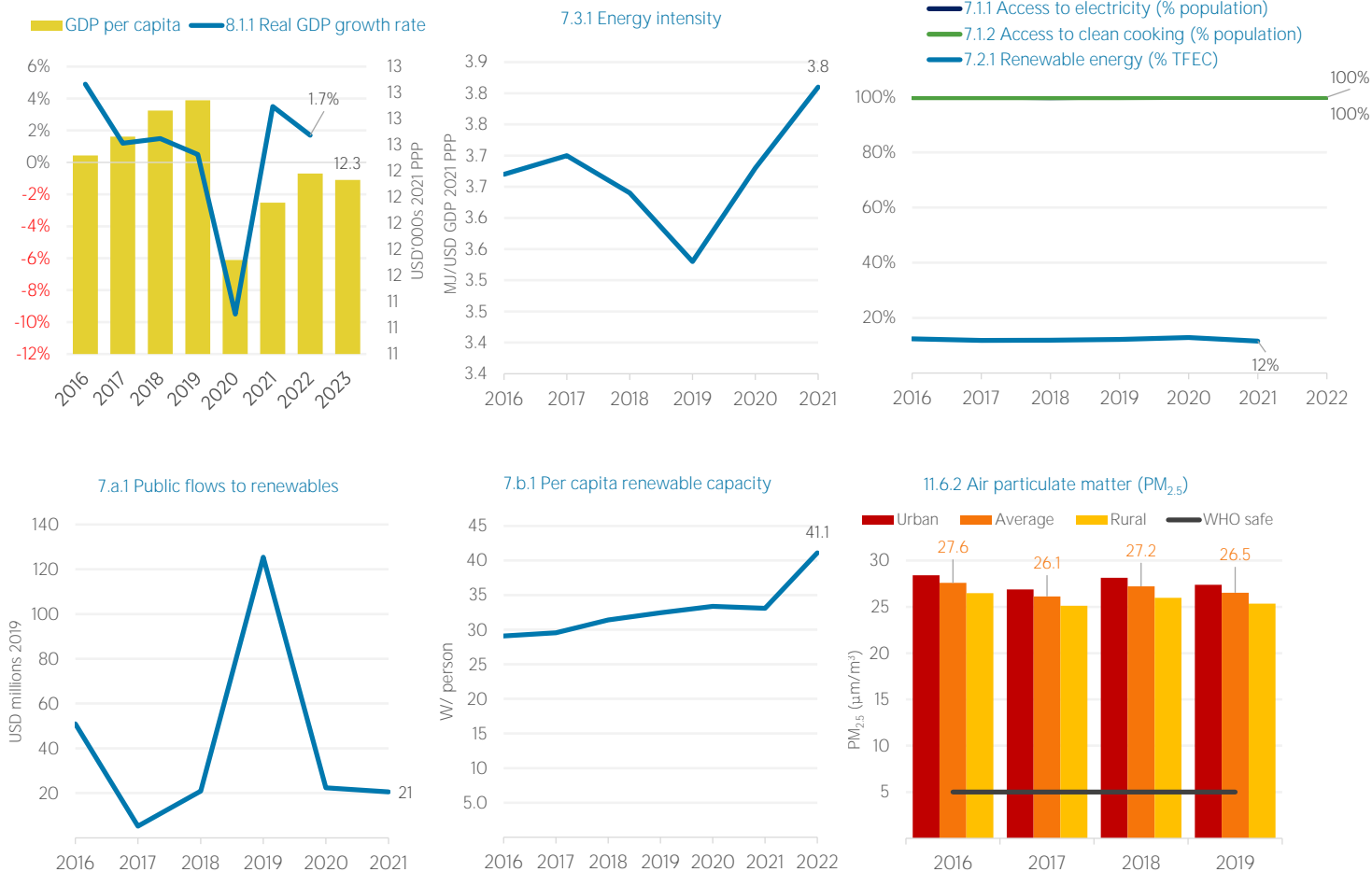


## COUNTRY INDICATORS AND SDGS



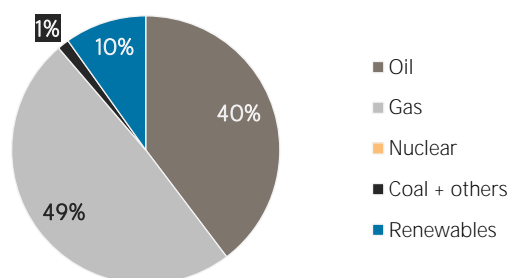
## TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2016	2021
Non-renewable (TJ)	417 384	434 591
Renewable (TJ)	46 280	47 471
Total (TJ)	463 664	482 062
Renewable share (%)	10	10

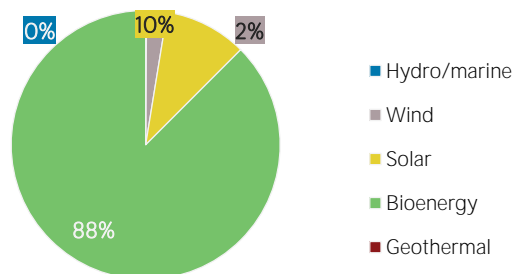
Growth in TES	2016-21	2020-21
Non-renewable (%)	+4.1	+9.2
Renewable (%)	+2.6	-2.8
Total (%)	+4.0	+7.9

Primary energy trade	2016	2021
Imports (TJ)	321 999	354 212
Exports (TJ)	105 939	93 754
Net trade (TJ)	- 216 060	- 260 458
Imports (% of supply)	69	73
Exports (% of production)	41	40
Energy self-sufficiency (%)	56	48

## Total energy supply in 2021

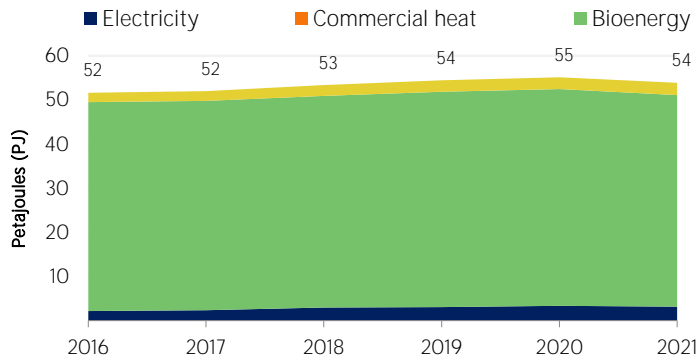


## Renewable energy supply in 2021



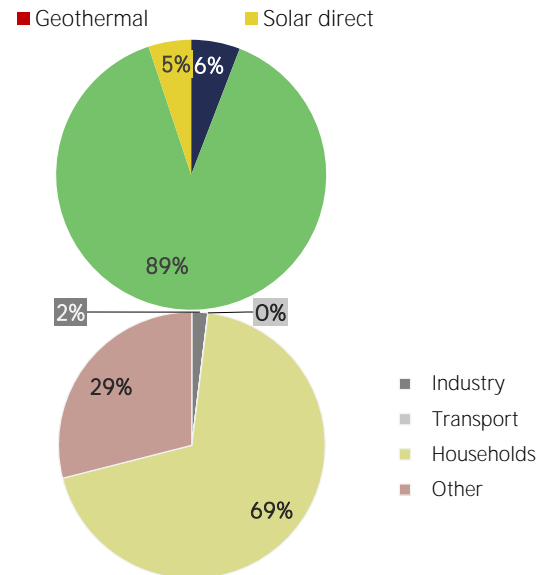
## RENEWABLE ENERGY CONSUMPTION (TFEC)

### Renewable TFEC trend



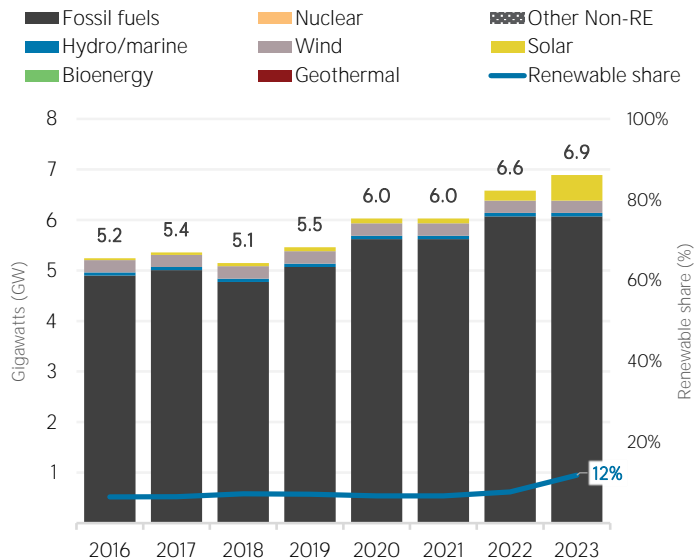
Consumption by sector	2016	2021
Industry (TJ)	756	1 035
Transport (TJ)	13	12
Households (TJ)	38 330	37 225
Other (TJ)	12 505	15 614

### Renewable energy consumption in 2021

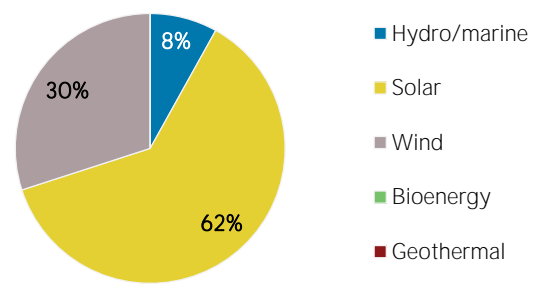


## ELECTRICITY CAPACITY

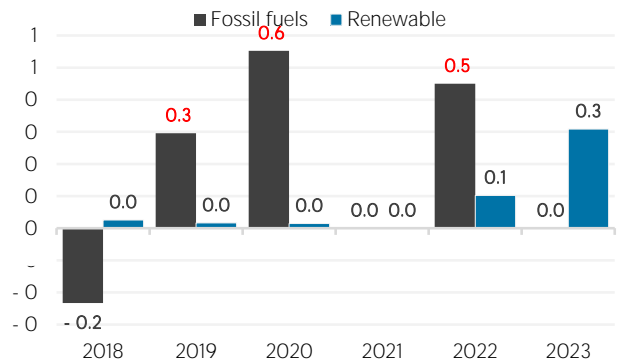
### Installed capacity trend



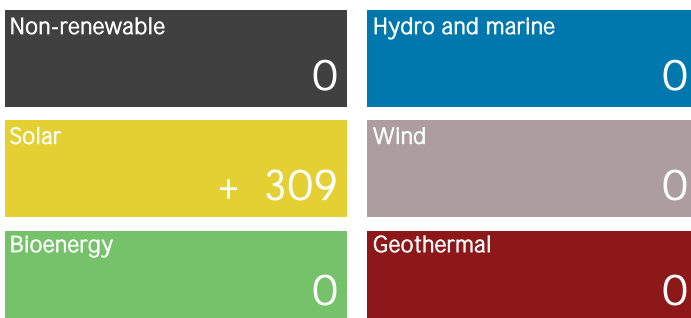
### Renewable capacity in 2023



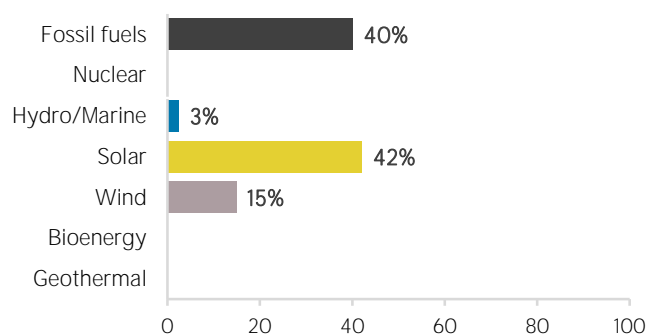
### Net capacity change (GW)



### Net capacity change in 2023 (MW)



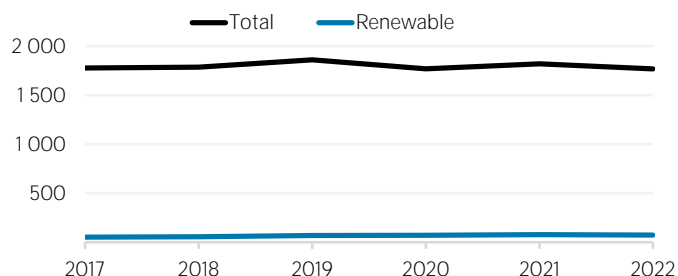
### Capacity utilisation in 2022 (%)



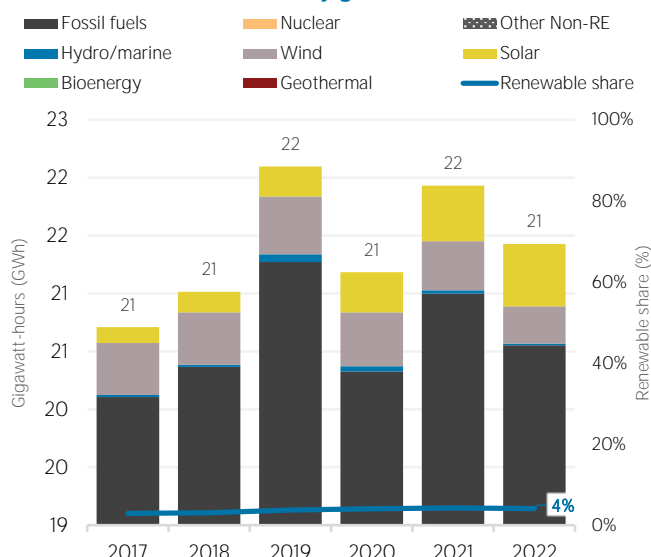
## ELECTRICITY GENERATION

Generation in 2022	GWh	%
Non-renewable	20 553	96
Renewable	876	4
Hydro and marine	15	0
Solar	539	3
Wind	322	2
Bioenergy	0	0
Geothermal	0	0
<b>Total</b>	<b>21 429</b>	<b>100</b>

Per capita electricity generation (kWh)



Electricity generation trend

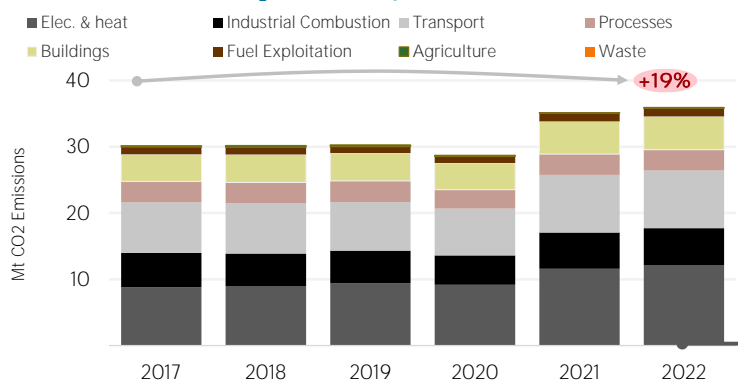


## LATEST POLICIES, PROGRAMMES AND LEGISLATION

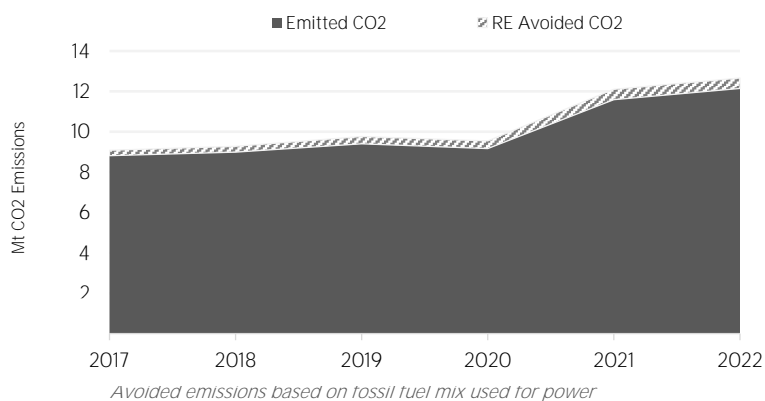
- 1 Renewable Energy Law for Electricity Production (No.74/2013) **2015**
- 2 The Decree on connection and access of renewable electricity to the national grid **2011**
- 3 Tax exemptions for the import of renewable energy and energy efficiency equipment materials **2010**
- 4 Decree 2009/362 on Renewable Energy and Energy Efficiency Premiums **2009**
- 5 Decree on rules of selling renewable electricity to the Tunisian Company of Electricity and Gas (STEG) **2009**

## ENERGY AND EMISSIONS

CO<sub>2</sub> emissions by sector

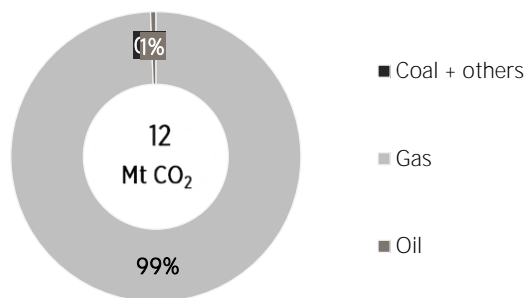


Avoided emissions from renewable elec. & heat

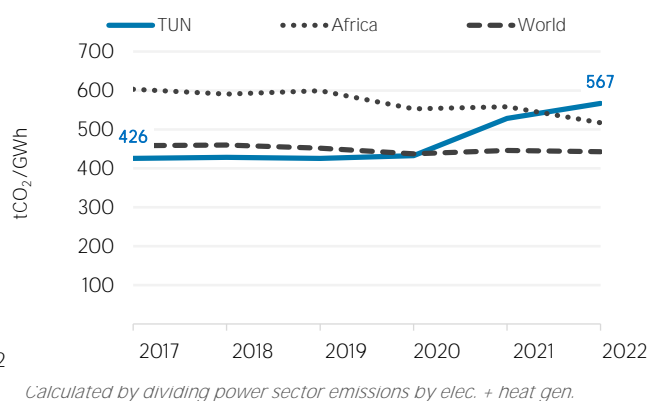


Avoided emissions based on fossil fuel mix used for power

Elec. & heat generation CO<sub>2</sub> emissions in

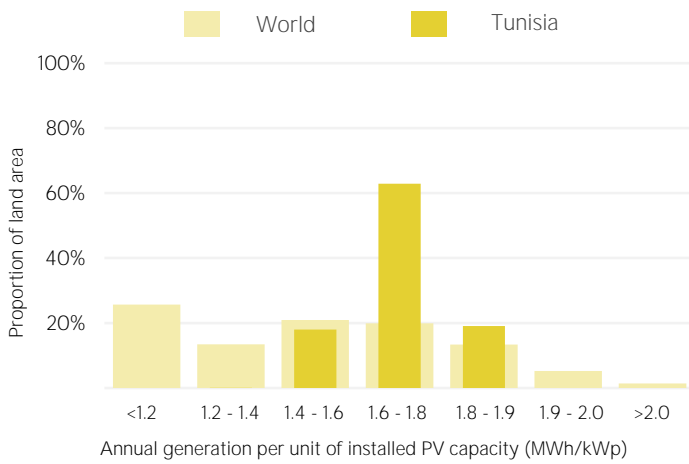


CO<sub>2</sub> emission factor for elec. & heat generation

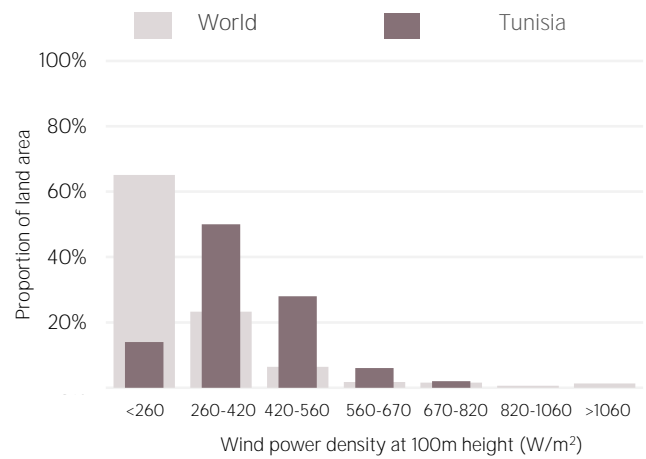


Calculated by dividing power sector emissions by elec. + heat gen.

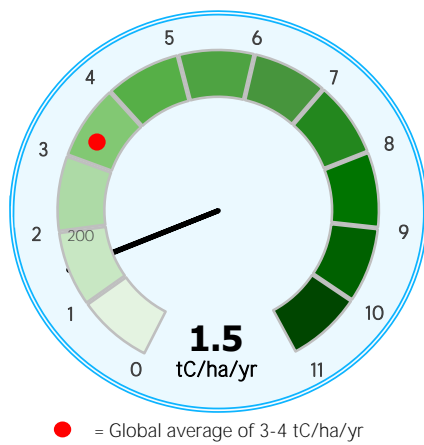
### Distribution of solar potential



### 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 ( $W/m^2$ ) 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](mailto:statistics@irena.org).

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