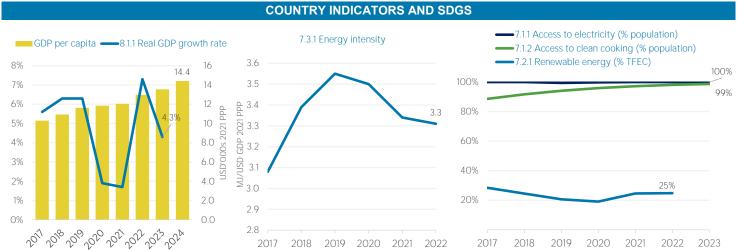
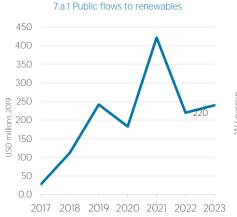
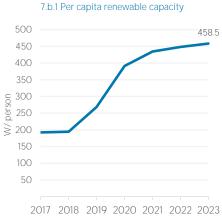
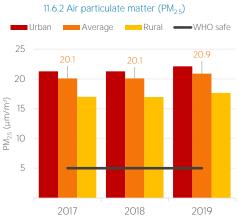
Viet Nam











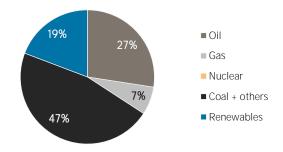
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	2 432 221	3 400 771
Renewable (TJ)	671 493	809 303
Total (TJ)	3 103 714	4 210 075
Renewable share (%)	22	19

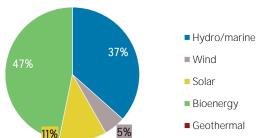
Growth in TES	2017-22	2021-22
Non-renewable (%)	+39.8	+7.7
Renewable (%)	+20.5	-9.2
Total (%)	+35.6	+4.0

Primary energy trade	2017	2022
Imports (TJ)	1 194 911	1 761 651
Exports (TJ)	435 496	212 584
Net trade (TJ)	- 759 415	-1 549 067
Imports (% of supply)	38	42
Exports (% of production)	18	8
Energy self-sufficiency (%)	80	63

Total energy supply in 2022



Renewable energy supply in 2022

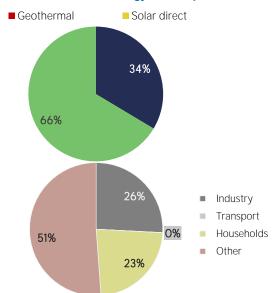


RENEWABLE ENERGY CONSUMPTION (TFEC)

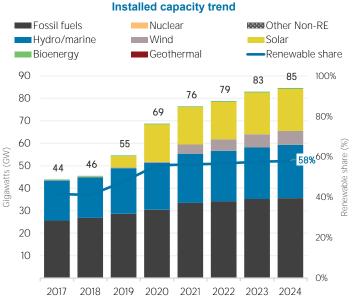
Renewable TFEC trend

■ Electricity ■ Commercial heat ■ Bioenergy 1400 1 290 1149 1 185 1200 ____ 1043 1 000 Petajoules (PJ) 800 600 400 200 0 2017 2018 2019 2020 2021 2022 Consumption by sector 2017 2022 Industry (TJ) 378 146 332 819 Transport (TJ) 0 761 Households (TJ) 236 984 296 456 Other (TJ) 378 511 659 756

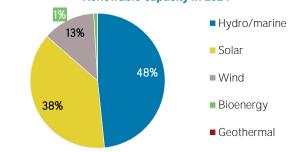
Renewable energy consumption in 2022



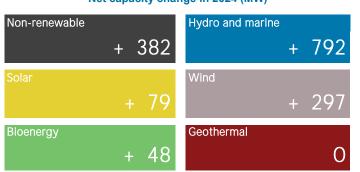
ELECTRICITY CAPACITY



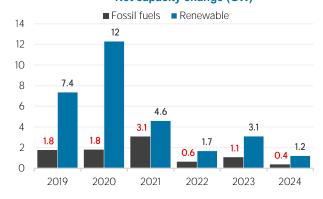
Renewable capacity in 2024



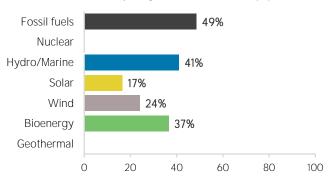
Net capacity change in 2024 (MW)



Net capacity change (GW)

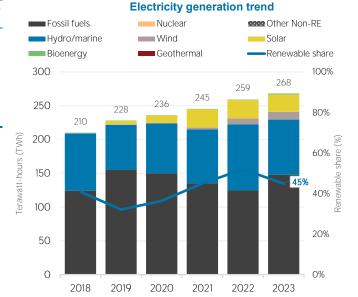


Capacity utilisation in 2023 (%)

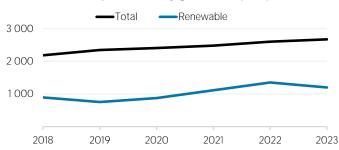


ELECTRICITY GENERATION

Generation in 2023	GWh	%
Non-renewable	147 681	55
Renewable	120 302	45
Hydro and marine	81 727	30
Solar	25 696	10
Wind	11 593	4
Bioenergy	1 286	0
Geothermal	0	0
Total	267 984	100





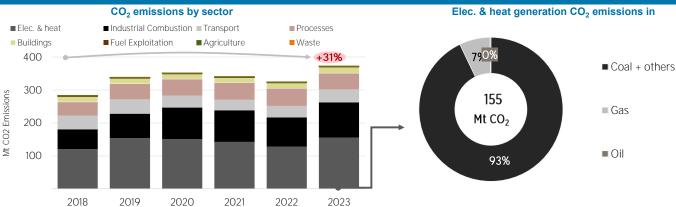


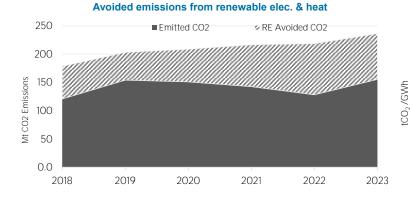
5 Registration fee exemption/reduction for electric vehicles

1 Asia Zero Emission Community (AZEC) 2 Viet Nam Environment Tax Reduction on Fuel 2023 3 Decree No. 08/2022/ND-CP 2022 4 Regional Comprehensive Economic Partnership (RCEP) 2022

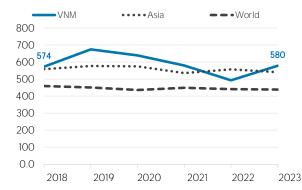
LATEST POLICIES, PROGRAMMES AND LEGISLATION

ENERGY AND EMISSIONS









CO₂ emission factor for elec. & heat generation

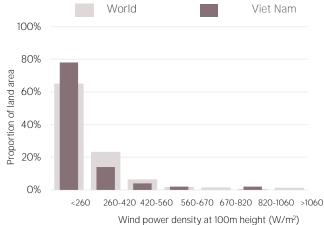
2022

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

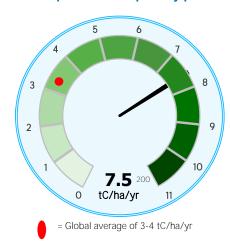
RENEWABLE RESOURCE POTENTIAL



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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