# Israel

10%

8%

6%

4%

2%

0%

-2%

-4%

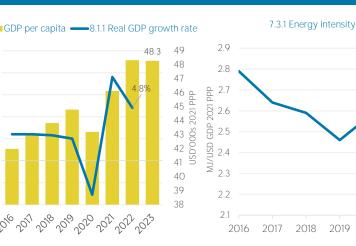
2016

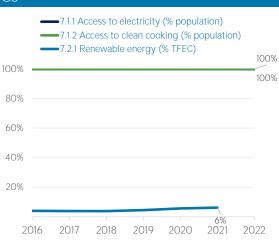
2011

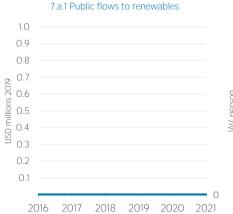
## COUNTRY INDICATORS AND SDGS

2021

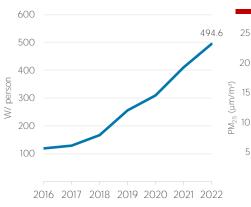
2020





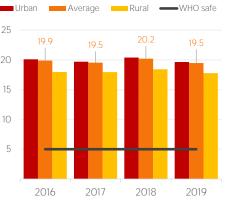


Total Energy Supply (TES)



7.b.1 Per capita renewable capacity

11.6.2 Air particulate matter (PM<sub>2.5</sub>)

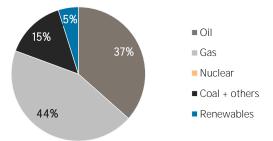


TOTAL ENERGY SUPPLY (TES)

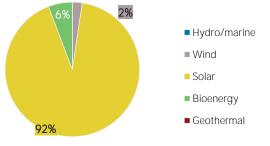
2021

2016

# Total energy supply in 2021



Renewable energy supply in 2021



Non-renewable (TJ) 894 785 911 829 Renewable (TJ) 23 801 46 385 Total (TJ) 918 586 958 215 Renewable share (%) 3 5 Growth in TES 2020-21 2016-21 Non-renewable (%) +1.9 +7.8 Renewable (%) +94.9 +6.2 Total (%) +4.3 +7.7 Primary energy trade 2021 2016

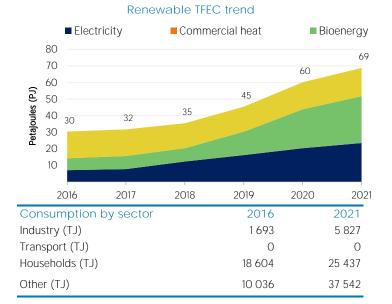
3 63		
Imports (TJ)	891 194	782 568
Exports (TJ)	260 598	507 456
Net trade (TJ)	- 630 596	- 275 112
Imports (% of supply)	97	82
Exports (% of production)	85	71
Energy self-sufficiency (%)	33	75

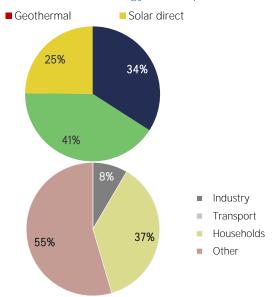


International Renewable Energy Agency

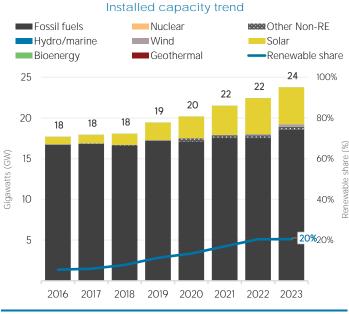
## RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable energy consumption in 2021





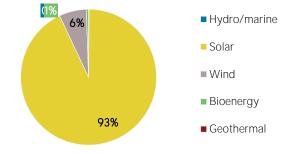
ELECTRICITY CAPACITY



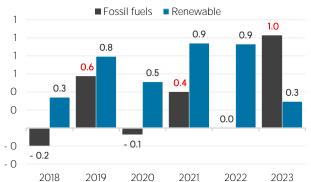
Net capacity change in 2023 (MW)

Non-renewable	+1(	726	Hydro and marine		-L-	$\circ$
		520			T	U
Solar		11.0	Wind		10	
	+	113		+	15	30
Bioenergy			Geothermal			
		0				0

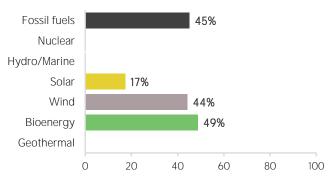




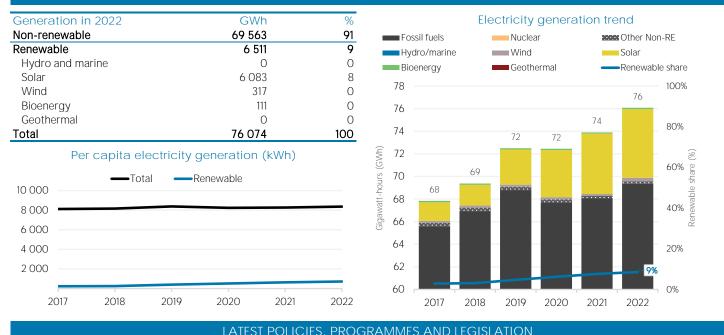
Net capacity change (GW)



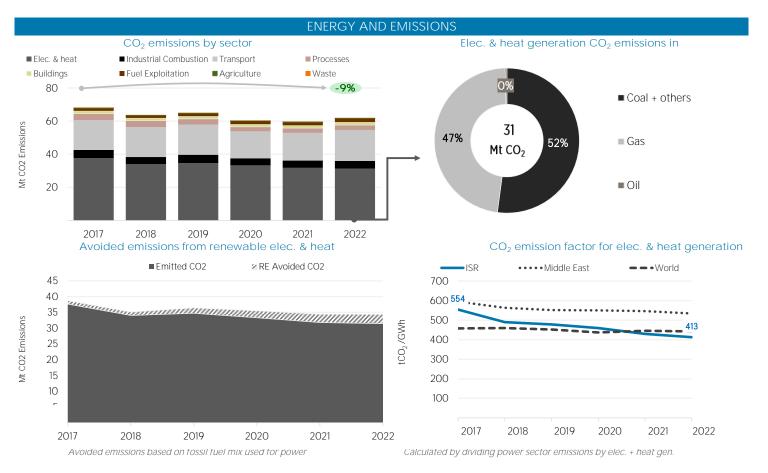
Capacity utilisation in 2022 (%)



#### ELECTRICITY GENERATION



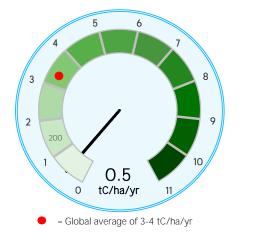
1 Ministry of Finance Decree to Reduce Gasoline Taxes	2023			
2 Economic Plan to reduce the cost of living	2022			
3 Infrastructure projects in the energy and water economies: 8. Constructing a new fuel port in Haifa	2022			
4 Reduction and changes in natural gas transmission tariffs	2022			
5 Infrastructure projects in the energy and water economies: 7. Connecting Eilat to the natural gas network	2021			



#### **RENEWABLE RESOURCE POTENTIAI**



#### Biomass potential: net primary production



Distribution of wind potential Israel World 100% 80% Proportion of land area 60% 40% 20% <260 260-420 420-560 560-670 670-820 820-1060 >1060 Wind power density at 100m height (W/m<sup>2</sup>)

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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