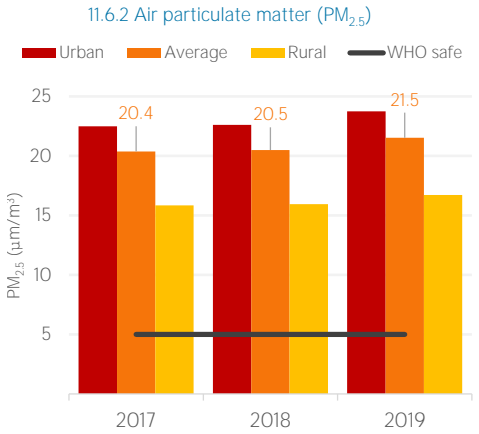
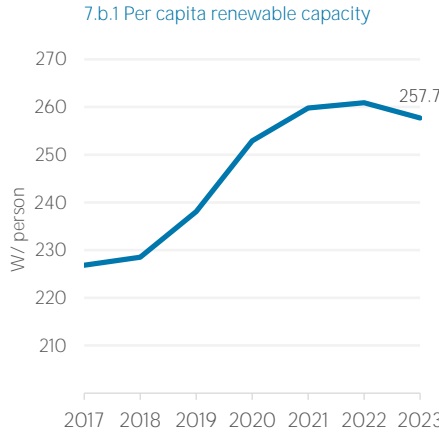
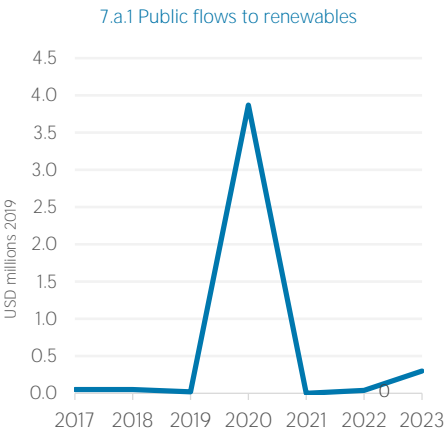
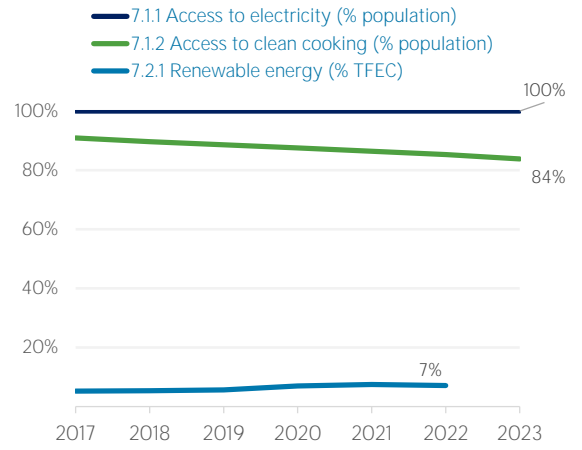
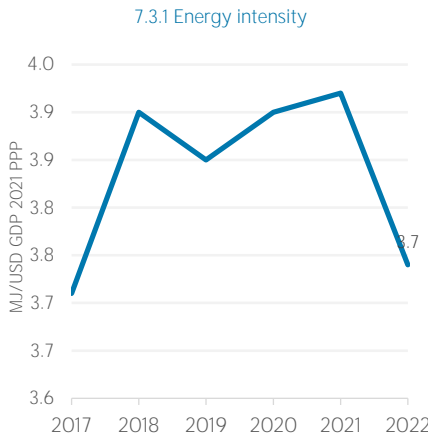
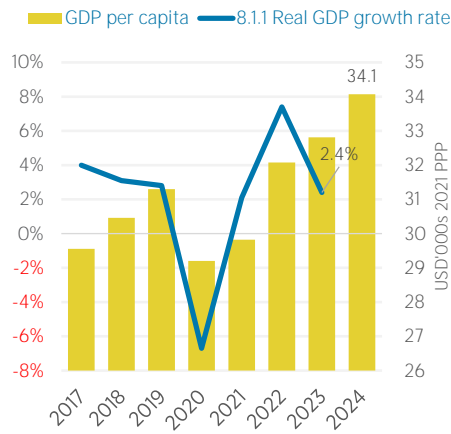


COUNTRY INDICATORS AND SDGS

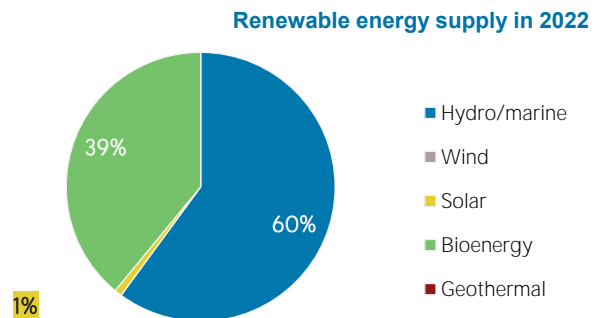
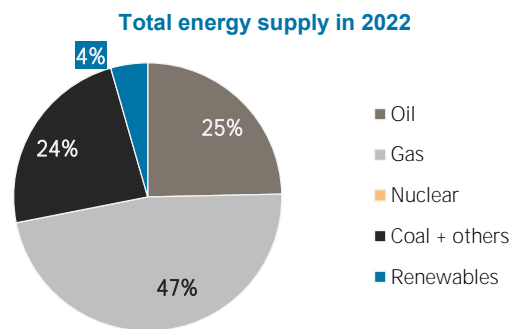


TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	3 341 487	3 967 062
Renewable (TJ)	136 138	184 665
Total (TJ)	3 477 625	4 151 727
Renewable share (%)	4	4

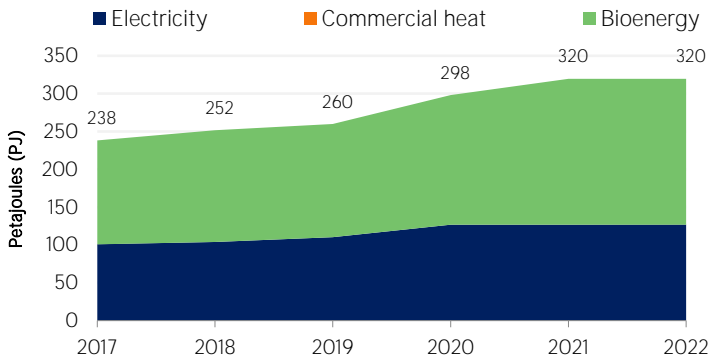
Growth in TES	2017-22	2021-22
Non-renewable (%)	+18.7	+4.6
Renewable (%)	+35.6	-0.5
Total (%)	+19.4	+4.4

Primary energy trade	2017	2022
Imports (TJ)	2 042 044	2 753 007
Exports (TJ)	2 264 380	2 767 734
Net trade (TJ)	222 336	14 727
Imports (% of supply)	59	66
Exports (% of production)	59	69
Energy self-sufficiency (%)	110	97



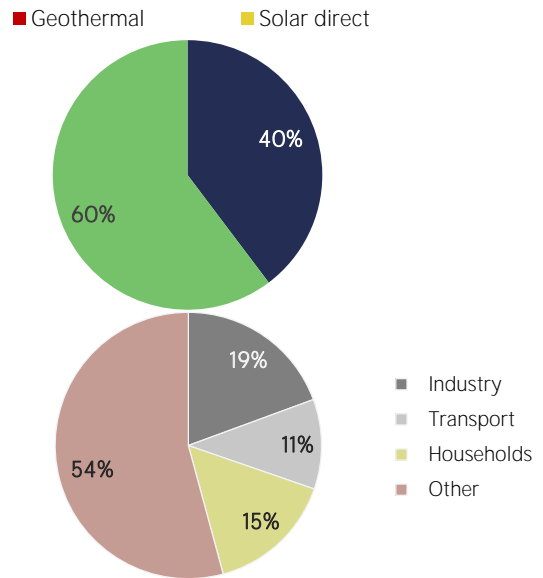
# RENEWABLE ENERGY CONSUMPTION (TFEC)

### Renewable TFEC trend



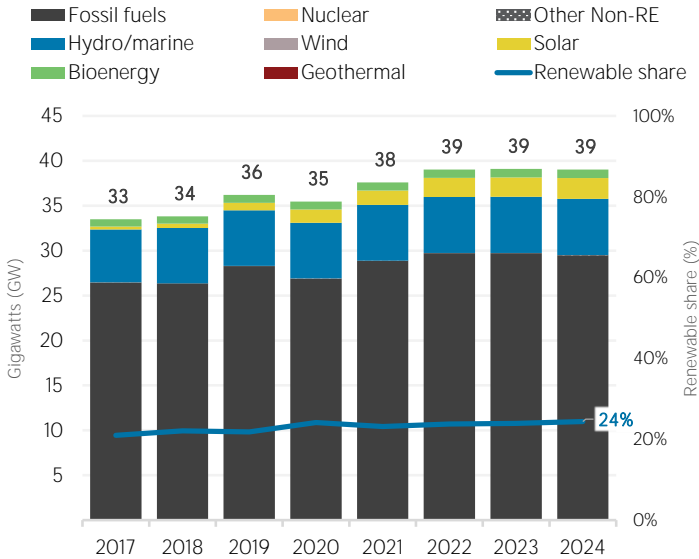
Consumption by sector	2017	2022
Industry (TJ)	49 888	61 989
Transport (TJ)	14 079	34 822
Households (TJ)	42 024	49 521
Other (TJ)	132 132	173 259

### Renewable energy consumption in 2022

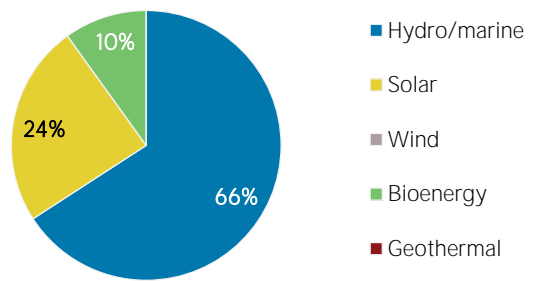


# ELECTRICITY CAPACITY

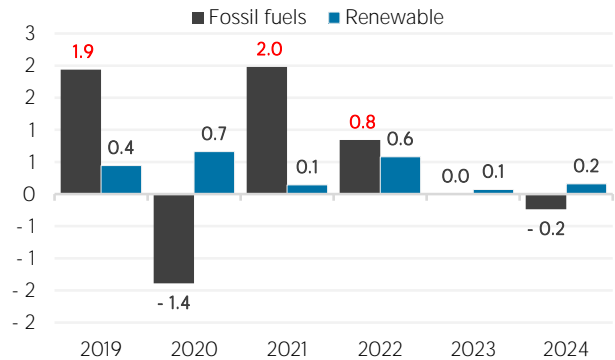
### Installed capacity trend



### Renewable capacity in 2024



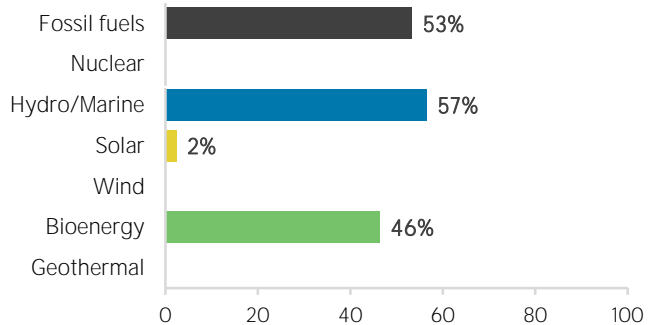
### Net capacity change (GW)



### Net capacity change in 2024 (MW)

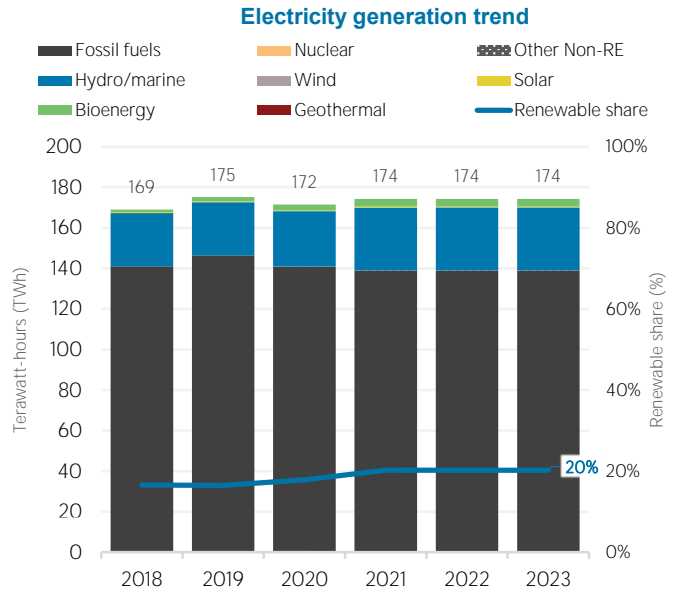
Non-renewable	- 235	Hydro and marine	0
Solar	+ 160	Wind	0
Bioenergy	0	Geothermal	0

### Capacity utilisation in 2023 (%)

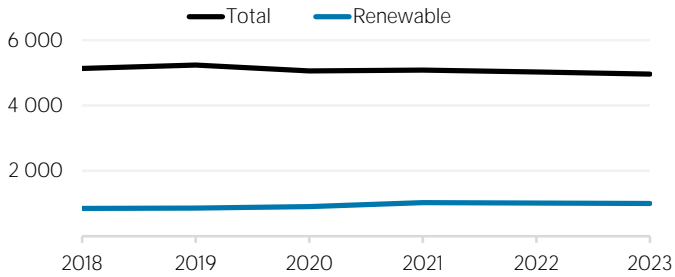


## ELECTRICITY GENERATION

Generation in 2023	GWh	%
<b>Non-renewable</b>	<b>139 039</b>	<b>80</b>
<b>Renewable</b>	<b>35 254</b>	<b>20</b>
Hydro and marine	30 987	18
Solar	460	0
Wind	0	0
Bioenergy	3 807	2
Geothermal	0	0
<b>Total</b>	<b>174 293</b>	<b>100</b>



### Per capita electricity generation (kWh)

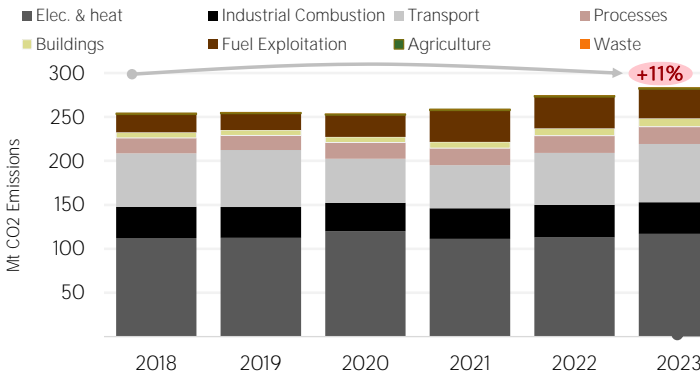


## LATEST POLICIES, PROGRAMMES AND LEGISLATION

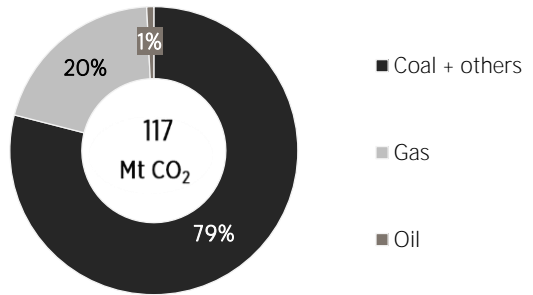
- 1 Electric Motorcycle Usage Promotion Scheme (MARiCas) 2024
- 2 Petroleum product and LPG subsidies 2024
- 3 Carbon Capture Storage project incentives 2023
- 4 Electric Vehicle Charging Equipment Domestic Manufacturing incentives 2023
- 5 Final determination- Investigation on anti-dumping duties imposed on imports of cold rolled products of alloy or non-alloy steel 2023

## ENERGY AND EMISSIONS

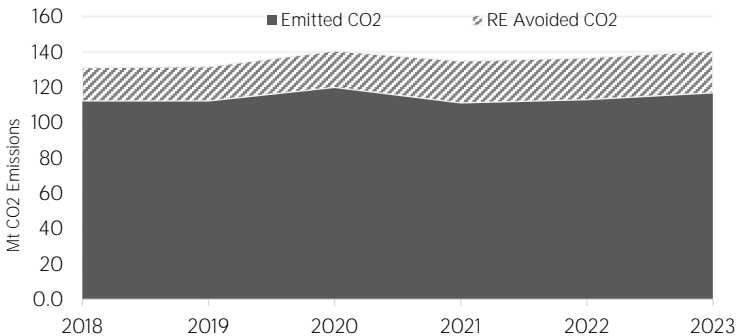
### CO<sub>2</sub> emissions by sector



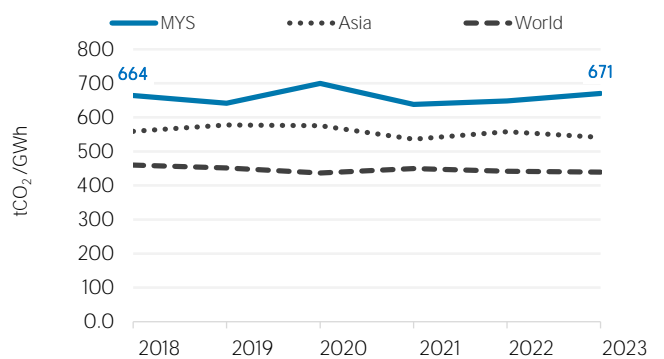
### Elec. & heat generation CO<sub>2</sub> emissions in



### Avoided emissions from renewable elec. & heat



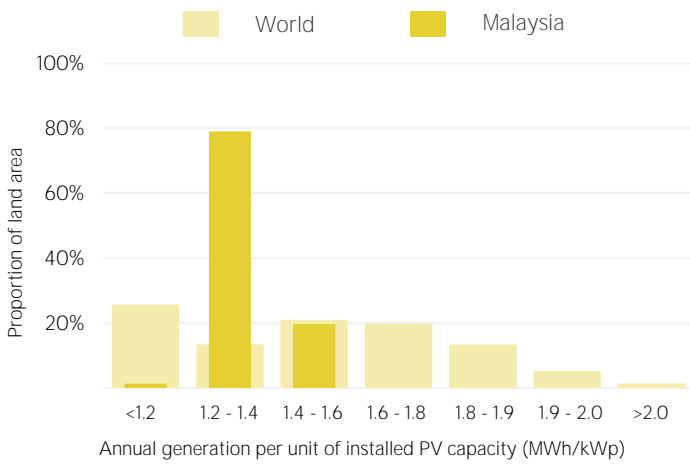
### CO<sub>2</sub> emission factor for elec. & heat generation



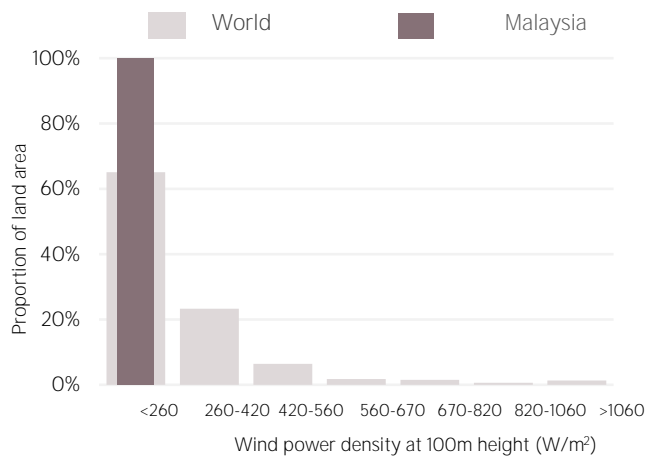
Avoided emissions based on fossil fuel mix used for power

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 ( $W/m^2$ ) 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](mailto:statistics@irena.org).

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