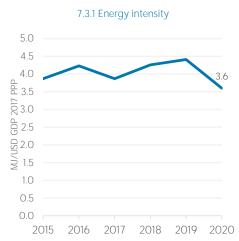
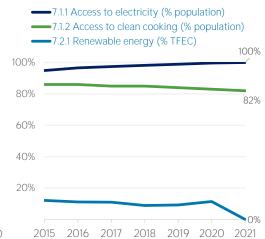
Jamaica



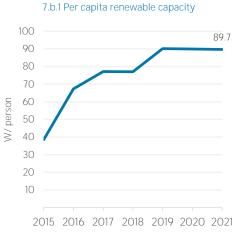
COUNTRY INDICATORS AND SDGS

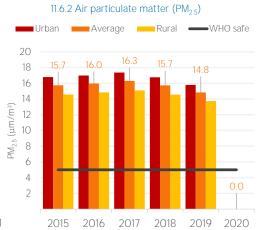






7.a.1 Public flows to renewables USD millions 2019





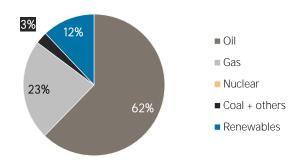
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	106 225	90 376
Renewable (TJ)	11 178	12 349
Total (TJ)	117 403	102 725
Renewable share (%)	10	12
<u> </u>		

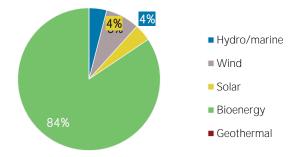
Growth in TES	2015-20	2019-20
Non-renewable (%)	-14.9	-14.2
Renewable (%)	+10.5	+21.0
Total (%)	-12.5	-11.1

Primary energy trade	2015	2020
Imports (TJ)	128 671	121 310
Exports (TJ)	10 693	23 744
Net trade (TJ)	- 117 978	- 97 566
Imports (% of supply)	110	118
Exports (% of production)	108	217
Energy self-sufficiency (%)	8	11

Total energy supply in 2020



Renewable energy supply in 2020

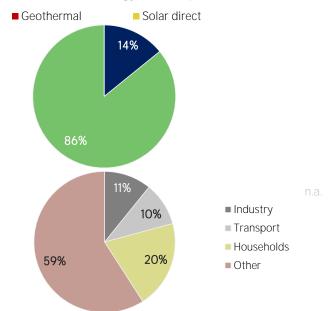


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

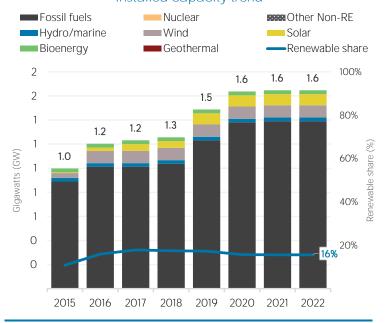
■ Electricity ■ Commercial heat ■ Bioenergy 16 14 14 12 12 12 12 10 8 6 4 2 2015 2016 2017 2018 2019 2020 2020 Consumption by sector 2015 Industry (TJ) 1 682 1 518 Transport (TJ) 1 286 1394 Households (TJ) 4 058 2 819 Other (TJ) 5 148 8 279

Renewable energy consumption in 2020

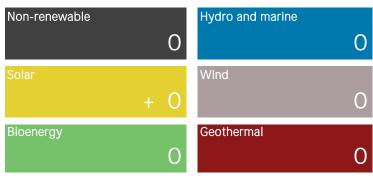


ELECTRICITY CAPACITY

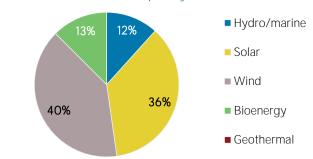
Installed capacity trend



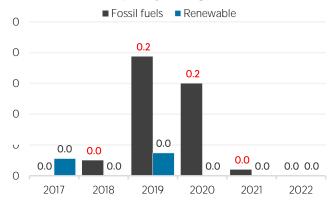
Net capacity change in 2022 (MW)



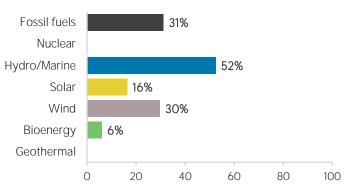
Renewable capacity in 2022



Net capacity change (GW)



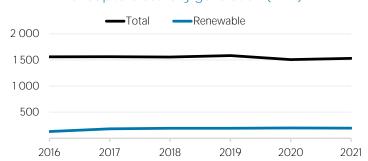
Capacity utilisation in 2021 (%)

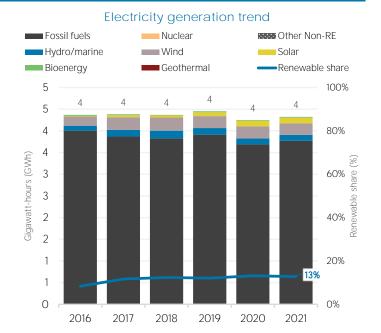


ELECTRICITY GENERATION

Generation in 2021	GWh	%
Non-renewable	3 770	87
Renewable	551	13
Hydro and marine	138	3
Solar	132	3
Wind	265	6
Bioenergy	17	0
Geothermal	0	0
Total	4 321	100







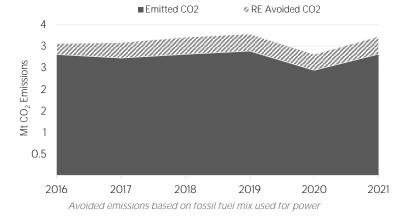
LATEST POLICIES, PROGRAMMES AND LEGISLATION

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
	2010
4 National Biofuels Policy (Draft)	2010
5 National Energy Policy (2009-2030)	2010

ENERGY AND EMISSIONS

Elec. & heat generation CO₂ emissions in Energy-related CO₂ emissions by sector Buildings ■ Elec. & heat ■ Other Industrial ■ Transport ■ Other 0% +6% 10 Mt CO₂ Emissions 8 3 48% 6 52% Mt CO₂ 4 2 2016 2017 2018 2019 2020 2021



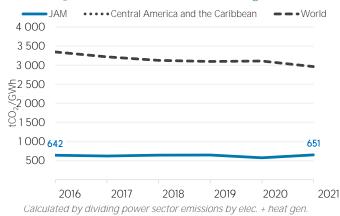


CO₂ emission factor for elec. & heat generation

■ Coal + others

■ Gas

■ Oil



RENEWABLE RESOURCE POTENTIAL

100%

80%

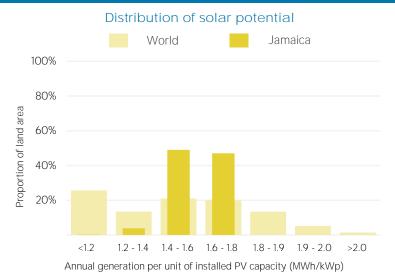
60%

40%

20%

<260

Proportion of land area

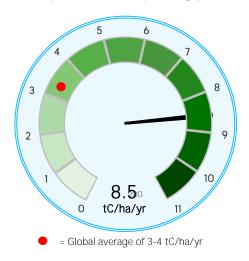


World Jamaica

Distribution of wind potential

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

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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