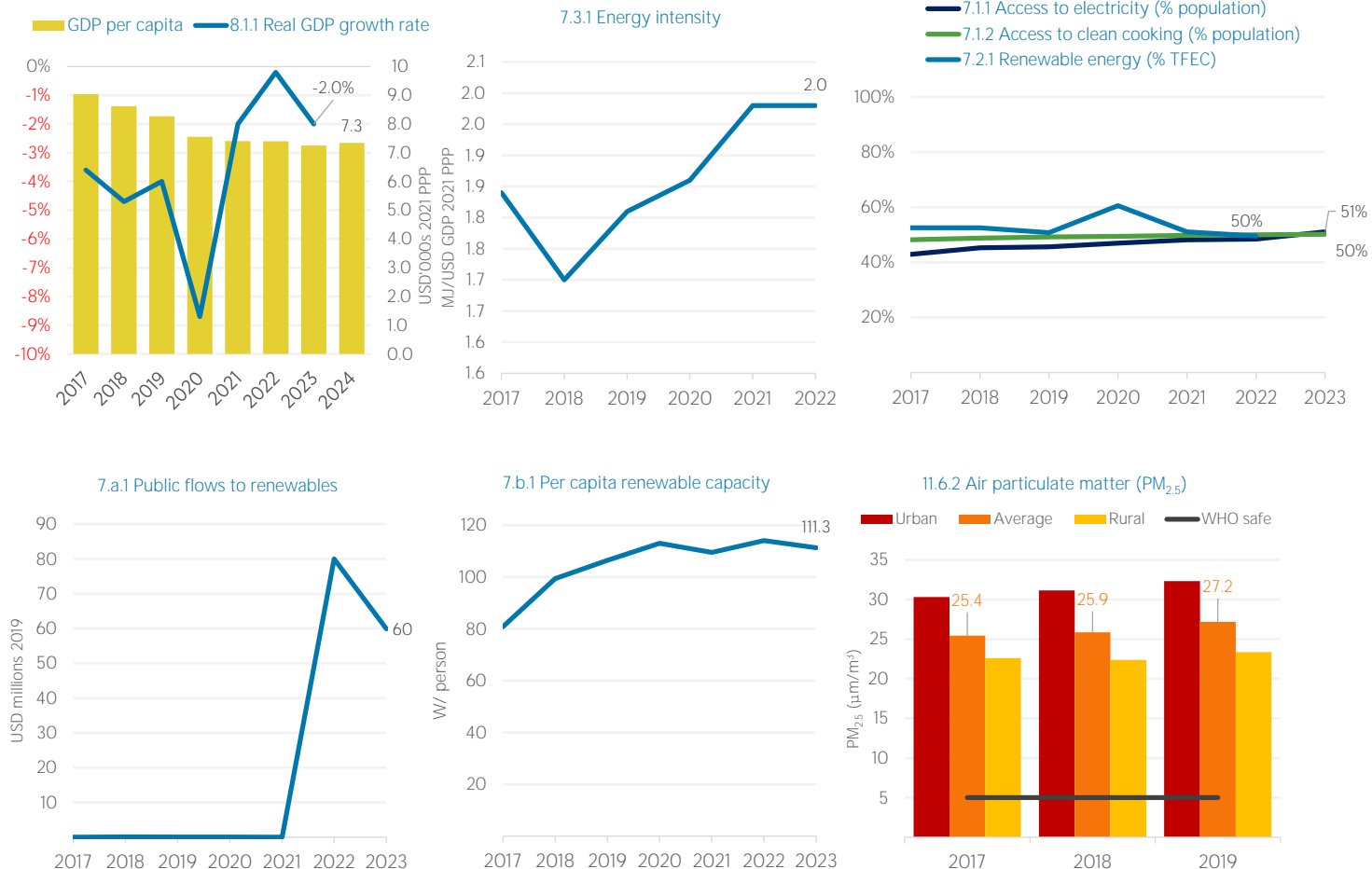


COUNTRY INDICATORS AND SDGS



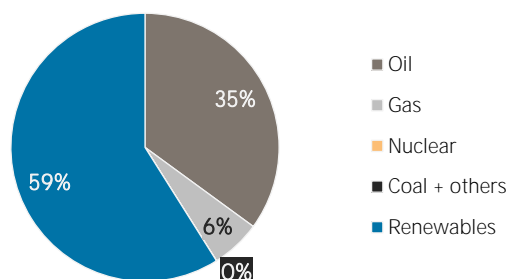
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	238 695	240 915
Renewable (TJ)	305 122	345 908
Total (TJ)	543 817	586 822
Renewable share (%)	56	59

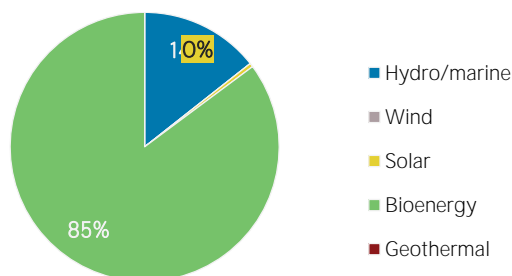
Growth in TES	2017-22	2021-22
Non-renewable (%)	+0.9	+13.0
Renewable (%)	+13.4	+4.1
Total (%)	+7.9	+7.5

Primary energy trade	2017	2022
Imports (TJ)	151 986	134 640
Exports (TJ)	3 727 629	2 546 500
Net trade (TJ)	3 575 643	2 411 860
Imports (% of supply)	28	23
Exports (% of production)	91	84
Energy self-sufficiency (%)	754	515

Total energy supply in 2022

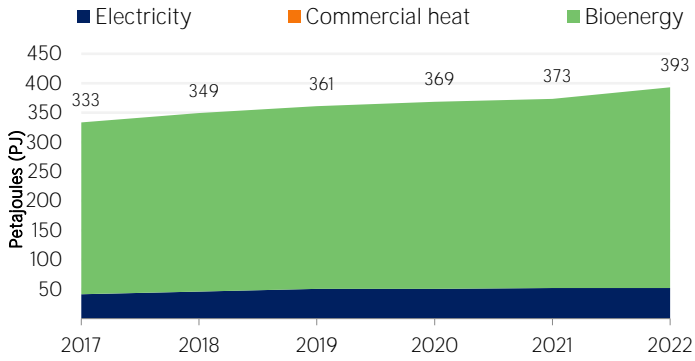


Renewable energy supply in 2022



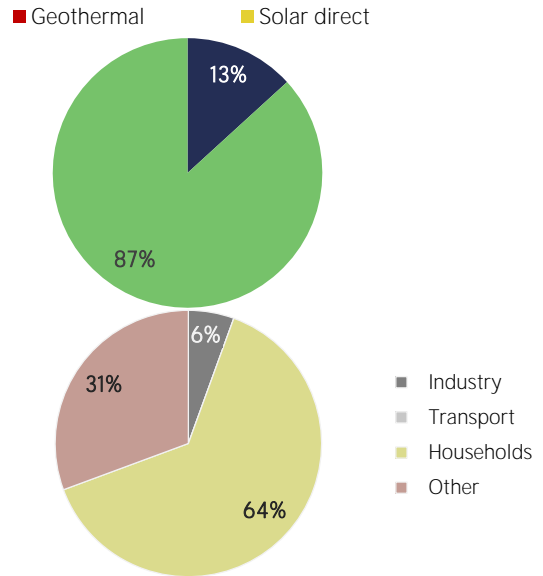
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend



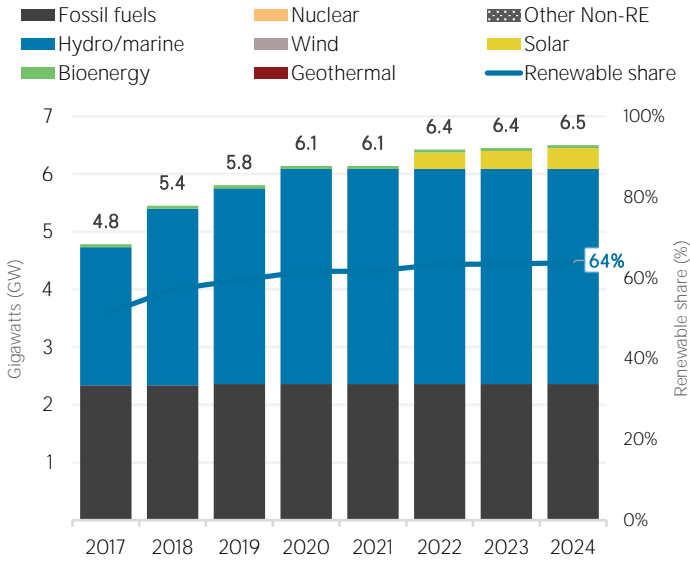
Consumption by sector	2017	2022
Industry (TJ)	19 339	21 798
Transport (TJ)	0	0
Households (TJ)	220 904	250 840
Other (TJ)	93 215	120 457

Renewable energy consumption in 2022

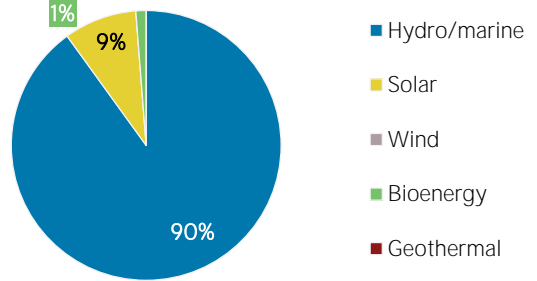


ELECTRICITY CAPACITY

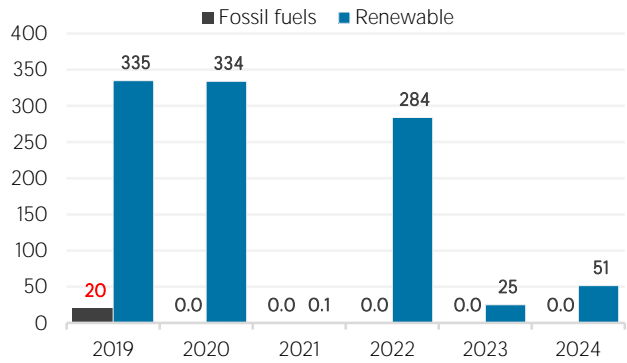
Installed capacity trend



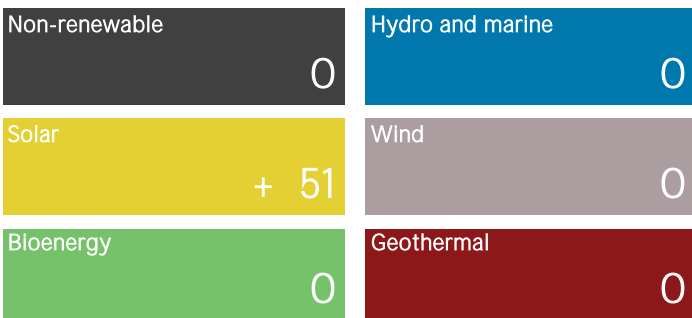
Renewable capacity in 2024



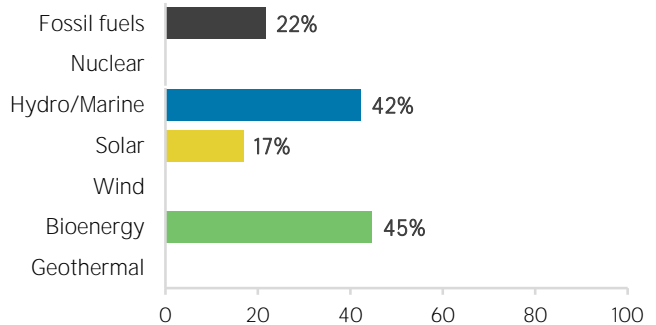
Net capacity change (MW)



Net capacity change in 2024 (MW)

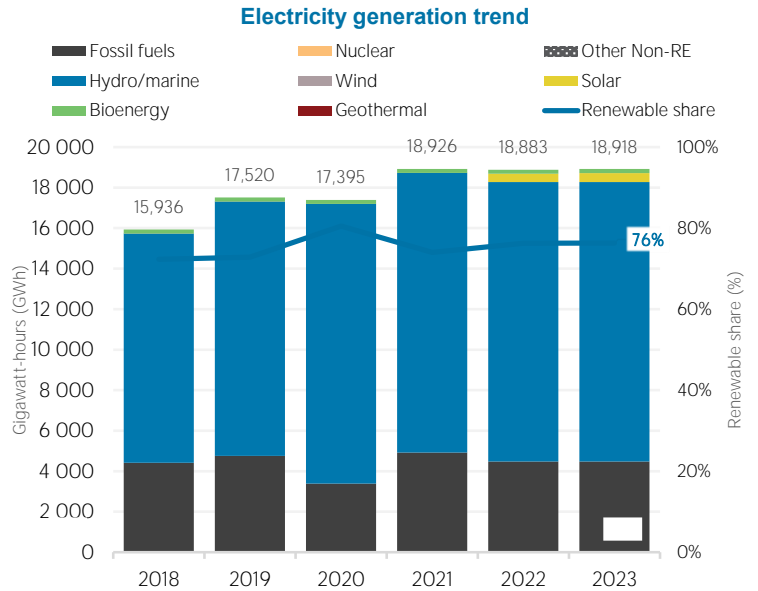
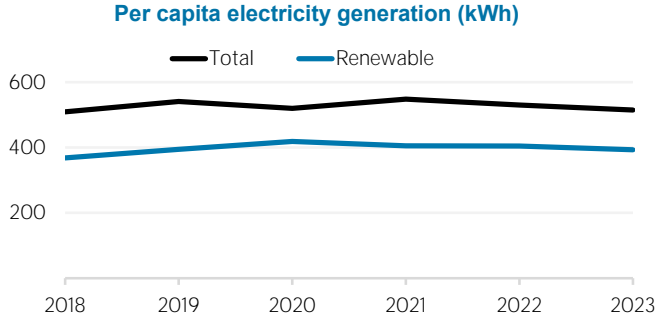


Capacity utilisation in 2023 (%)



ELECTRICITY GENERATION

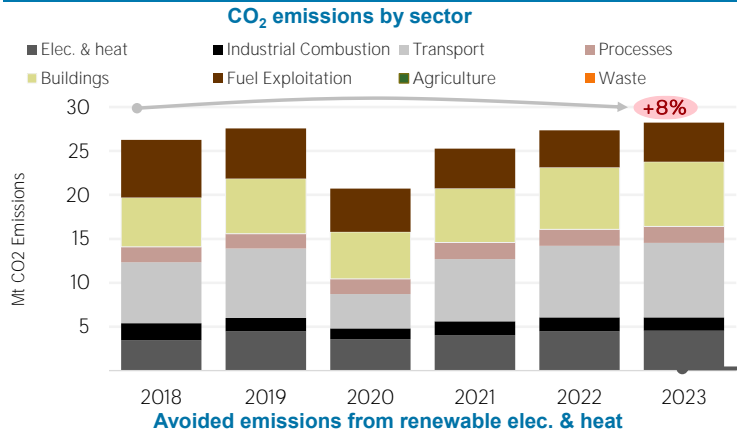
Generation in 2023	GWh	%
Non-renewable	4 475	24
Renewable	14 443	76
Hydro and marine	13 802	73
Solar	441	2
Wind	0	0
Bioenergy	200	1
Geothermal	0	0
Total	18 918	100



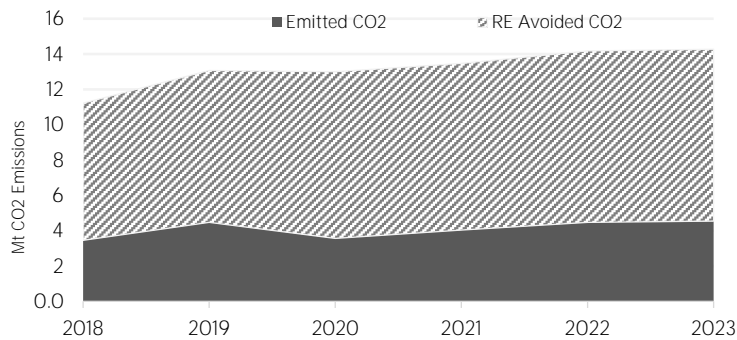
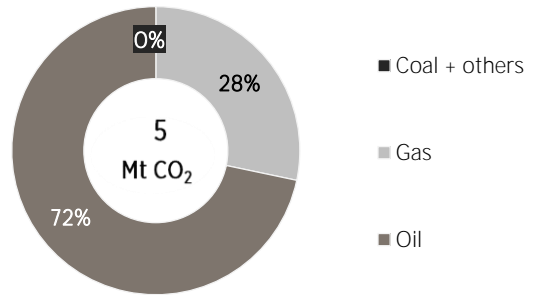
LATEST POLICIES, PROGRAMMES AND LEGISLATION

- 1 Update of Custom Tariff of Import Duties 2024
- 2 Revised/Updated NDC of Angola 2021
- 3 Free Zone Law 2020
- 4 Presidential Decree No. 117/20 - General Regulation on Environmental Impact Assessment and the Environmental Licensing Procedure 2020
- 5 African Continental Free Trade Area (AFCFTA) 2019

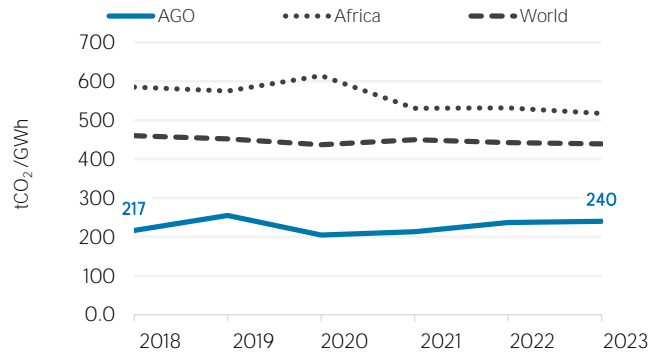
ENERGY AND EMISSIONS



Elec. & heat generation CO₂ emissions in



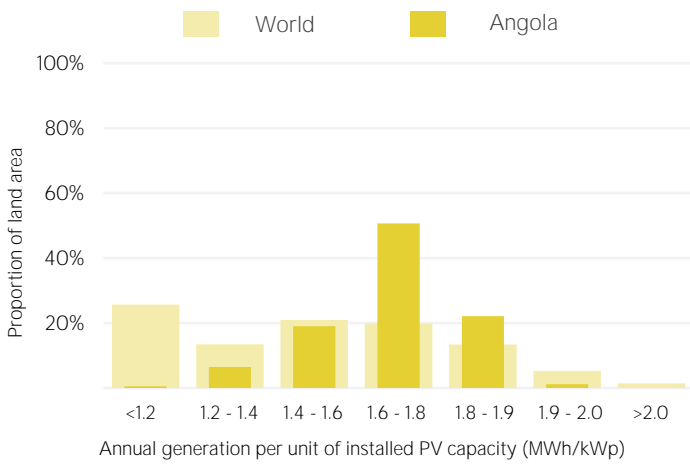
CO₂ emission factor for elec. & heat generation



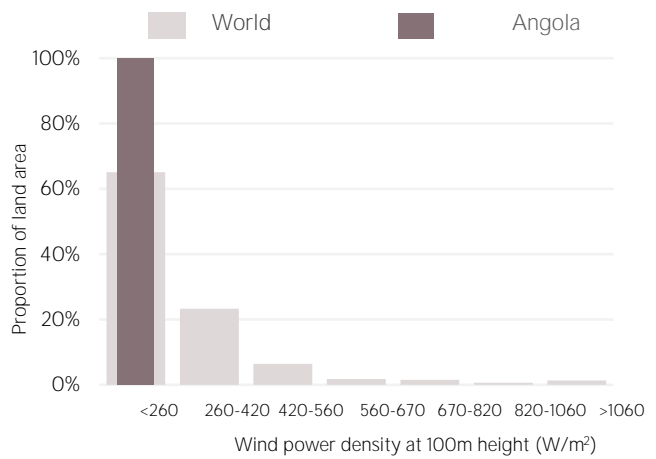
Avoided emissions based on fossil fuel mix used for power

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

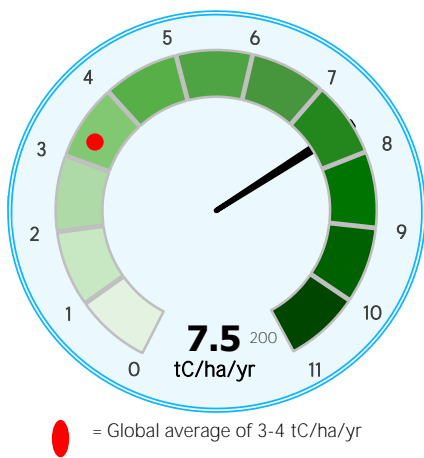
Distribution of solar potential



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

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 (HS). 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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