

SOLID BIOFUELS BAROMETER 2022

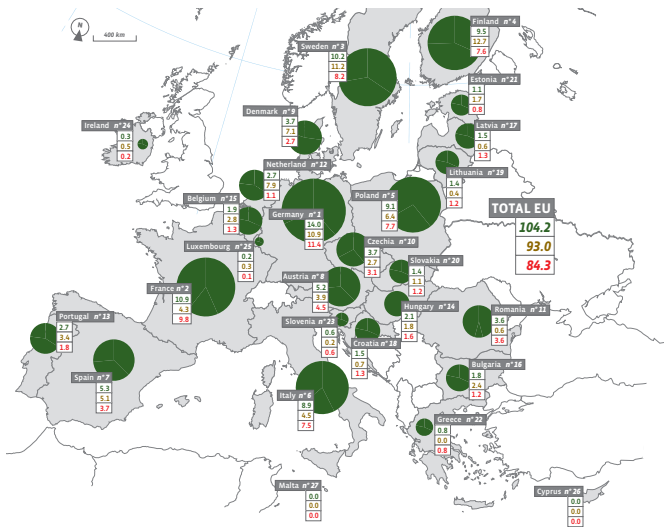
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ENGLISH: [www.eurobserv-er.org/
category/all-solid-biofuels-barometers/](http://www.eurobserv-er.org/category/all-solid-biofuels-barometers/)

Due to a harsher 2020-2021 winter, a longer heating period and the hike in fossil fuel prices in the second half of the year, European Union solid biofuels energy consumption reached new peaks in 2021. The largest jump was recorded in household consumption (3.5 Mtoe or 8.6% increase) that, with a share of 43% in gross energy consumption, makes the largest single sector using solid biofuels. This trend extends to all forms from log wood, to pellets, wood waste, agricultural residues and by-products. More than 96% of the biomass fuels used come from European Union countries. EurObserv'ER puts the 2021

figure at 104.2 Mtoe, which amounts to an 8.1% year-on-year rise fuelled by an additional 7.8 Mtoe of consumption. On the production side, the increase in gross energy generated from primary solid biofuels was 12% and 16% in gross renewable electricity and heat, correspondingly, indicating implementation of energy efficiency criteria. This renders solid biofuels as the third EU renewable energy sector, producing 21.11 Mtoe both electricity and heat, following the wind energy (33.2 Mtoe in 2021), and hydropower (31.8 Mtoe in 2021), but ahead of heat pump renewable energy (ambient heat, 14.39 Mtoe in 2021) and even solar photovoltaics (13.6 Mtoe in 2021).

Gross inland consumption, gross electricity production and heat consumption from solid biofuels* in the European Union in 2021**



104.2 Inland consumption of solid biofuels in the European Union in 2021** (in Mtoe).

84.3 Heat consumption*** from solid biofuels in the European Union in 2021** (in Mtoe).

93.0 Gross electricity production from solid biofuels in the European Union in 2021** (in TWh).

*Excluding charcoal ** Estimate *** Final energy consumption and gross heat production in the transformation sector Source : EurObserv'ER 2022.

+8.1%

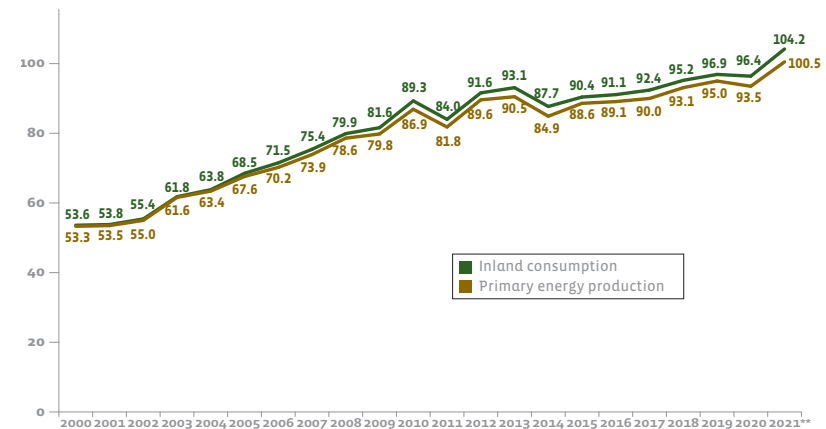
The growth of inland consumption from solid biofuels in the EU of 27 between 2020 and 2021

104.2 Mtoe

Gross inland consumption of solid biofuels in the European Union in 2021



Solid biofuels primary energy production and inland consumption* growth figures for the EU27 since 2000 (in Mtoe)



*Excluding charcoal.
**Estimate.

Sources: years 2000-2019 Eurostat, years 2020 and 2021 EurObserv'ER.

FURTHER INFORMATION

ANNUAL REPORT: "The State of renewable energies in Europe", 20th edition, www.eurobserv-er.org/20th-annual-overview-barometer/

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The next barometer will be dedicated to wind power.

DISCLAIMER

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