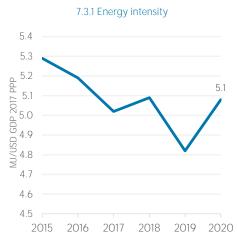
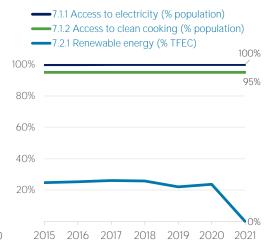
# Republic of Moldova

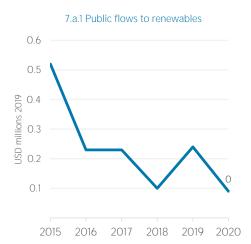


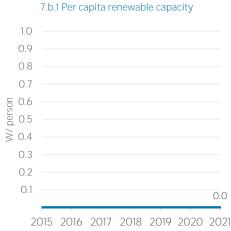
#### COUNTRY INDICATORS AND SDGS

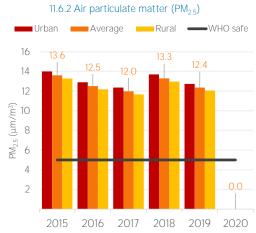












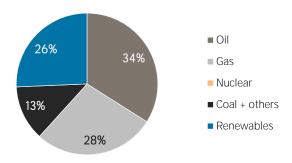
## TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	80 152	86 617
Renewable (TJ)	29 007	29 903
Total (TJ)	109 159	116 521
Renewable share (%)	27	26

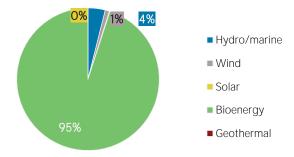
Growth in TES	2015-20	2019-20
Non-renewable (%)	+8.1	-3.8
Renewable (%)	+3.1	+0.3
Total (%)	+6.7	-2.8

Primary energy trade	2015	2020
Imports (TJ)	82 757	88 970
Exports (TJ)	680	653
Net trade (TJ)	- 82 077	- 88 317
Imports (% of supply)	76	76
Exports (% of production)	2	2
Energy self-sufficiency (%)	26	25

#### Total energy supply in 2020



#### Renewable energy supply in 2020

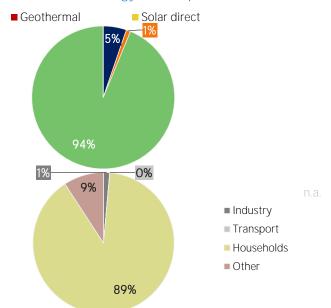


#### RENEWABLE ENERGY CONSUMPTION (TFEC)

#### Renewable TFEC trend

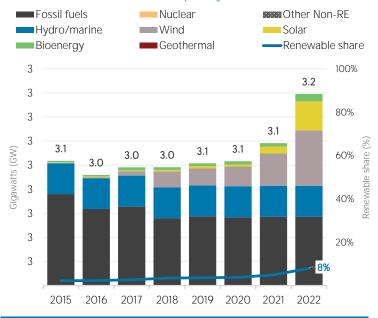
#### ■ Electricity ■ Commercial heat ■ Bioenergy 40 33 35 31 29 30 30 Petajoules (PJ) 25 20 15 10 5 2015 2016 2017 2018 2019 2020 Consumption by sector 2015 2020 296 Industry (TJ) 413 Transport (TJ) 17 12 Households (TJ) 26 122 26 485 2 257 Other (TJ) 2 727

#### Renewable energy consumption in 2020

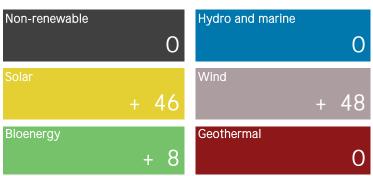


#### **ELECTRICITY CAPACITY**

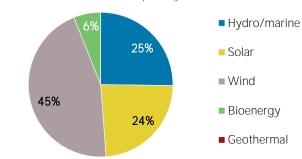
#### Installed capacity trend



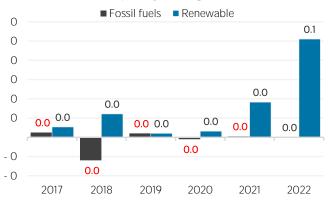




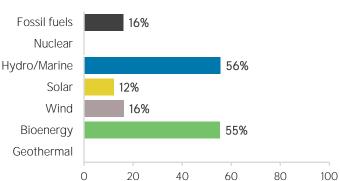
#### Renewable capacity in 2022



#### Net capacity change (GW)



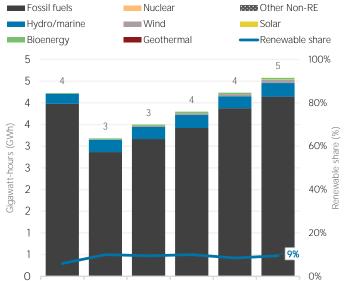
#### Capacity utilisation in 2021 (%)



#### **ELECTRICITY GENERATION**

Generation in 2021	GWh	%
Non-renewable	4 143	91
Renewable	433	9
Hydro and marine	313	7
Solar	10	0
Wind	77	2
Bioenergy	33	1
Geothermal	0	0
Total	4 576	100





2017

2016

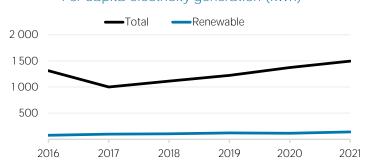
2018

2019

2020

2021

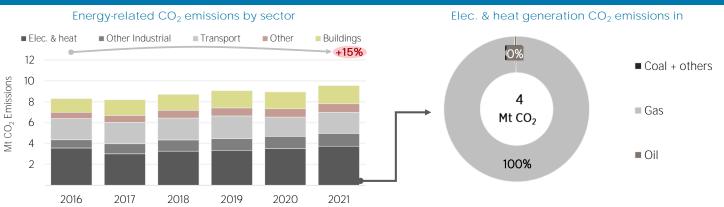
### Per capita electricity generation (kWh)



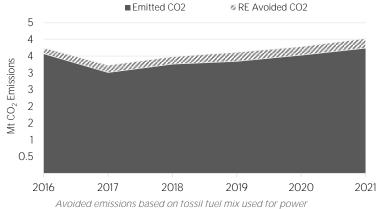
#### LATEST POLICIES, PROGRAMMES AND LEGISLATION

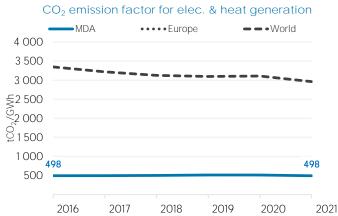
1 Energy auditors and Energy audit	2020
2 Program for the renovation of buildings owned and occupied by central governmental authorities for the period 2020-2022	2020
3 Energy Efficiency Law	2018
4 Law no. 139 on Energy Efficiency	2018
5 Regulation (GD. Of 14.11.2018) on "Periodic inspection of air conditioning systems"	2018

#### **ENERGY AND EMISSIONS**



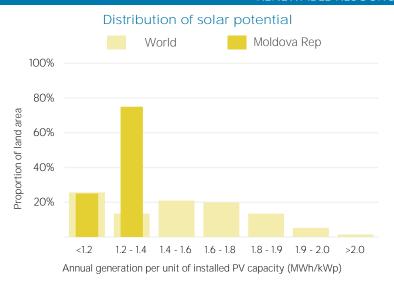
#### Avoided emissions from renewable elec. & heat





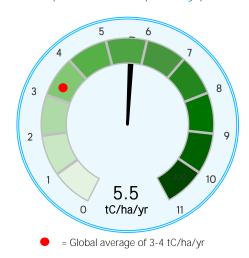
Calculated by dividing power sector emissions by elec. + heat gen.

#### RENEWABLE RESOURCE 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

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.

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