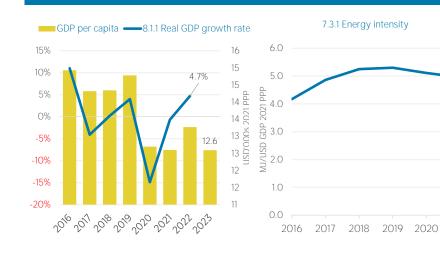


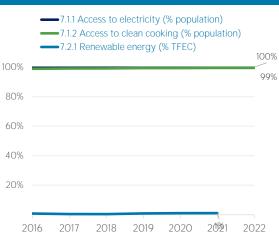
Iraq

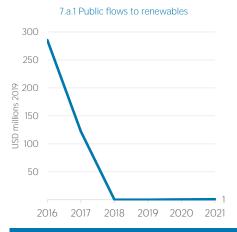
COUNTRY INDICATORS AND SDGS

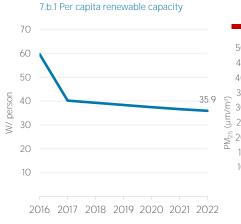
5.0

2021

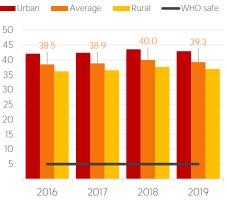








11.6.2 Air particulate matter (PM_{2.5})

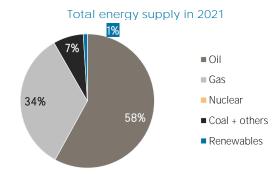


TOTAL ENERGY SUPPLY (TES)

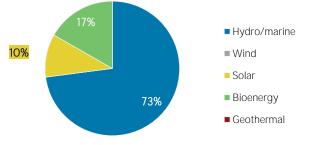
Total Energy Supply (TES)	2016	2021
Non-renewable (TJ)	2 292 934	1 941 594
Renewable (TJ)	12 042	19 351
Total (TJ)	2 304 976	1960 945
Renewable share (%)	1	1
Growth in TES	2016-21	2020-21
Non-renewable (%)	-15.3	+3.7
Renewable (%)	+60.7	+1.9
Total (%)	-14.9	+3.7

Primary energy trade	2016	2021
Imports (TJ)	754 029	698 412
Exports (TJ)	7 938 660	7 532 753
Net trade (TJ)	7 184 631	6 834 341
Imports (% of supply)	33	36
Exports (% of production)	82	85
Energy self-sufficiency (%)	419	449

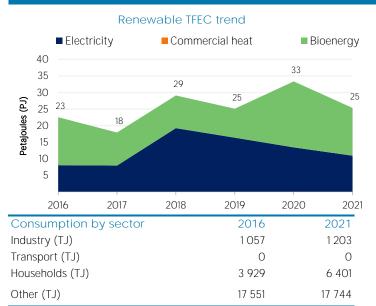


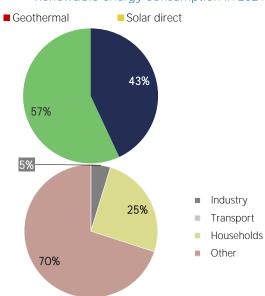


Renewable energy supply in 2021



RENEWABLE ENERGY CONSUMPTION (TFEC)

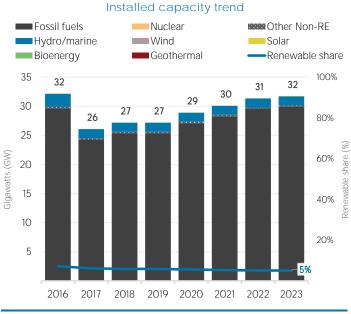




ELECTRICITY CAPACITY

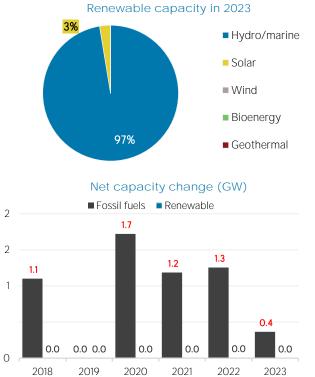
2

2

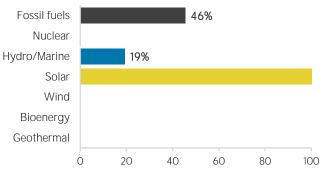


Net capacity change in 2023 (MW)

Non-renewable	+	364	Hydro and marine	0
Solar		0	Wind	0
Bioenergy		0	Geothermal	0

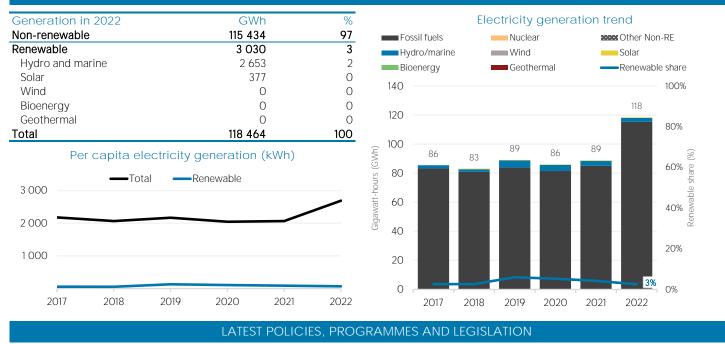




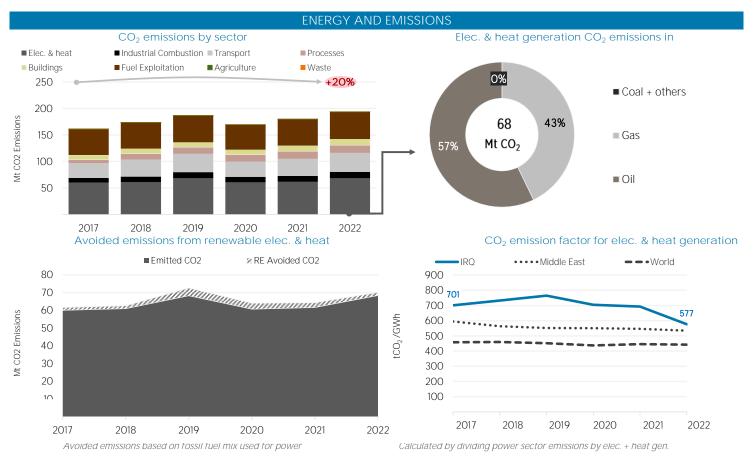


Renewable energy consumption in 2021

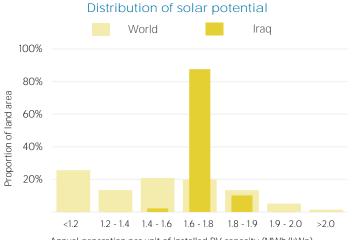
ELECTRICITY GENERATION



1 Nationally Determined Contribution (NDC) to the Paris Agreement: Iraq	2021
2 Template Contract for Technical Services and for exploration, development and production	2021
3 Iraq renewable energy auction	2016
4 Integrated National Energy Strategy of Iraq	2014
5 Law on Protection and Improvement of the Environment (Law No. 27 of 2009)	2009

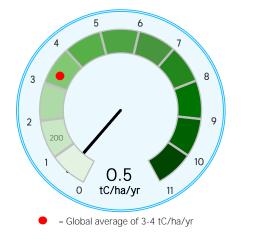


RENEWABLE RESOURCE POTENTIAL



Annual generation per unit of installed PV capacity (MWh/kWp)

Biomass potential: net primary production



World
Iraq

100%
80%

60%
60%

40%
20%

20%
200

200

20%
200

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20%

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 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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