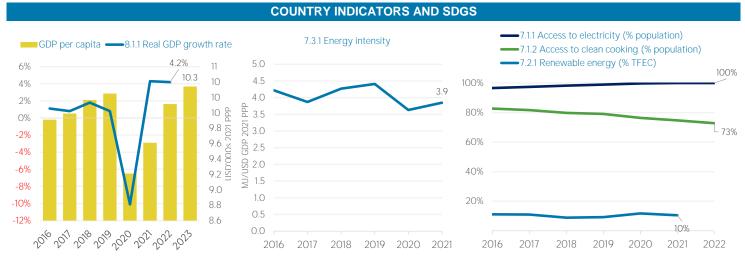
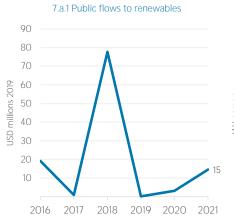
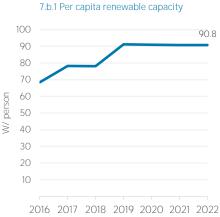
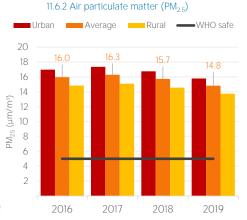
Jamaica











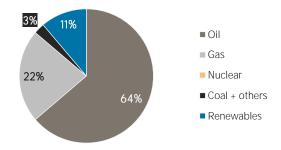
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2016	2021
Non-renewable (TJ)	109 091	103 242
Renewable (TJ)	11 022	12 979
Total (TJ)	120 113	116 221
Renewable share (%)	9	11

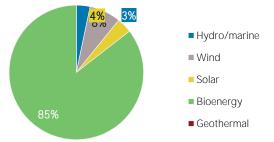
Growth in TES	2016-21	2020-21
Non-renewable (%)	-5.4	+14.2
Renewable (%)	+17.8	+5.1
Total (%)	-3.2	+13.1

Primary energy trade	2016	2021
Imports (TJ)	129 665	133 351
Exports (TJ)	10 649	20 317
Net trade (TJ)	- 119 016	- 113 034
Imports (% of supply)	108	115
Exports (% of production)	111	175
Energy self-sufficiency (%)	8	10

Total energy supply in 2021



Renewable energy supply in 2021



RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend ■ Electricity ■ Commercial heat ■ Bioenergy 16 14 12 12 12 Petajoules (PJ) 10 8 6 4 2 2016 2017 2018 2019 2020 2021 Consumption by sector 2016 2021 Industry (TJ) 1037 1 461

1394

4 248

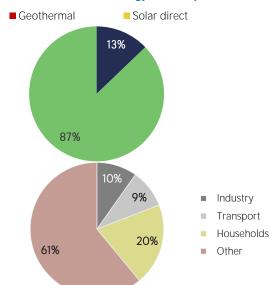
5 655

Transport (TJ)

Other (TJ)

Households (TJ)

Renewable energy consumption in 2021



ELECTRICITY CAPACITY

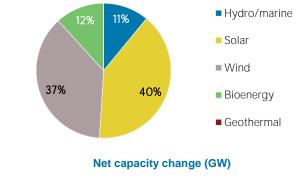
1394

2 971

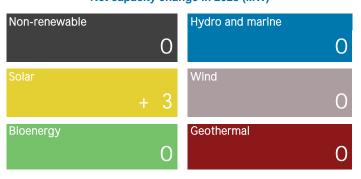
9 114

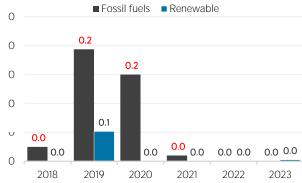
Installed capacity trend Fossil fuels Nuclear Other Non-RE ■Hydro/marine Wind Wind Solar Bioenergy ■ Geothermal -Renewable share 2 100% 1.7 1.7 1.7 1.7 2 1.5 80% 1.3 1.2 1.2 Gigawatts (GW) 60% 1 40% 16% ^{20%} 0 0 2017 2018 2019 2020 2021 2022 2023 2016

Renewable capacity in 2023

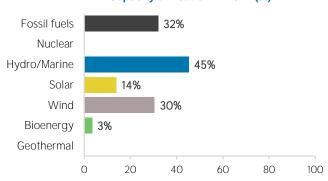


Net capacity change in 2023 (MW)





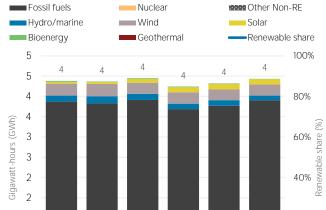
Capacity utilisation in 2022 (%)



ELECTRICITY GENERATION

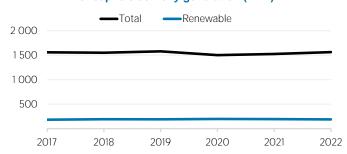
Generation in 2022	GWh	%
Non-renewable	3 902	88
Renewable	533	12
Hydro and marine	119	3
Solar	132	3
Wind	272	6
Bioenergy	10	0
Geothermal	0	0
Total	4 435	100





20%

Per capita electricity generation (kWh)



LATEST POLICIES, PROGRAMMES AND LEGISLATION

0

2017

2018

2019

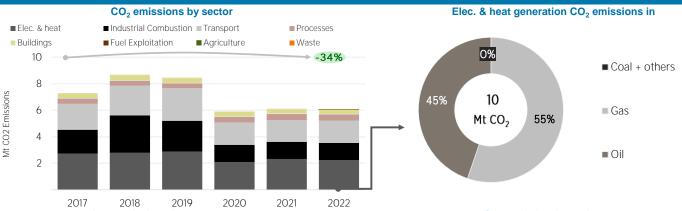
2020

2021

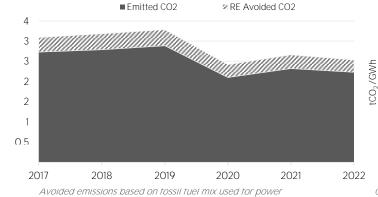
2022

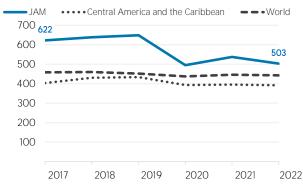
1 Integrated Resource Plan (IRP)	2020
2 Energy Efficiency and Conservation Standards Guide for the Public Sector	2018
3 National Waste-to-Energy Policy (Draft)	2015
4 National Biofuels Policy (Draft)	2010
5 National Energy Policy (2009-2030)	2010

ENERGY AND EMISSIONS



Avoided emissions from renewable elec. & heat CO₂ emission factor for elec. & heat generation



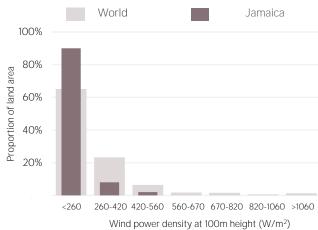


Calculated by dividing power sector emissions by elec. + heat gen.

RENEWABLE RESOURCE POTENTIAL

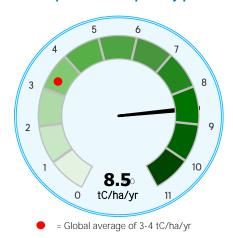
Distribution of solar potential World Jamaica 100% 80% Proportion of land area 60% 40% 20% <12 12 - 14 1.4 - 1.6 1.6 - 1.8 18 - 19 19 - 20 >20

Distribution of wind potential



Biomass potential: net primary production

Annual generation per unit of installed PV capacity (MWh/kWp)



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 (H5). 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 statistlcs@irena.org.

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