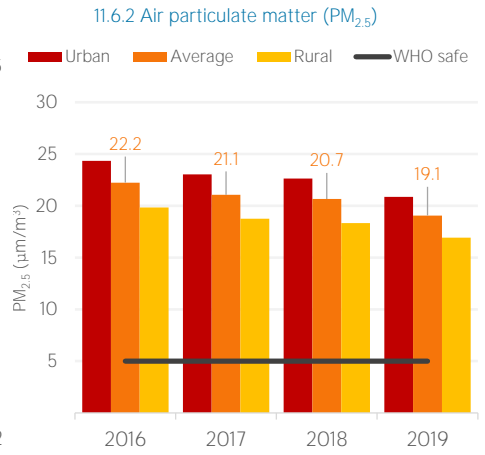
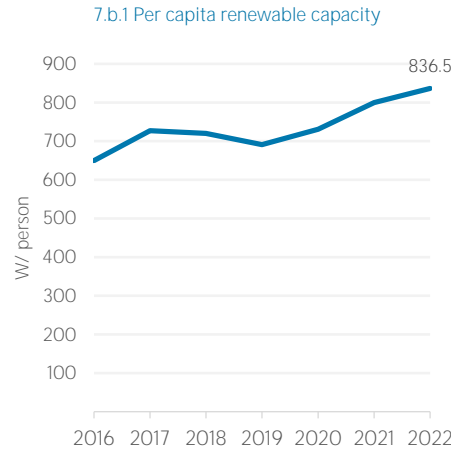
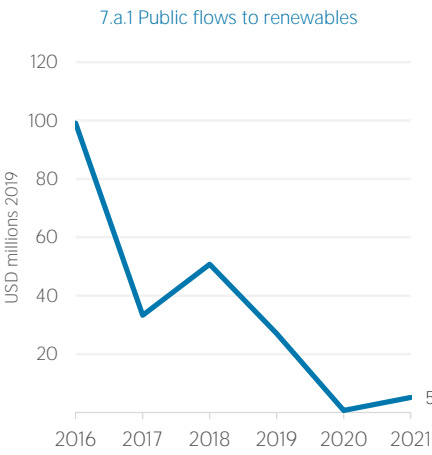
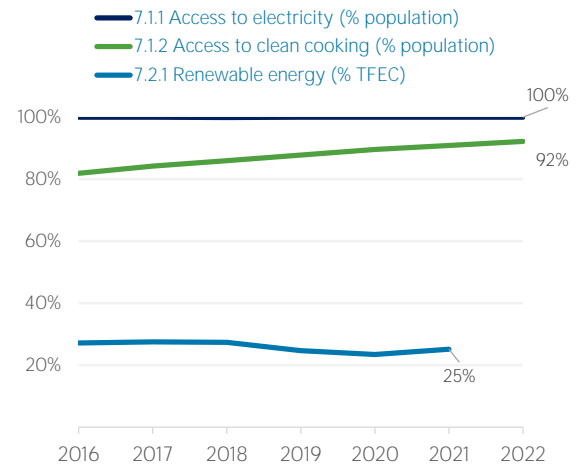
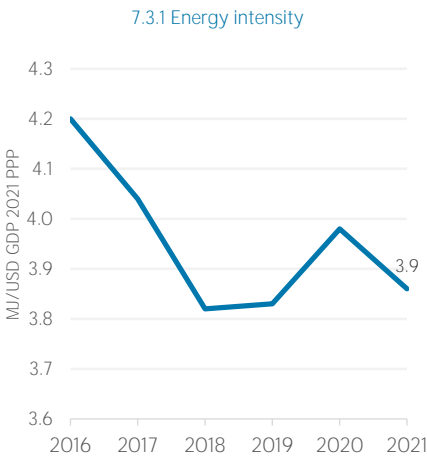
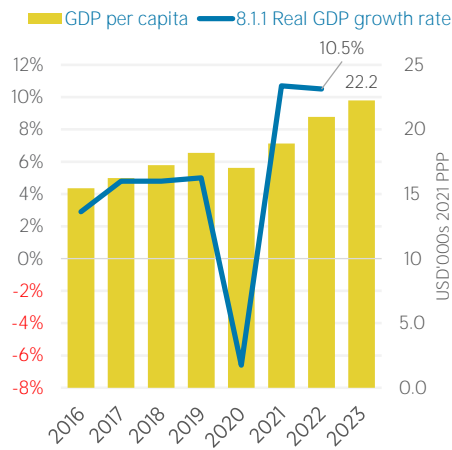


COUNTRY INDICATORS AND SDGs



TOTAL ENERGY SUPPLY (TES)

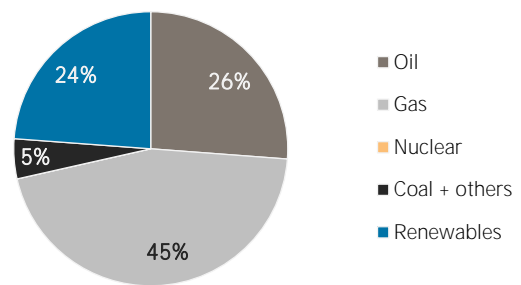
Total Energy Supply (TES)	2016	2021
Non-renewable (TJ)	153 180	169 813
Renewable (TJ)	50 189	53 108
Total (TJ)	203 370	222 921
Renewable share (%)	25	24

Growth in TES	2016-21	2020-21
Non-renewable (%)	+10.9	+3.6
Renewable (%)	+5.8	+3.7
Total (%)	+9.6	+3.6

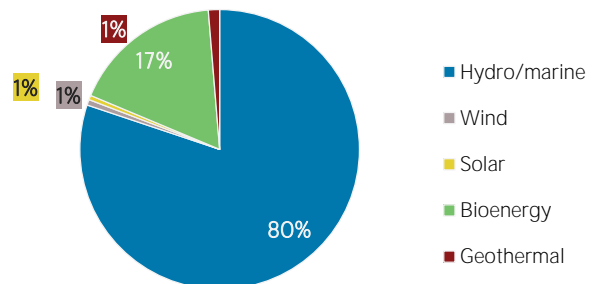
Primary energy trade	2016	2021
Imports (TJ)	159 907	180 658
Exports (TJ)	10 987	6 752
Net trade (TJ)	- 148 920	- 173 906

Imports (% of supply)	79	81
Exports (% of production)	19	13
Energy self-sufficiency (%)	28	24

Total energy supply in 2021

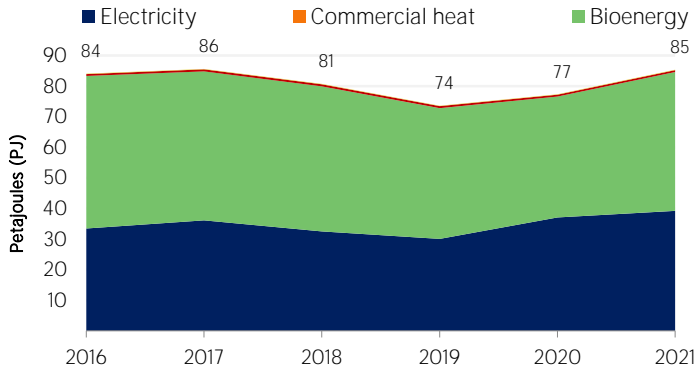


Renewable energy supply in 2021



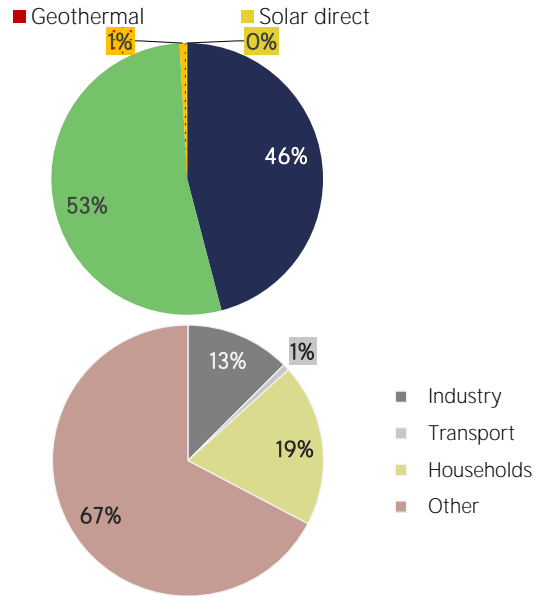
# RENEWABLE ENERGY CONSUMPTION (TFEC)

### Renewable TFEC trend



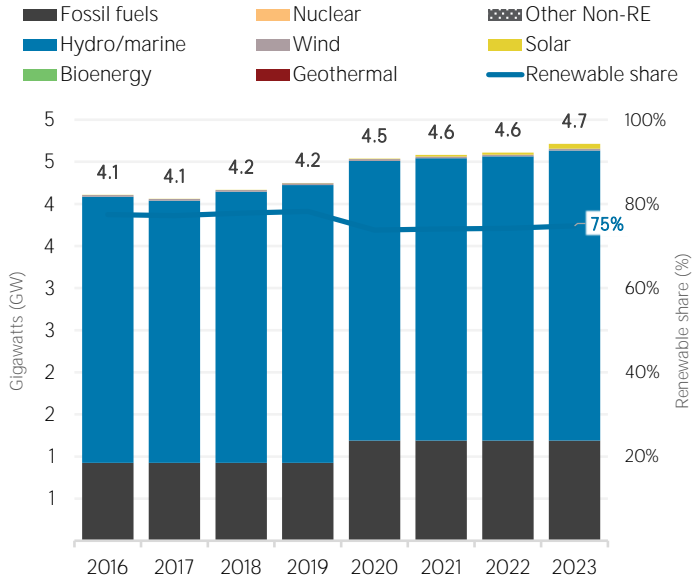
Consumption by sector	2016	2021
Industry (TJ)	9 326	10 690
Transport (TJ)	959	666
Households (TJ)	23 922	16 560
Other (TJ)	49 832	57 426

### Renewable energy consumption in 2021

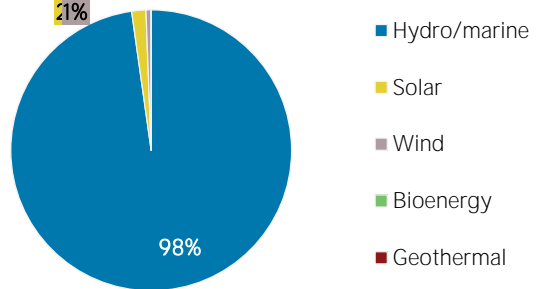


# ELECTRICITY CAPACITY

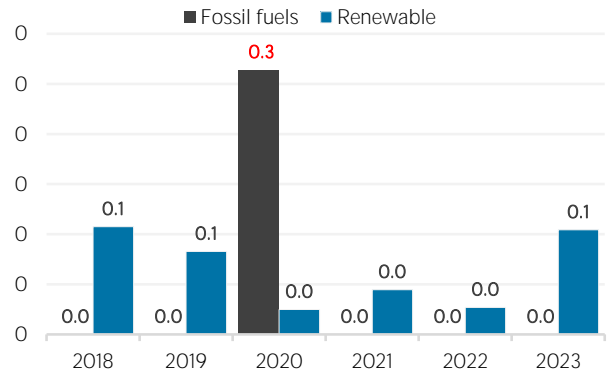
### Installed capacity trend



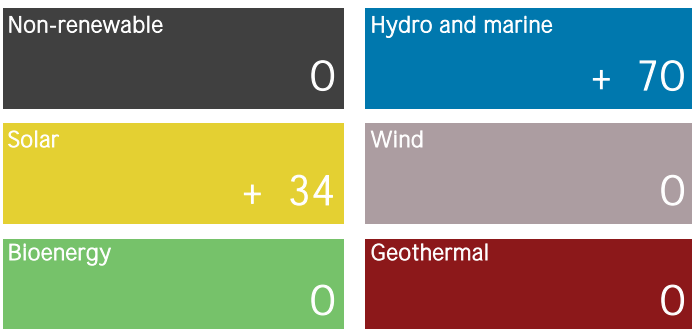
### Renewable capacity in 2023



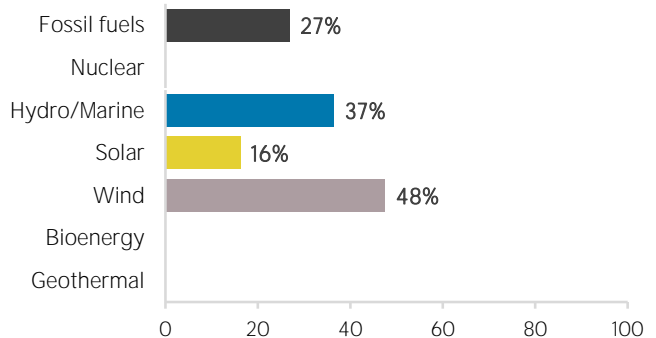
### Net capacity change (GW)



### Net capacity change in 2023 (MW)

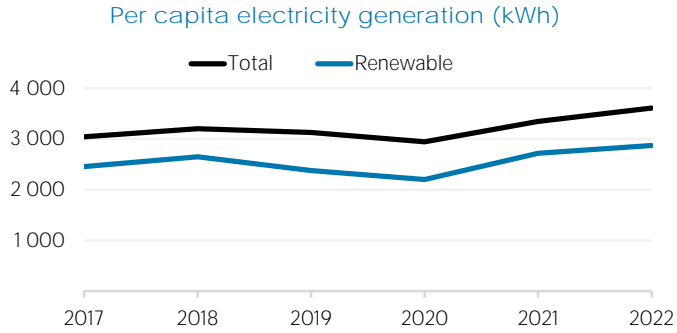


### Capacity utilisation in 2022 (%)

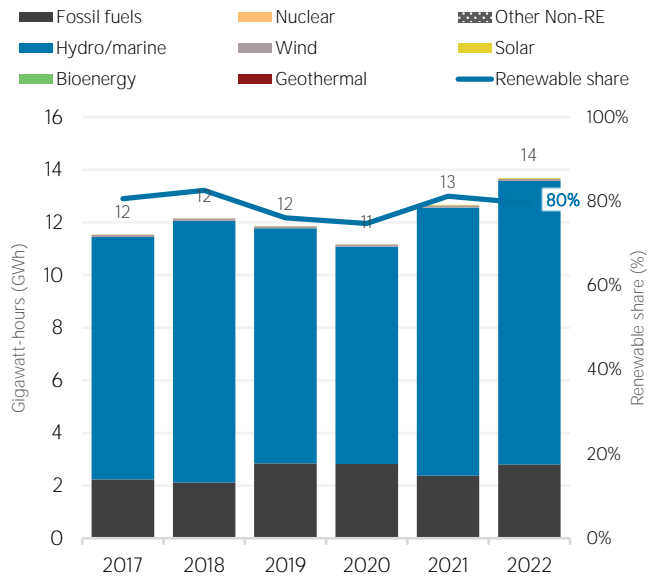


## ELECTRICITY GENERATION

Generation in 2022	GWh	%
<b>Non-renewable</b>	<b>2 800</b>	<b>20</b>
<b>Renewable</b>	<b>10 889</b>	<b>80</b>
Hydro and marine	10 771	79
Solar	30	0
Wind	88	1
Bioenergy	0	0
Geothermal	0	0
<b>Total</b>	<b>13 689</b>	<b>100</b>



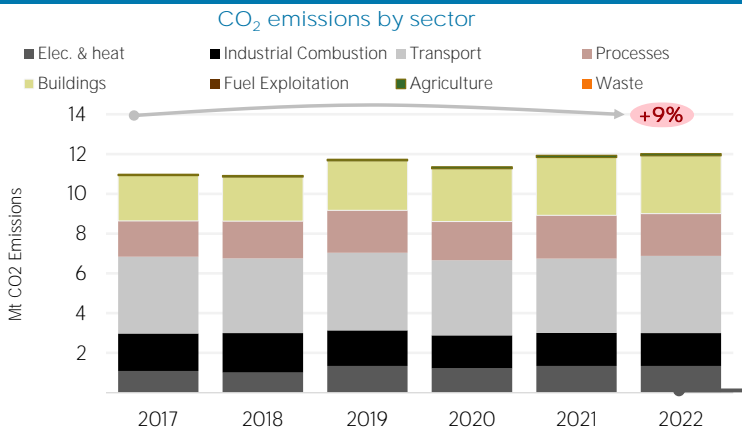
## Electricity generation trend



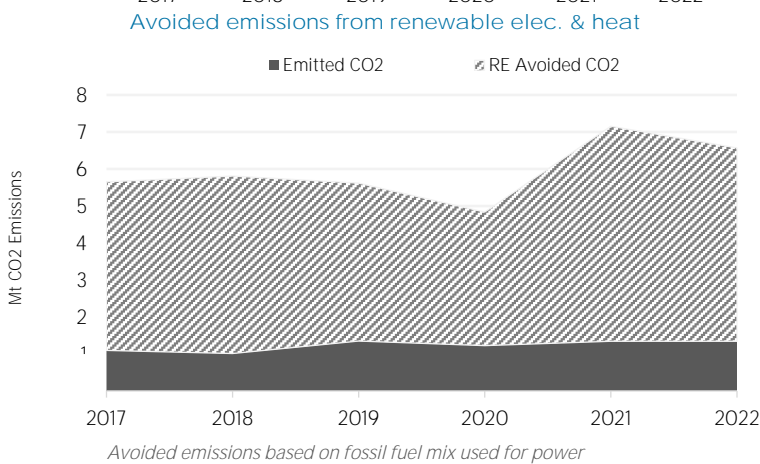
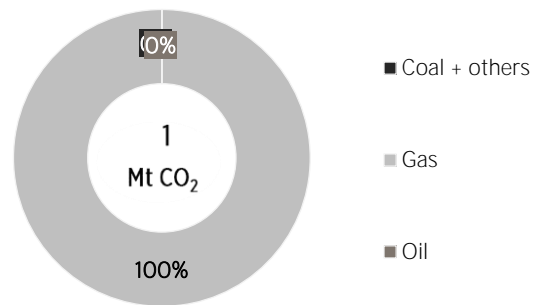
## LATEST POLICIES, PROGRAMMES AND LEGISLATION

- Climate Change Strategy 2030 and Action Plan for 2021-2023 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
- Rule for Normalization of Accounting Electricity generated from Hydro Energy and Wind Energy 2020
- Support Scheme for Renewable (Hydropower) Generation - Resolution 403 2020

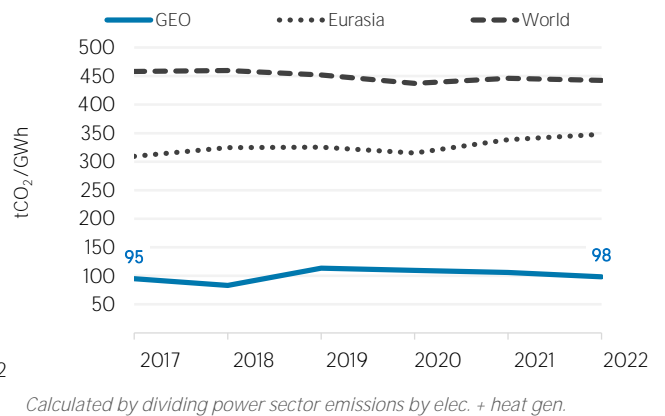
## ENERGY AND EMISSIONS



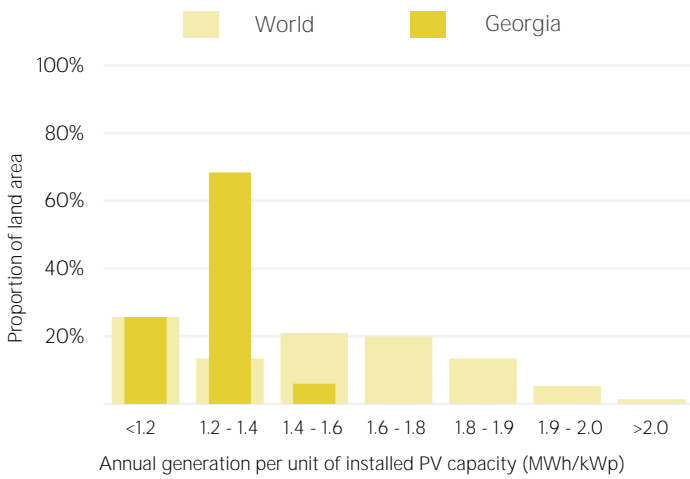
## Elec. & heat generation CO<sub>2</sub> emissions in



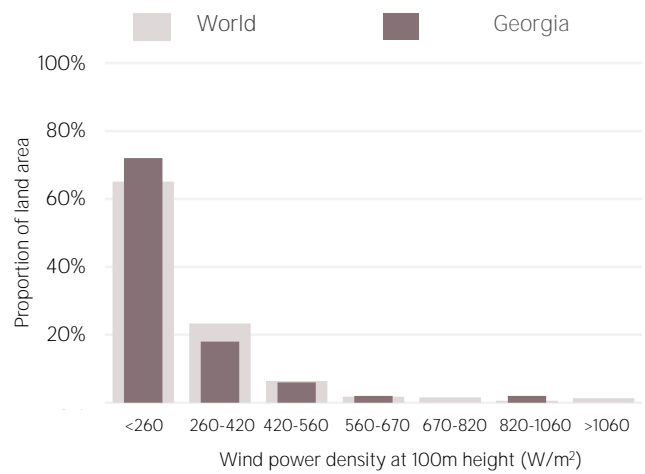
## CO<sub>2</sub> emission factor for elec. & heat generation



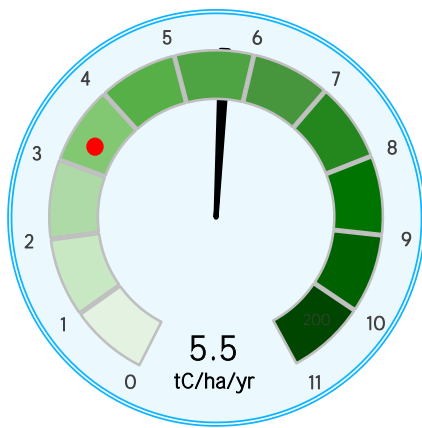
Distribution of solar potential



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 per year.

**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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