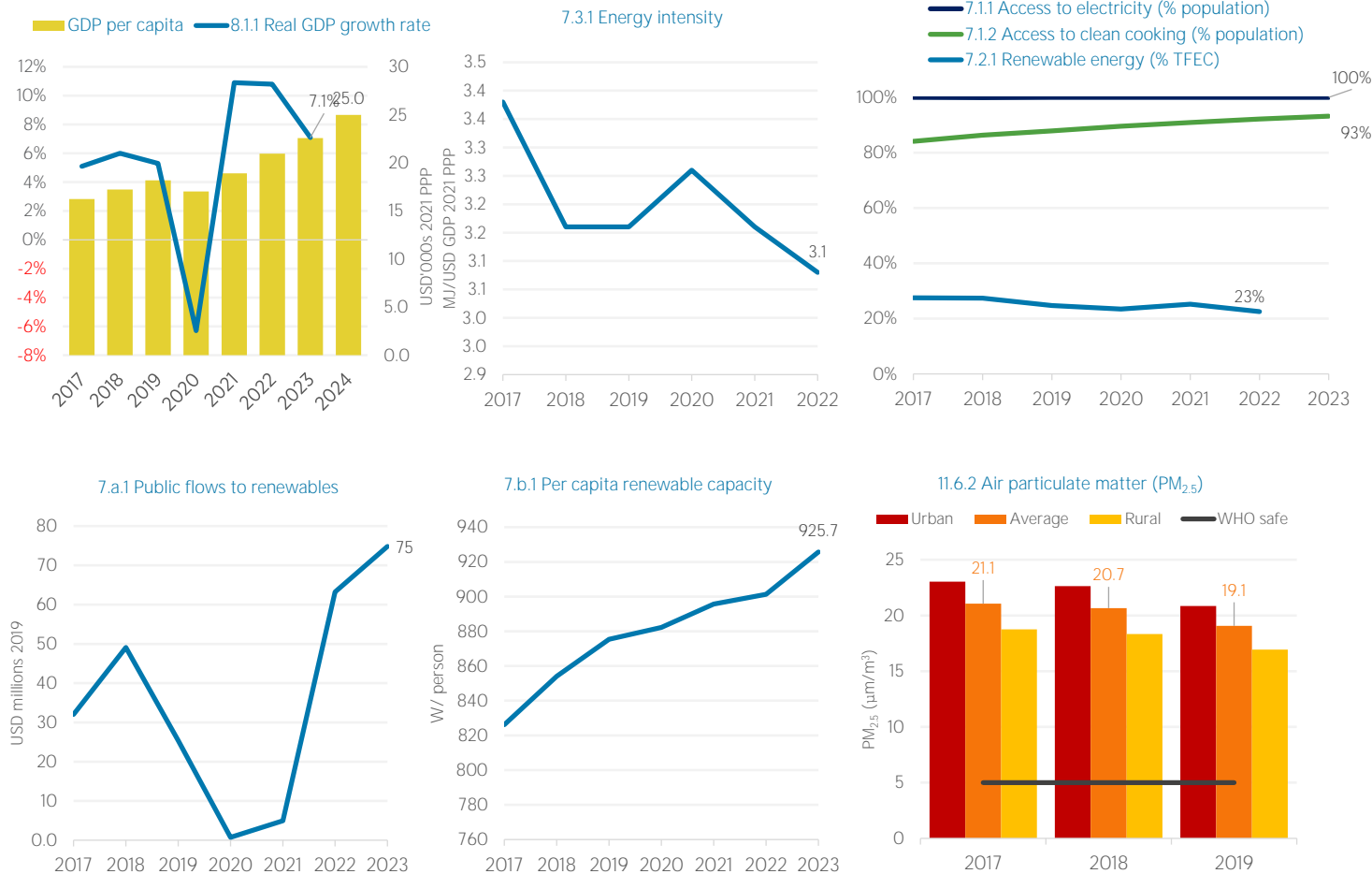


COUNTRY INDICATORS AND SDGS



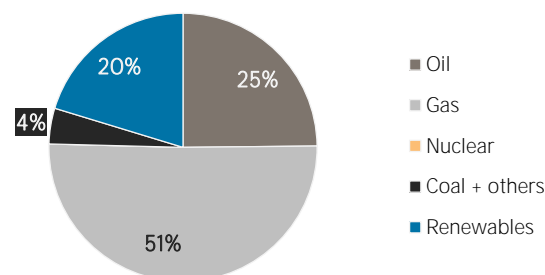
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2017	2022
Non-renewable (TJ)	154 244	190 450
Renewable (TJ)	54 477	48 477
Total (TJ)	208 720	238 927
Renewable share (%)	26	20

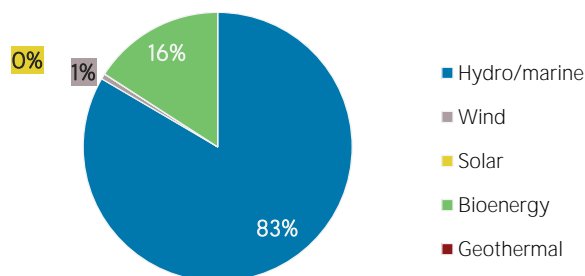
Growth in TES	2017-22	2021-22
Non-renewable (%)	+23.5	+12.2
Renewable (%)	-11.0	-8.8
Total (%)	+14.5	+7.2

Primary energy trade	2017	2022
Imports (TJ)	165 244	208 996
Exports (TJ)	11 413	17 130
Net trade (TJ)	- 153 831	- 191 866
Imports (% of supply)	79	87
Exports (% of production)	20	33
Energy self-sufficiency (%)	28	22

Total energy supply in 2022

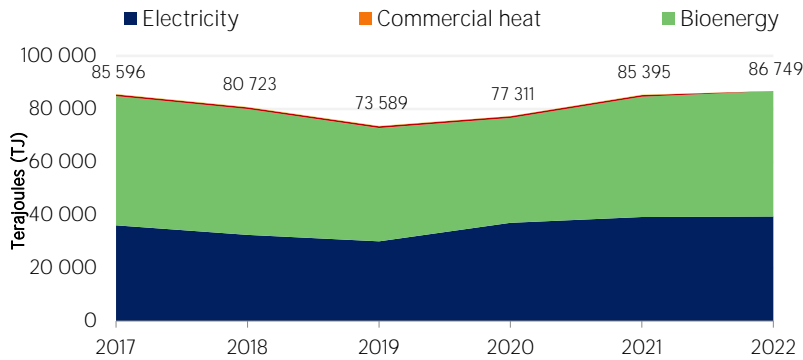


Renewable energy supply in 2022



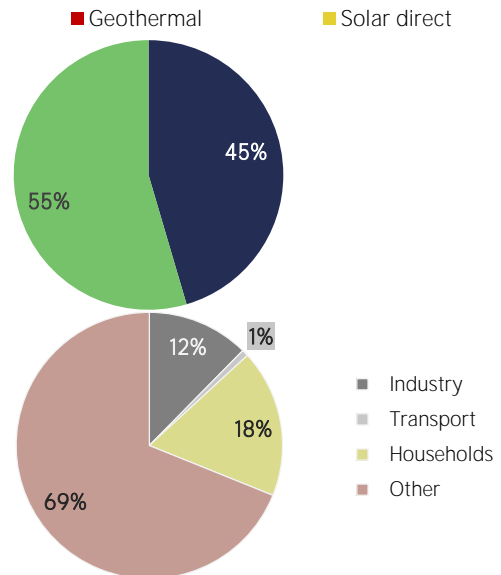
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend



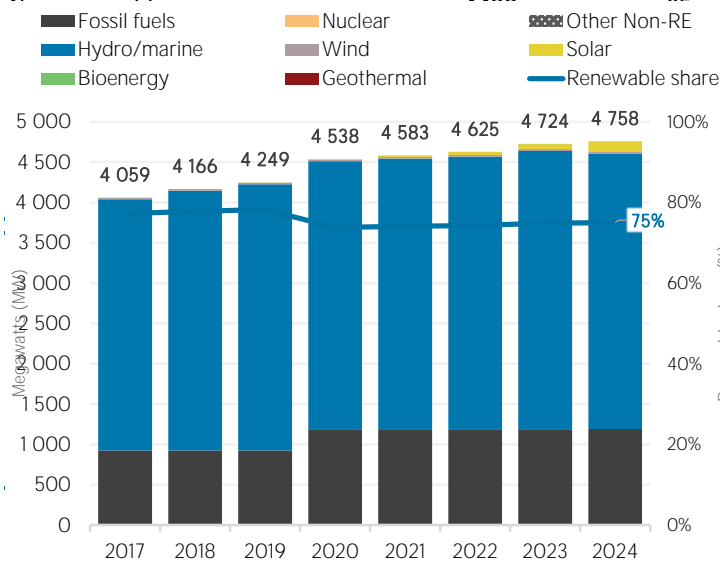
Consumption by sector	2017	2022
Industry (TJ)	10 664	10 735
Transport (TJ)	1 084	690
Households (TJ)	23 204	15 552
Other (TJ)	50 643	59 772

Renewable energy consumption in 2022

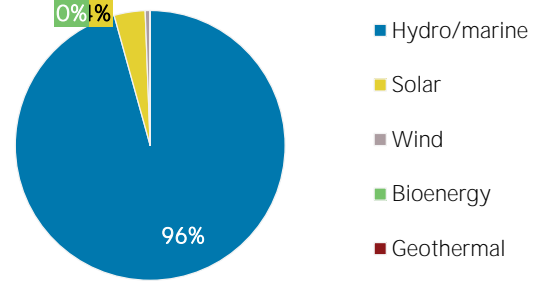


ELECTRICITY CAPACITY

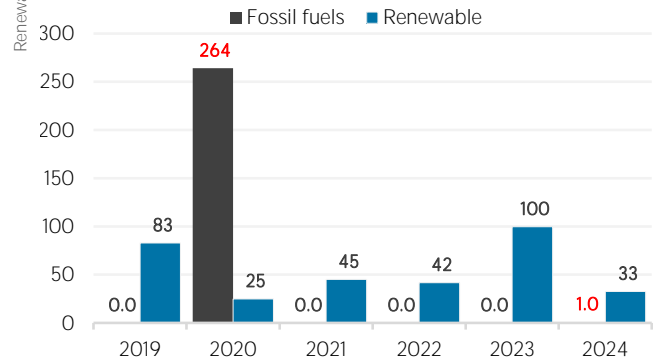
Installed capacity trend



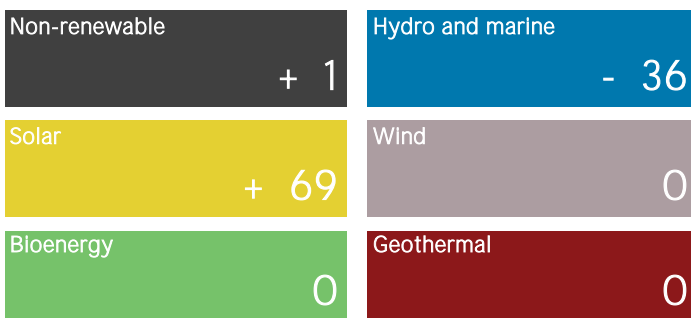
Renewable capacity in 2024



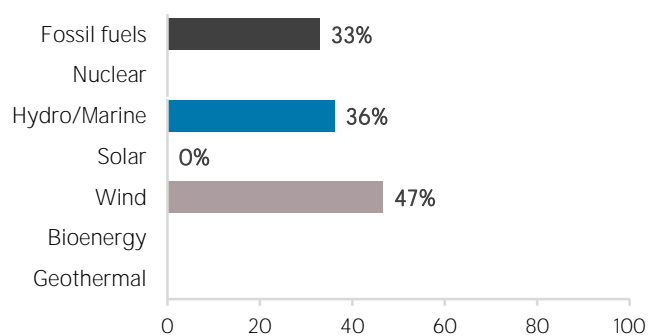
Net capacity change (MW)



Net capacity change in 2024 (MW)



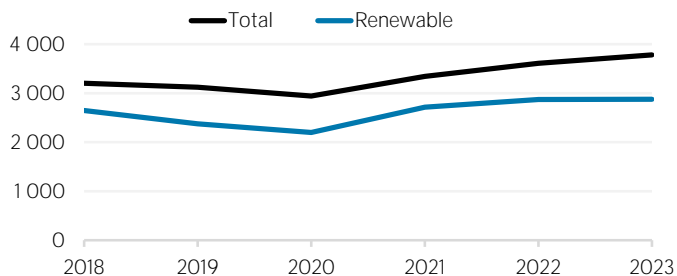
Capacity utilisation in 2023 (%)



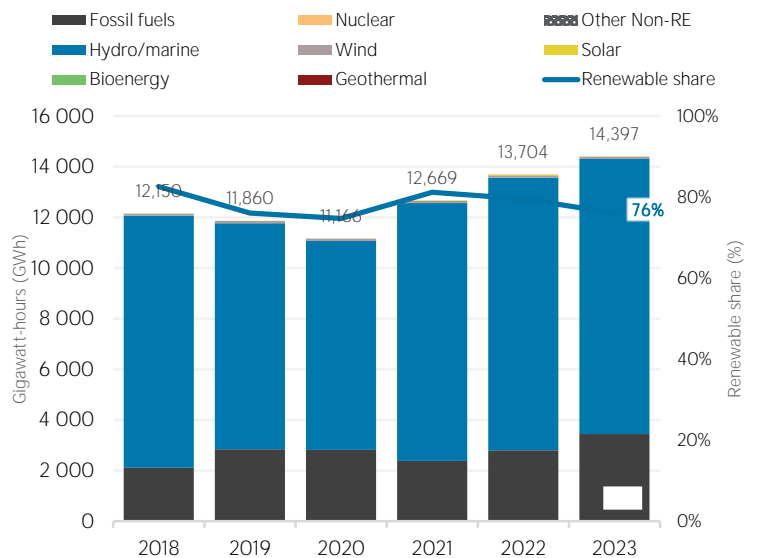
ELECTRICITY GENERATION

Generation in 2023	GWh	%
Non-renewable	3 447	24
Renewable	10 950	76
Hydro and marine	10 863	75
Solar	1	0
Wind	86	1
Bioenergy	0	0
Geothermal	0	0
Total	14 397	100

Per capita electricity generation (kWh)



Electricity generation trend

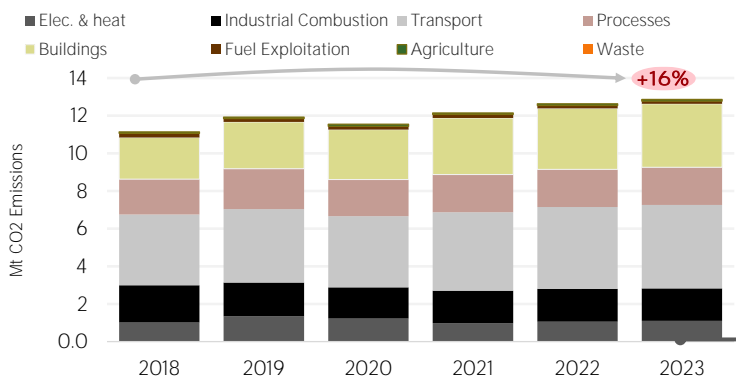


LATEST POLICIES, PROGRAMMES AND LEGISLATION

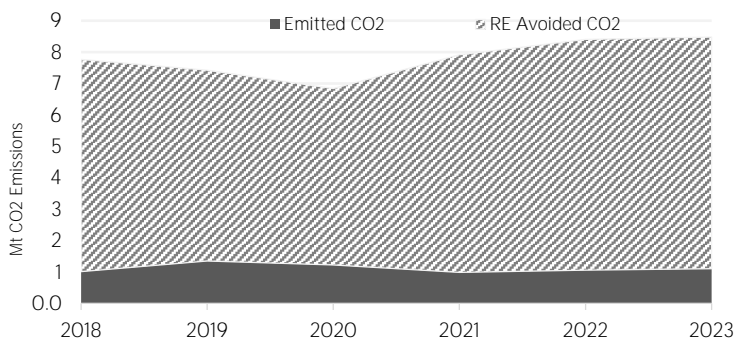
- Climate Change Strategy 2030 and Action Plan for 2021-2023 2021
- Revised/Updated NDC of Georgia 2021
- Ten-Year Network Development Plan of Georgia 2021-2031 2021
- Law of Georgia on Energy Efficiency of Buildings, Directive #2010/31/EU on Energy Performance of Buildings (EPBD) 2020
- Rule for Accounting the Energy Received from Thermal Pumps 2020

ENERGY AND EMISSIONS

CO₂ emissions by sector

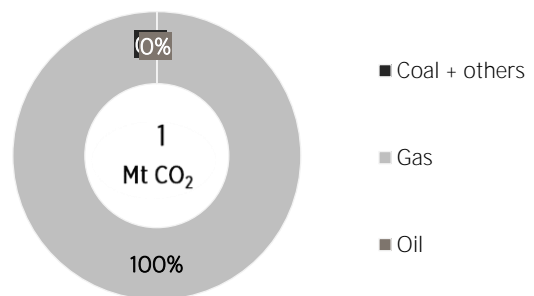


Avoided emissions from renewable elec. & heat

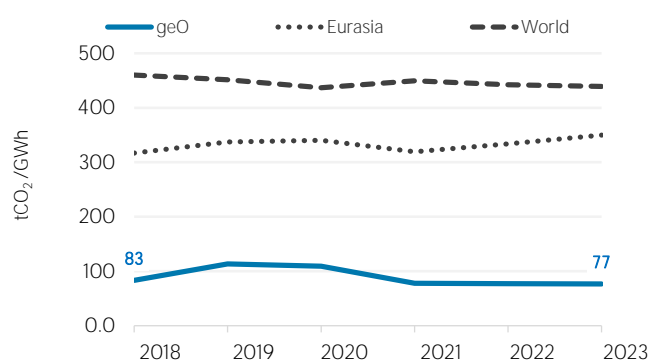


Avoided emissions based on fossil fuel mix used for power

Elec. & heat generation CO₂ emissions in

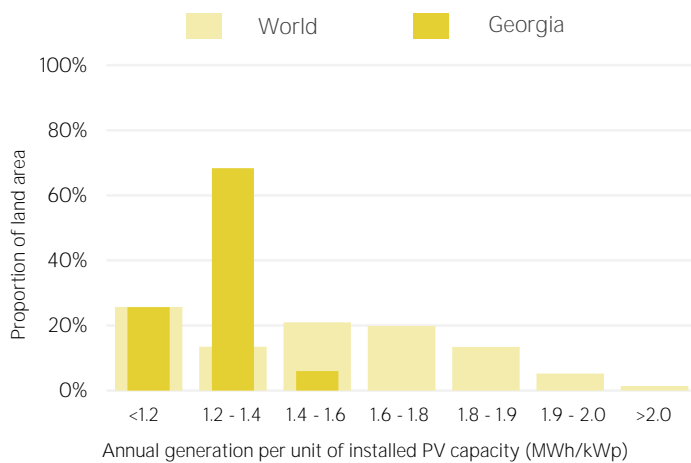


CO₂ emission factor for elec. & heat generation

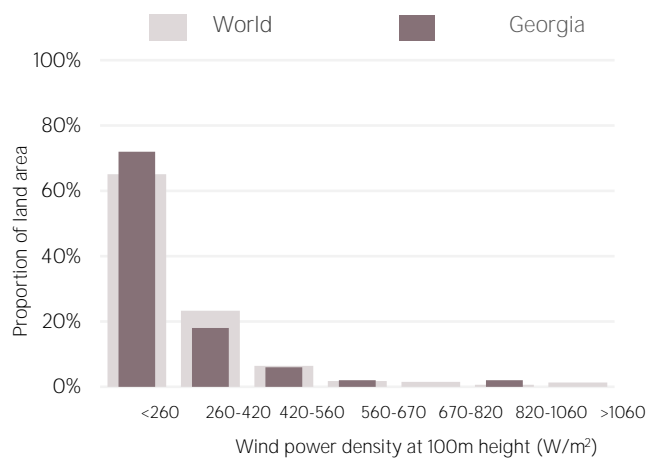


Calculated by dividing power sector emissions by elec. + heat gen.

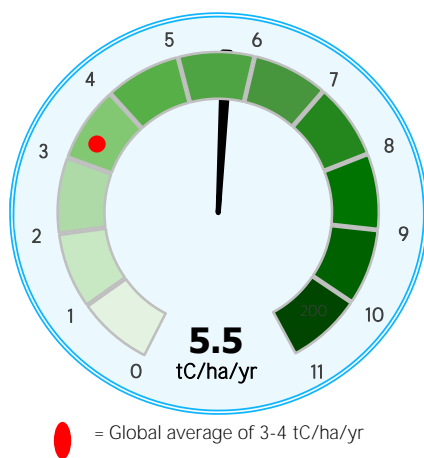
Distribution of solar potential



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/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 $\times 8,760$ h/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