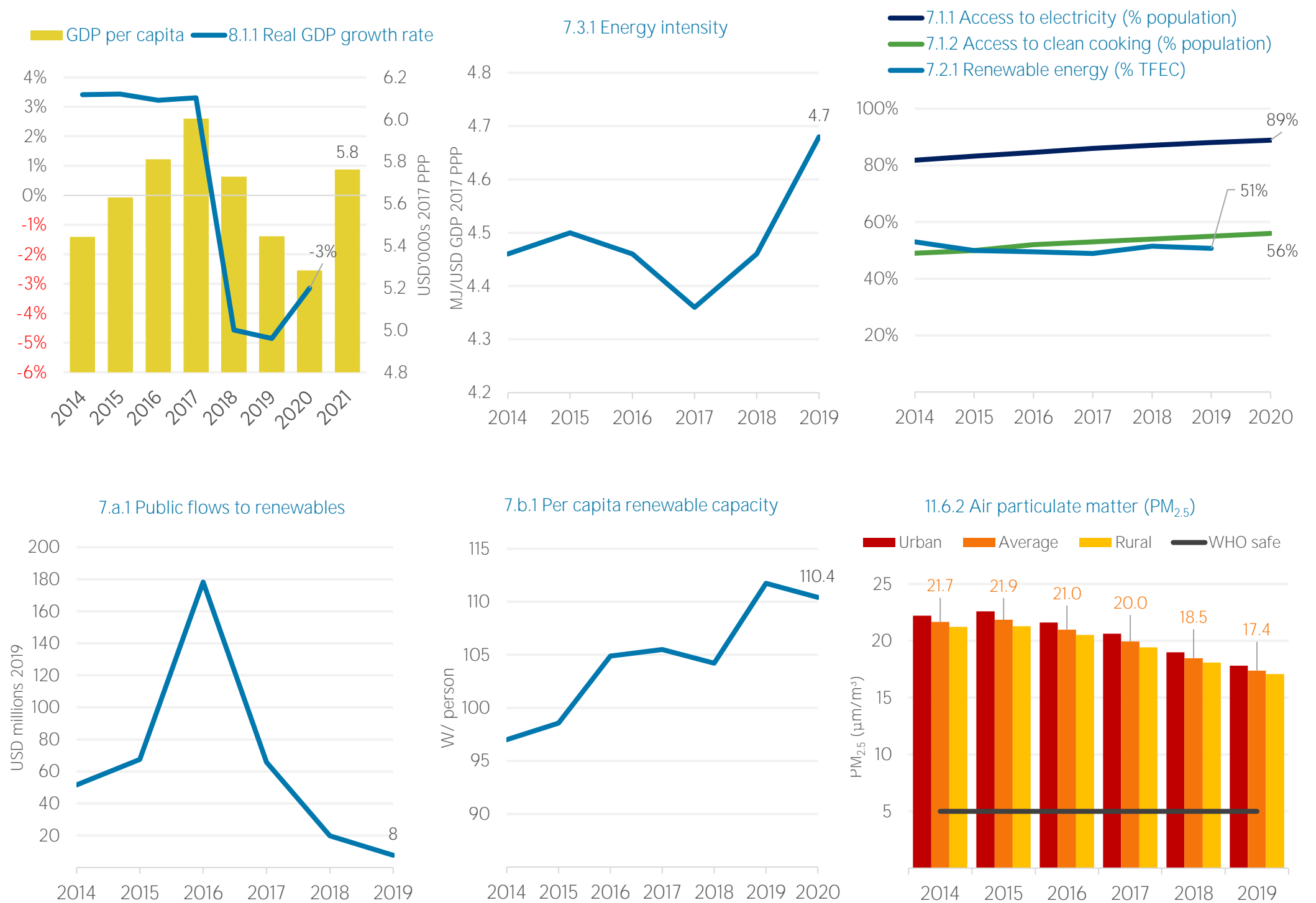


COUNTRY INDICATORS AND SDGS



TOTAL ENERGY SUPPLY (TES)

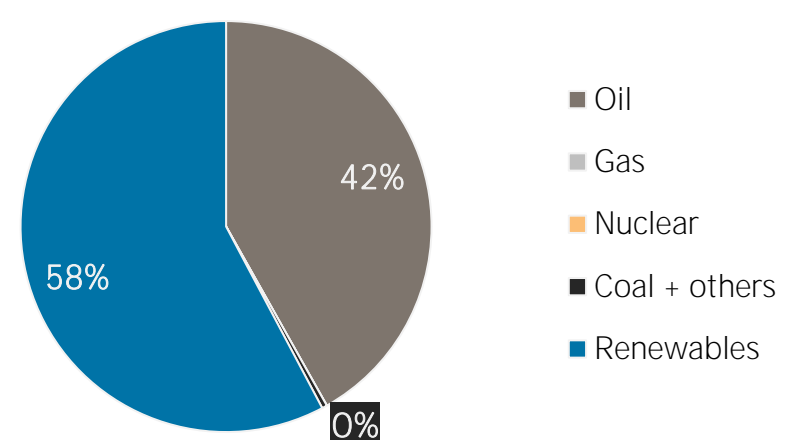
Total Energy Supply (TES)	2014	2019
Non-renewable (TJ)	62 931	70 972
Renewable (TJ)	89 454	97 029
Total (TJ)	152 385	168 002
Renewable share (%)	59	58

Growth in TES	2014-19	2018-19
Non-renewable (%)	+12.8	+1.2
Renewable (%)	+8.5	+1.5
Total (%)	+10.2	+1.4

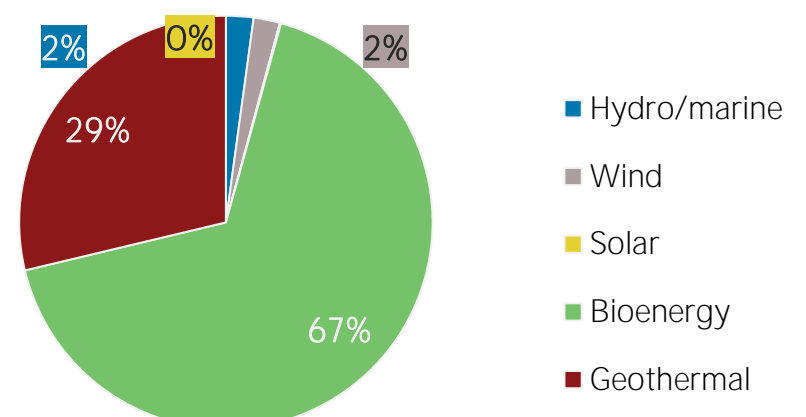
Primary energy trade	2014	2019
Imports (TJ)	61 526	76 662
Exports (TJ)	2 108	1 611
Net trade (TJ)	- 59 418	- 75 051

Imports (% of supply)	40	46
Exports (% of production)	2	2
Energy self-sufficiency (%)	59	57

Total energy supply in 2019

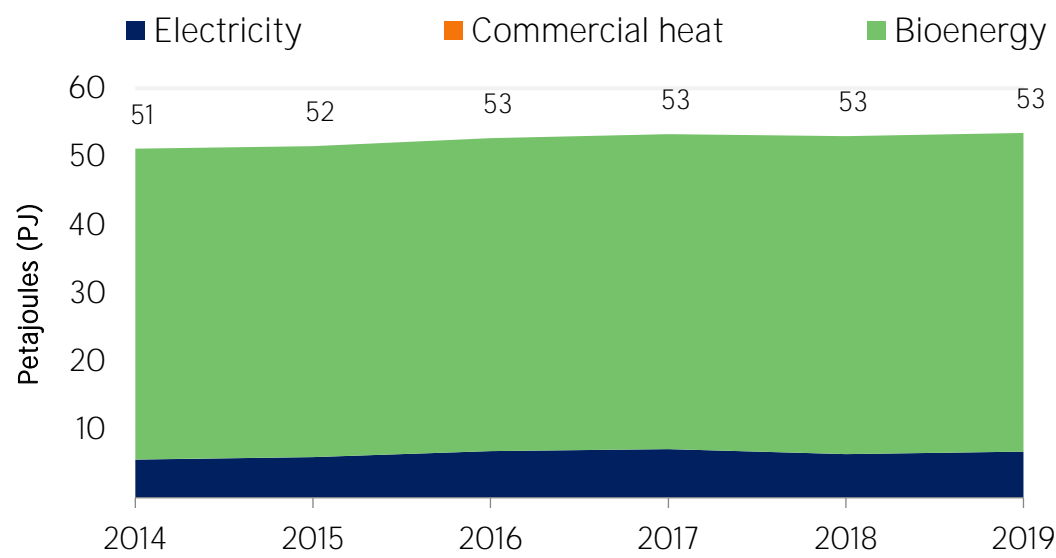


Renewable energy supply in 2019



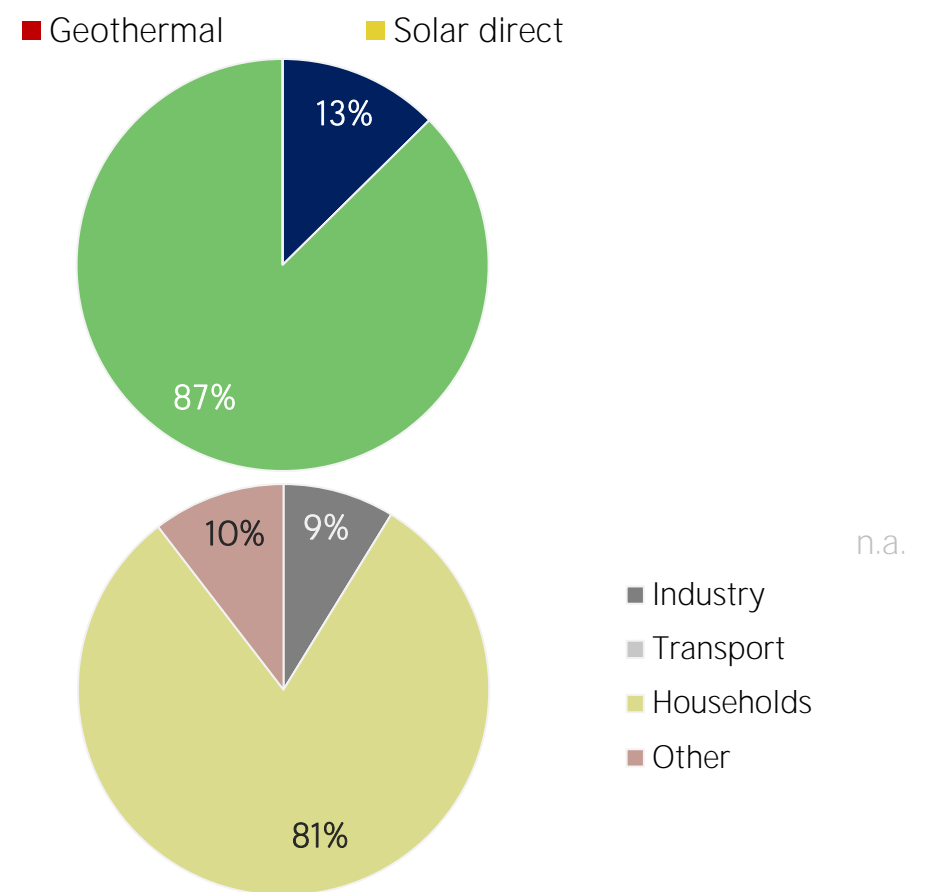
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend



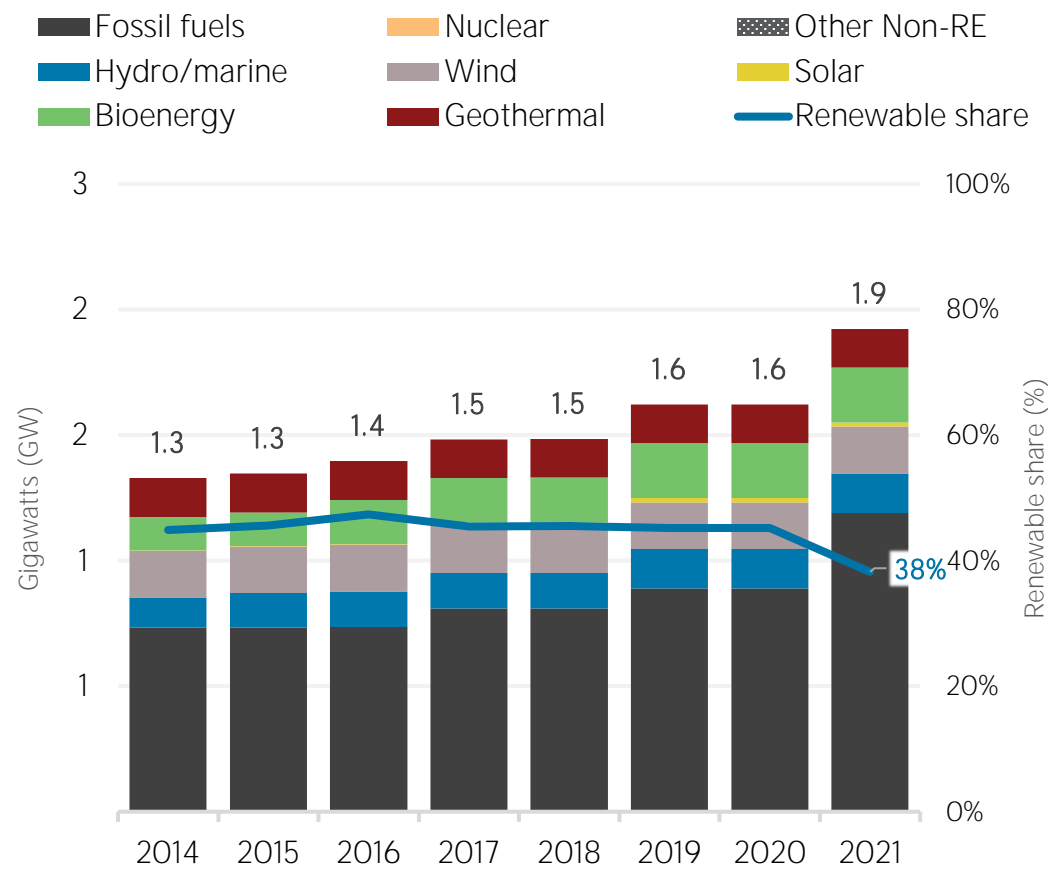
Consumption by sector	2014	2019
Industry (TJ)	5 039	4 691
Transport (TJ)	0	0
Households (TJ)	41 453	43 180
Other (TJ)	4 629	5 580

Renewable energy consumption in 2019

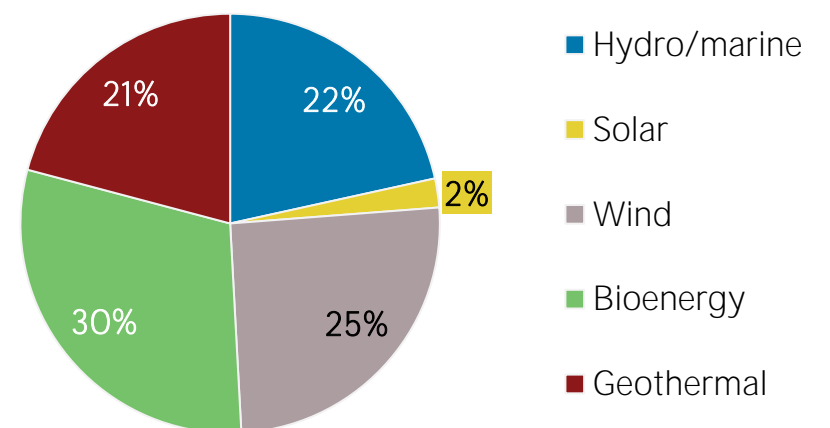


ELECTRICITY CAPACITY

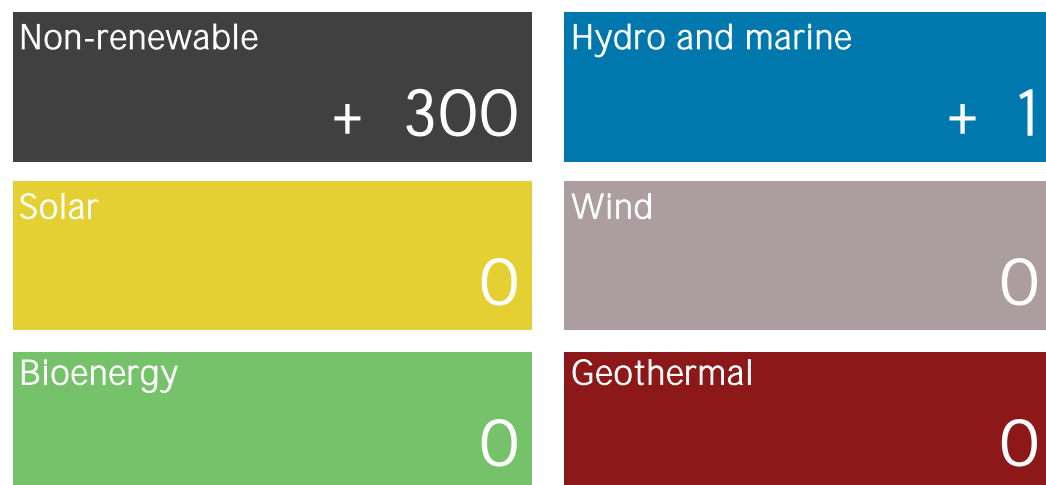
Installed capacity trend



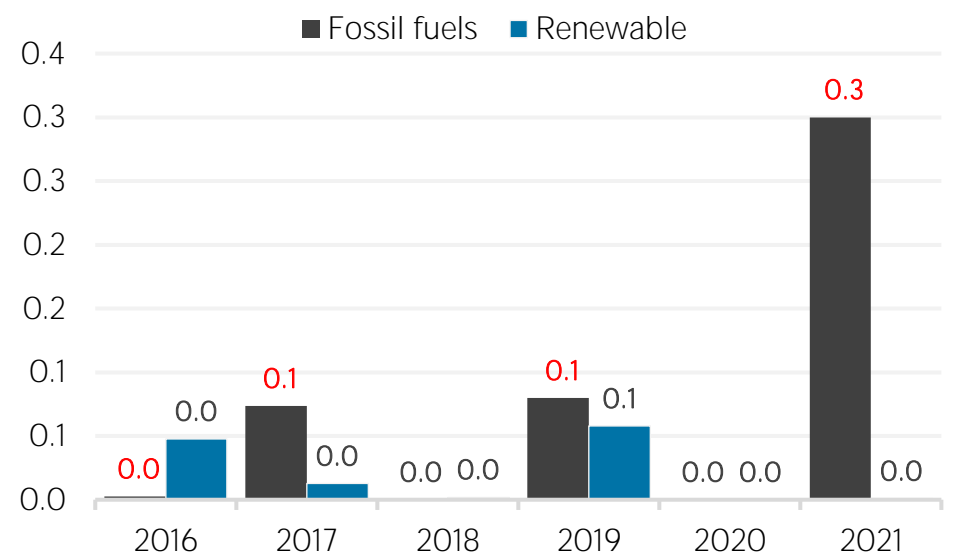
Renewable capacity in 2021



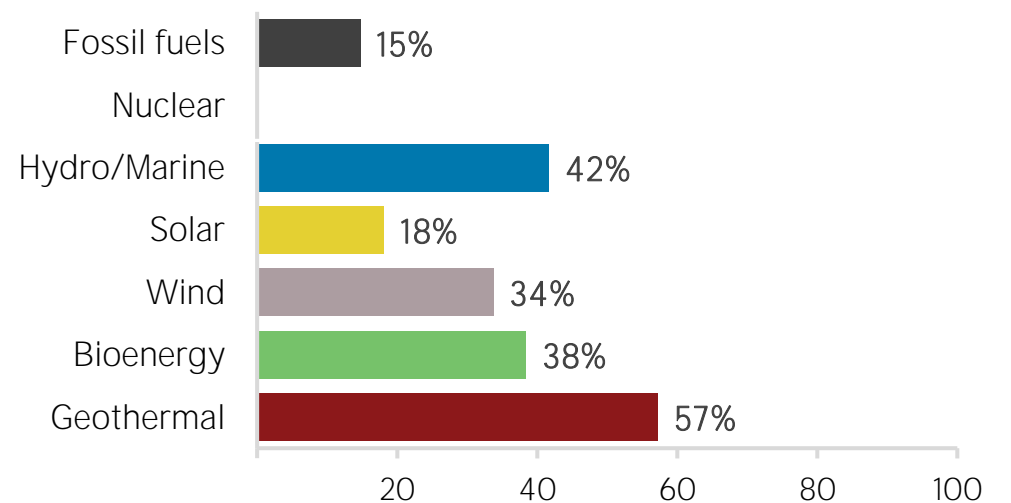
Net capacity change in 2021 (MW)



Net capacity change (GW)

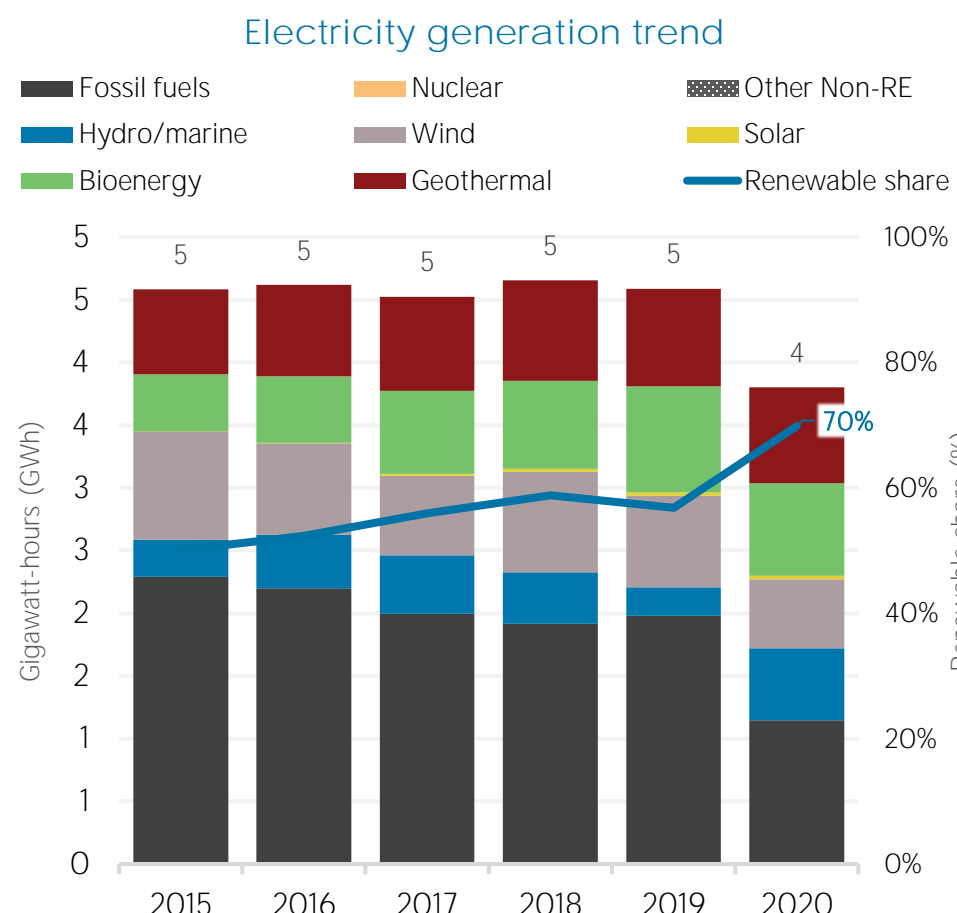
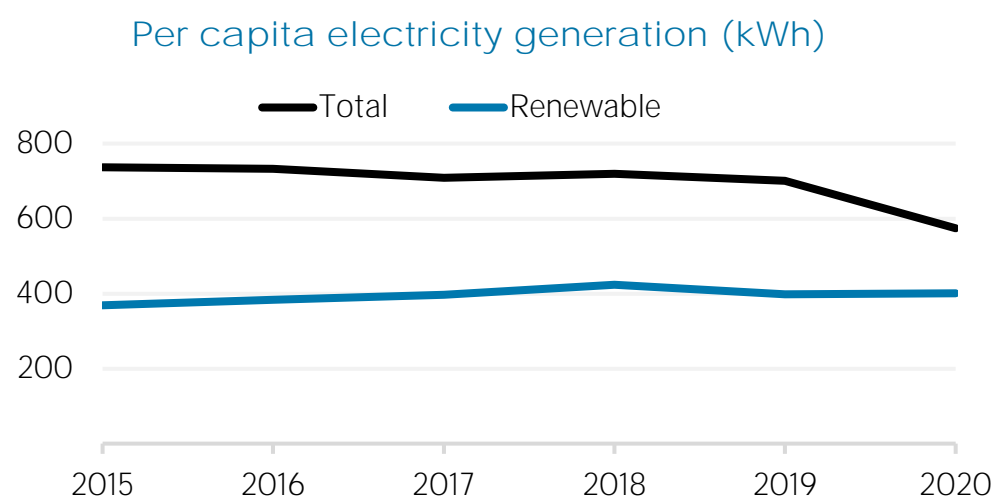


Capacity utilisation in 2020 (%)



ELECTRICITY GENERATION

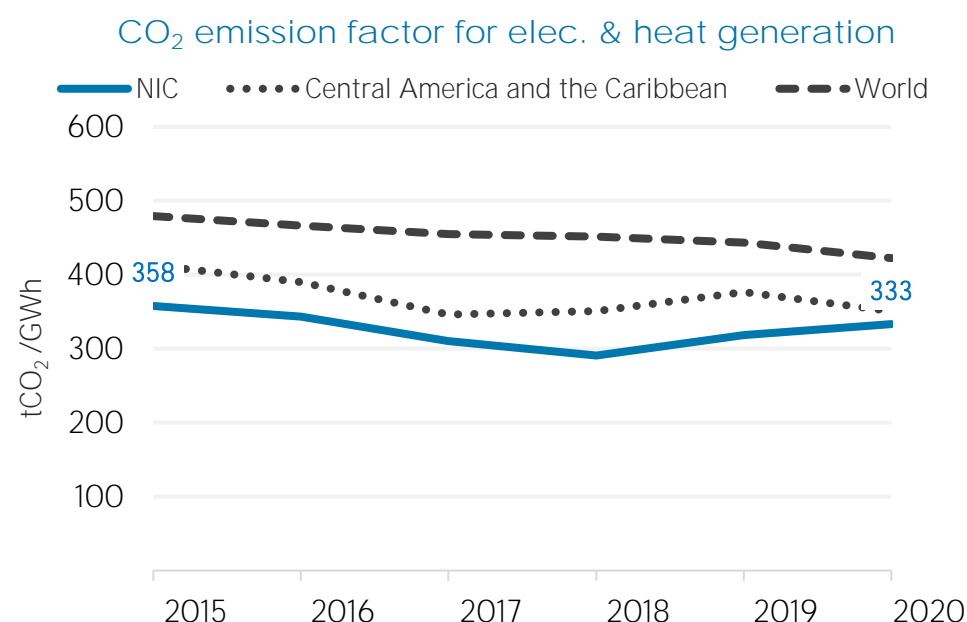
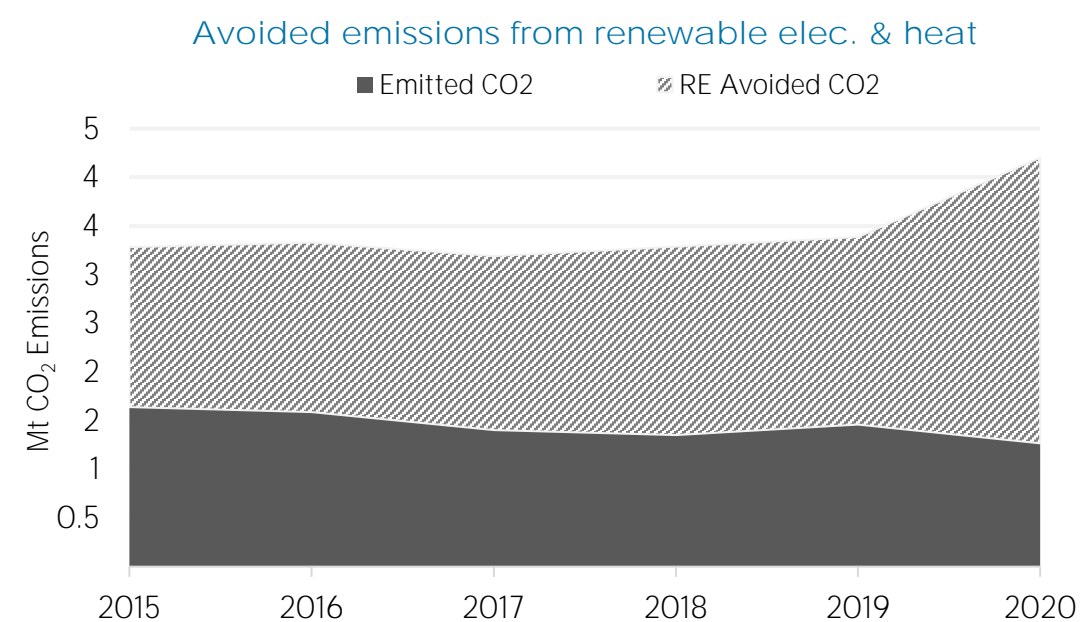
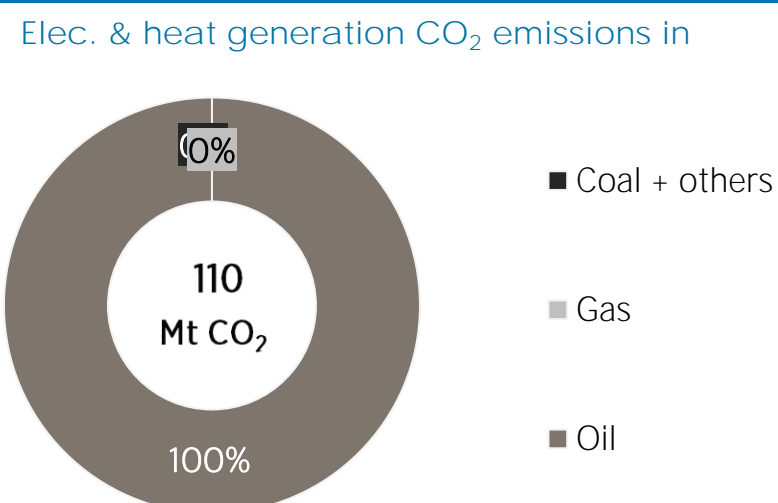
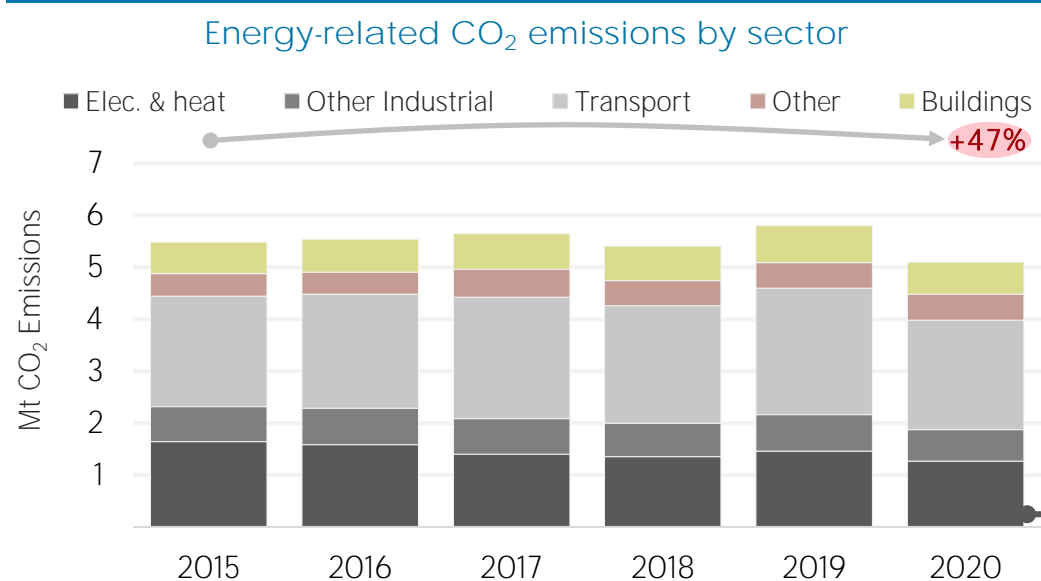
Generation in 2020	GWh	%
Non-renewable	1 147	30
Renewable	2 657	70
Hydro and marine	574	15
Solar	26	1
Wind	550	14
Bioenergy	739	19
Geothermal	767	20
Total	3 804	100



LATEST POLICIES, PROGRAMMES AND LEGISLATION

- 1 National Partnership with Global Alliance for Clean Cookstoves 2014
- 2 Electricity Generation Expansion Plan (2013-2027) 2013
- 3 Fuelwood and Charcoal National Strategy (2011-2021) 2012
- 4 NTON 10 017- 09: Mandatory energy efficiency standards for window, split and packaged air conditioners - labelling ranges 2012
- 5 NTON 10 018-09: Mandatory Technical Standard for energy efficiency - Air Conditioners with cooling capacity up to 10548 W (36,000 BTU/H) - Labelling 2012

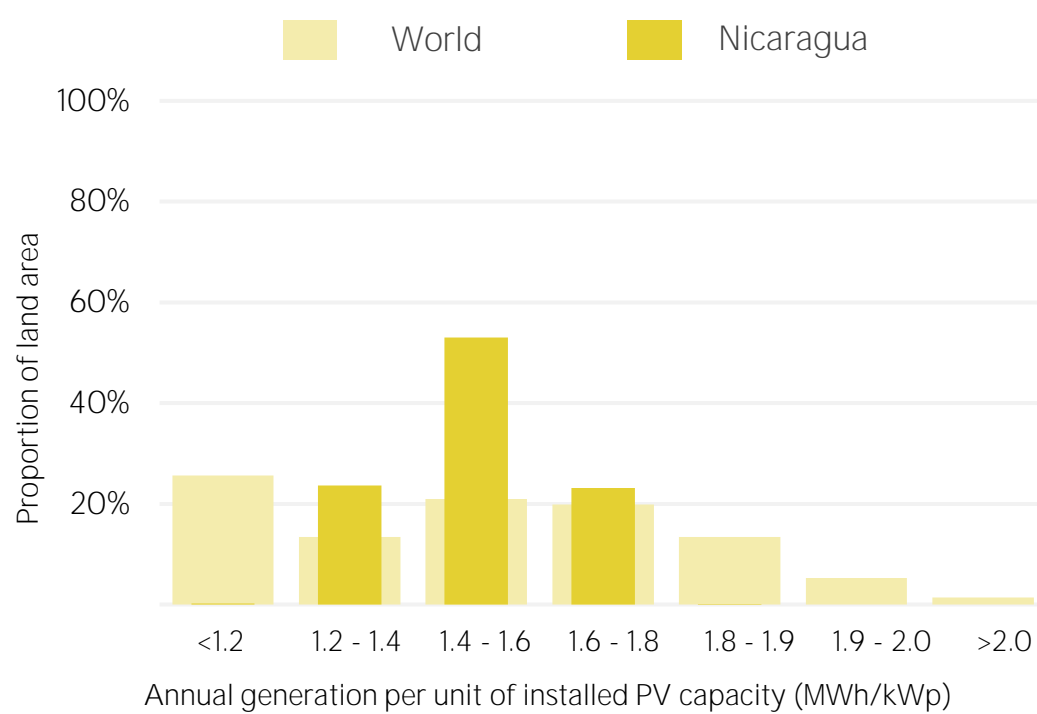
ENERGY AND EMISSIONS



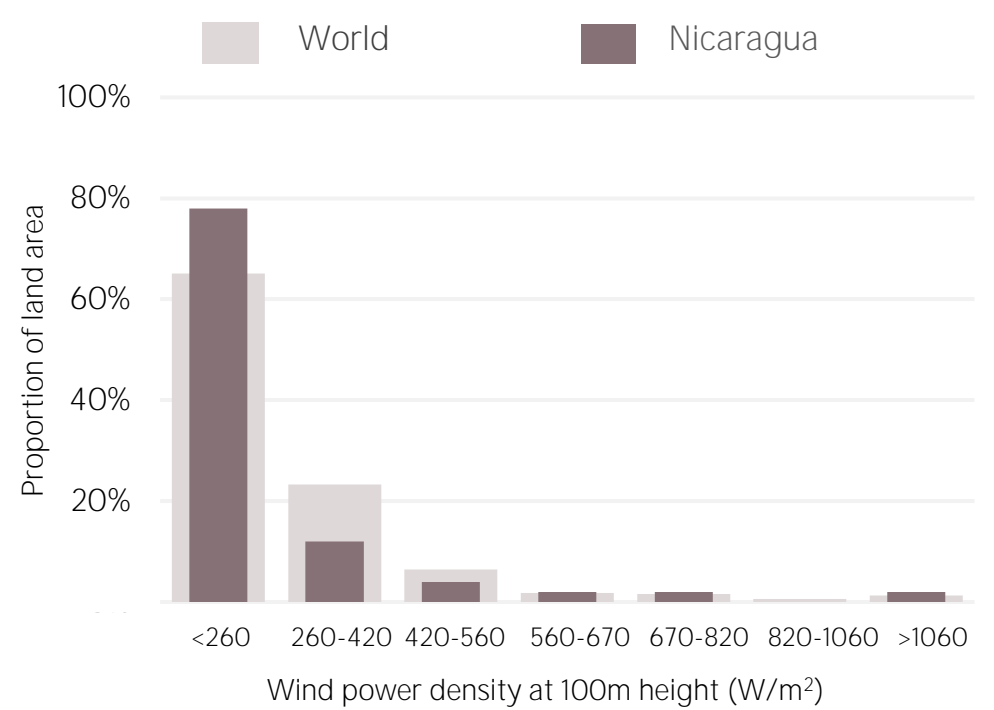
Avoided emissions based on fossil fuel mix used for power

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

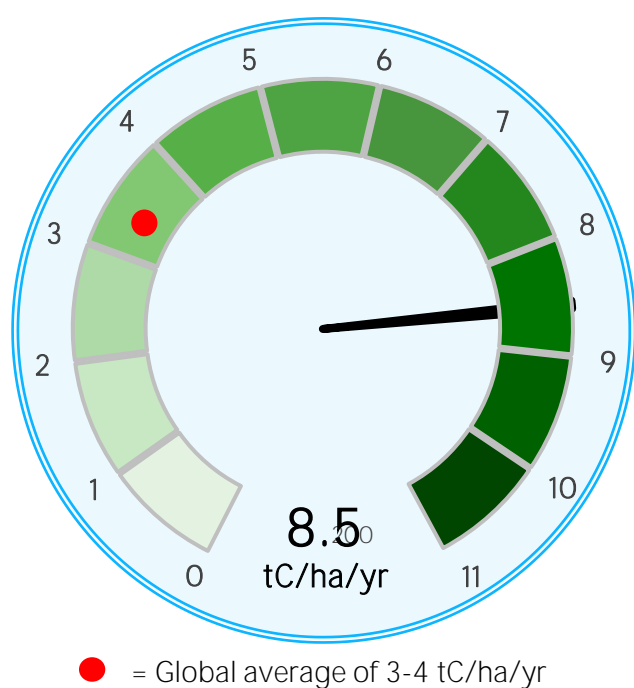
Distribution of solar potential



Distribution of wind 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 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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