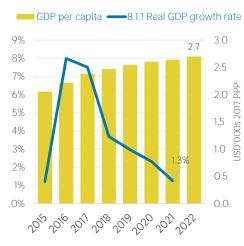
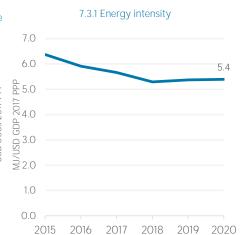
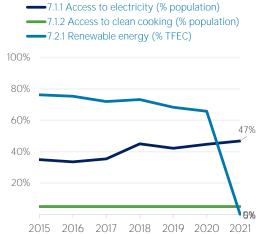
Guinea



COUNTRY INDICATORS AND SDGS







7.a.1 Public flows to renewables

1 200

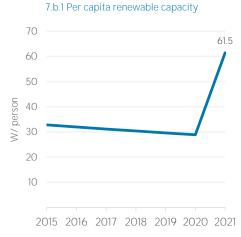
1 000

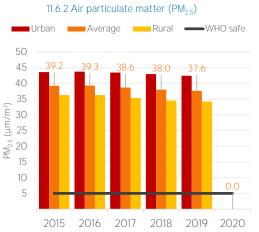
8 800

9 800

200

2015 2016 2017 2018 2019 2020





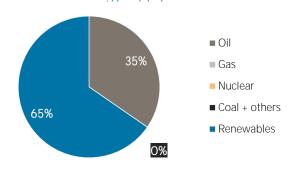
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	36 487	65 520
Renewable (TJ)	116 234	123 713
Total (TJ)	152 721	189 233
Renewable share (%)	76	65

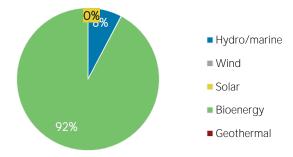
Growth in TES	2015-20	2019-20
Non-renewable (%)	+79.6	+1.9
Renewable (%)	+6.4	+3.8
Total (%)	+23.9	+3.1

2015	2020
37 603	64 782
3	0
- 37 600	- 64 782
25	34
0	0
76	65
	37 603 3 - 37 600 25 0

Total energy supply in 2020



Renewable energy supply in 2020

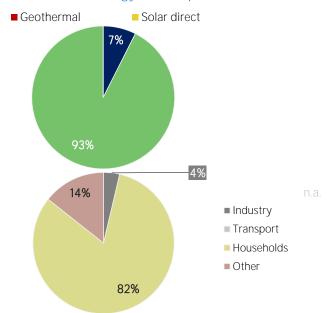


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

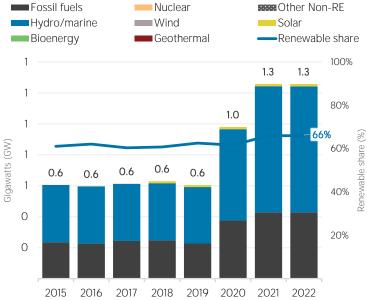
■ Electricity ■ Commercial heat ■ Bioenergy 129 140 121 122 119 120 100 Petajoules (PJ) 80 60 40 20 2017 2015 2016 2018 2019 2020 Consumption by sector 2020 2015 Industry (TJ) 2 422 4 743 Transport (TJ) 0 0 Households (TJ) 103 094 105 794 Other (TJ) 13 888 18 520

Renewable energy consumption in 2020



ELECTRICITY CAPACITY

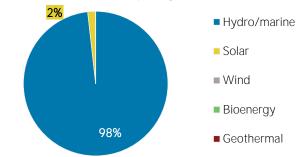
Installed capacity trend Nuclear



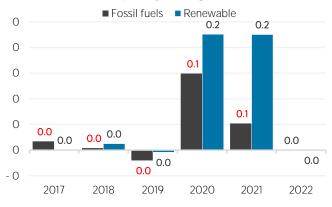
Net capacity change in 2022 (MW)



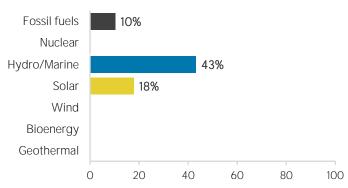
Renewable capacity in 2022



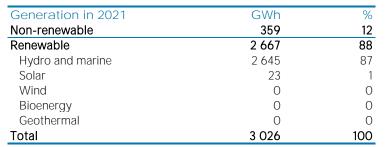
Net capacity change (GW)



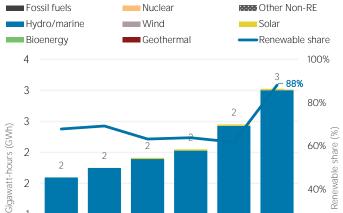
Capacity utilisation in 2021 (%)



ELECTRICITY GENERATION







2019

2018

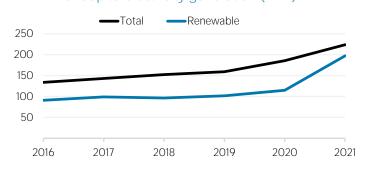
2020

20%

0%

2021

Per capita electricity generation (kWh)

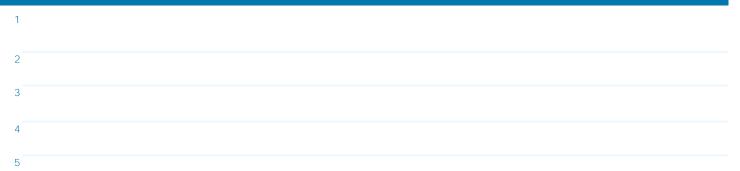


LATEST POLICIES, PROGRAMMES AND LEGISLATION

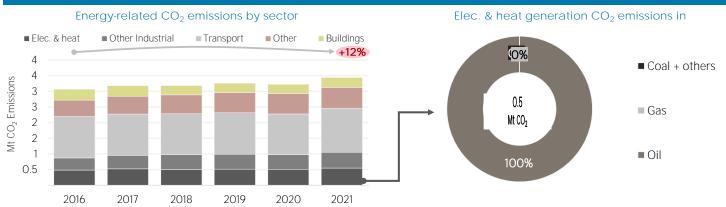
0

2016

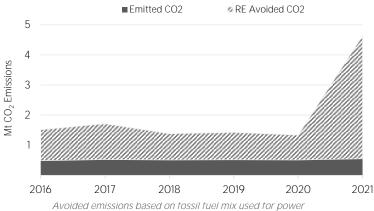
2017



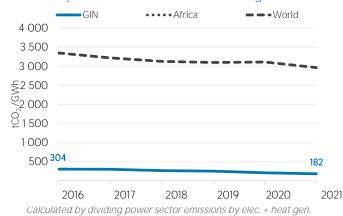
ENERGY AND EMISSIONS



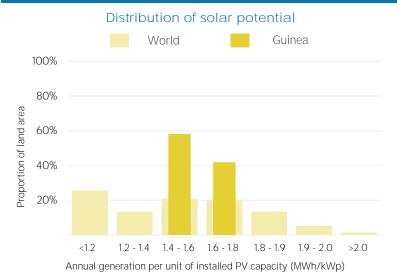
Avoided emissions from renewable elec. & heat



CO₂ emission factor for elec. & heat generation



RENEWABLE RESOURCE POTENTIAL

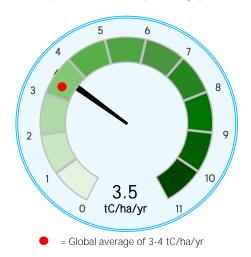


Distribution of wind potential World Guinea 100% 80% 40% 20%

260-420 420-560 560-670 670-820 820-1060 >1060

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

Biomass potential: net primary production



Indicators of renewable resource potential

< 260

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@lrena.org.

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