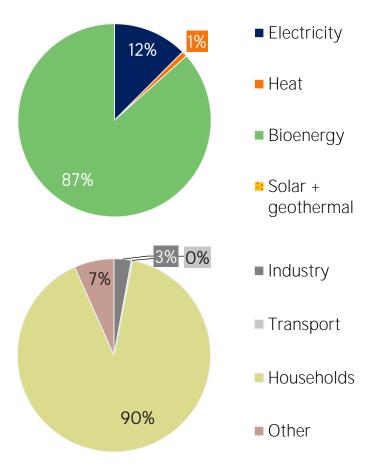
# Republic of Moldova



SUSTAINAI	BLE DEVELOPI	MENT GOAI	7: ENERGY INDICATORS (2018)	
Renewable energy (% of TFEC)		25.7	Access to electricity (% of population)	100.0
Energy efficiency (MJ per \$1 of GDP)		5.1	Access to clean cooking (% of population)	
Public flows renewables (20	018 USD M)	n.a.	Per capita renewable capacity (W/persc	n) n.a.
TOTAL PRIMARY ENERGY SUPPLY (TPES)				
TPES	2013	2018	Total primary energy supply in	2018
Non-renewable (TJ)	74 879	89 459	■ Oil	
Renewable (TJ)	29 024	35 361		
Total (TJ)	103 903	124 821	28% 32% Gas	
Renewable share (%)	28	28	5270	
Growth in TPES	2013-18	2017-18	Nucl	ear
Non-renewable (%)	+19.5	+15.6	12% ■ Coal	+ others
Renewable (%)	+21.8	-6.0	28%	
Total (%)	+20.1	+8.5	Rene	ewables
Primary energy trade	2013	2018	Renewable energy supply in 2018	
Imports (TJ)	77 849	94 334		
Exports (TJ)	1 859	1 153	■ Hydr	ro/marine
Net trade (TJ)	- 75 990	- 93 181	Wind	ł
Imports (% of supply)	75	76		
Exports (% of production)	6	3	Sola	<u>^</u>
Energy self-sufficiency (%)	28	28		porqu
Net trade (USD million)	- 717	- 671	■ Bioe	пегду
Net trade (% of GDP)	-7.6	-5.9		hermal
RENEWABLE ENERGY CONSUMPTION				

Consumption by source	2013	2018
Electricity (TJ)	1550	4 534
Heat (TJ)	153	328
Bioenergy (TJ)	26 937	31 4 4 6
Solar + geothermal (TJ)	0	0
Total (TJ)	28 640	36 308
Electricity share (%)	5	12
Consumption growth	2013-18	2017-18
Renewable electricity (%)	+192.5	+228.3
Other renewables (%)	+17.3	-9.7
Total (%)	+26.8	-0.7
Consumption by sector	2013	2018
Industry (TJ)	449	1046
Transport (TJ)	25	85
Households (TJ)	27 198	32 756
Other (TJ)	968	2 420
Renewable share of TFEC	23.8	25.7

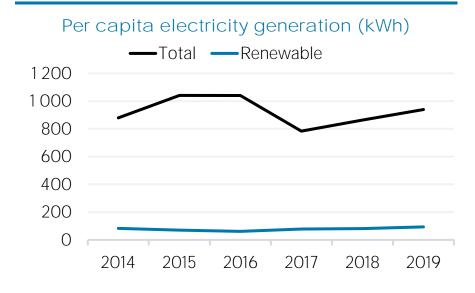




# ELECTRICITY CAPACITY AND GENERATION

Capacity in 2020	MW	%
Non-renewable	2 944	96
Renewable	110	4
Hydro/marine	64	2
Solar	5	0
Wind	35	1
Bioenergy	6	0
Geothermal	0	0
Total	3 054	100
Capacity change (%)	2015-20	2019-20
Capacity change (%)	2015-20	2019-20
Capacity change (%) Non-renewable	2015-20 - <b>2</b>	2019-20 0.0
Capacity change (%) Non-renewable Renewable	2015-20 - 2 + 59	2019-20 0.0 0.0
Capacity change (%) Non-renewable Renewable Hydro/marine	2015-20 - 2 + 59 + 0	2019-20 0.0 0.0 0.0
Capacity change (%) Non-renewable Renewable Hydro/marine Solar	2015-20 - 2 + 59 + 0 + 400	2019-20 0.0 0.0 0.0 0.0
Capacity change (%) Non-renewable Renewable Hydro/marine Solar Wind	2015-20 - 2 + 59 + 0 + 400 + 3 400	2019-20 0.0 0.0 0.0 0.0 0.0

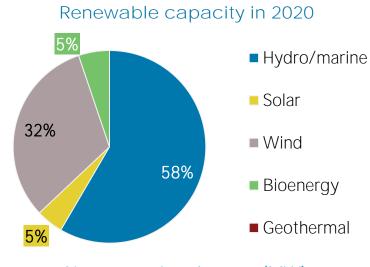
Net capacity change in 2020 (MW) Non-renewable Hydro and marine 0  $\left( \right)$ Wind **Bioenergy** Geothermal  $\mathbb{C}$ 0 Generation in 2019 GWh % Non-renewable 3 4 2 0 90 Renewable 378 10 Hydro and marine 301 8 Solar 3 0 Wind 43 1 31 Bioenergy 1 Geothermal 0 0



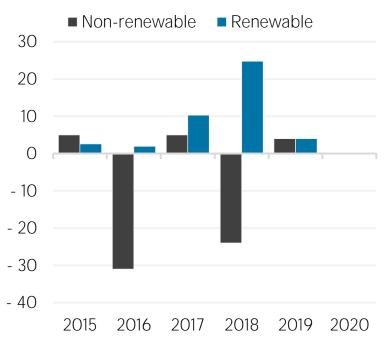
Total

3 798

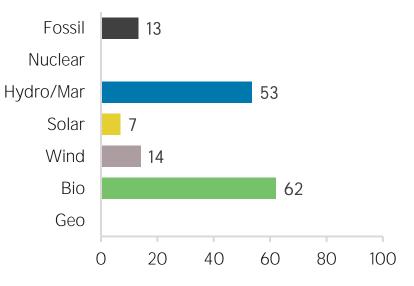
100



#### Net capacity change (MW)

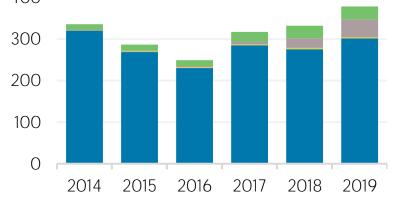


## Capacity utilisation in 2019 (%)



### Renewable generation (GWh)

■ Hydro/marine ■ Solar ■ Wind ■ Bio ■ Geo 400



## TARGETS, POLICIES AND MEASURES

#### Most immediate clean energy targets & NDCs

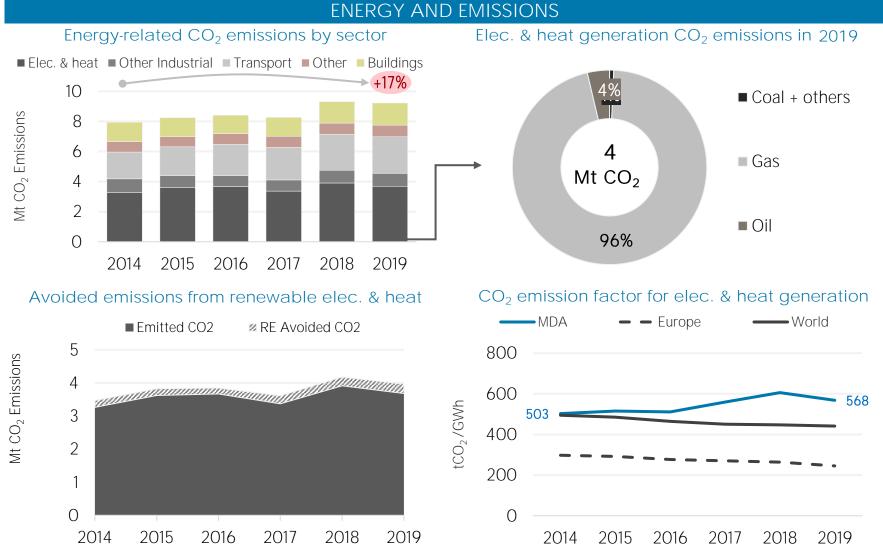
Most infinediate crean chergy targets & NDCS		
	year	target
Renewable energy:	2020	20 %
Renewable electricity:	2020	10 %
Renewable capacity:		
Renewable transport:	2020	10 %
Liquid Biofuel blending mandate:		
Other transport targets:		
Renewable heating/cooling:	2020	27.19 %
Renewable Hydropower		
Off-grid renewable technologies:		
Energy efficiency (Energy):		
Energy efficiency (Electricity):		

# Latest policies, programmes and legislation

1 Energy auditors and Energy audit	2020
2 Energy Efficiency Law	2018
3 Law no. 139 on Energy Efficiency	2018
4 Regulation (GD. Of 14.11.2018) on "Periodic inspection of air conditioning systems"	2018
5 Building Code (CP G.04.05:2017)	2017

# References to sustainable energy in Nationally Determined Contribution (NDC)

		Conditional	Unconditional	unit
-	Renewable energy			
	- electricity			
	- transport			
	- heating/cooling			
-	Energy efficiency			

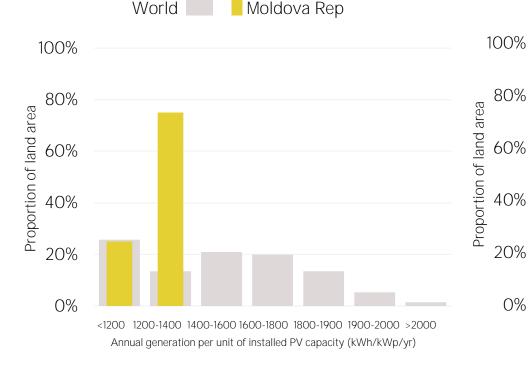


Avoided emissions based on fossil fuel mix used for power

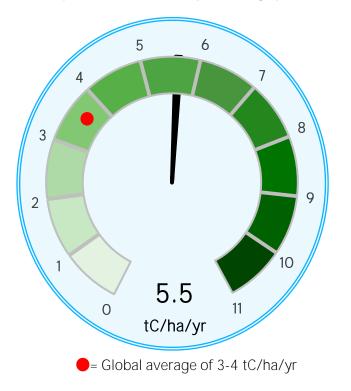
Calculated by dividing power sector emissions by elec. + heat gen.

#### RENEWABLE RESOURCE POTENTIAL

Distribution of solar potential



## Biomass potential: net primary production





IRENA Headquarters Masdar City P.O. Box 236, Abu Dhabi United Arab Emirates www.irena.org

#### 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 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.

Last updated on: 29th September, 2021



