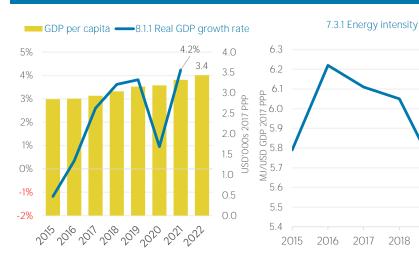
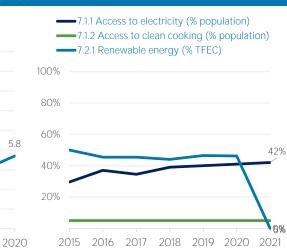
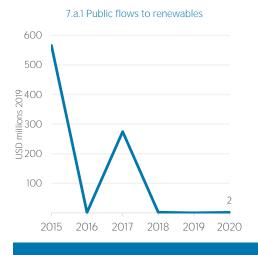
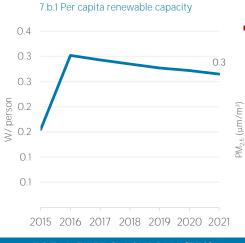
Benin

COUNTRY INDICATORS AND SDGS





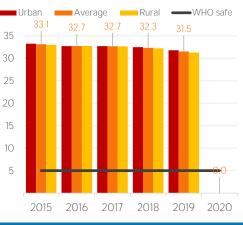




2018

2019

11.6.2 Air particulate matter (PM_{25})

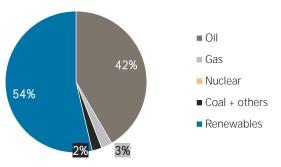


TOTAL ENERGY SUPPLY (TES)

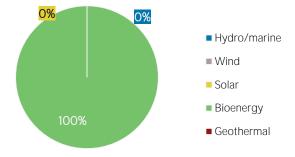
Total Energy Supply (TES) 2015 2020 Non-renewable (TJ) 75 849 107 250 Renewable (TJ) 103 787 124 249 Total (TJ) 179 636 231 498 Renewable share (%) 58 54 Growth in TES 2015-20 2019-20 Non-renewable (%) +8.1 +41.4Renewable (%) +19.7 +3.0Total (%) +28.9 +5.3

Primary energy trade	2015	2020
Imports (TJ)	79 091	107 696
Exports (TJ)	0	7
Net trade (TJ)	- 79 091	- 107 689
Imports (% of supply)	44	47
Exports (% of production)	0	0
Energy self-sufficiency (%)	58	54





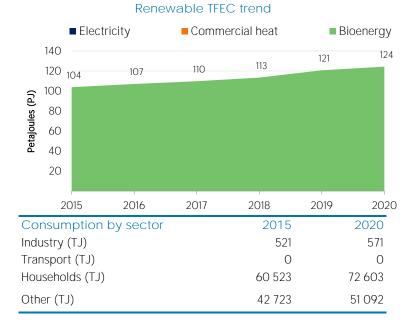
Renewable energy supply in 2020

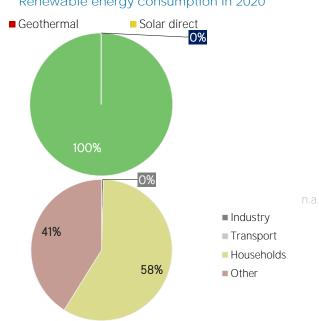




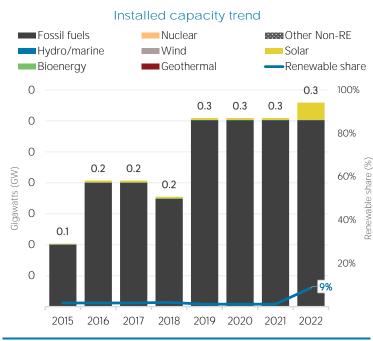
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable energy consumption in 2020

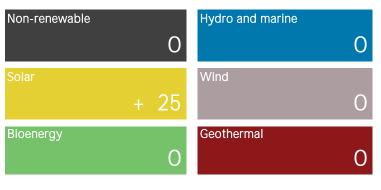


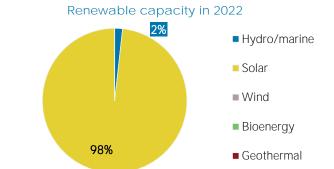


ELECTRICITY CAPACITY

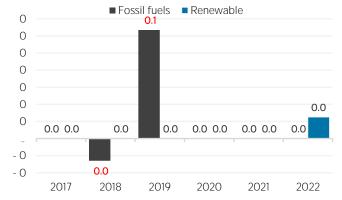


Net capacity change in 2022 (MW)

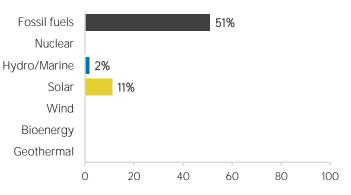




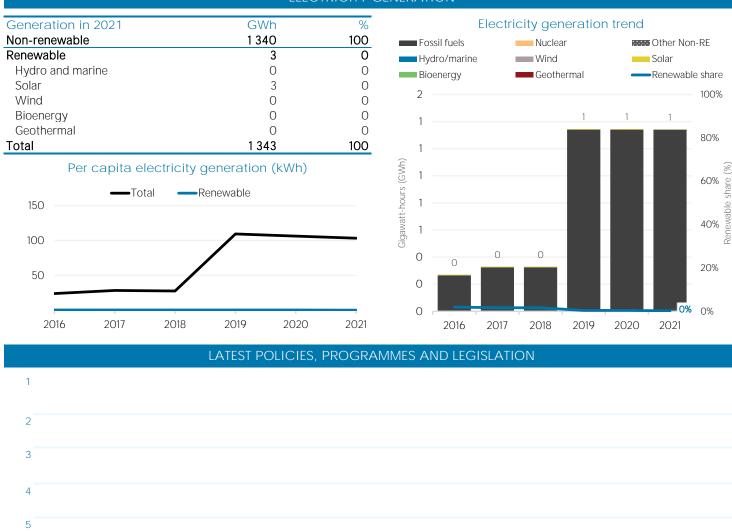
Net capacity change (GW)

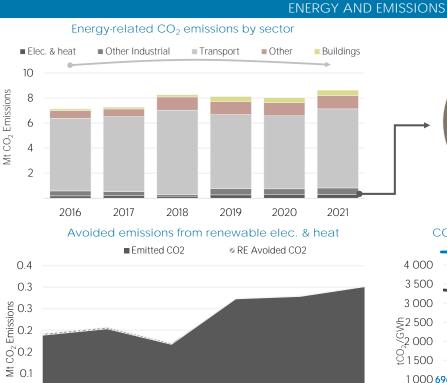


Capacity utilisation in 2021 (%)









BEN ••••Africa 4 000 3 500 3 0 0 0 **≦**2 500 <u>9</u>2 000 <u>د (</u> ² 1 500 1000696 500

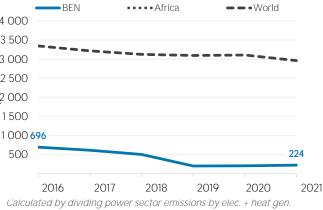
2021

41%

0% Coal + others 0.0 Gas Mt CO₂ 59% Oil

CO2 emission factor for elec. & heat generation

Elec. & heat generation CO2 emissions in

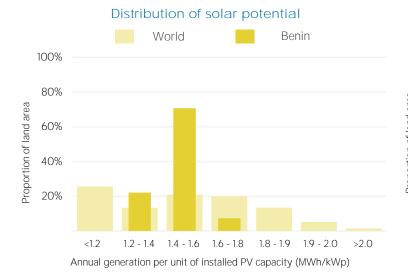


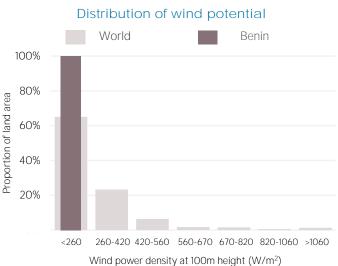
2017 2018 2019 2020 Avoided emissions based on tossil tuel mix used for power

0.1

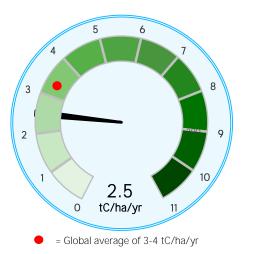
2016

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 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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