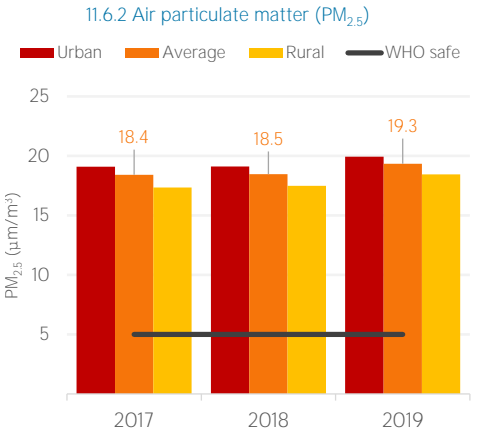
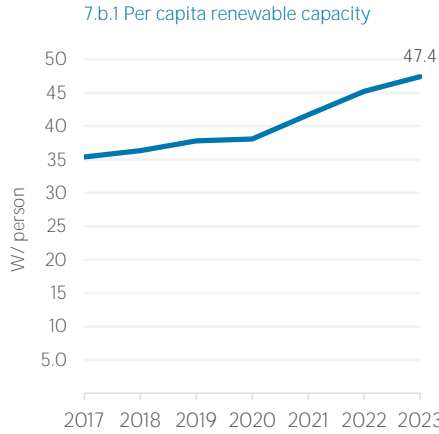
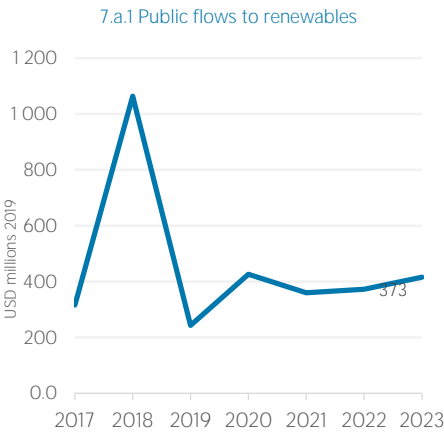
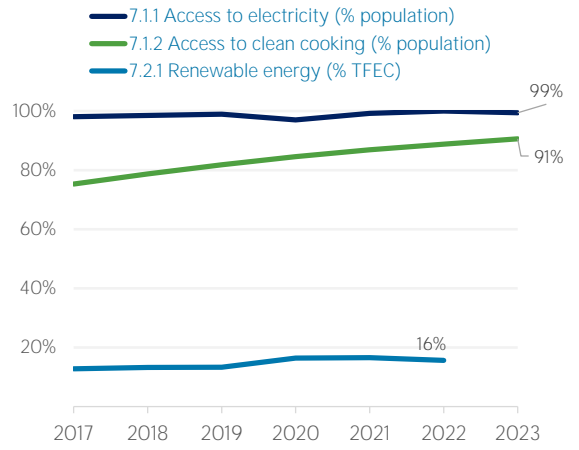
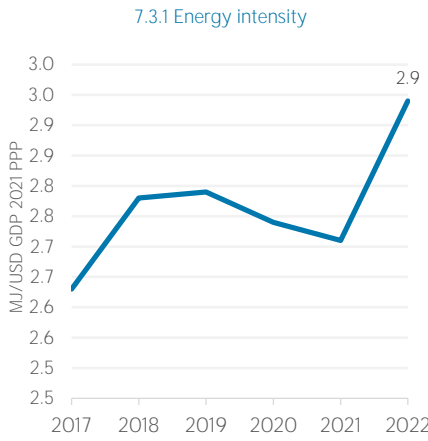
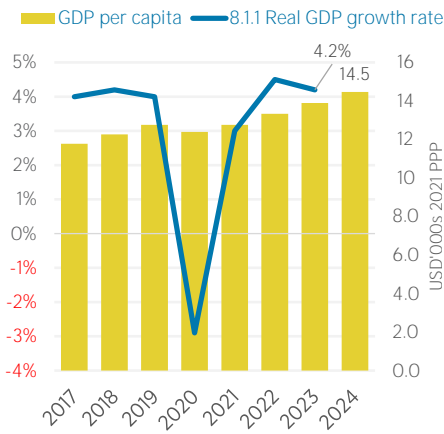


COUNTRY INDICATORS AND SDGS



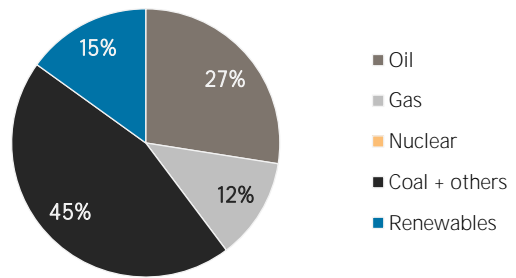
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	6 990 875	10 639 867
Renewable (TJ)	2 121 991	1 888 993
Total (TJ)	9 112 867	12 528 860
Renewable share (%)	23	15

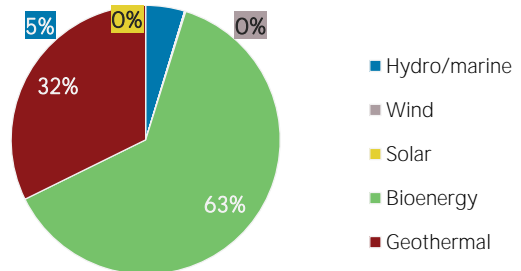
Growth in TES	2017-22	2021-22
Non-renewable (%)	+52.2	+29.3
Renewable (%)	-11.0	-8.4
Total (%)	+37.5	+21.7

Primary energy trade	2017	2022
Imports (TJ)	2 302 792	2 444 056
Exports (TJ)	11 438 215	12 905 520
Net trade (TJ)	9 135 423	10 461 464
Imports (% of supply)	25	20
Exports (% of production)	62	55
Energy self-sufficiency (%)	201	186

Total energy supply in 2022

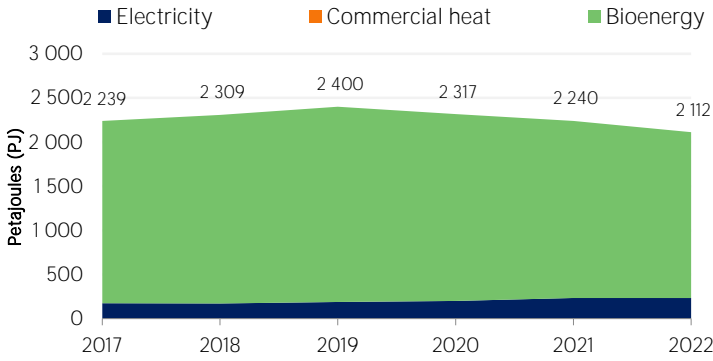


Renewable energy supply in 2022



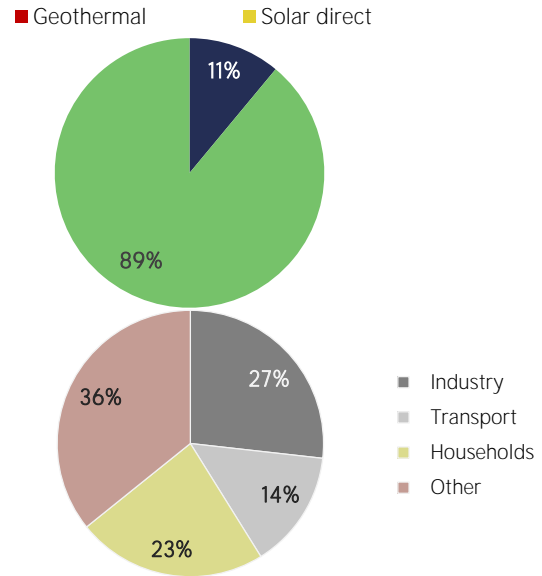
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend



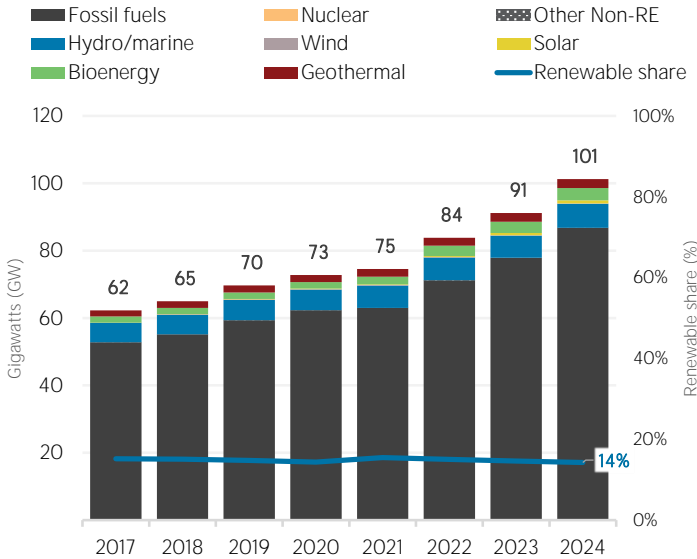
Consumption by sector	2017	2022
Industry (TJ)	397 610	565 580
Transport (TJ)	73 623	303 098
Households (TJ)	1 140 141	487 981
Other (TJ)	627 229	755 720

Renewable energy consumption in 2022

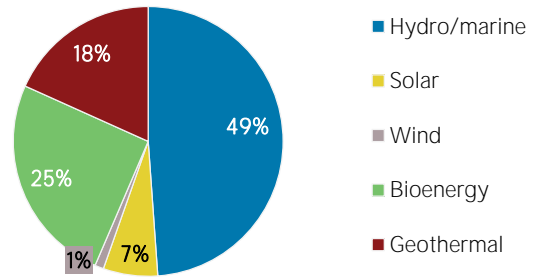


ELECTRICITY CAPACITY

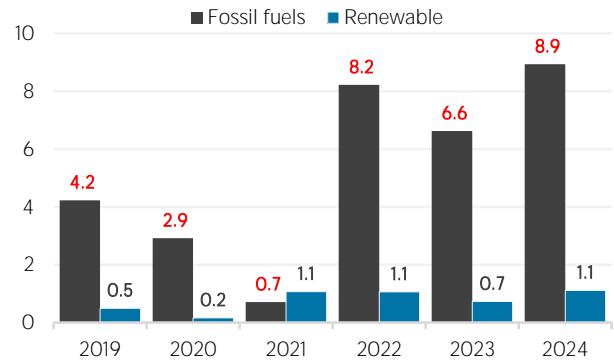
Installed capacity trend



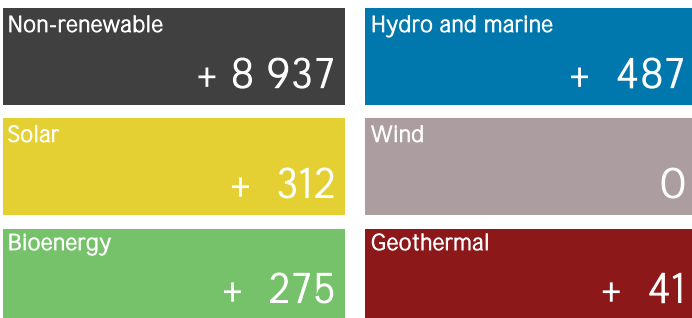
Renewable capacity in 2024



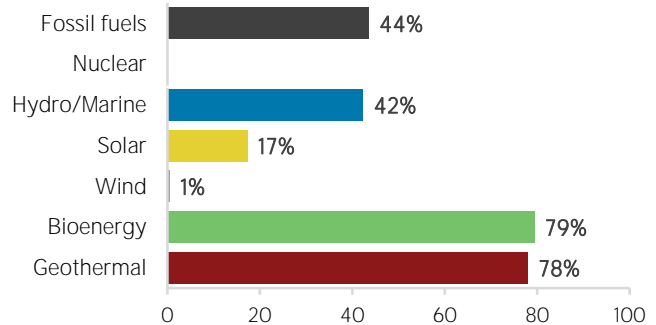
Net capacity change (GW)



Net capacity change in 2024 (MW)



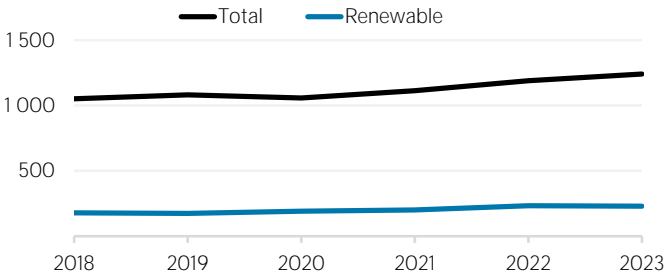
Capacity utilisation in 2023 (%)



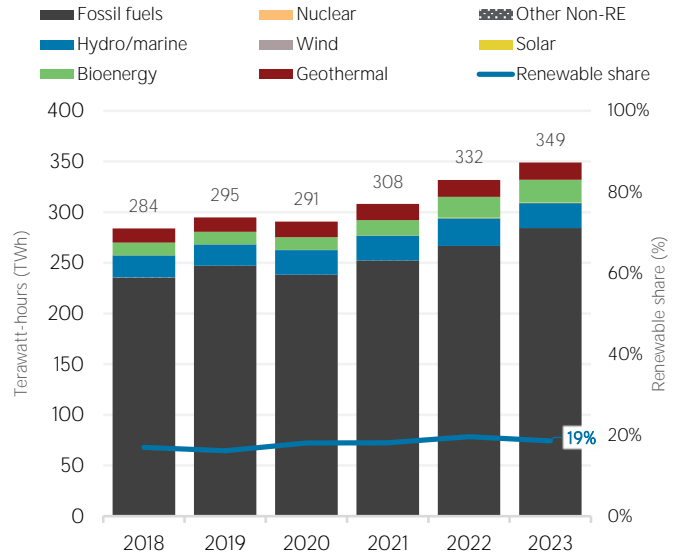
ELECTRICITY GENERATION

Generation in 2023	GWh	%
Non-renewable	284 256	81
Renewable	64 721	19
Hydro and marine	24 590	7
Solar	713	0
Wind	8	0
Bioenergy	22 475	6
Geothermal	16 936	5
Total	348 977	100

Per capita electricity generation (kWh)



Electricity generation trend

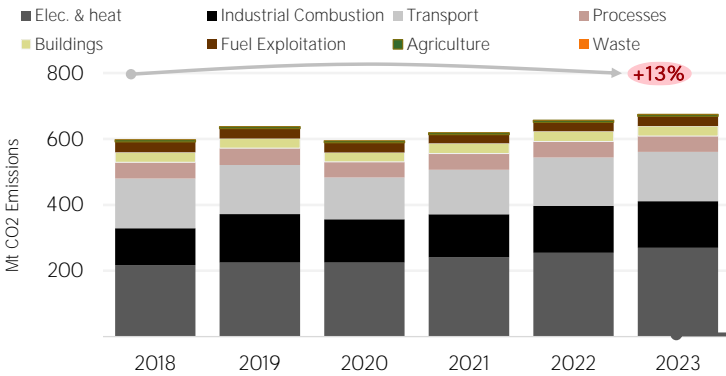


LATEST POLICIES, PROGRAMMES AND LEGISLATION

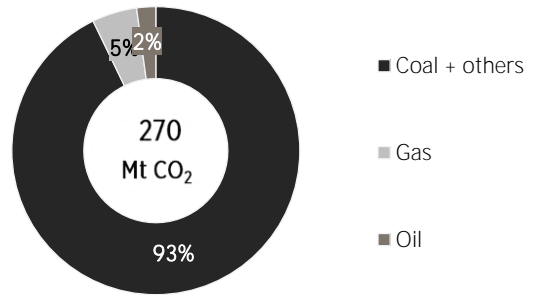
- 1 Government Regulation 8 of 2025 2025
- 2 Guidelines for the Use of Domestic Products for Electricity Infrastructure Development 2025
- 3 Export Benchmark Prices for Mining Products Subject to Export Duty 2024
- 4 Export Prohibition on Industrial Products 2024
- 5 Law No. 96 of 2024 regarding energy buffer reserves 2024

ENERGY AND EMISSIONS

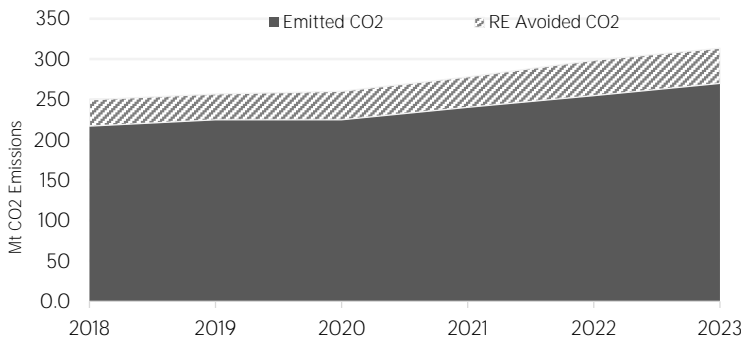
CO₂ emissions by sector



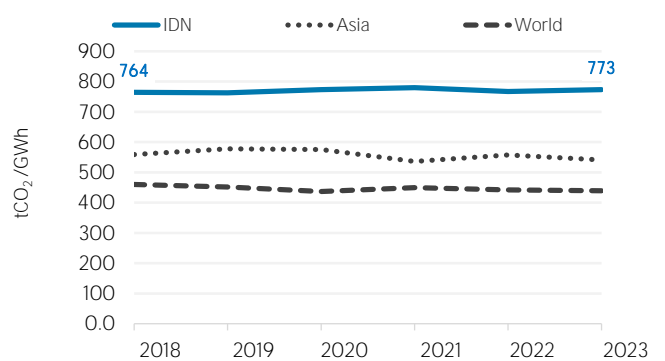
Elec. & heat generation CO₂ emissions in



Avoided emissions from renewable elec. & heat



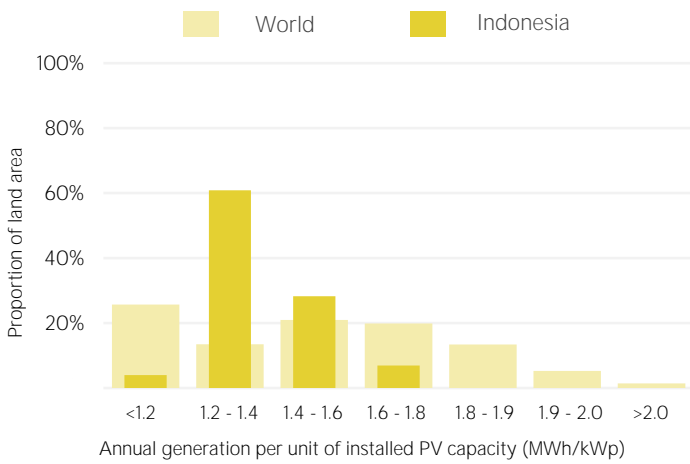
CO₂ emission factor for elec. & heat generation



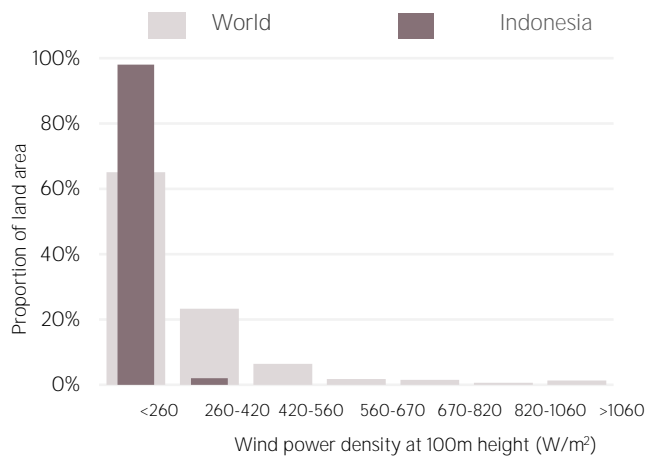
Avoided emissions based on fossil fuel mix used for power

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.

Last updated on: 22 September, 2025