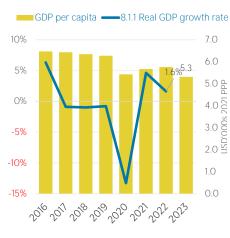
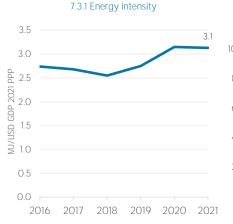
ENERGY PROFILE

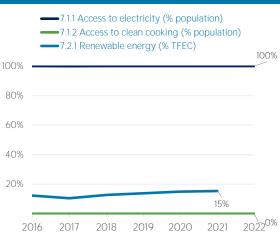
State of Palestine

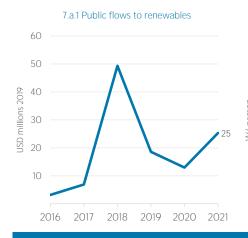
COUNTRY INDICATORS AND SDGS

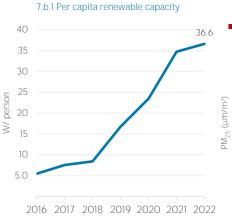




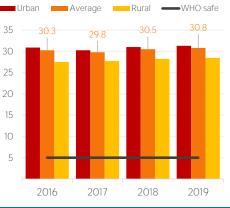








11.6.2 Air particulate matter (PM_{2.5})

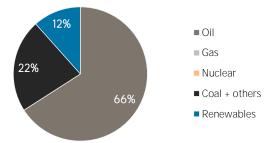


2021 Total Energy Supply (TES) 2016 Non-renewable (TJ) 65 708 71 417 Renewable (TJ) 5 790 9 363 Total (TJ) 71 4 98 80 780 Renewable share (%) 8 12 Growth in TES 2020-21 2016-21 Non-renewable (%) +8.7 +6.0 Renewable (%) +61.7 +10.9 Total (%) +13.0 +6.5

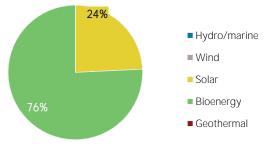
Primary energy trade	2016	2021
Imports (TJ)	67 326	77 343
Exports (TJ)	14	7
Net trade (TJ)	- 67 312	- 77 336
Imports (% of supply)	94	96
Exports (% of production)	0	0
Energy self-sufficiency (%)	6	4

TOTAL ENERGY SUPPLY (TES)

Total energy supply in 2021

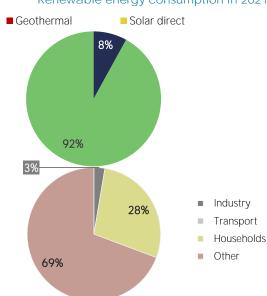


Renewable energy supply in 2021

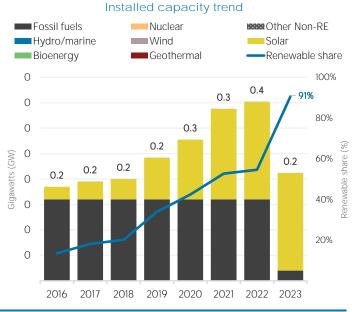


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend Electricity Commercial heat Bioenergy 12 11 10 10 10 10 9 9 Petajoules (PJ) 8 6 4 2 2016 2017 2018 2019 2020 2021 Consumption by sector 2016 2021 Industry (TJ) 211 280 Transport (TJ) 0 0 Households (TJ) 3 9 4 1 2 957 Other (TJ) 5 719 7 304

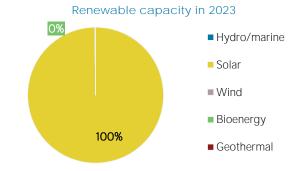


ELECTRICITY CAPACITY

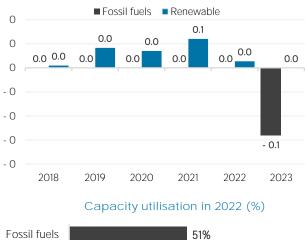


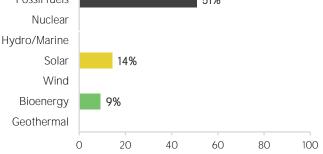
Net capacity change in 2023 (MW)

Non-renewable		Hydro and marine	
	- 140		0
Solar		Wind	
	0		0
Bioenergy		Geothermal	
	0		0



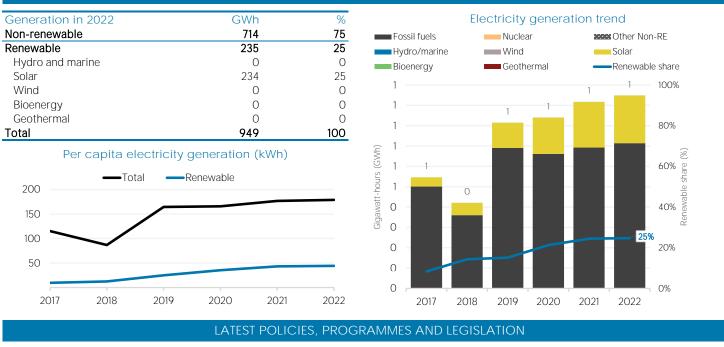
Net capacity change (GW)



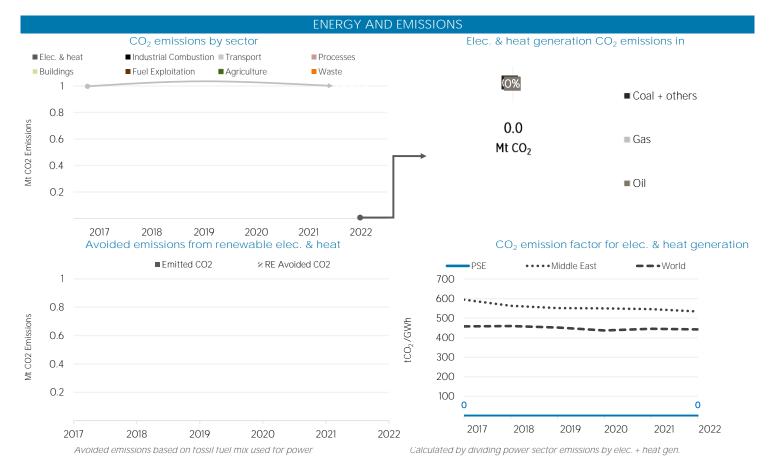


Renewable energy consumption in 2021

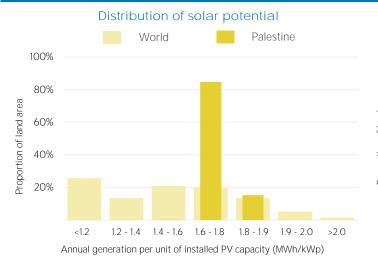
ELECTRICITY GENERATION



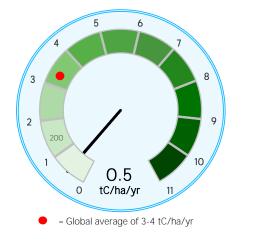


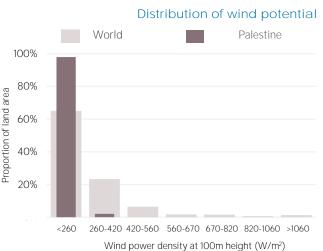


RENEWABLE RESOURCE POTENTIAL



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.

Blomass: 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 fuel. 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: 31 July, 2024



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