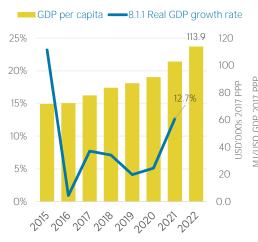
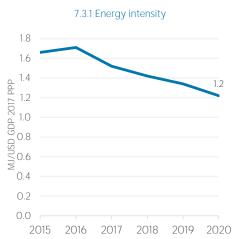
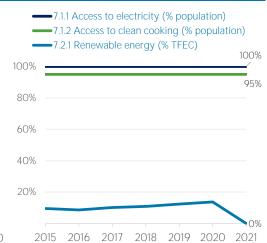
Ireland

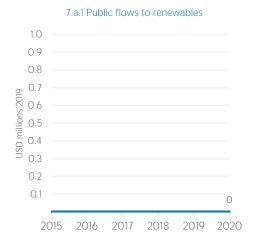


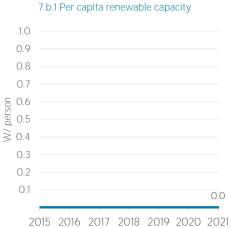
COUNTRY INDICATORS AND SDGS

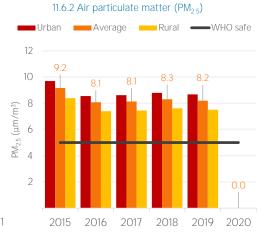












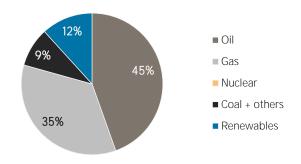
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	512 701	484 081
Renewable (TJ)	43 840	64 372
Total (TJ)	556 541	548 453
Renewable share (%)	8	12

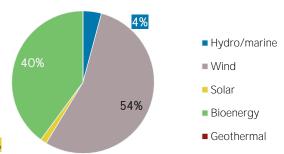
Growth in TES	2015-20	2019-20
Non-renewable (%)	-5.6	-4.6
Renewable (%)	+46.8	-11.5
Total (%)	-1.5	-5.4

Primary energy trade	2015	2020
Imports (TJ)	612 245	486 256
Exports (TJ)	78 243	71 496
Net trade (TJ)	- 534 002	- 414 760
Imports (% of supply)	110	89
Exports (% of production)	99	52
Energy self-sufficiency (%)	14	25

Total energy supply in 2020



Renewable energy supply in 2020

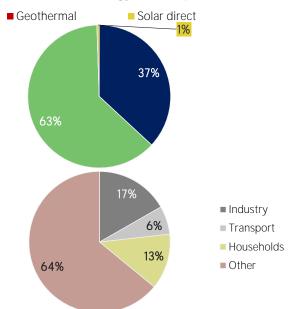


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

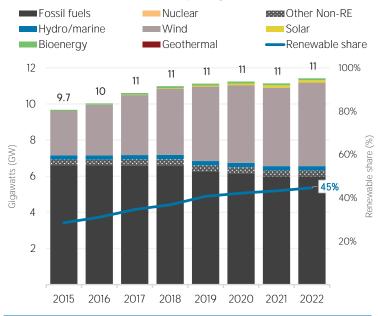
■ Electricity ■ Commercial heat ■ Bioenergy 140 114 113 120 102 100 Petajoules (PJ) 78 72 80 60 40 20 2020 2015 2016 2017 2018 2019 Consumption by sector 2020 2015 Industry (TJ) 14 429 18 957 Transport (TJ) 3 640 7 365 Households (TJ) 10 136 14 422 43 987 Other (TJ) 72 605

Renewable energy consumption in 2020



ELECTRICITY CAPACITY

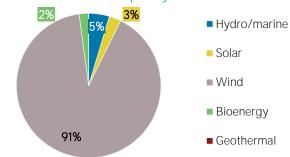
Installed capacity trend



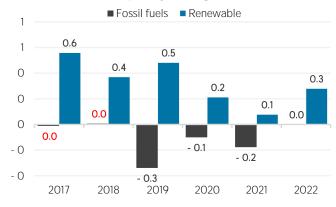




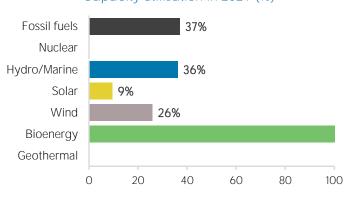
Renewable capacity in 2022



Net capacity change (GW)



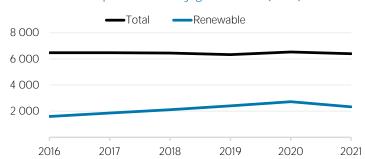
Capacity utilisation in 2021 (%)

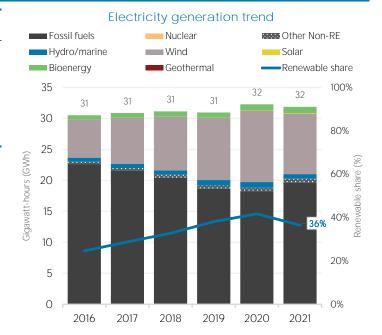


ELECTRICITY GENERATION

Generation in 2021	GWh	%
Non-renewable	20 259	64
Renewable	11 614	36
Hydro and marine	749	2
Solar	93	0
Wind	9 776	31
Bioenergy	995	3
Geothermal	0	0
Total	31 872	100



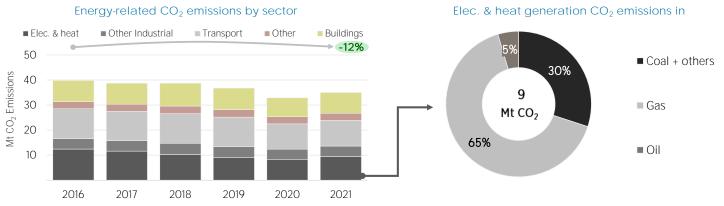




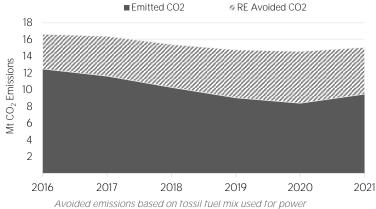
LATEST POLICIES, PROGRAMMES AND LEGISLATION

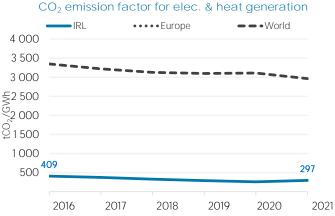
1 Support Scheme for Renewable Heat - Expanded grants	2023
2 A nationwide campaign to encourage energy efficiency and highlight available supports	2022
3 EUR 505 million package in measures to mitigate the cost of transport	2022
4 National Energy Security Framework	2022
5 National Retrofitting Scheme	2022

ENERGY AND EMISSIONS



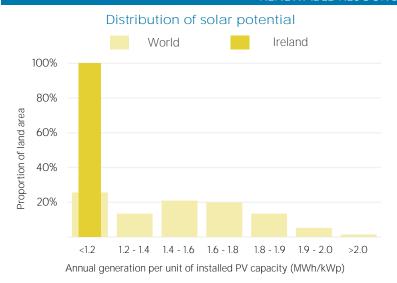




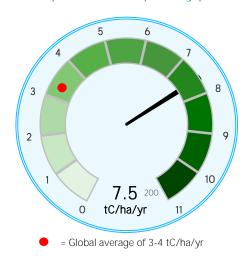


Calculated by dividing power sector emissions by elec. + heat gen.

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.

Last updated on: 8th August, 2023



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