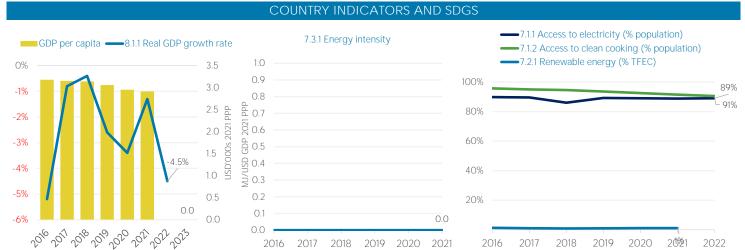
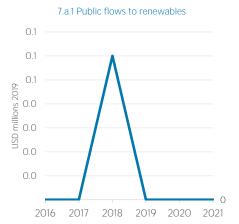
Syrian Arab Republic

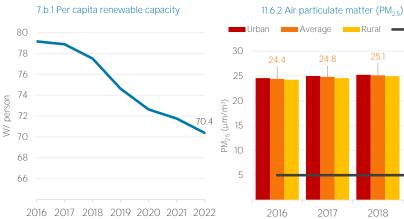


■WHO safe

2019





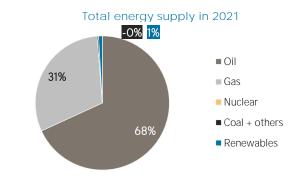


TOTAL ENERGY SUPPLY (TES)

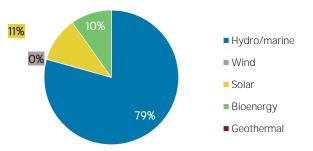
Total Energy Supply (TES)	2016	2021
Non-renewable (TJ)	425 424	360 105
Renewable (TJ)	3 039	3 360
Total (TJ)	428 463	363 465
Renewable share (%)	1	1

Growth in TES	2016-21	2020-21
Non-renewable (%)	-15.4	-1.4
Renewable (%)	+10.5	+5.0
Total (%)	-15.2	-1.3

Primary energy trade	2016	2021
Imports (TJ)	303 105	203 075
Exports (TJ)	31 959	28 386
Net trade (TJ)	- 271 146	- 174 689
Imports (% of supply)	71	56
Exports (% of production)	18	14
Energy self-sufficiency (%)	41	55



Renewable energy supply in 2021



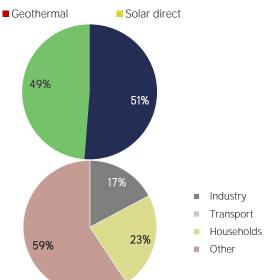
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend ■ Electricity ■ Commercial heat ■ Bioenergy 7 6 5 Petajoules (PJ) 4 3 2 2016 2017 2018 2019 2020 2021 Consumption by sector 2016 2021 Industry (TJ) 955 1079 Transport (TJ) 0 0 Households (TJ) 1299 1467

4 263

Other (TJ)

Renewable energy consumption in 2021

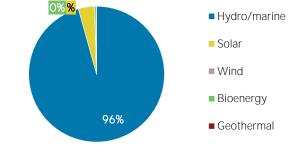


ELECTRICITY CAPACITY

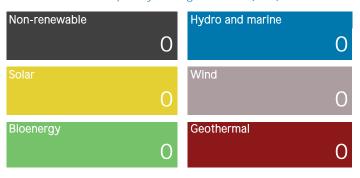
3 711

Installed capacity trend Fossil fuels **Nuclear** Other Non-RE Hydro/marine Solar **Wind** Bioenergy ■Geothermal Renewable share 12 100% 10 10 10 10 10 10 9.7 9.4 10 80% 8 Gigawatts (GW) 60% 6 40% 4 20% 2 2017 2018 2019 2020 2021 2022 2023

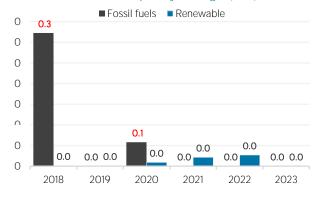
Renewable capacity in 2023



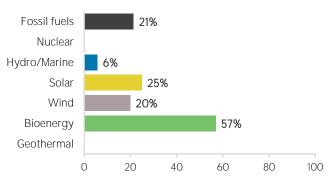




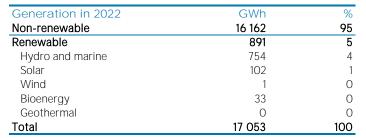
Net capacity change (GW)

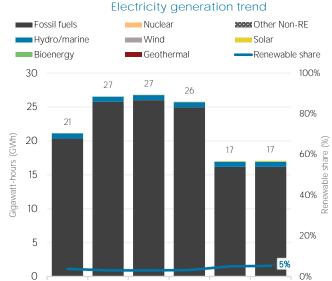


Capacity utilisation in 2022 (%)

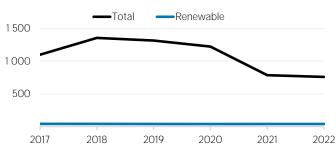


ELECTRICITY GENERATION





Per capita electricity generation (kWh)



LATEST POLICIES, PROGRAMMES AND LEGISLATION

2017

2018

2019

2020

2021

2022

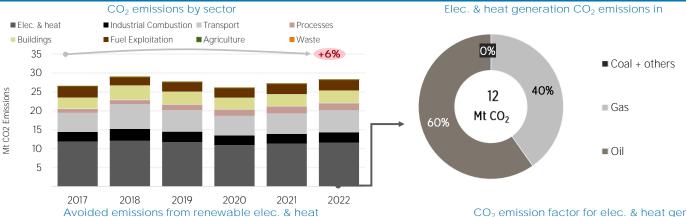
1 Law 03 on Energy Conservation 2009

2 3

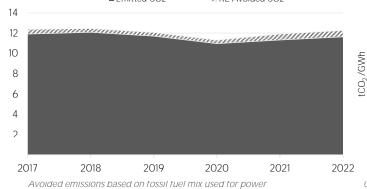
5

Mt CO2 Emissions

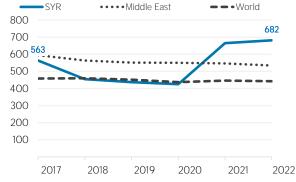
ENERGY AND EMISSIONS







CO₂ emission factor for elec. & heat generation

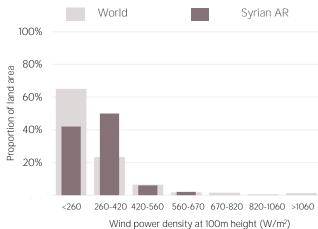


Calculated by dividing power sector emissions by elec. + heat gen.

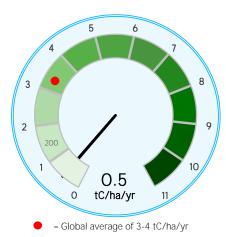
RENEWABLE RESOURCE POTENTIAL

Distribution of solar potential Syrian AR World 100% 80% Proportion of land area 60% 40% 20% <1.2 1.2 - 1.41.4 - 1.6 1.6 - 1.8 1.8 - 1.9 1.9 - 2.0Annual generation per unit of installed PV capacity (MWh/kWp)

Distribution of wind 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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