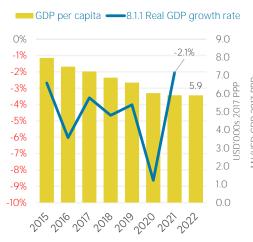
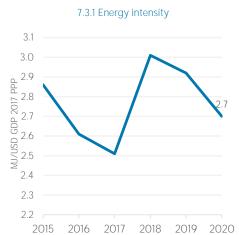
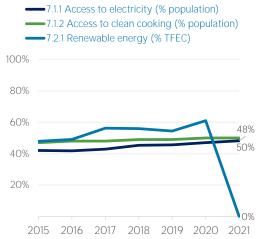
Angola



COUNTRY INDICATORS AND SDGS







7.a.1 Public flows to renewables

120

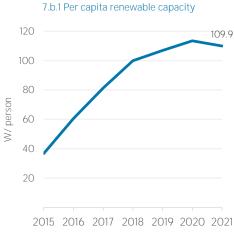
100

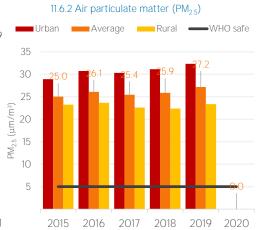
80

40

20

2015 2016 2017 2018 2019 2020





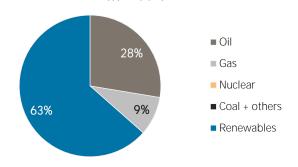
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	279 635	186 724
Renewable (TJ)	279 151	324 757
Total (TJ)	558 786	511 481
Renewable share (%)	50	63
	·	

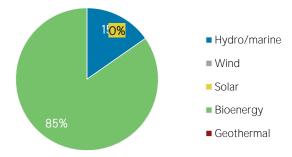
Growth in TES	2015-20	2019-20
Non-renewable (%)	-33.2	-22.8
Renewable (%)	+16.3	+1.1
Total (%)	-8.5	-9.2

2015	2020
201 220	69 659
3 667 669	2 822 808
3 466 449	2 753 149
36	14
91	87
722	637
	201 220 3 667 669 3 466 449 36 91

Total energy supply in 2020

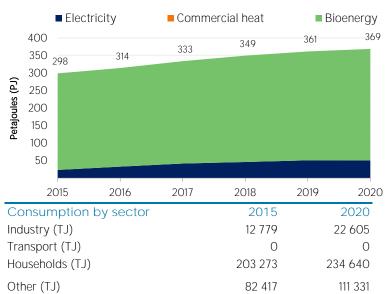


Renewable energy supply in 2020

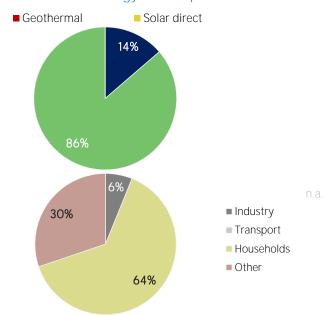


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

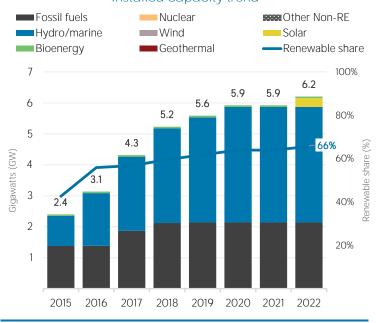


Renewable energy consumption in 2020

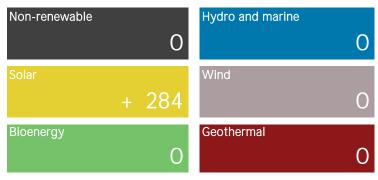


ELECTRICITY CAPACITY

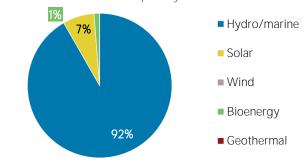
Installed capacity trend



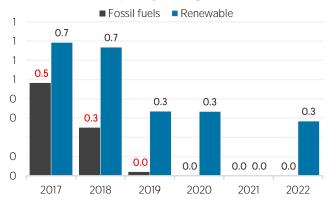
Net capacity change in 2022 (MW)



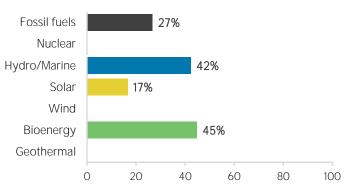
Renewable capacity in 2022



Net capacity change (GW)



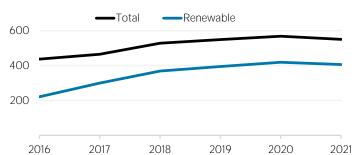
Capacity utilisation in 2021 (%)

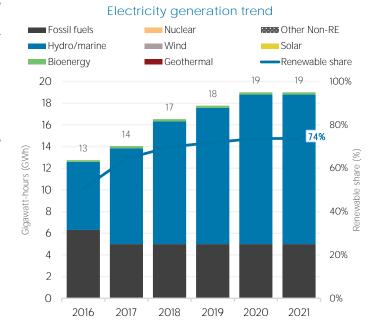


ELECTRICITY GENERATION

Generation in 2021	GWh	%
Non-renewable	4 996	26
Renewable	14 004	74
Hydro and marine	13 802	73
Solar	2	0
Wind	0	0
Bioenergy	200	1
Geothermal	0	0
Total	19 000	100





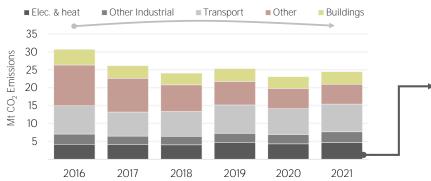


LATEST POLICIES, PROGRAMMES AND LEGISLATION

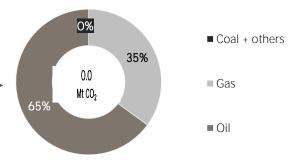
1 Presidential Decree No. 117/20 - General Regulation on Environmental Impact Assessment and the Environmental Licensing Procedure	2020
2 General Electricity Act 2014	2015
3 National Renewable Energy Strategy	2015
4 Sustainable Energy for All 2030	2015
5 Regional Policy for Universal Access to Modern Energy 2014 - 2030	2014

ENERGY AND EMISSIONS

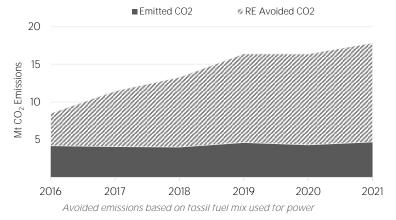
Energy-related CO₂ emissions by sector



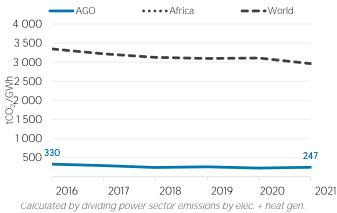
Elec. & heat generation CO₂ emissions in



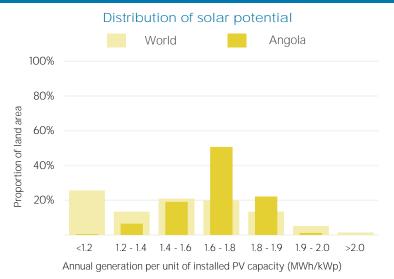
Avoided emissions from renewable elec. & heat



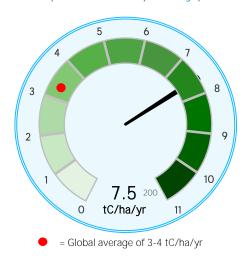
CO_2 emission factor for elec. & heat generation



RENEWABLE RESOURCE 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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