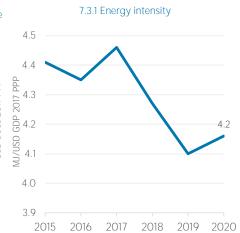
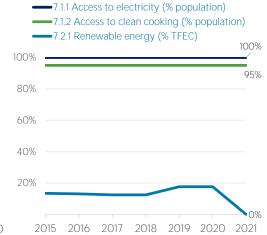
Slovakia

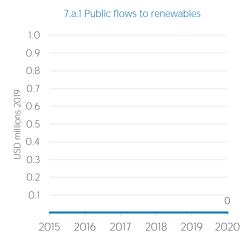


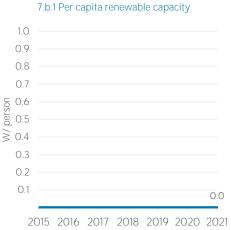
COUNTRY INDICATORS AND SDGS

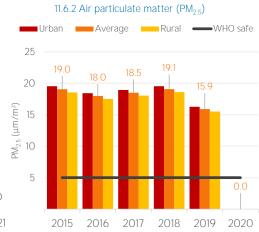












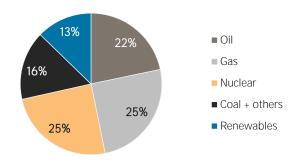
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	606 296	595 386
Renewable (TJ)	70 189	86 909
Total (TJ)	676 485	682 294
Renewable share (%)	10	13

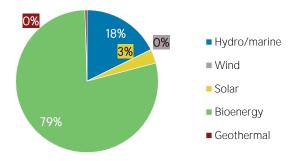
Growth in TES	2015-20	2019-20
Non-renewable (%)	-1.8	-2.9
Renewable (%)	+23.8	-6.1
Total (%)	+0.9	-3.3

2015	2020
648 043	593 858
240 927	207 471
- 407 116	- 386 387
96	87
90	74
39	41
	648 043 240 927 - 407 116 96 90

Total energy supply in 2020

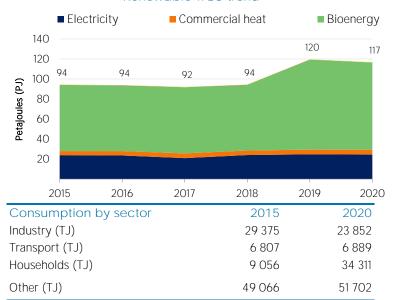


Renewable energy supply in 2020

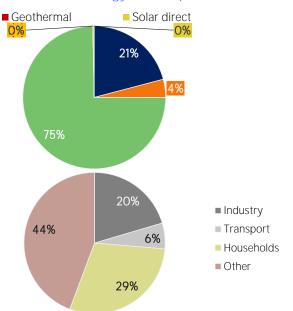


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

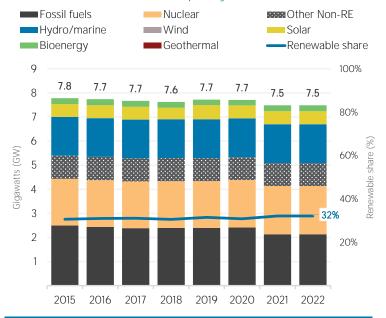


Renewable energy consumption in 2020

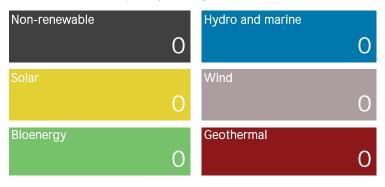


ELECTRICITY CAPACITY

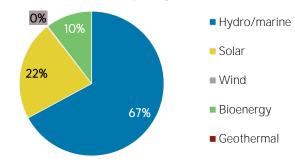
Installed capacity trend



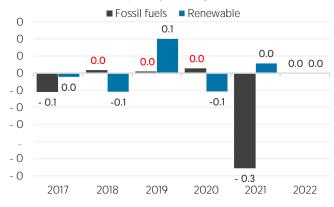




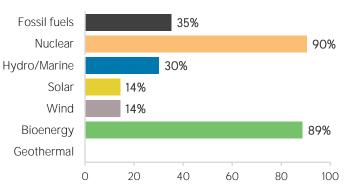
Renewable capacity in 2022



Net capacity change (GW)



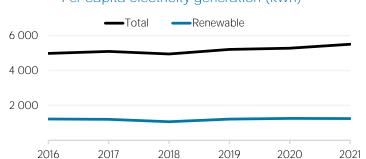
Capacity utilisation in 2021 (%)

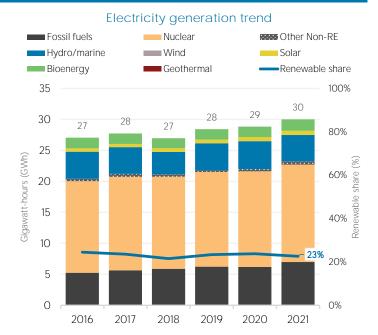


ELECTRICITY GENERATION

Generation in 2021	GWh	%
Non-renewable	23 238	77
Renewable	6 778	23
Hydro and marine	4 258	14
Solar	671	2
Wind	5	0
Bioenergy	1844	6
Geothermal	0	0
Total	30 016	100







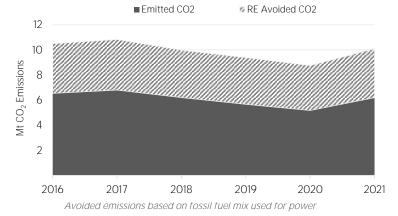
LATEST POLICIES, PROGRAMMES AND LEGISLATION

1 Compensation for electricity and gas providers of small off-takers	2023
2 Electricity and gas price caps for households	2023
3 Electricity and gas price caps for small energy off-takers	2023
4 EUR 10 million for private sector investment in solar PV plants	2023
5 Freezing of tariff for electricity transmission losses	2023

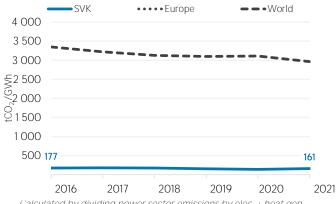
ENERGY AND EMISSIONS

Elec. & heat generation CO₂ emissions in Energy-related CO₂ emissions by sector Buildings ■ Elec. & heat ■ Other Industrial ■ Transport ■ Other +6% 40 ■ Coal + others 35 30 6 25 39% ■ Gas 56% Mt CO₂ 20 15 10 ■ Oil 5 2016 2017 2018 2019 2020 2021



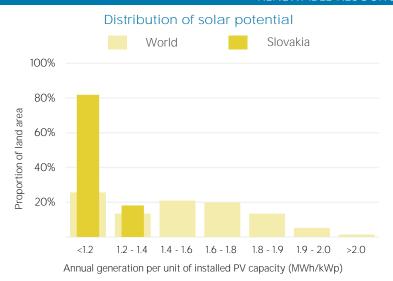


CO₂ emission factor for elec. & heat generation



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

RENEWABLE RESOURCE POTENTIAL



World Slovakia 100% 80% 60% 40% 20%

260-420 420-560 560-670 670-820 820-1060 >1060

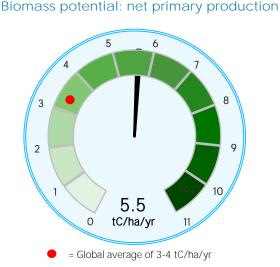
Wind power density at 100m height (W/m²)

Distribution of wind potential

Indicators of renewable resource potential

<260

n



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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