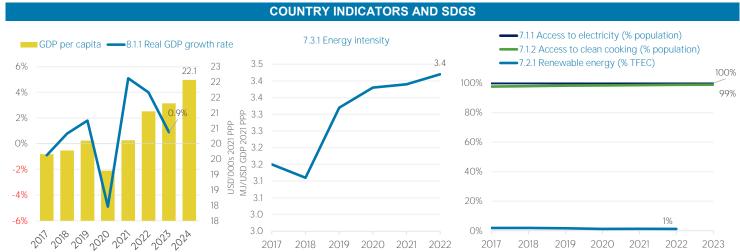
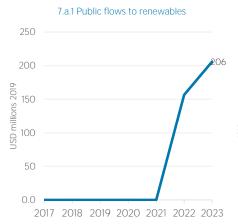
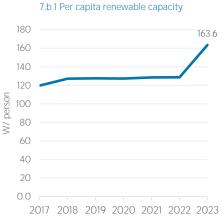
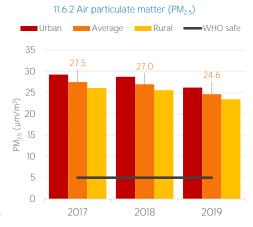
Azerbaijan









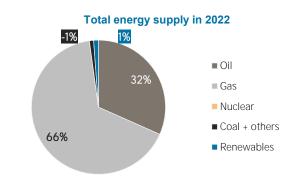


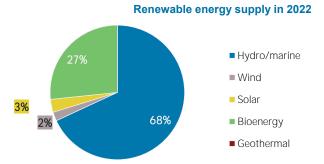
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	595 475	717 066
Renewable (TJ)	9 218	8 633
Total (TJ)	604 693	725 699
Renewable share (%)	2	1

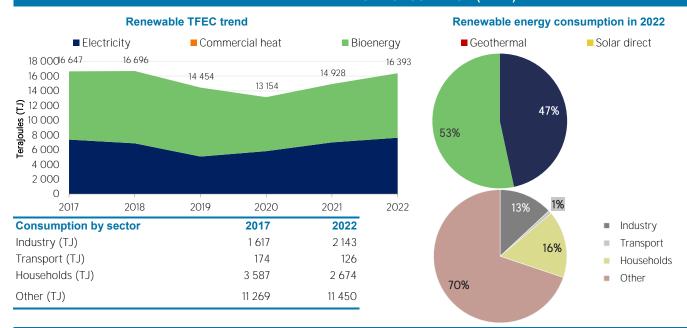
Growth in TES	2017-22	2021-22
Non-renewable (%)	+20.4	+6.8
Renewable (%)	-6.3	-1.2
Total (%)	+20.0	+6.7

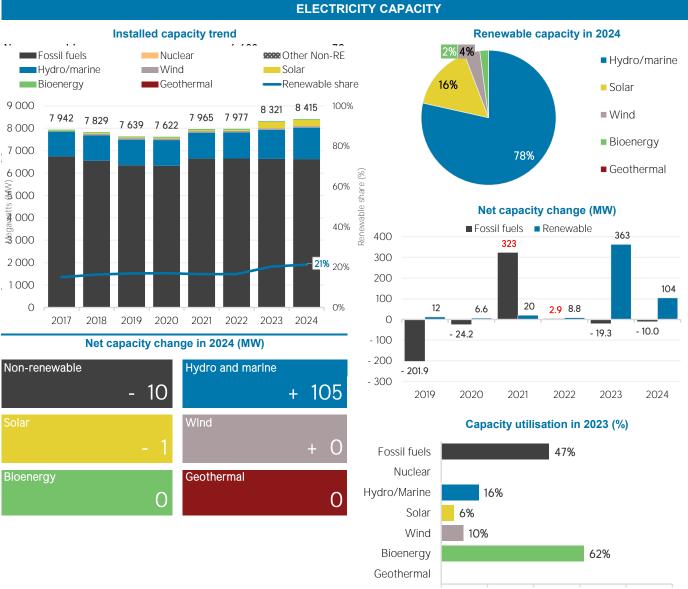
Primary energy trade	2017	2022
Imports (TJ)	96 919	114 800
Exports (TJ)	1 770 397	1 976 851
Net trade (TJ)	1 673 478	1 862 051
Imports (% of supply)	16	16
Exports (% of production)	77	75
Energy self-sufficiency (%)	382	362
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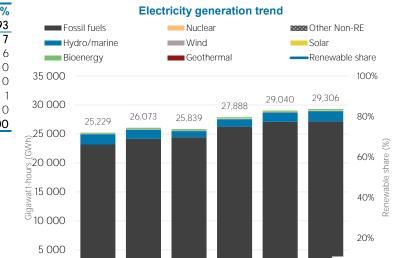
RENEWABLE ENERGY CONSUMPTION (TFEC)





ELECTRICITY GENERATION

Generation in 2023	GWh	%
Non-renewable	27 183	93
Renewable	2 123	7
Hydro and marine	1763	ϵ
Solar	81	C
Wind	55	C
Bioenergy	223	
Geothermal	0	C
Total	29 306	100



2020

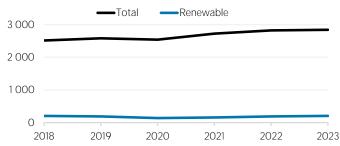
2021

2022

0%

2023

Per capita electricity generation (kWh)



LATEST POLICIES, PROGRAMMES AND LEGISLATION

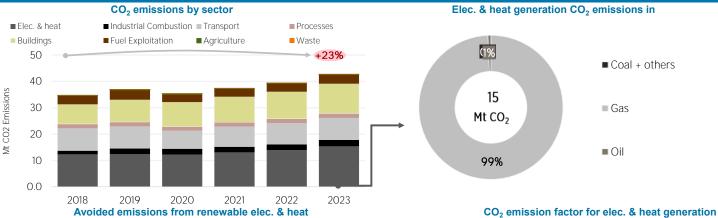
0

2018

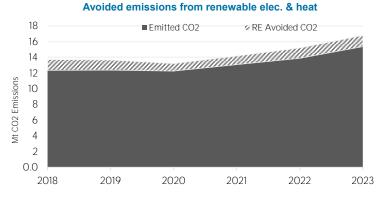
2019

1 2023 Nationally Determined Contribution	2023
2 Law on Energy	2023
3 Azerbaijan and European Bank for Reconstruction and Development MoU	2022
4 European Union and Azerbaijan MoU to increase energy cooperation	2022
5 Methane Alert and Response System	2022

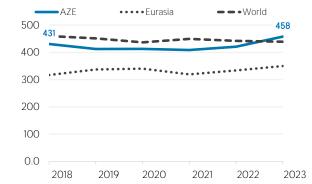
ENERGY AND EMISSIONS



tCO₂ /GWh



Avoided emissions based on fossil fuel mix used for power

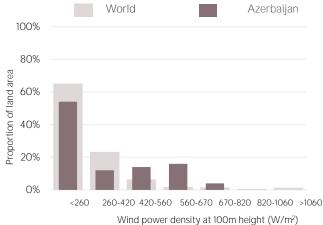


Calculated by dividing power sector emissions by elec. + heat gen.

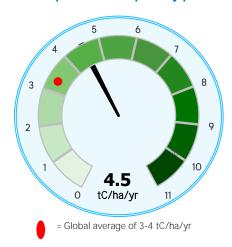
RENEWABLE RESOURCE POTENTIAL



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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