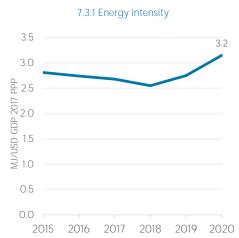
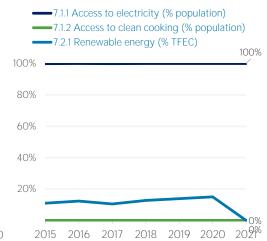
State of Palestine

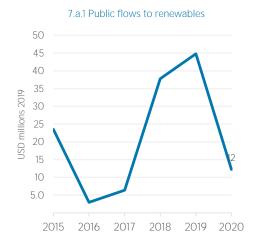


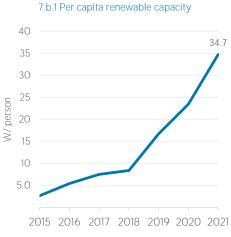
COUNTRY INDICATORS AND SDGS

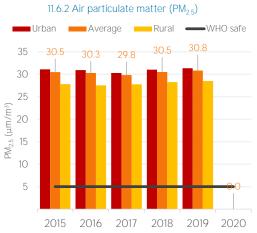












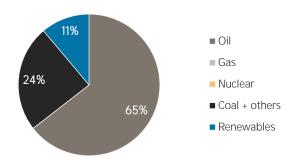
TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	62 714	67 396
Renewable (TJ)	4 509	8 445
Total (TJ)	67 223	75 841
Renewable share (%)	7	11

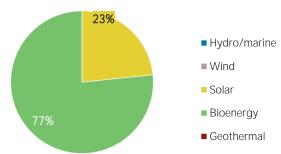
Growth in TES	2015-20	2019-20
Non-renewable (%)	+7.5	+0.1
Renewable (%)	+87.3	+14.9
Total (%)	+12.8	+1.6

2015	2020
63 324	72 440
14	12
- 63 310	- 72 428
94	96
0	0
6	5
	63 324 14 - 63 310

Total energy supply in 2020

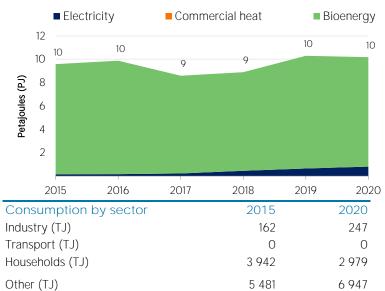


Renewable energy supply in 2020

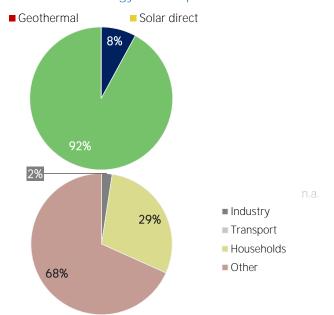


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend

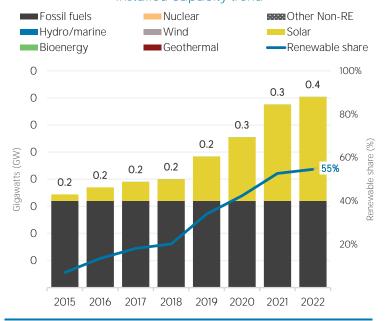


Renewable energy consumption in 2020

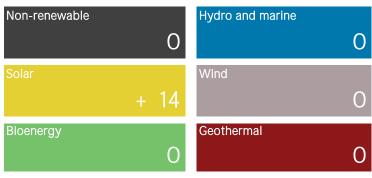


ELECTRICITY CAPACITY

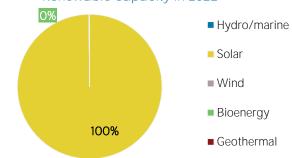
Installed capacity trend



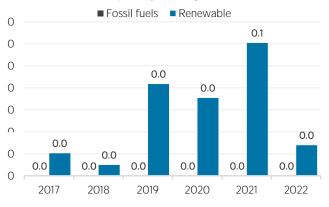




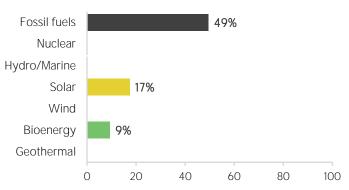
Renewable capacity in 2022



Net capacity change (GW)



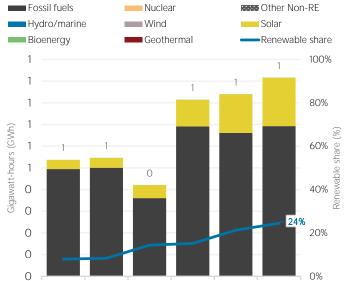
Capacity utilisation in 2021 (%)



ELECTRICITY GENERATION

Generation in 2021	GWh	%
Non-renewable	693	76
Renewable	224	24
Hydro and marine	0	0
Solar	224	24
Wind	0	0
Bioenergy	0	0
Geothermal	0	0
Total	917	100





2017

2016

2018

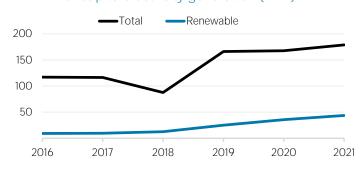
Calculated by dividing power sector emissions by elec. + heat gen.

2019

2020

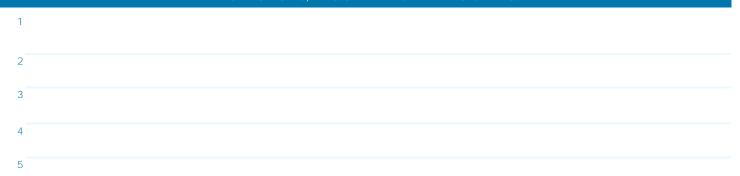
2021

Per capita electricity generation (kWh)



Avoided emissions based on tossil tuel mix used for power

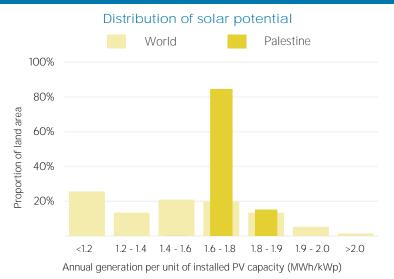
LATEST POLICIES, PROGRAMMES AND LEGISLATION



ENERGY AND EMISSIONS

Elec. & heat generation CO₂ emissions in Energy-related CO₂ emissions by sector ■ Elec. & heat ■ Other Industrial ■ Transport ■ Other Buildings (O% ■ Coal + others Mt CO₂ Emissions 0.8 0.0 0.6 ■ Gas Mt CO₂ 0.4 ■ Oil 0.2 2016 2017 2018 2019 2020 2021 Avoided emissions from renewable elec. & heat CO₂ emission factor for elec. & heat generation ■ Emitted CO2 RE Avoided CO2 •••••Middle East 4 000 3 500 Mt CO₂ Emissions 9.0 9.0 9.0 3 000 **≨**2 500 ©2 000 21500 1000 0.2 500 0 2016 2018 2019 2020 2021 2016 2017 2018 2019 2020 2021

RENEWABLE RESOURCE POTENTIAL

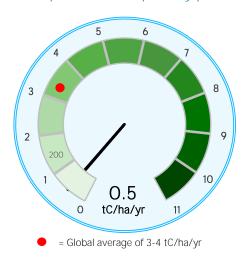


Distribution of wind potential World Palestine 100% 80% 40% 20%

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

< 260

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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