Senegal

5%

4%

3%

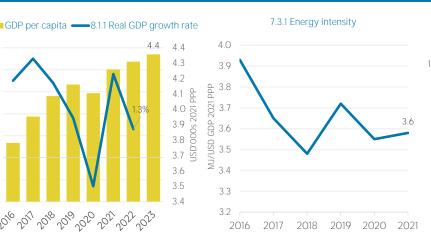
2%

1%

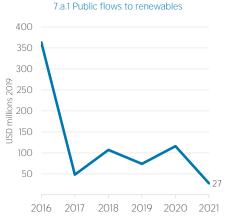
0%

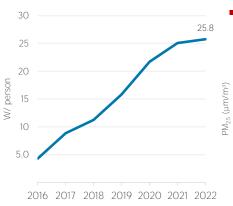
-1%

COUNTRY INDICATORS AND SDGS



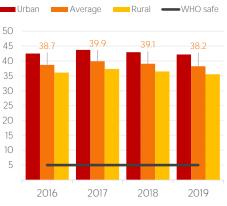
-7.1.1 Access to electricity (% population) -7.1.2 Access to clean cooking (% population) -7.2.1 Renewable energy (% TFEC) 100% 80% 68% 60% 40% 35% L 32% 20% 2016 2017 2018 2019 2020 2021 2022





7.b.1 Per capita renewable capacity

11.6.2 Air particulate matter (PM_{2.5})



 Total Energy Supply (TES)
 2016
 2021

 Non-renewable (TJ)
 108 981
 125 761

 Renewable (TJ)
 64 467
 85 030

 Total (TJ)
 173 448
 210 791

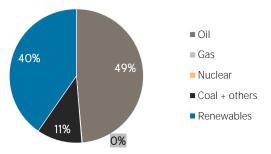
 Renewable share (%)
 37
 40

Growth in TES	2016-21	2020-21
Non-renewable (%)	+15.4	+14.8
Renewable (%)	+31.9	-0.2
Total (%)	+21.5	+8.2

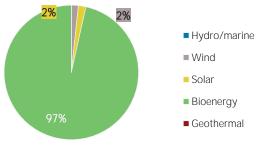
Primary energy trade	2016	2021
Imports (TJ)	154 231	143 609
Exports (TJ)	36 927	3 231
Net trade (TJ)	- 117 304	- 140 378
Imports (% of supply)	89	68
Exports (% of production)	56	4
Energy self-sufficiency (%)	38	41

TOTAL ENERGY SUPPLY (TES)

Total energy supply in 2021



Renewable energy supply in 2021

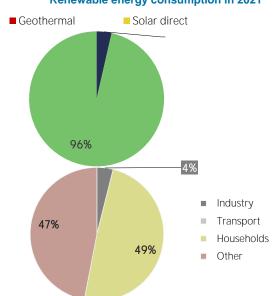




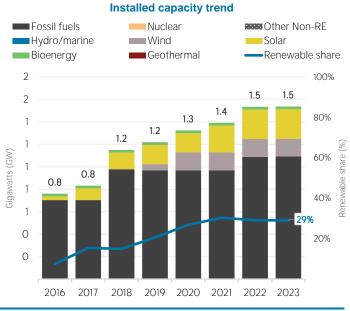
International Renewable Energy Agency

RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend Electricity Commercial heat Bioenergy 100 89 88 76 80 69 69 65 Petajoules (PJ) 60 40 20 2016 2017 2018 2019 2020 2021 **Consumption by sector** 2016 2021 3 501 Industry (TJ) 1 519 Transport (TJ) 0 0 Households (TJ) 45 189 43 860 Other (TJ) 18 502 41 916



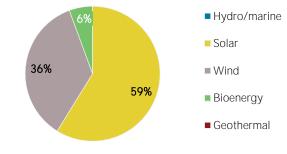
ELECTRICITY CAPACITY



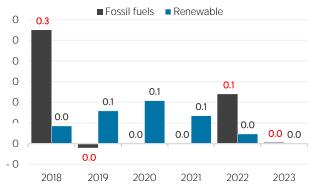
Net capacity change in 2023 (MW)



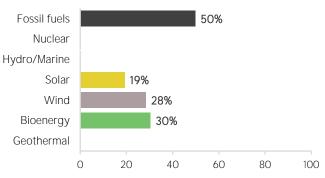
Renewable capacity in 2023



Net capacity change (GW)

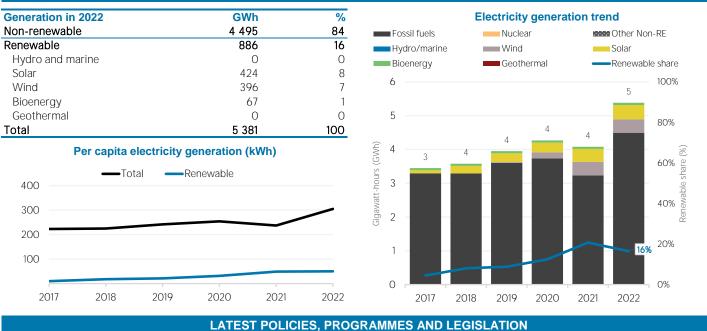


Capacity utilisation in 2022 (%)

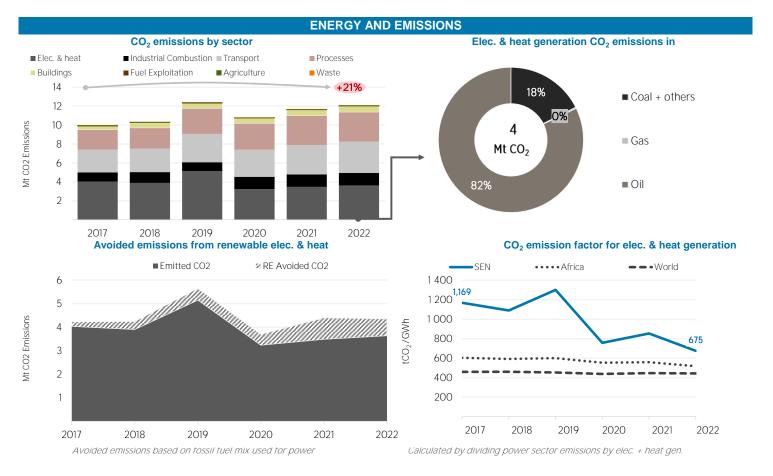


Renewable energy consumption in 2021

ELECTRICITY GENERATION



1 Gas Code, Law No. 2020-06	2020
2 Senegal's VAT exemption for renewables equipment	2020
3 Energy Sector Development Policy Letter (2019-2023)	2019
4 Law concerning local content in the hydrocarbon sector, Law No. 2019-04	2019
5 Petroleum Code 2019, Law no. 2019-03	2019

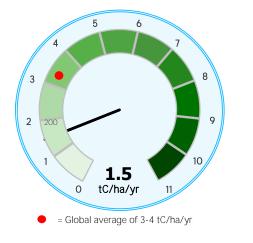


RENEWABLE RESOURCE POTENTIAL



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

Biomass potential: net primary production



 World
 Senegal

 100%
 80%

 80%
 60%

 40%
 20%

 20%
 260-420 420-560 560-670 670-820 820-1060 >1060

 Wind power density at 100m height (W/m²)

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 (H5). 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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