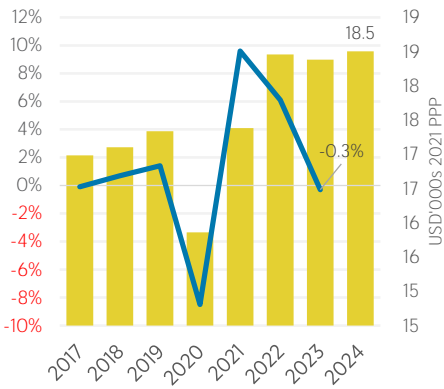
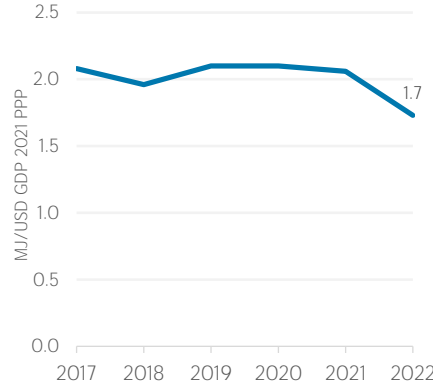


COUNTRY INDICATORS AND SDGS

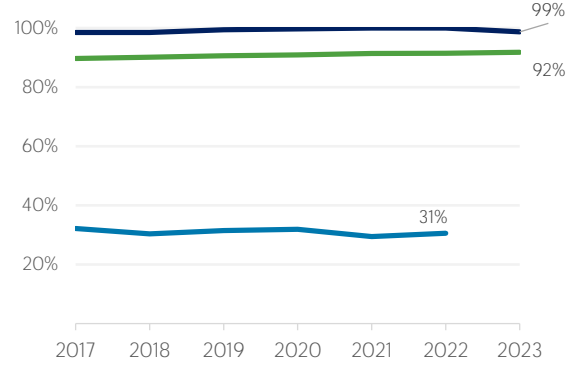
8.1.1 Real GDP growth rate



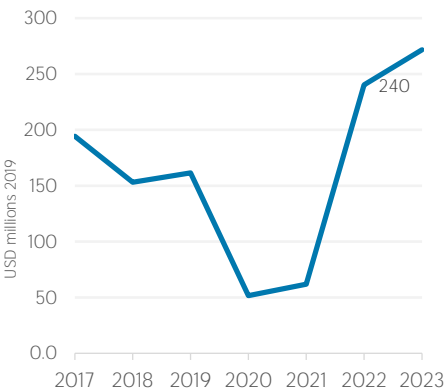
7.3.1 Energy intensity



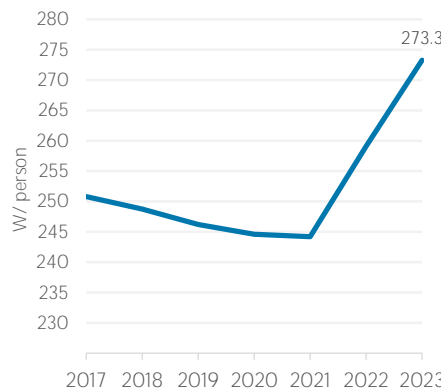
7.1.1 Access to electricity (% population)
7.1.2 Access to clean cooking (% population)
7.2.1 Renewable energy (% TFE)



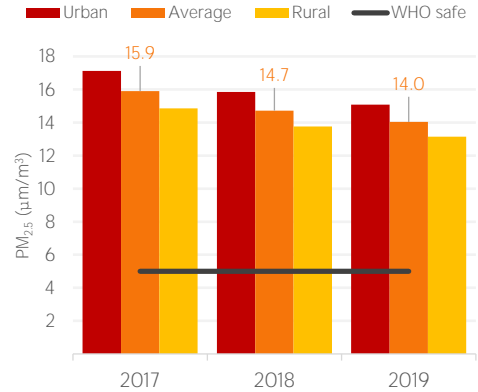
7.a.1 Public flows to renewables



7.b.1 Per capita renewable capacity



11.6.2 Air particulate matter (PM_{2.5})



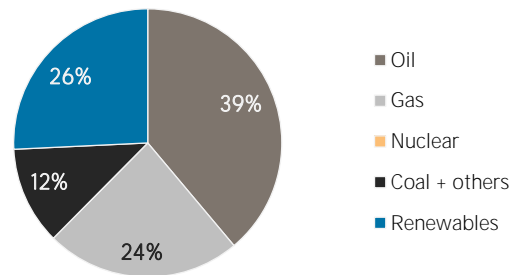
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	1 522 987	1 242 405
Renewable (TJ)	388 070	430 977
Total (TJ)	1 911 057	1 673 382
Renewable share (%)	20	26

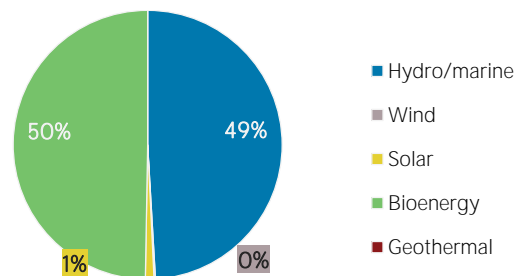
Growth in TES	2017-22	2021-22
Non-renewable (%)	-18.4	-7.0
Renewable (%)	+11.1	-7.1
Total (%)	-12.4	-7.0

Primary energy trade	2017	2022
Imports (TJ)	235 834	328 298
Exports (TJ)	4 482 867	3 041 667
Net trade (TJ)	4 247 033	2 713 369
Imports (% of supply)	12	20
Exports (% of production)	80	69
Energy self-sufficiency (%)	294	262

Total energy supply in 2022

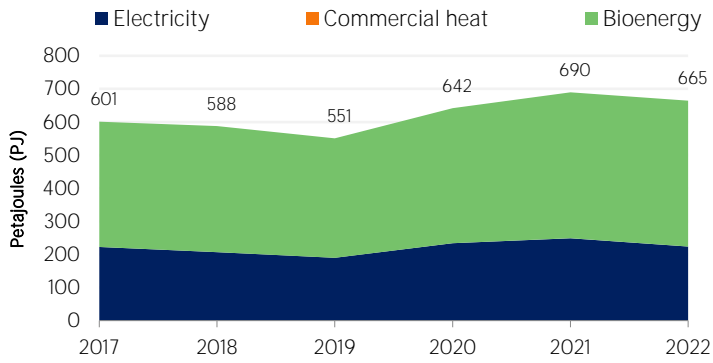


Renewable energy supply in 2022



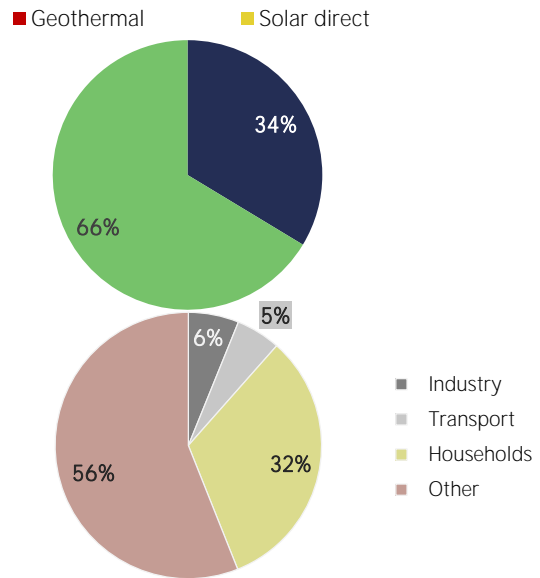
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend



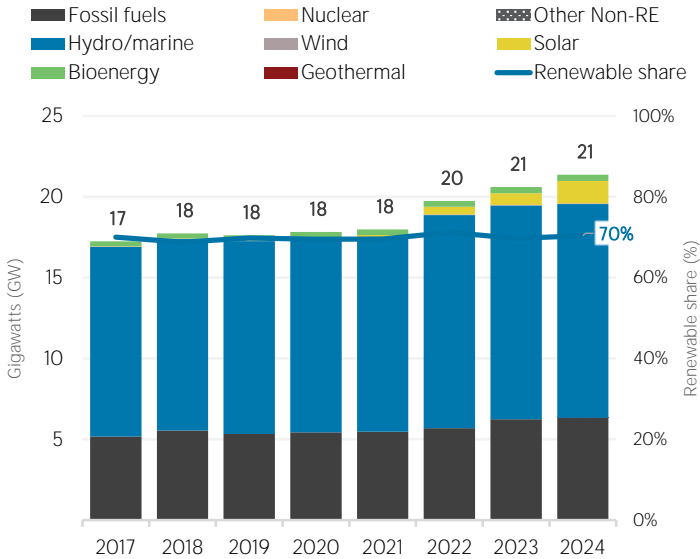
Consumption by sector	2017	2022
Industry (TJ)	103 486	40 768
Transport (TJ)	351	35 884
Households (TJ)	160 796	215 497
Other (TJ)	336 339	372 422

Renewable energy consumption in 2022



ELECTRICITY CAPACITY

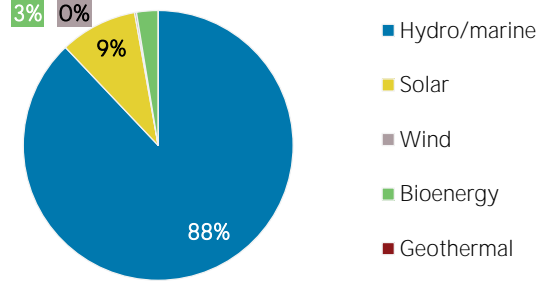
Installed capacity trend



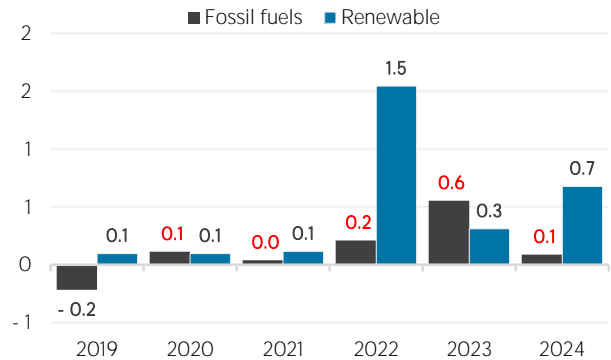
Net capacity change in 2024 (MW)

Non-renewable	+ 90	Hydro and marine	0
Solar	+ 676	Wind	0
Bioenergy	+ 2	Geothermal	0

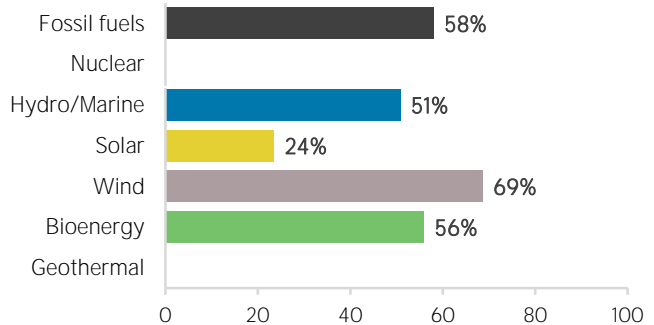
Renewable capacity in 2024



Net capacity change (GW)

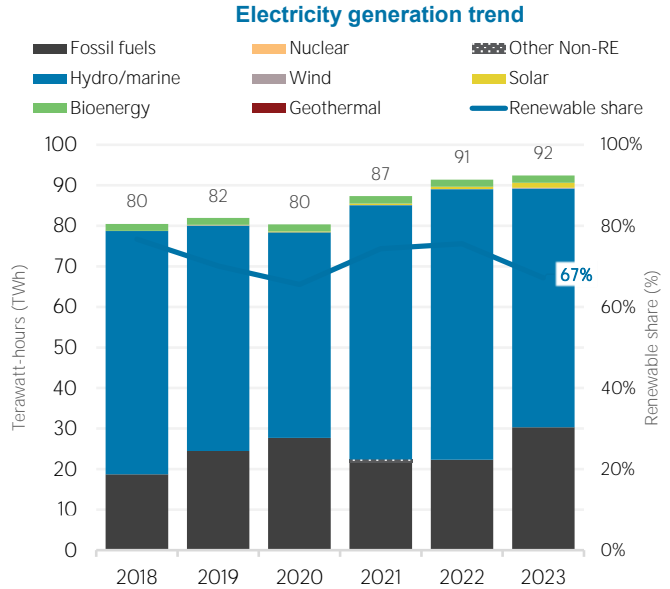


Capacity utilisation in 2023 (%)

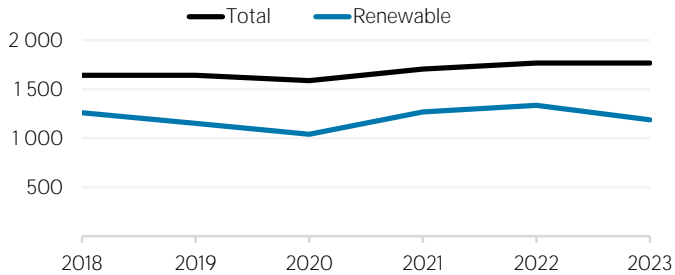


ELECTRICITY GENERATION

Generation in 2023	GWh	%
Non-renewable	30 326	33
Renewable	62 119	67
Hydro and marine	58 866	64
Solar	1 234	1
Wind	203	0
Bioenergy	1 816	2
Geothermal	0	0
Total	92 446	100



Per capita electricity generation (kWh)

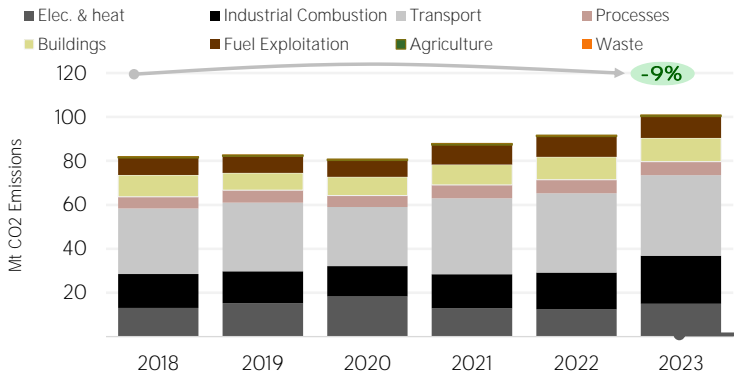


LATEST POLICIES, PROGRAMMES AND LEGISLATION

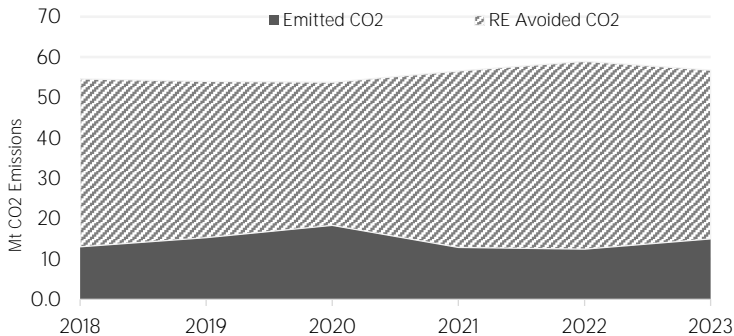
- Colombia's Mining Traceability and Transaction Control System **2023**
- International Working Group to Establish a Greenhouse Gas Supply Chain Emissions Measurement, Monitoring, Reporting, and Verification (MMRV) Framework **2023**
- Resolution 1006 of 30 November 2023 **2023**
- Resolution 40715/2019: Wholesale Energy Market with RES in 2023 **2023**
- 2022 Electricity and gas subsidy for vulnerable households **2022**

ENERGY AND EMISSIONS

CO₂ emissions by sector

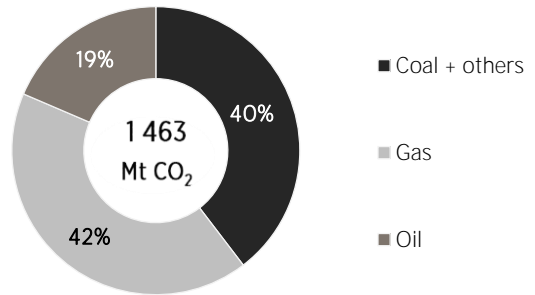


Avoided emissions from renewable elec. & heat

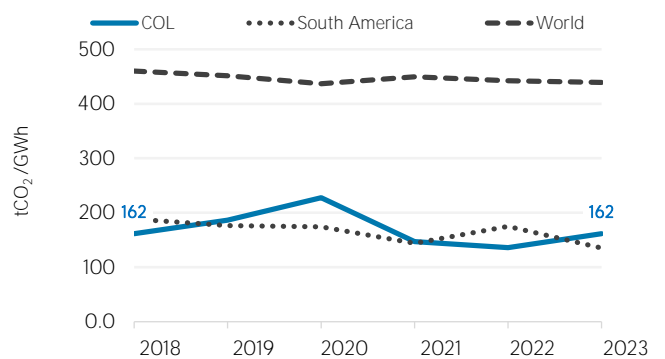


Avoided emissions based on fossil fuel mix used for power

Elec. & heat generation CO₂ emissions in

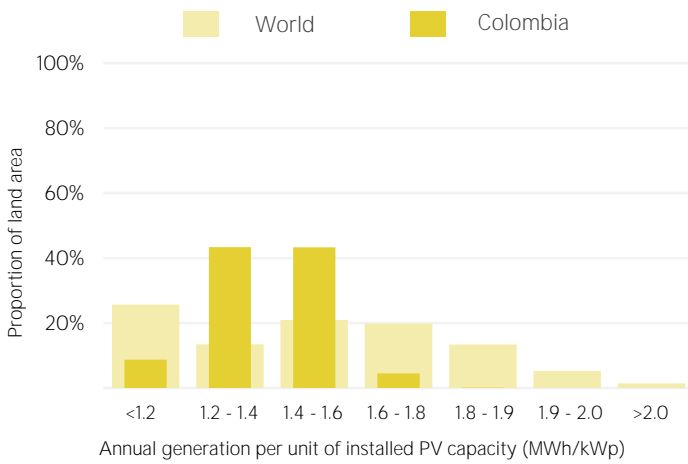


CO₂ emission factor for elec. & heat generation

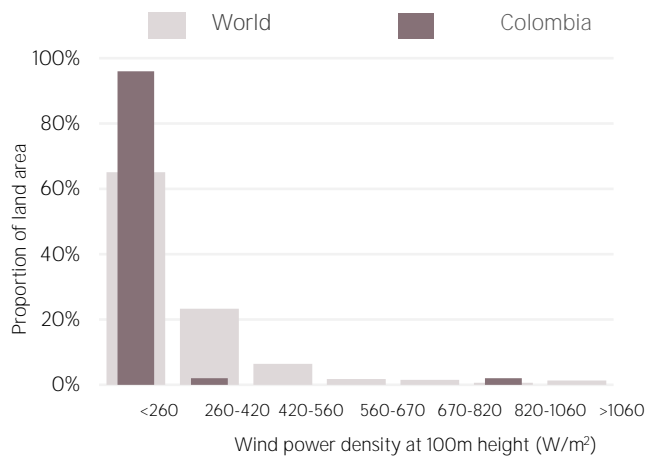


Calculated by dividing power sector emissions by elec. + heat gen.

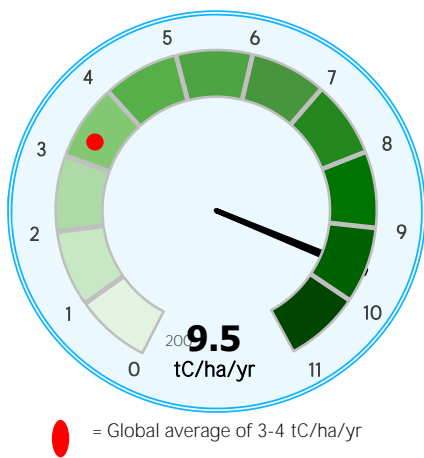
Distribution of solar potential



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.

Last updated on: 22 September, 2025