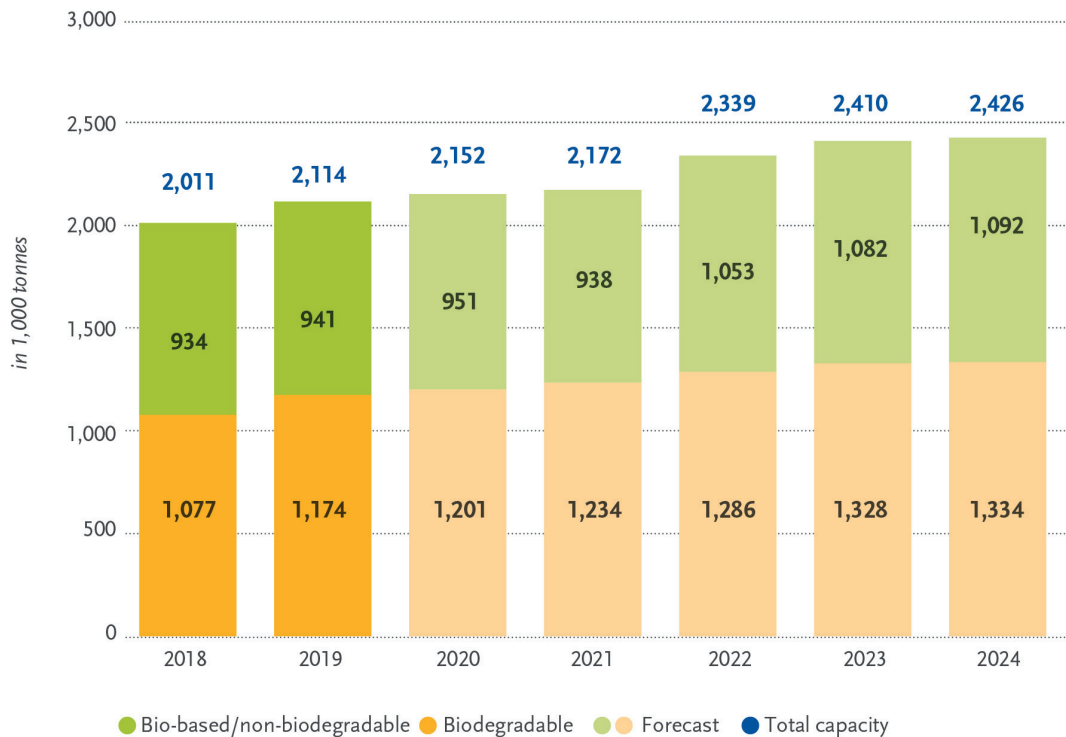


## Dynamic growth: global production capacities of bioplastics 2019-2024

Bioplastics represent about one percent of the more than 359 million tonnes of plastic produced annually. But as demand is rising, and with more sophisticated applications and products emerging, the market for bioplastics is continuously growing and diversifying. Global bioplastics production capacity is set to increase from around 2.11 million tonnes in 2019 to approximately 2.43 million tonnes in 2024.

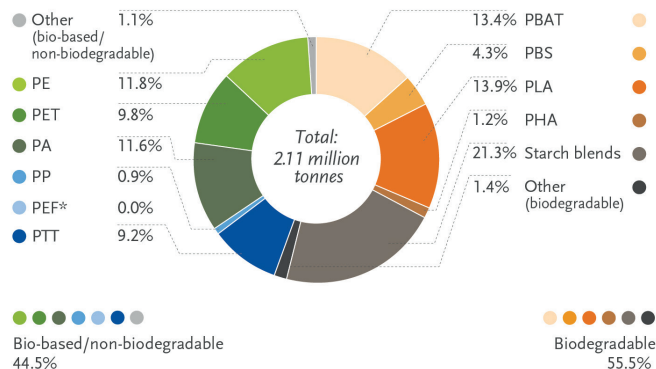
Global production capacities of bioplastics 2018-2024



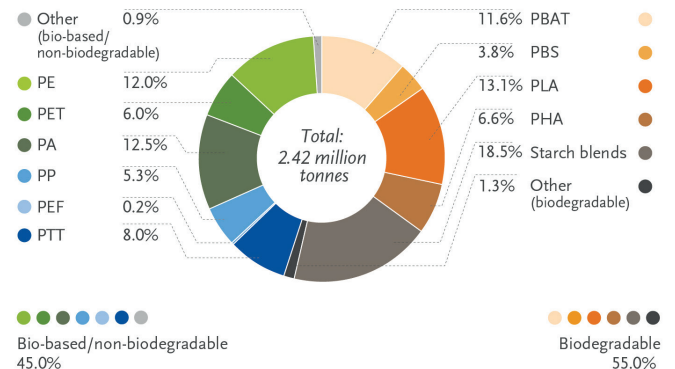
## Material development and diversification

Bioplastics alternatives exist for almost every conventional plastic material and corresponding application. With further bioplastics materials being commercially available, the production capacities will continue to diversify within the next 5 years.

Global production capacities of bioplastics 2019 (by material type)

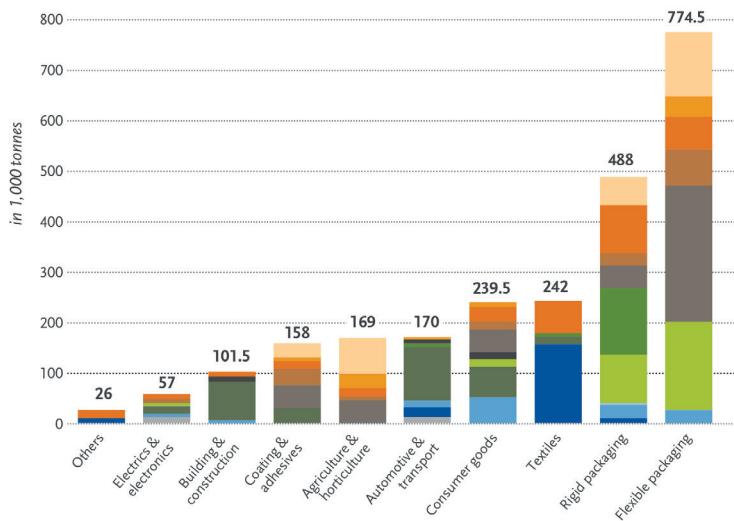


Global production capacities of bioplastics 2024 (by material type)



\*PEF is currently in development and predicted to be available in commercial scale in 2023.

Global production capacities of bioplastics 2019 (by market segment)



## Applications and market segments

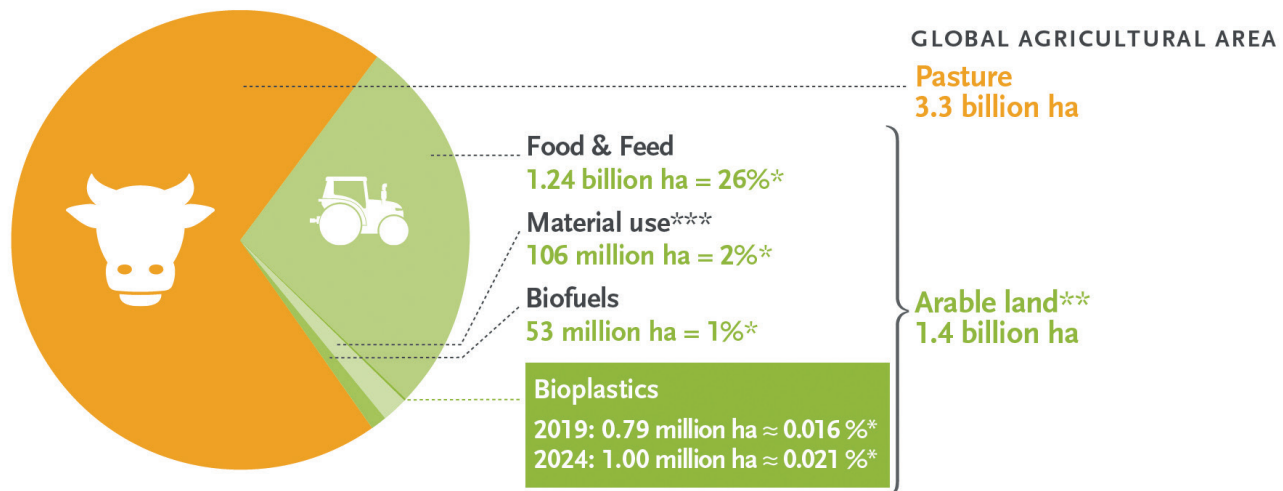
Bioplastics are used for an increasing variety of applications, ranging from packaging and consumer products to electronics, automotive and textiles. Packaging remains the largest market segment for bioplastics with more than 53 percent (1.14 million tonnes) of the total bioplastics market in 2019.



## Land use share for bioplastics estimated to stay at 0.02 percent

The land used to grow the renewable feedstock for the production of bioplastics remains at approximately 0.79 million hectares in 2019. This accounts for 0.016 percent of the global agricultural area of 4.8 billion hectares. Despite the market growth, the land use share for bioplastics will only slightly increase to 0.021 percent until 2024. This indicates once more that there is no competition between the renewable feedstock for food and feed, and the production of bioplastics.

Land use estimation for bioplastics 2019 and 2024



Source: European Bioplastics (2019), FAO Stats (2017), nova-Institute (2019), and Institute for Bioplastics and Biocomposites (2019). More information: [www.european-bioplastics.org](http://www.european-bioplastics.org)

\* In relation to global agricultural area  
\*\* Including approx. 1% fallow land  
\*\*\* Land-use for bioplastics is part of the 2% material use

## About this market data update

The market data update 2019 has been compiled in cooperation with the market experts of the nova-Institute (Hürth, Germany). The market data graphs are available for download on <http://www.european-bioplastics.org/news/publications/>

**European Bioplastics**  
Marienstraße 19-20  
10117 Berlin

Phone: +49 .30 28 48 23 50  
Email: [info@european-bioplastics.org](mailto:info@european-bioplastics.org)  
Email: [press@european-bioplastics.org](mailto:press@european-bioplastics.org)

**For more information please visit:**  
[www.european-bioplastics.org](http://www.european-bioplastics.org)  
[twitter.com/EUBioplastics](https://twitter.com/EUBioplastics)