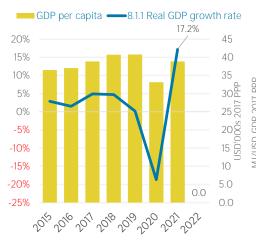
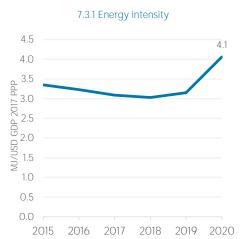
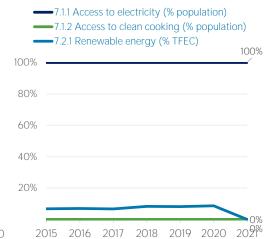
Aruba



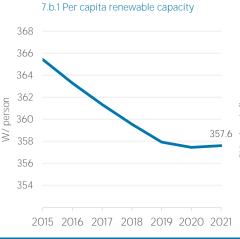
COUNTRY INDICATORS AND SDGS

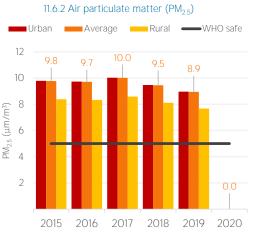






7.a.1 Public flows to renewables 1.0 0.9 0.8 0.7 USD millions 2019 0.6 0.5 0.4 0.3 0.2 0.1 0 2015 2016 2017 2018 2019 2020





TOTAL ENERGY SUPPLY (TES)

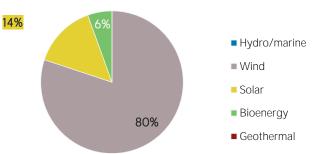
Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	12 223	12 136
Renewable (TJ)	549	598
Total (TJ)	12 772	12 734
Renewable share (%)	4	5

Growth in TES	2015-20	2019-20
Non-renewable (%)	-0.7	-2.5
Renewable (%)	+9.0	+1.9
Total (%)	-0.3	-2.3

2015	2020
16 415	16 080
0	0
- 16 415	- 16 080
129	126
0	0
4	5
	16 415 0 - 16 415

Total energy supply in 2020 5% Oil Gas Nuclear Coal + others Renewables

Renewable energy supply in 2020

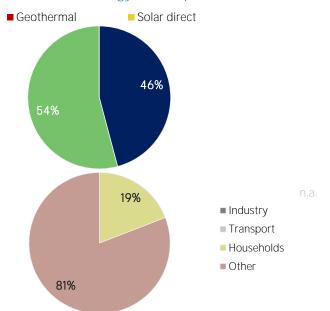


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

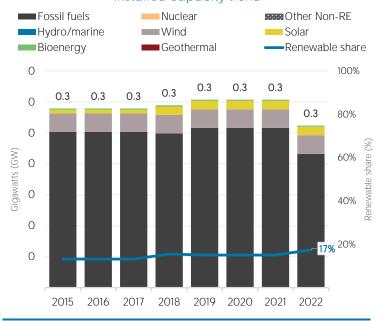
■ Electricity ■ Commercial heat ■ Bioenergy Petajoules (PJ) 1 1 0 0 2015 2016 2017 2018 2019 2020 Consumption by sector 2020 2015 Industry (TJ) 0 0 Transport (TJ) 0 0 Households (TJ) 222 236 996 Other (TJ) 841

Renewable energy consumption in 2020



ELECTRICITY CAPACITY

Installed capacity trend





Renewable capacity in 2022

30%

■ Hydro/marine

Solar

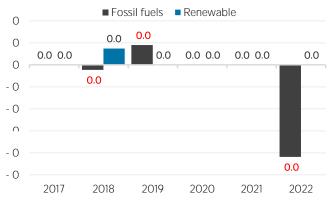
■ Wind

Bioenergy

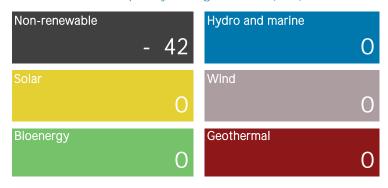
■ Geothermal

4%

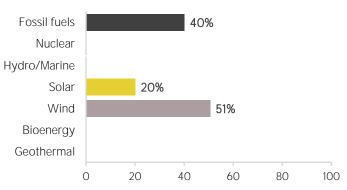
66%



Net capacity change in 2022 (MW)



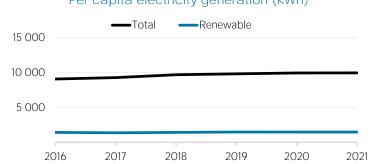
Capacity utilisation in 2021 (%)

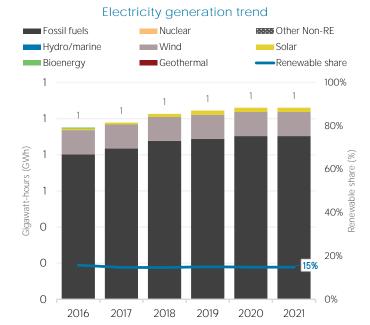


ELECTRICITY GENERATION

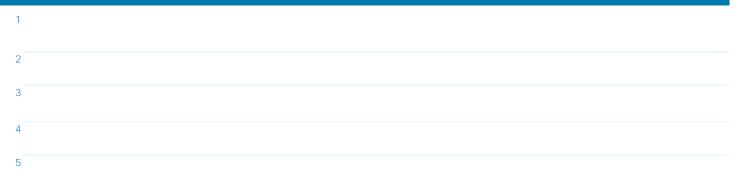
Generation in 2021	GWh	%
Non-renewable	904	85
Renewable	157	15
Hydro and marine	0	0
Solar	24	2
Wind	133	13
Bioenergy	0	0
Geothermal	0	0
Total	1 061	100



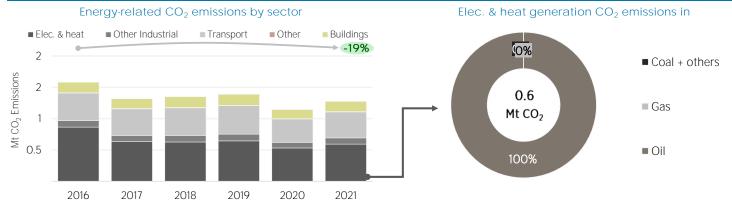




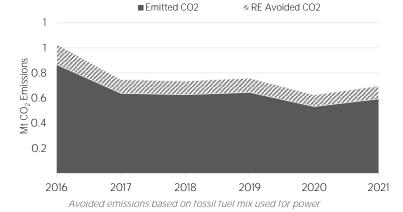
LATEST POLICIES, PROGRAMMES AND LEGISLATION



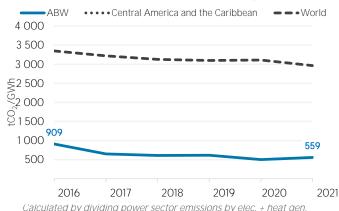
ENERGY AND EMISSIONS



Avoided emissions from renewable elec. & heat

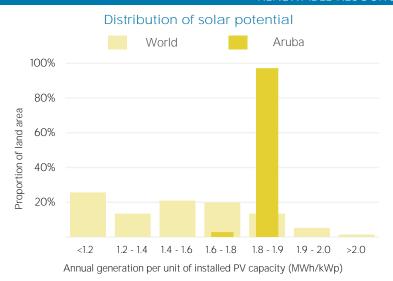


CO₂ emission factor for elec. & heat generation

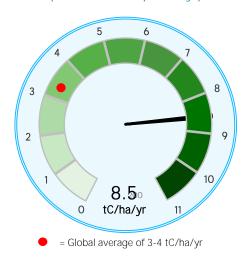


Calculated by dividing power sector emissions by elec. + heat gen.

RENEWABLE RESOURCE POTENTIAL



Biomass potential: net primary production



Indicators of renewable resource potential

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

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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