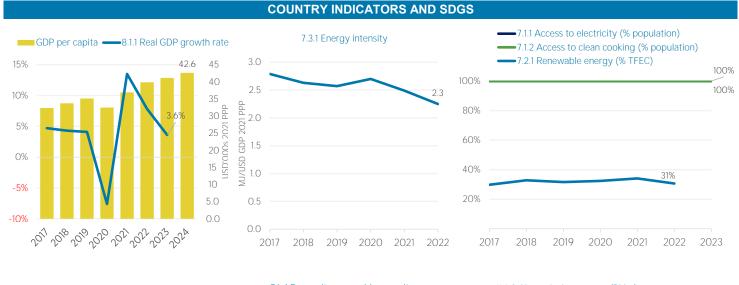
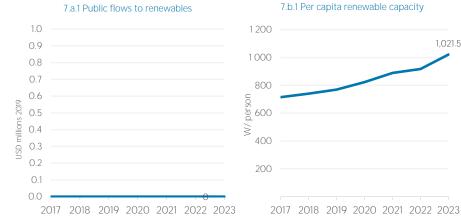
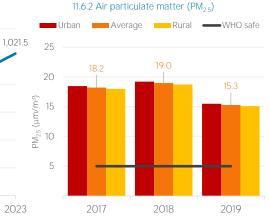
Croatia









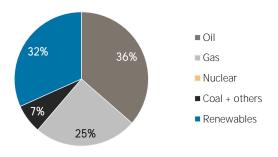
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	269 902	245 276
Renewable (TJ)	103 327	113 852
Total (TJ)	373 229	359 128
Renewable share (%)	28	32

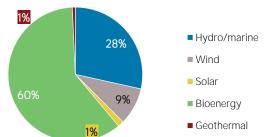
Growth in TES	2017-22	2021-22
Non-renewable (%)	-9.1	+0.0
Renewable (%)	+10.2	+4.1
Total (%)	-3.8	+1.3

Primary energy trade	2017	2022
Imports (TJ)	343 743	371 140
Exports (TJ)	146 443	154 914
Net trade (TJ)	- 197 300	- 216 226
Imports (% of supply)	92	103
Exports (% of production)	79	94
Energy self-sufficiency (%)	50	46

Total energy supply in 2022



Renewable energy supply in 2022

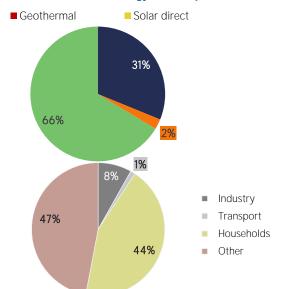


RENEWABLE ENERGY CONSUMPTION (TFEC)

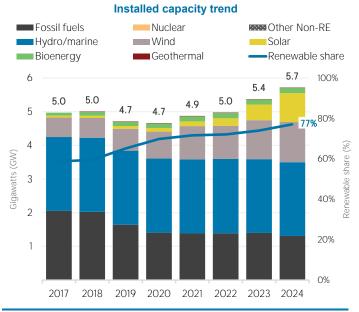
Renewable TFEC trend

■ Electricity ■ Commercial heat ■ Bioenergy 160 141 140 123 124 116 120 Petajoules (PJ) 100 80 60 40 20 0 2017 2018 2019 2020 2021 2022 Consumption by sector 2017 2022 Industry (TJ) 9 582 11 524 Transport (TJ) 614 1659 Households (TJ) 60 648 61 637 Other (TJ) 45 231 66 342

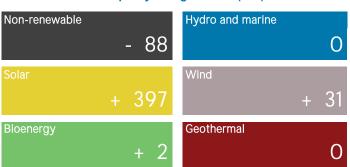
Renewable energy consumption in 2022

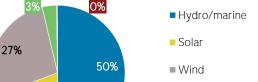


ELECTRICITY CAPACITY





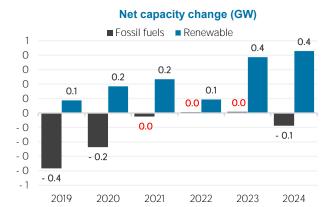




■ Bioenergy

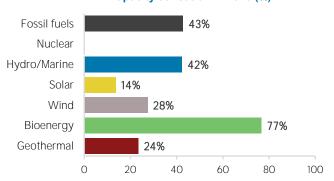
■ Geothermal

Renewable capacity in 2024



20%

Capacity utilisation in 2023 (%)

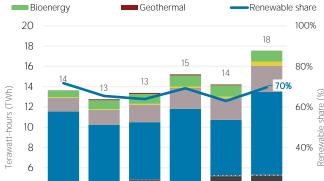


ELECTRICITY GENERATION

Generation in 2023	GWh	%
Non-renewable	5 314	30
Renewable	12 227	70
Hydro and marine	8 161	47
Solar	413	2
Wind	2 587	15
Bioenergy	1 0 4 7	6
Geothermal	21	0
Total	17 541	100



Electricity generation trend

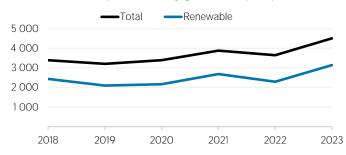


20%

0%

2023

Per capita electricity generation (kWh)



LATEST POLICIES, PROGRAMMES AND LEGISLATION

4

2

0

2018

2019

2020

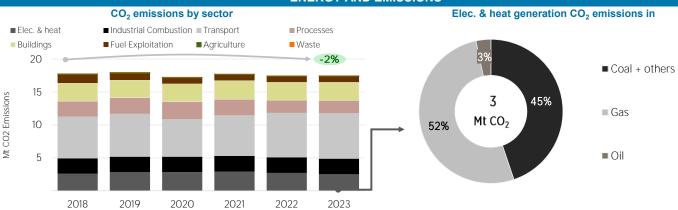
2021

2022

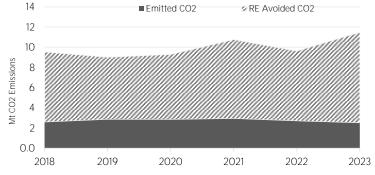
1 Croatia - REPowerEU	2024
2 Energy renovation of buildings	2024
3 Establishment of a hydrogen-based economy through the North Adriatic Hydrogen Valley	2024
4 Government spending to enhance the transmission and distribution capacities of the electricity network	2024
5 Regulation 2024/573 on fluorinated greenhouse gases	2024

ENERGY AND EMISSIONS

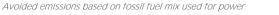
tCO₂/GWh

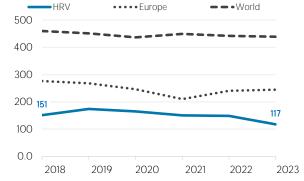


Avoided emissions from renewable elec. & heat CO₂ emission factor for elec. & heat generation



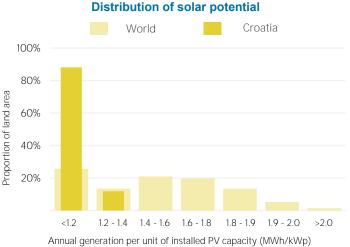
2021



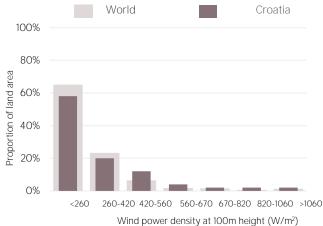


Calculated by dividing power sector emissions by elec. + heat gen.

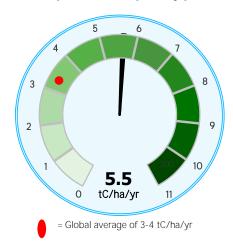
RENEWABLE RESOURCE POTENTIAL



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



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 statistics@irena.org.

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