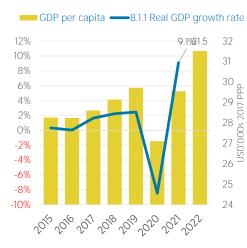
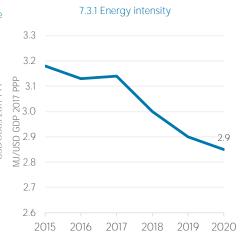
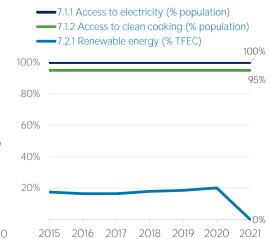
Greece



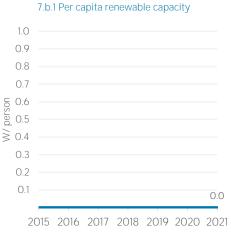
COUNTRY INDICATORS AND SDGS

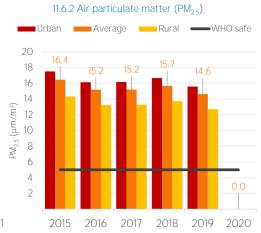






7.a.1 Public flows to renewables 1.0 0.9 0.8 0.7 USD millions 2019 0.6 0.5 0.4 0.3 0.2 0.1 0 2015 2016 2017 2018 2019 2020





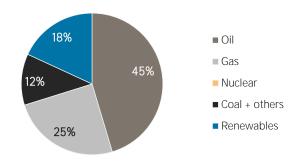
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	838 923	681 345
Renewable (TJ)	128 488	150 800
Total (TJ)	967 412	832 145
Renewable share (%)	13	18
-	·	

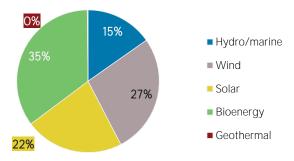
Growth in TES	2015-20	2019-20
Non-renewable (%)	-18.8	-13.2
Renewable (%)	+17.4	+11.8
Total (%)	-14.0	-9.6

Primary energy trade	2015	2020
Imports (TJ)	1 461 171	1 557 770
Exports (TJ)	696 798	813 814
Net trade (TJ)	- 764 373	- 743 956
Imports (% of supply)	151	187
Exports (% of production)	195	393
Energy self-sufficiency (%)	37	25

Total energy supply in 2020



Renewable energy supply in 2020

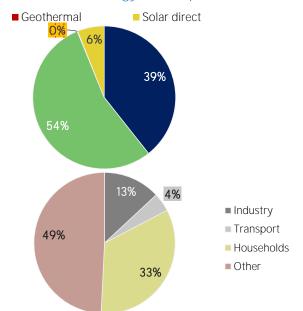


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

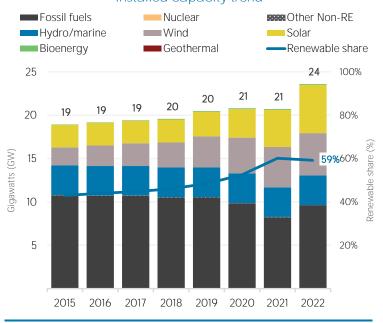
■ Electricity ■ Commercial heat ■ Bioenergy 250 203 181 200 172 176 168 Petajoules (PJ) 150 100 50 2018 2015 2016 2017 2019 2020 2020 Consumption by sector 2015 Industry (TJ) 21 614 26 458 Transport (TJ) 6 335 8 627 Households (TJ) 63 569 67 772 Other (TJ) 80 685 99 692

Renewable energy consumption in 2020

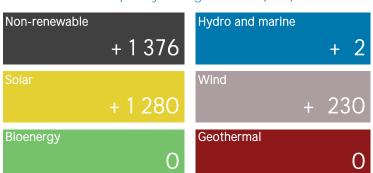


ELECTRICITY CAPACITY

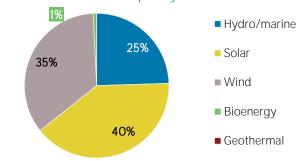
Installed capacity trend



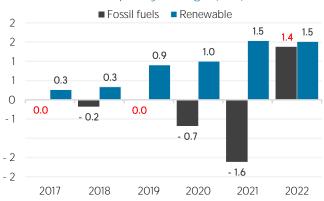




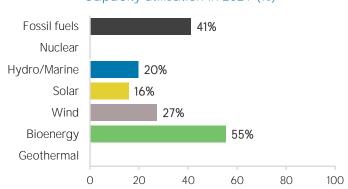
Renewable capacity in 2022



Net capacity change (GW)



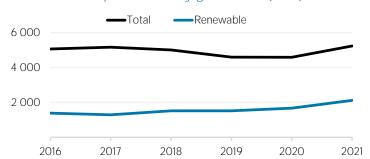
Capacity utilisation in 2021 (%)

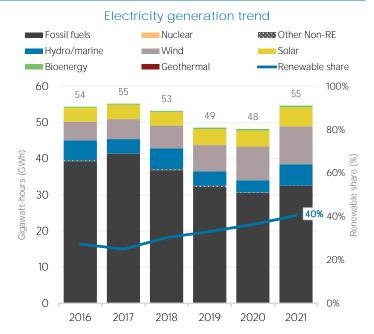


ELECTRICITY GENERATION

Generation in 2021	GWh	%
Non-renewable	32 578	60
Renewable	22 137	40
Hydro and marine	5 903	11
Solar	5 251	10
Wind	10 483	19
Bioenergy	499	1
Geothermal	Ο	0
Total	54 715	100







LATEST POLICIES, PROGRAMMES AND LEGISLATION

1 National measures against soaring energy prices	2023
2 Photovoltaics on the Roof programme	2023
3 Recycle - Change Water Heaters programme	2023
4 Fuel pass I & II	2022
5 Antonis Tritsis Programme	2021

ENERGY AND EMISSIONS

Elec. & heat generation CO₂ emissions in Energy-related CO₂ emissions by sector Buildings ■ Elec. & heat ■ Other Industrial ■ Transport ■ Other -23% 80 23% 70 40% 60 20 50 Mt CO₂ 40 30 20 37% 10

2020

2021

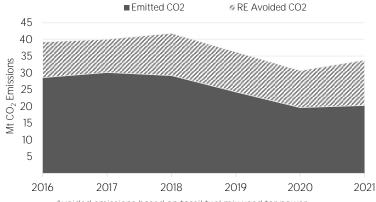


2019

2018

2016

2017



Avoided emissions based on tossil tuel mix used for power

CO₂ emission factor for elec. & heat generation

■ Coal + others

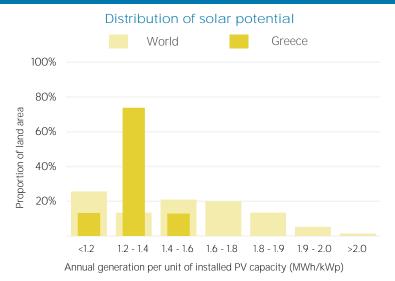
■ Gas

■ Oil

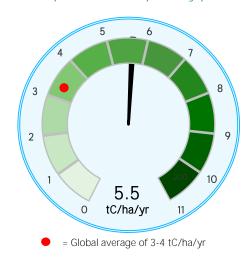


Calculated by dividing power sector emissions by elec. + heat gen.

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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