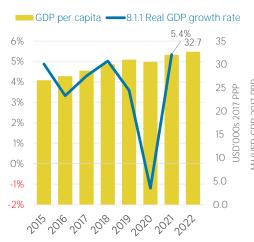
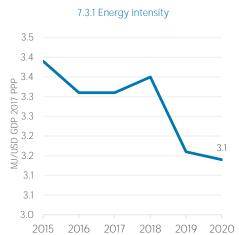
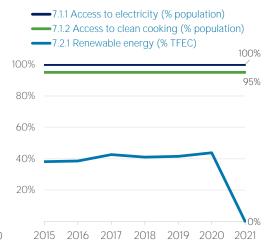
Latvia



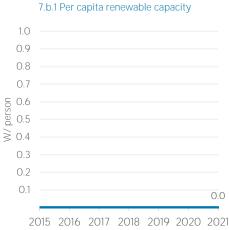
COUNTRY INDICATORS AND SDGS

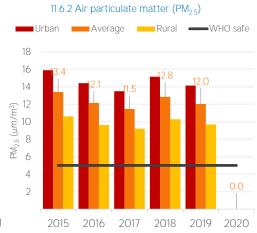






7.a.1 Public flows to renewables 1.0 0.9 0.8 0.7 USD millions 2019 0.6 0.5 0.4 0.3 0.2 0.1 0 2015 2016 2017 2018 2019 2020





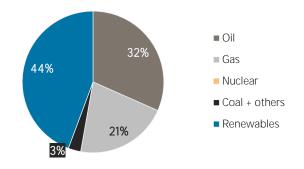
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	110 467	100 175
Renewable (TJ)	70 981	79 753
Total (TJ)	181 448	179 929
Renewable share (%)	39	44

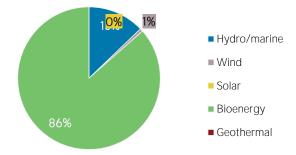
Growth in TES	2015-20	2019-20
Non-renewable (%)	-9.3	-8.9
Renewable (%)	+12.4	-O.7
Total (%)	-0.8	-5.4

Primary energy trade	2015	2020
Imports (TJ)	189 939	166 018
Exports (TJ)	89 929	78 058
Net trade (TJ)	- 100 010	- 87 960
Imports (% of supply)	105	92
Exports (% of production)	90	69
Energy self-sufficiency (%)	55	63

Total energy supply in 2020

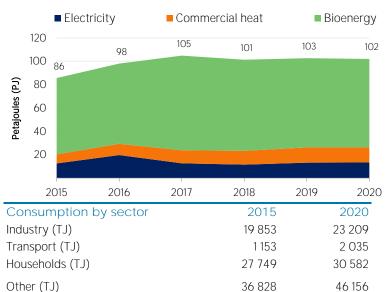


Renewable energy supply in 2020

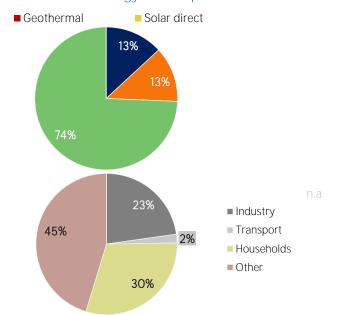


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

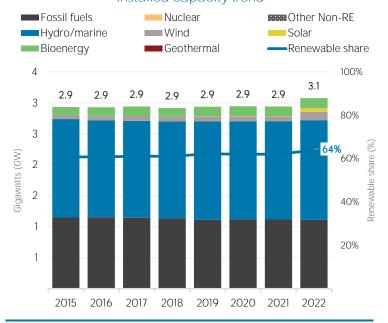


Renewable energy consumption in 2020



ELECTRICITY CAPACITY

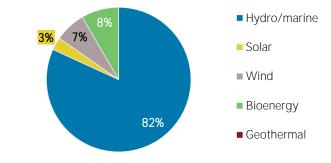
Installed capacity trend



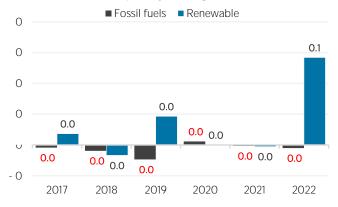




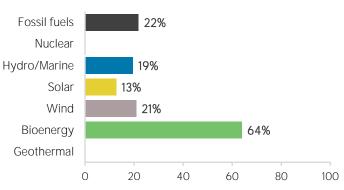
Renewable capacity in 2022



Net capacity change (GW)



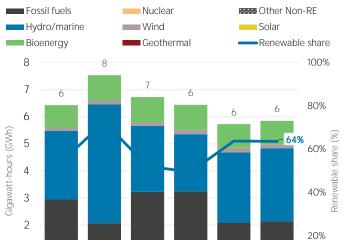
Capacity utilisation in 2021 (%)



ELECTRICITY GENERATION

Generation in 2021	GWh	%
Non-renewable	2 128	36
Renewable	3 718	64
Hydro and marine	2 708	46
Solar	7	0
Wind	141	2
Bioenergy	862	15
Geothermal	0	0
Total	5 846	100



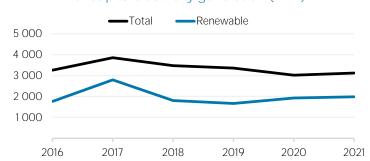


0%

2021

Electricity generation trend

Per capita electricity generation (kWh)



LATEST POLICIES, PROGRAMMES AND LEGISLATION

0

2016

2017

2018

2019

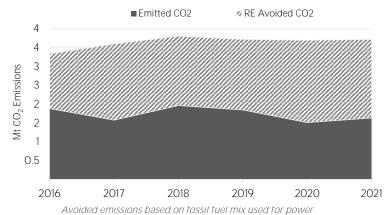
2020

1 Electricity bill reductions for protected users	2023
2 EUR 41.9 million for modernisation of electricity grids	2023
3 Energy efficiency of apartment buildings 2022-2026	2022
4 Temporary household heating subsidies	2022
5 Temporary reduction in electricity, gas and heating distribution tariffs	2022

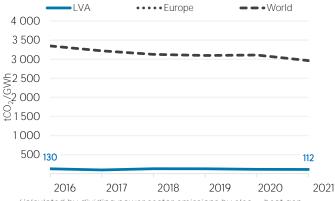
ENERGY AND EMISSIONS

Elec. & heat generation CO₂ emissions in Energy-related CO₂ emissions by sector Buildings ■ Elec. & heat ■ Other Industrial ■ Transport ■ Other -6% 10 ■ Coal + others Mt CO₂ Emissions 8 2 6 ■ Gas Mt CO₂ 4 ■ Oil 2 99% 2016 2017 2018 2019 2020 2021





CO₂ emission factor for elec. & heat generation



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

RENEWABLE RESOURCE POTENTIAL

100%

80%

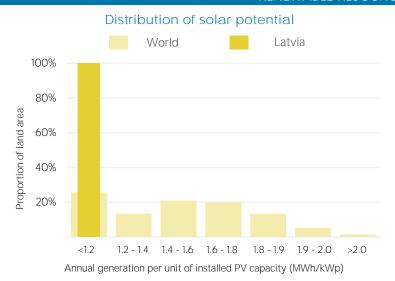
60%

40%

20%

< 260

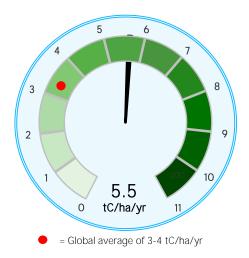
Proportion of land area



Distribution of wind potential World Latvia

260-420 420-560 560-670 670-820 820-1060 >1060 Wind power density at 100m height (W/m²)

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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