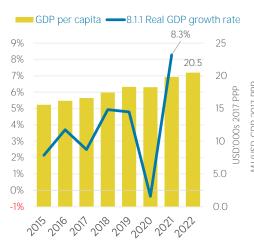
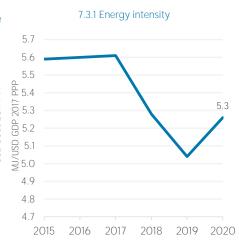
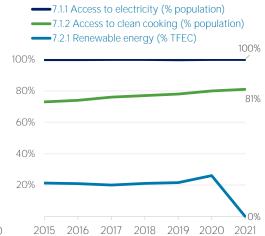
# Serbia



#### COUNTRY INDICATORS AND SDGS







7.a.1 Public flows to renewables

400

350

300

90

250

100

50

11

2015

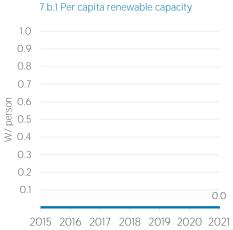
2016

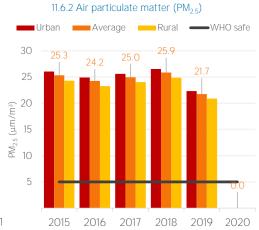
2017

2018

2019

2020





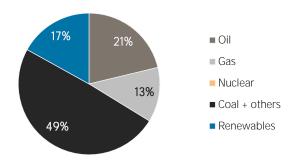
# TOTAL ENERGY SUPPLY (TES)

Total Energy Supply (TES)	2015	2020
Non-renewable (TJ)	531 780	553 034
Renewable (TJ)	82 681	112 804
Total (TJ)	614 461	665 838
Renewable share (%)	13	17

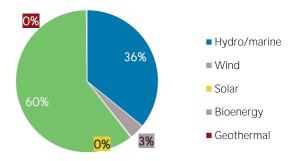
Growth in TES	2015-20	2019-20
Non-renewable (%)	+4.0	+1.0
Renewable (%)	+36.4	+33.8
Total (%)	+8.4	+5.3

2015	2020
229 476	256 531
61 388	60 537
- 168 088	- 195 994
37	39
14	13
73	70
	229 476 61 388 - 168 088 37 14

## Total energy supply in 2020



#### Renewable energy supply in 2020

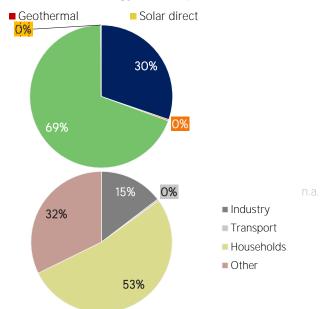


#### RENEWABLE ENERGY CONSUMPTION (TFEC)

#### Renewable TFEC trend

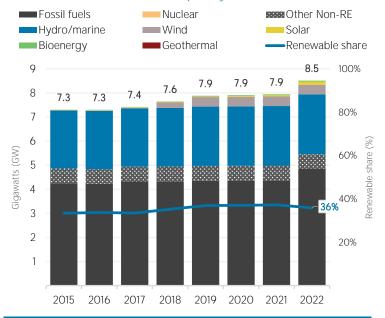
#### ■ Electricity ■ Commercial heat ■ Bioenergy 151 160 140 120 123 123 117 118 120 Petajoules (PJ) 100 80 60 40 20 2015 2016 2017 2018 2019 2020 Consumption by sector 2020 2015 Industry (TJ) 16 481 22 070 Transport (TJ) 506 586 Households (TJ) 55 792 79 497 Other (TJ) 47 373 48 679

#### Renewable energy consumption in 2020

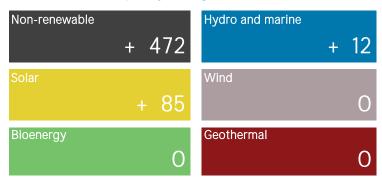


#### **ELECTRICITY CAPACITY**

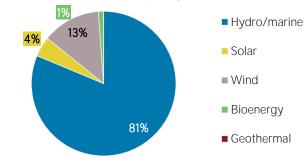
#### Installed capacity trend



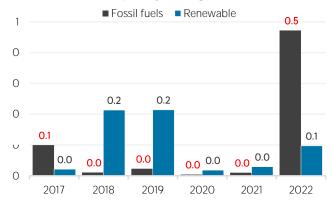




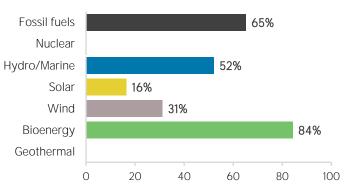
#### Renewable capacity in 2022



## Net capacity change (GW)



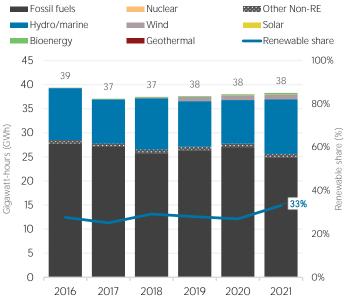
#### Capacity utilisation in 2021 (%)



#### **ELECTRICITY GENERATION**

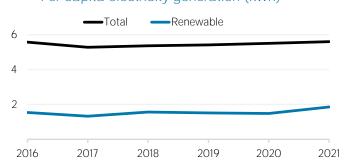
Generation in 2021	GWh	%
Non-renewable	25 606	67
Renewable	12 676	33
Hydro and marine	11 284	29
Solar	59	0
Wind	1 085	3
Bioenergy	247	1
Geothermal	0	0
Total	38 281	100





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

## Per capita electricity generation (kWh)

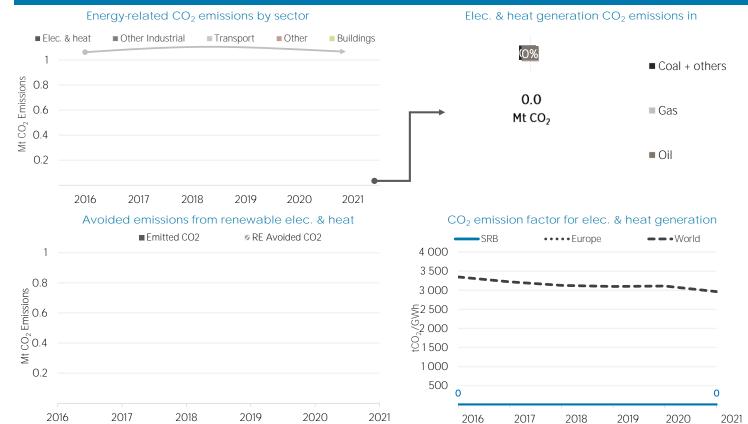


Avoided emissions based on tossil tuel mix used for power

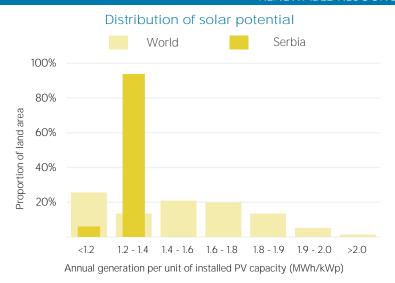
#### LATEST POLICIES, PROGRAMMES AND LEGISLATION

1 Decree on Amount of Special Fee for Incentives in 2013 (RS Official Gazette, No. 8/13)	2013
	0010
2 Decree on Criteria and Procedure for Qualification for Privileged Electricity Producer Status (RS Official Gazette, No. 8/13)	2013
3 Decree on Incentive Measures for Privileged Energy Producers (Eco-scheme)	2013
4 Decree on Method of Calculation and Allocation of Funding Raised from Incentive Fees for Privileged Electricity Producers (RS Official Gazette, No. 8/13)	2013
5 National Renewable Energy Action Plan (NREAP)	2013

#### **ENERGY AND EMISSIONS**

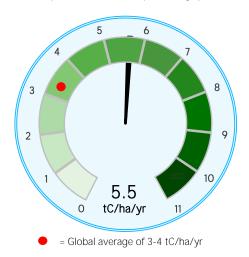


#### RENEWABLE RESOURCE POTENTIAL



# 

#### 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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