

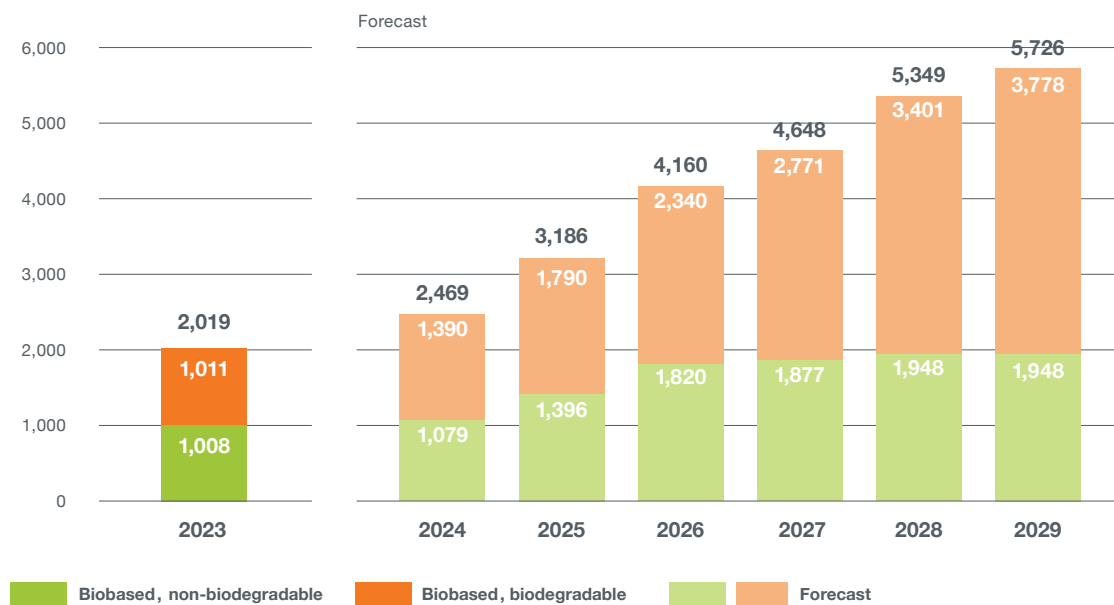
BIOPLASTICS MARKET DEVELOPMENT UPDATE 2024

Continuous growth: global production capacities of bioplastics 2024-2029

Bioplastics currently represent roughly half a percent of the almost 414 million tonnes¹ of plastics produced annually.

Overall global plastics production continues to rise steadily. This development is driven by rising demand combined with the emergence of ever more sophisticated applications and products. In line, global bioplastics production capacity is set to increase significantly from around 2.47 million tonnes in 2024 to approximately 5.73 million tonnes in 2029.

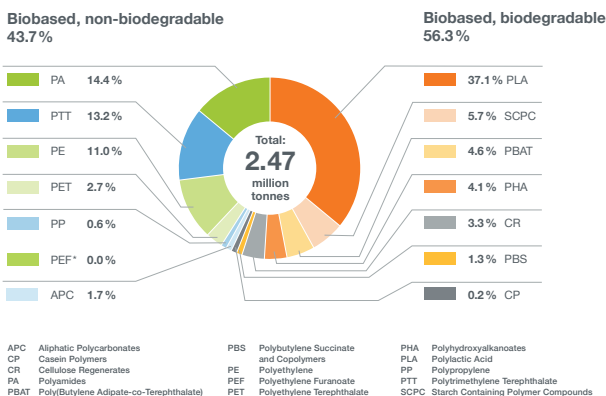
Global Production capacities of bioplastics 2024-2029 in 1,000 tonnes



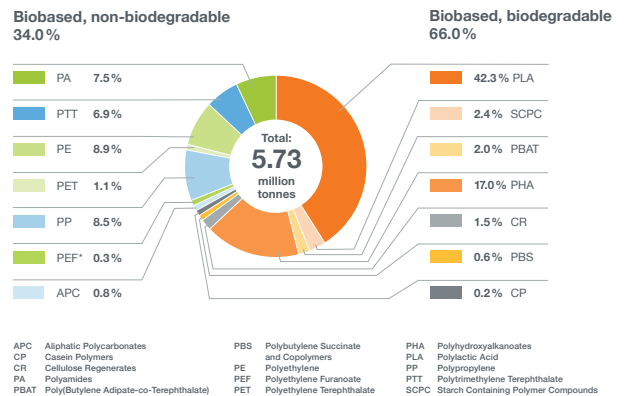
Material development and diversification

Bioplastic alternatives exist for almost every conventional plastic material and corresponding application. Due to a strong development of biobased and biodegradable polymers, such as polylactic acid (PLA) and polyhydroxyalkanoates (PHA), biobased polyethylene (PE) as well as a steady growth of biobased polypropylene (PP), the production capacities will continue to increase significantly within the next 5 years.

Global production capacities of bioplastics 2024 by material type



Global production capacities of bioplastics 2029 by material type



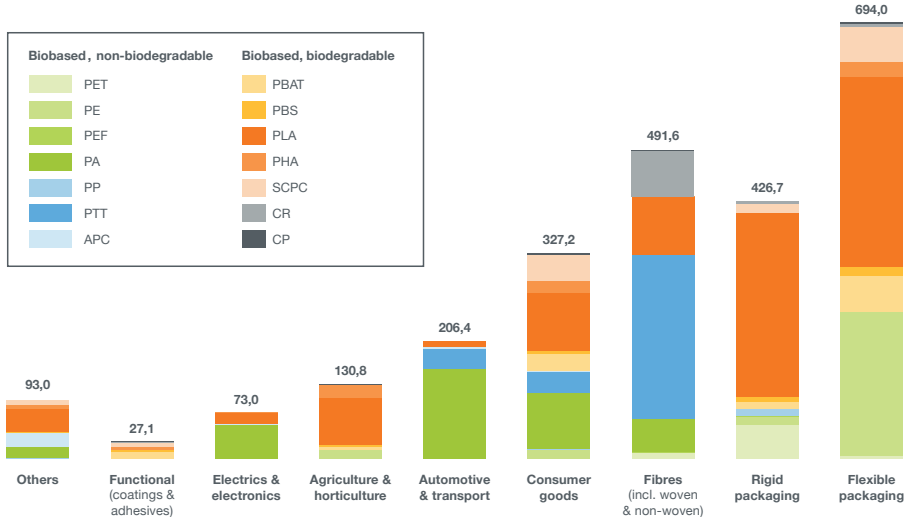
* PEF available at commercial scale as of 2024

¹ World plastics production 2023, Plastics Europe, 2024.

Applications and market segments

Bioplastics are used for an increasing variety of applications, ranging from packaging and fibres to consumer goods, automotive, and agricultural products. Packaging remains the largest market segment for bioplastics with 45 percent (1.12 million tonnes) of the total bioplastics market in 2024.

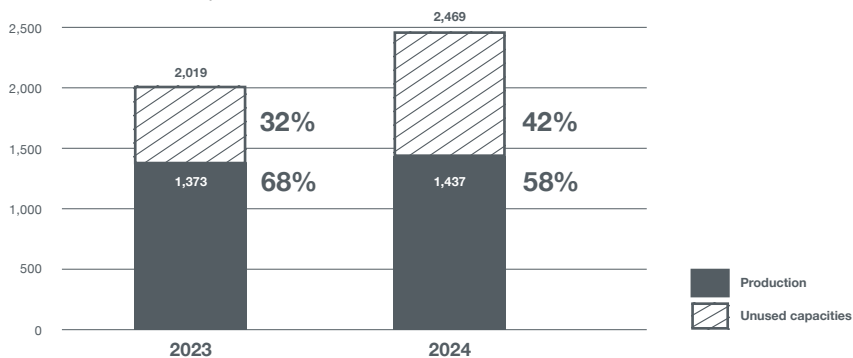
Global production capacities of bioplastics 2024 by market segment in 1,000 tonnes



Bioplastics production at close to 60% capacity in 2024

The comparison between the production capacities and actual production in 2024 shows that the bioplastics industry is producing at almost 60% capacity. Although varying in some parts quite significantly from one polymer to another, ranging from 35% to 100%, the average utilisation rate in 2024 is 58% (1.44 million tonnes production vs. 2.47 million tonnes production capacities).

Utilisation rates of bioplastics 2024* in 1,000 tonnes



* only biobased share

About this market data update

The market data update 2024 has been compiled in cooperation with the market experts of the nova-Institute (Hürth, Germany). The market data graphs are available for download on www.european-bioplastics.org/news/publications/

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About European Bioplastics

European Bioplastics (EUBP) is the European association representing the interests of the bioplastics industry along the entire value chain. Its members produce, refine and distribute bioplastics i.e. plastics that are biobased, biodegradable, or both.