

The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

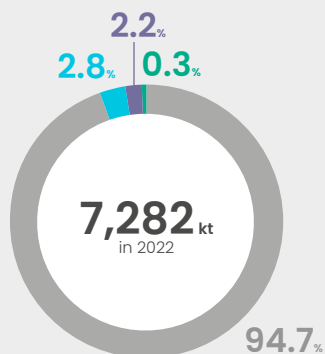
2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

3. Including 110 kt recycling of Belgian plastics waste abroad (intra-EU27+3 included). Belgian plastics waste export surplus for intra and extra EU27+3: 135 kt estimated export in 2022, and 135 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

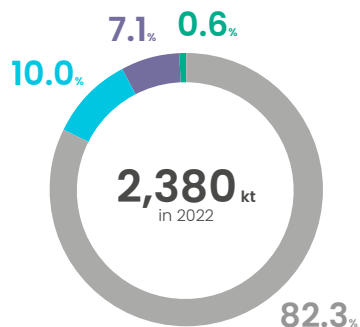
Plastics production

2022



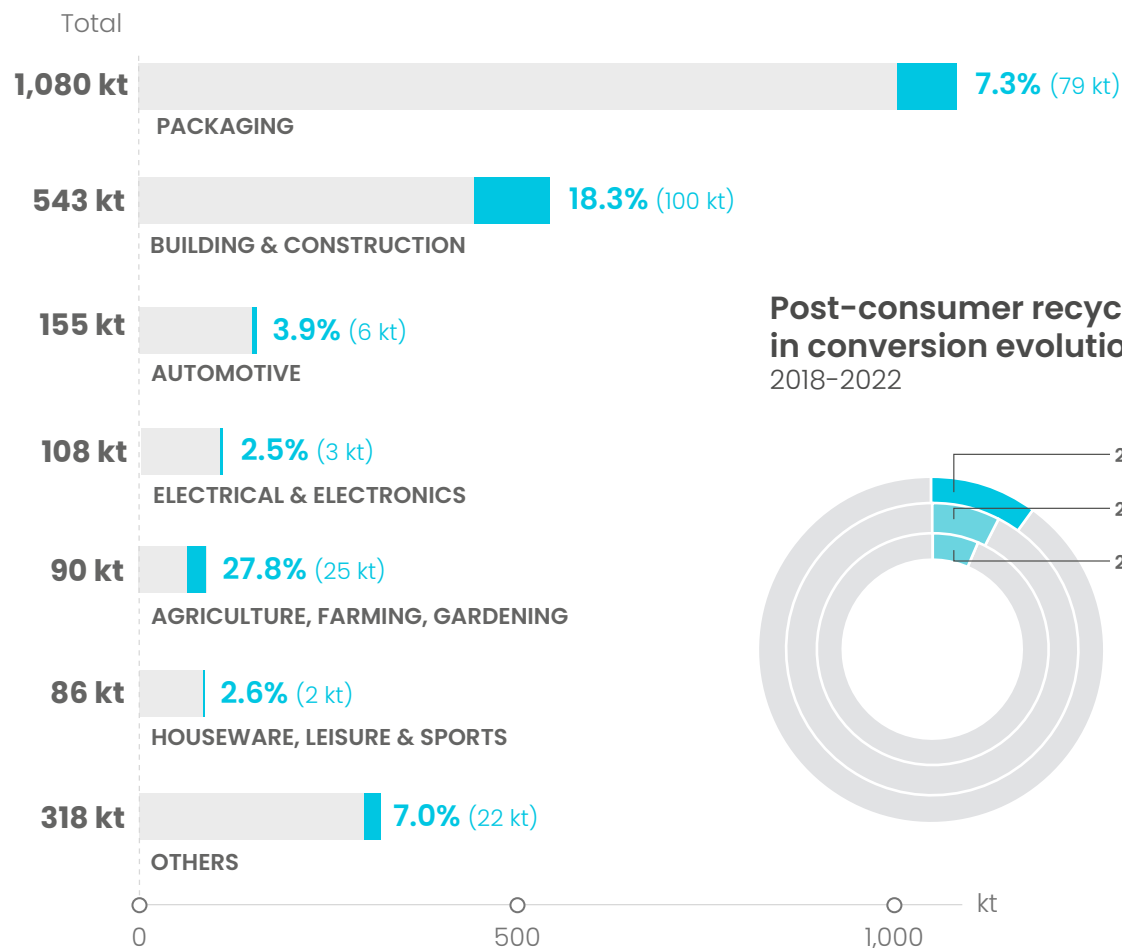
Plastics conversion

2022



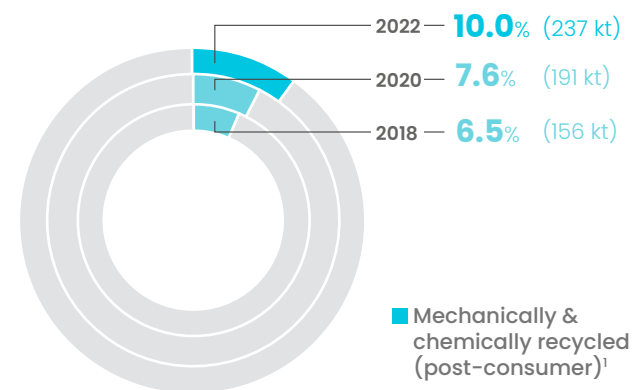
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



■ Fossil-based

■ Mechanically & chemically recycled (post-consumer)¹

■ Mechanically recycled (pre-consumer)

■ Bio-based²

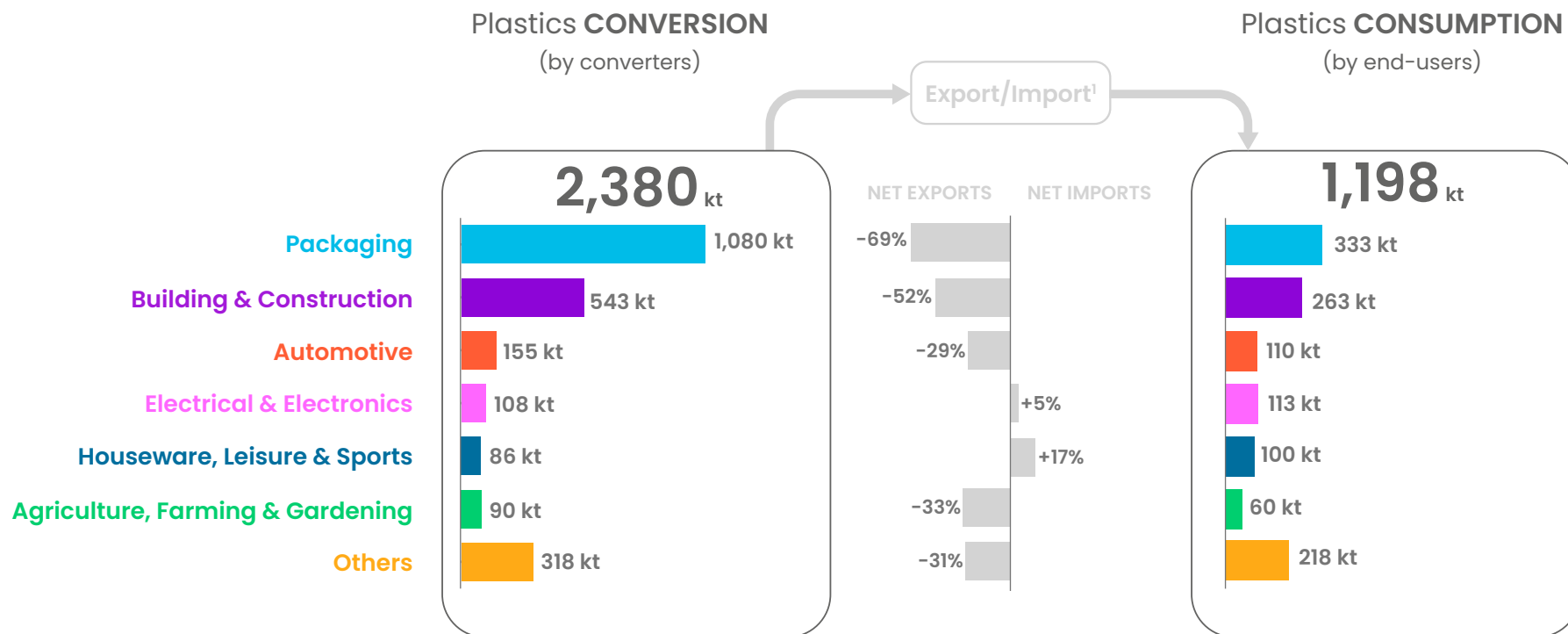
The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

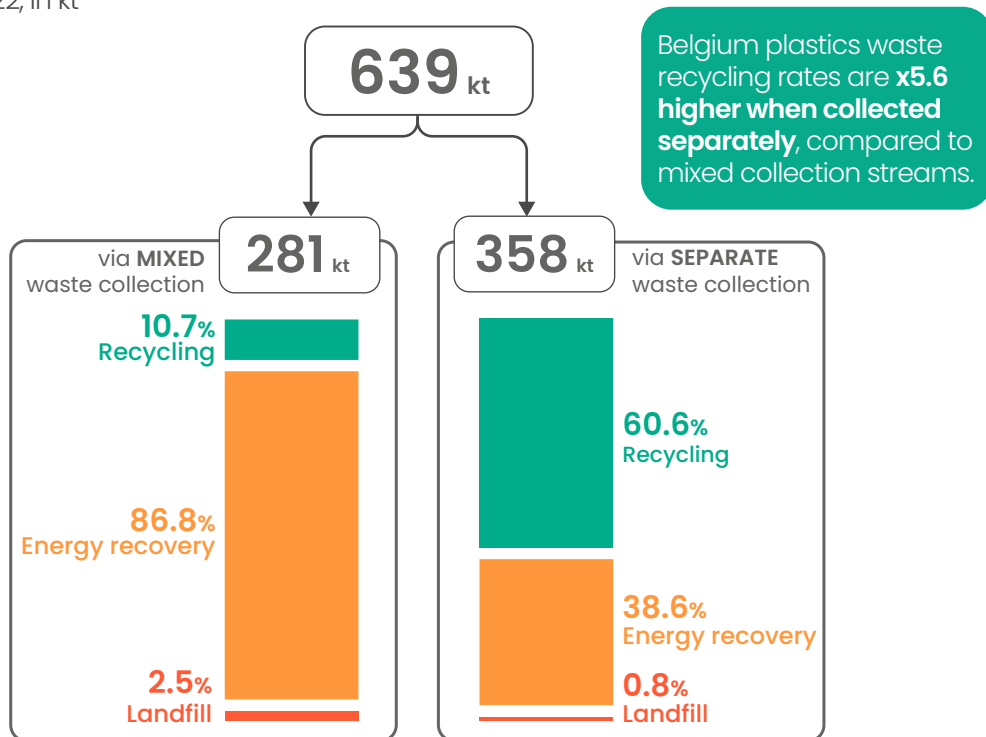
2. For data availability reasons, bio-attributed plastics are not included in national data.

Plastic products conversion, trade and national consumption

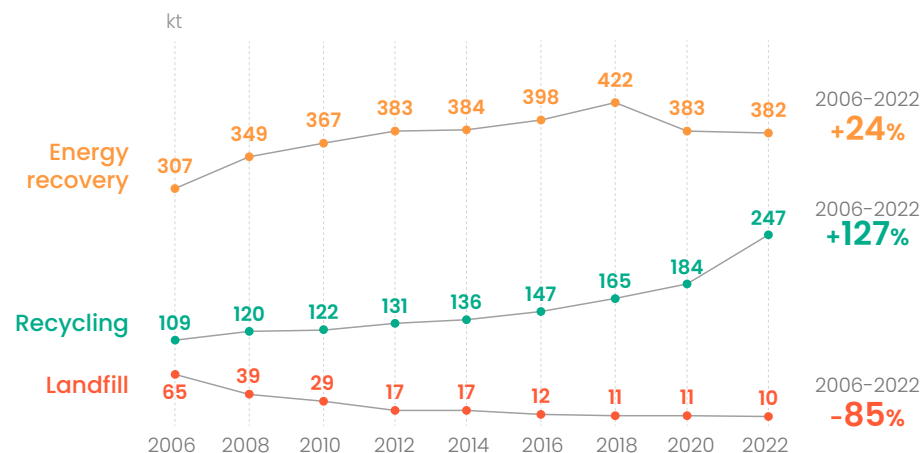
2022, in kt



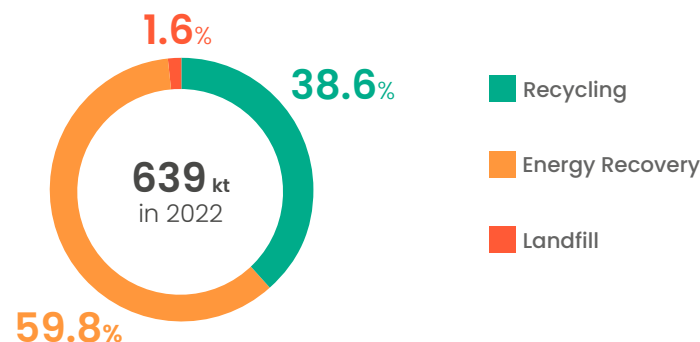
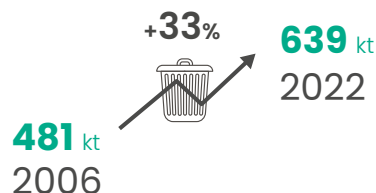
Collection and treatment of post-consumer plastics waste 2022, in kt



Post-consumer plastics waste treatment evolution 2006-2022, in kt

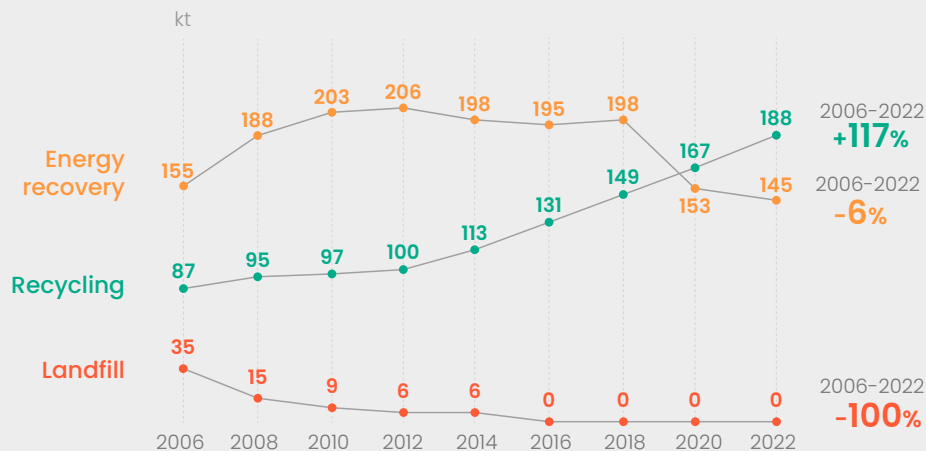


Waste collection evolution 2006-2022

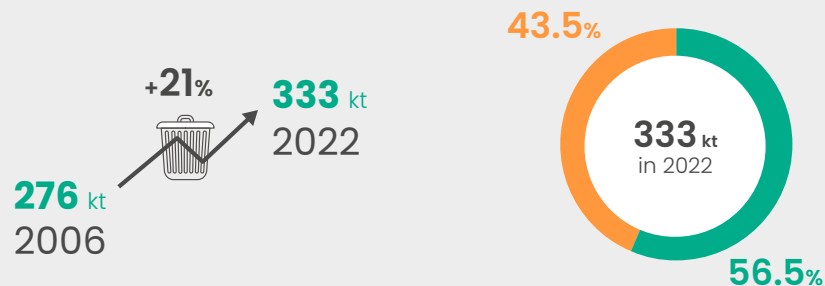


PACKAGING¹

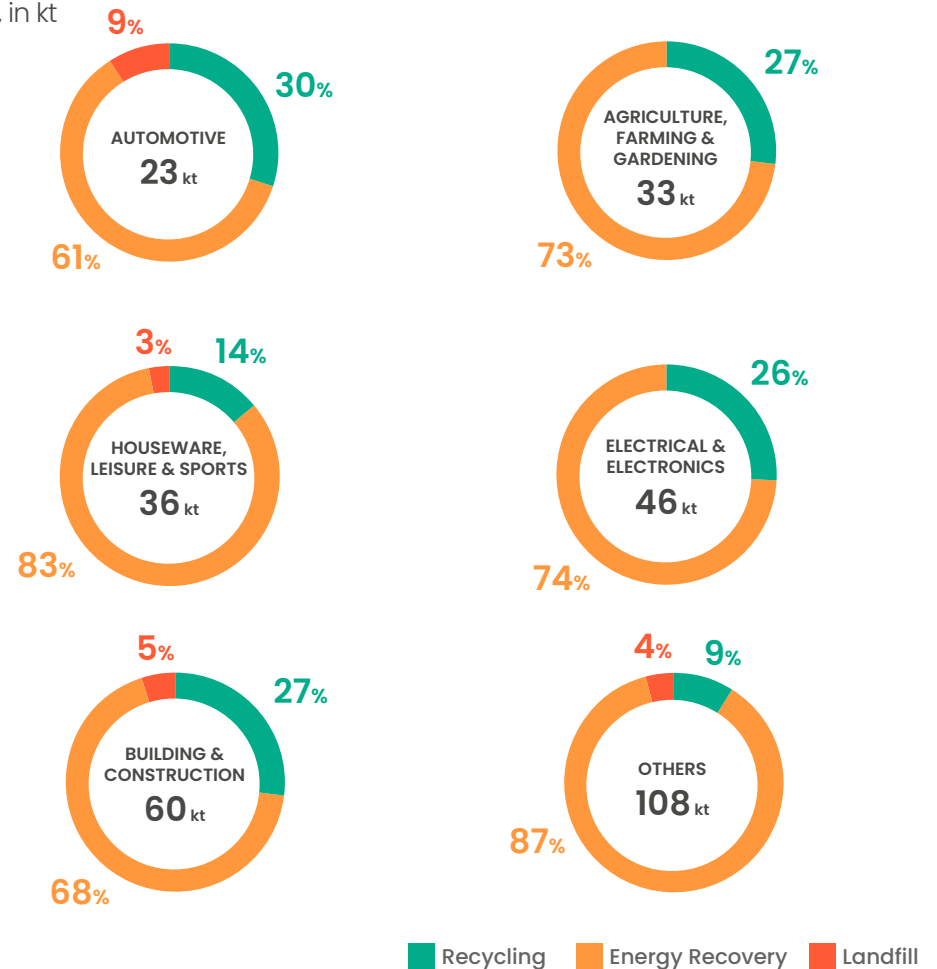
Post-consumer plastics PACKAGING waste treatment evolution 2006-2022, in kt

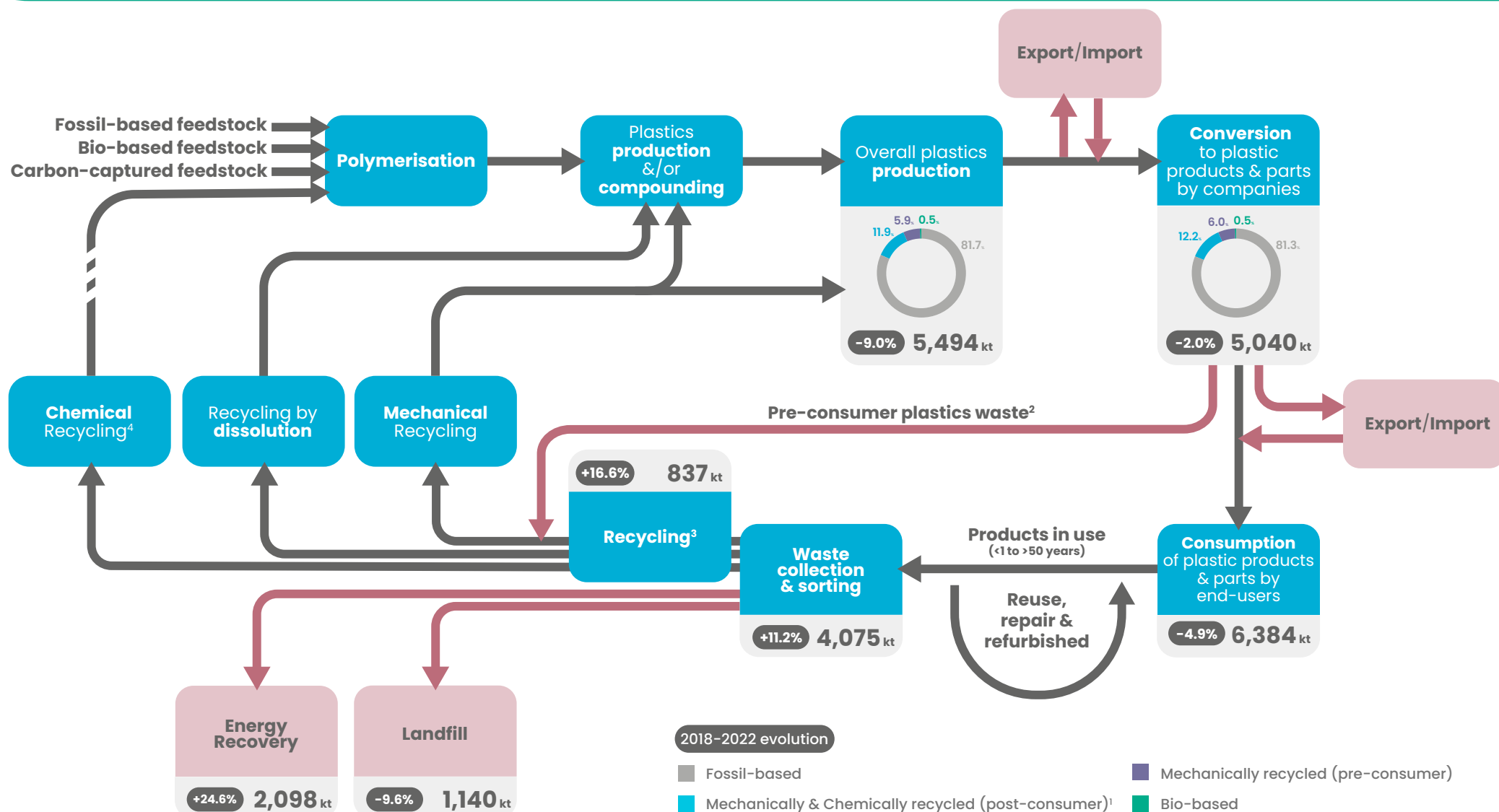


Plastics PACKAGING waste collection evolution 2006-2022



Post-consumer plastics waste collection and treatment by application 2022, in kt





The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

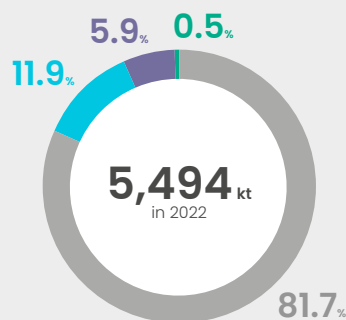
2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

3. Including 278 kt recycling of French plastics waste abroad (intra-EU27+3 included). French plastics waste export surplus for intra and extra EU27+3: 344 kt estimated export in 2022, and 176 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

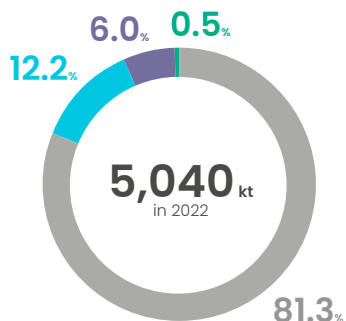
Plastics production

2022



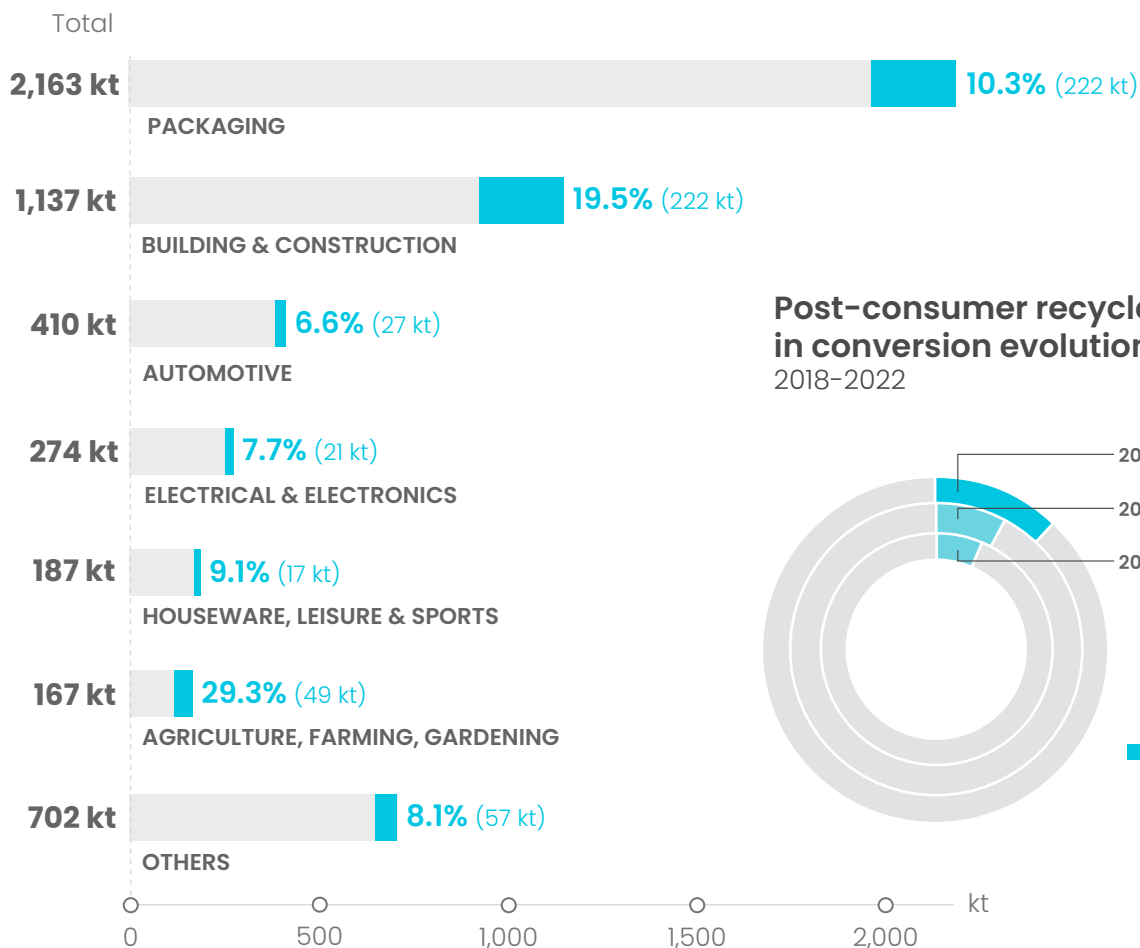
Plastics conversion

2022



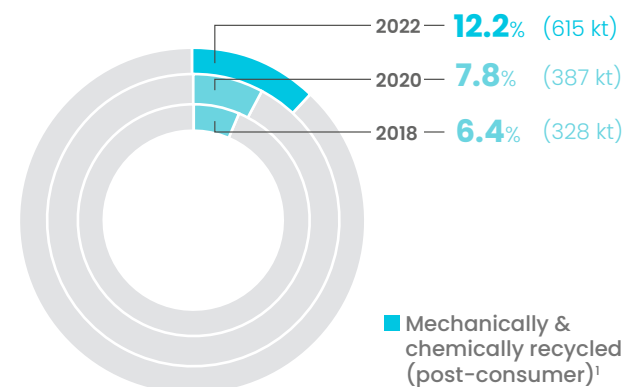
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



■ Fossil-based

■ Mechanically & chemically recycled (post-consumer)¹

■ Mechanically recycled (pre-consumer)

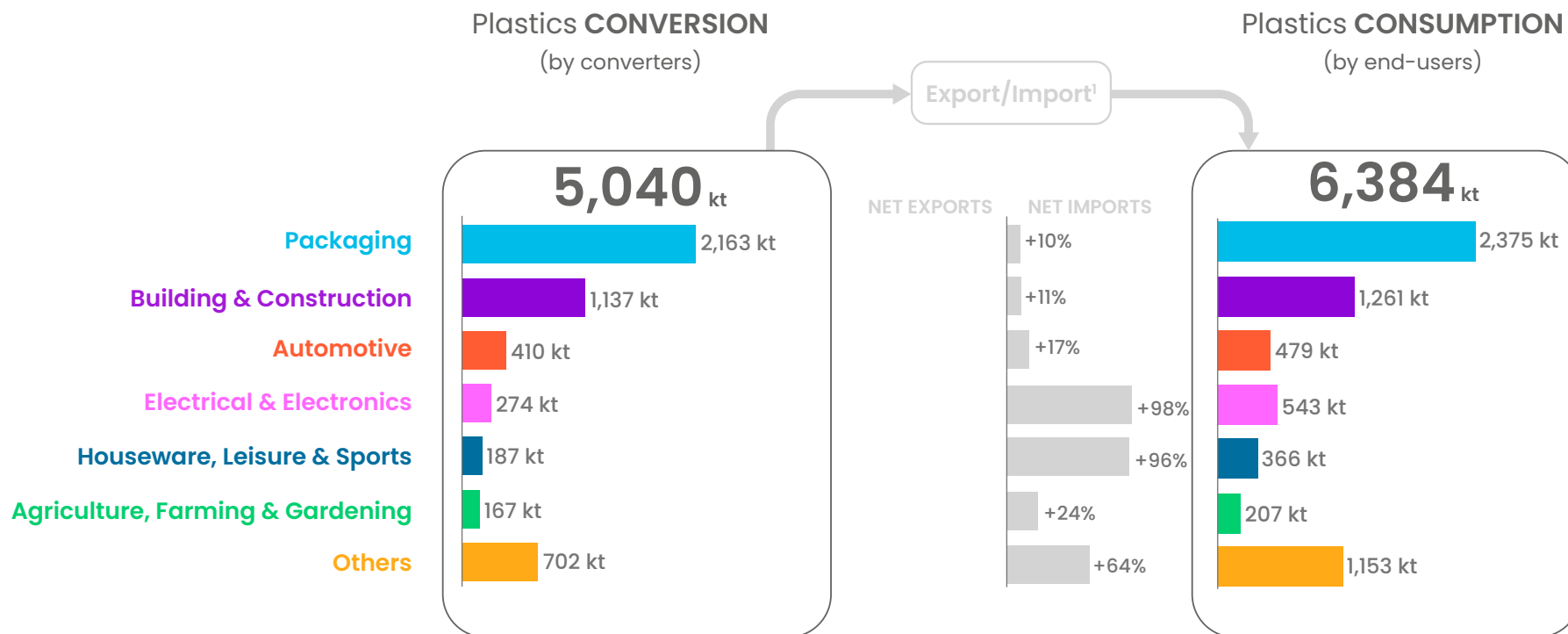
■ Bio-based²

The above data are rounded estimations.

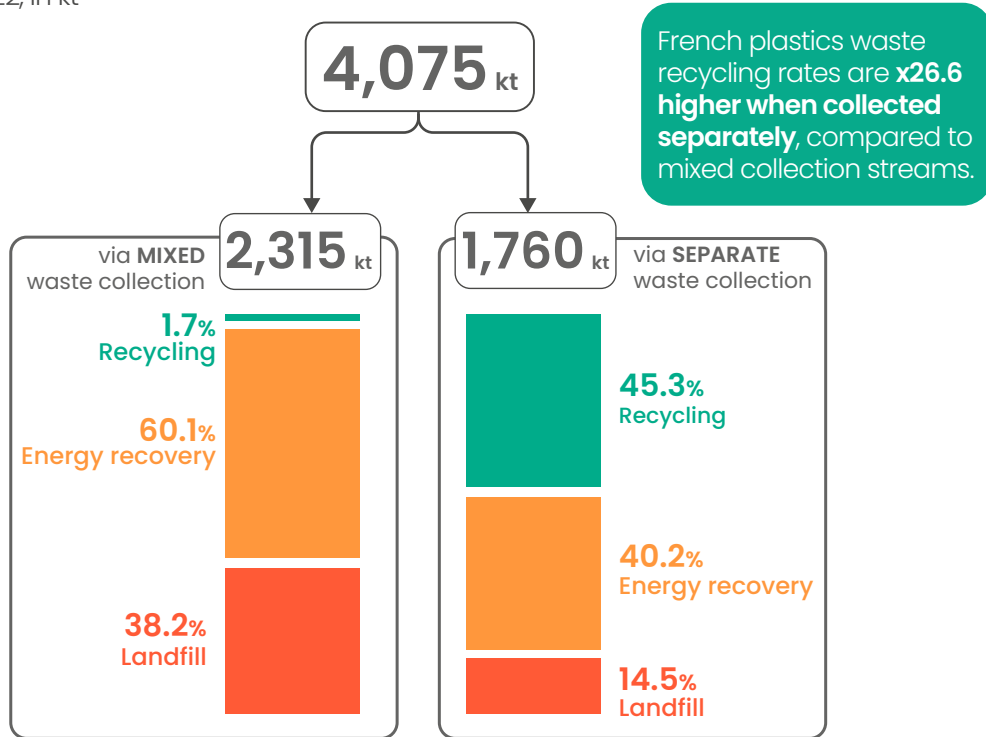
1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

2. For data availability reasons, bio-attributed plastics are not included in national data.

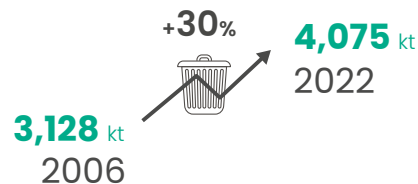
Plastic products conversion, trade and national consumption
2022, in kt



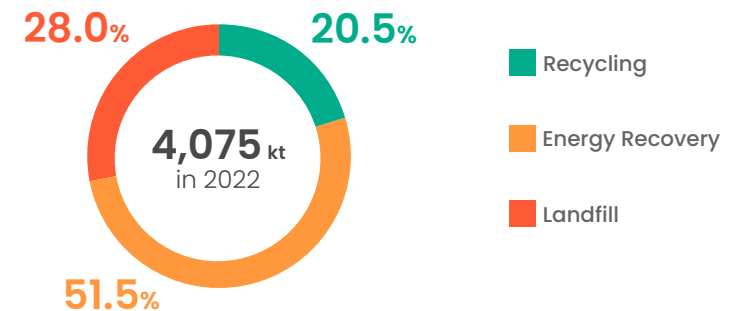
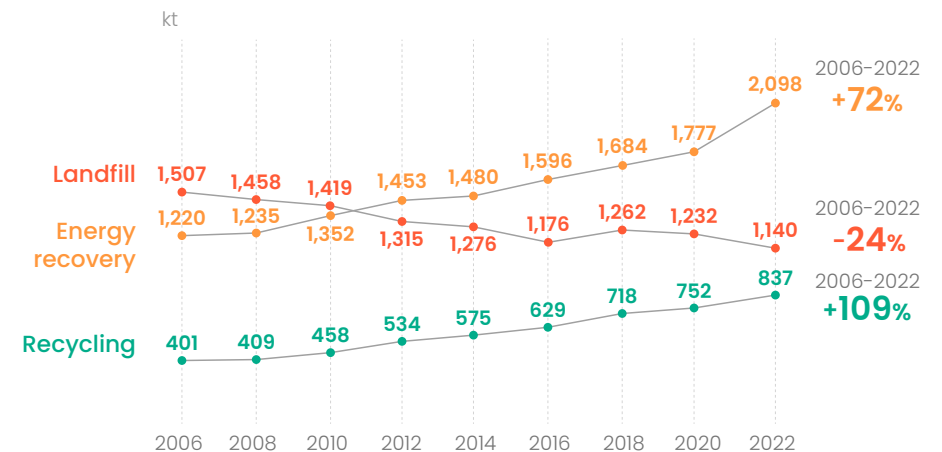
Collection and treatment of post-consumer plastics waste
2022, in kt



Waste collection evolution
2006-2022

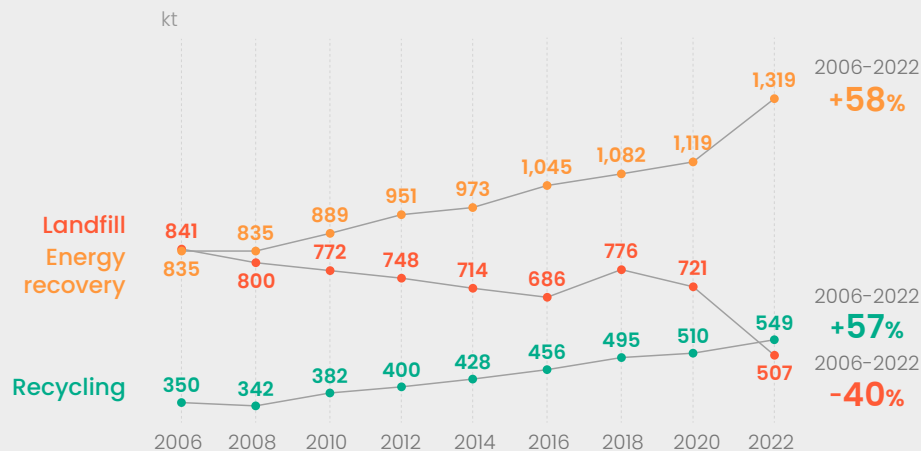


Post-consumer plastics waste treatment evolution
2006-2022, in kt

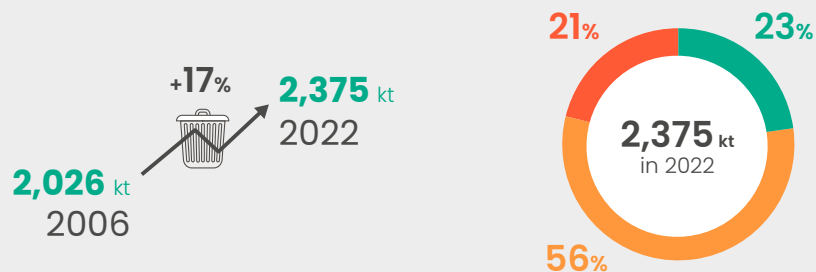


PACKAGING¹

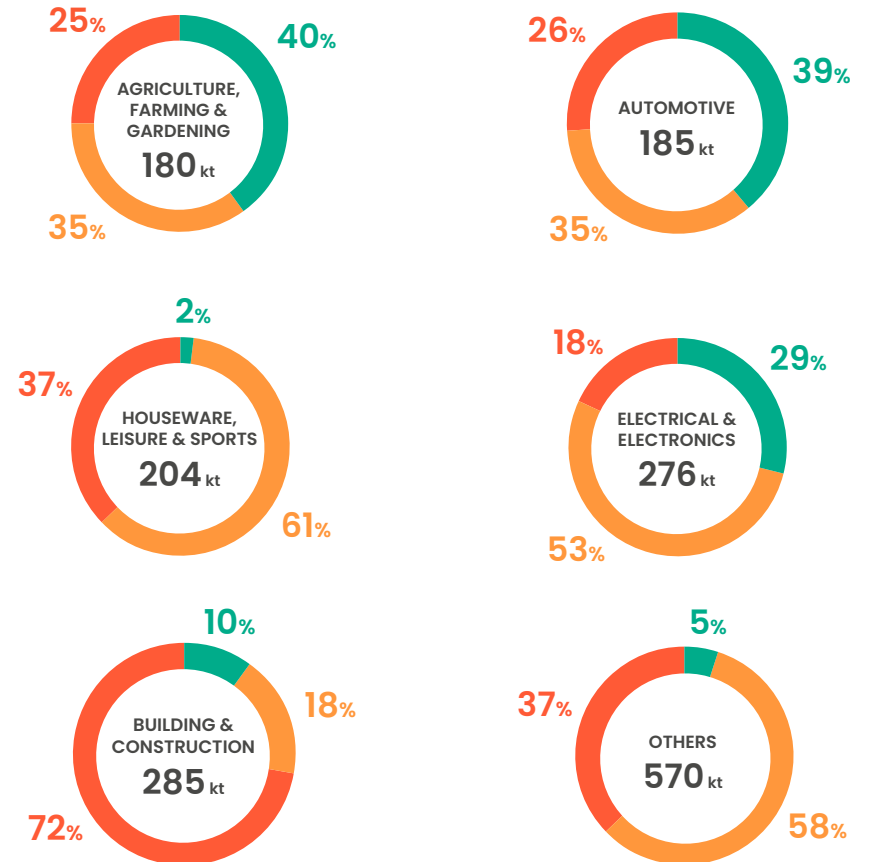
Post-consumer plastics PACKAGING waste treatment evolution
2006-2022, in kt



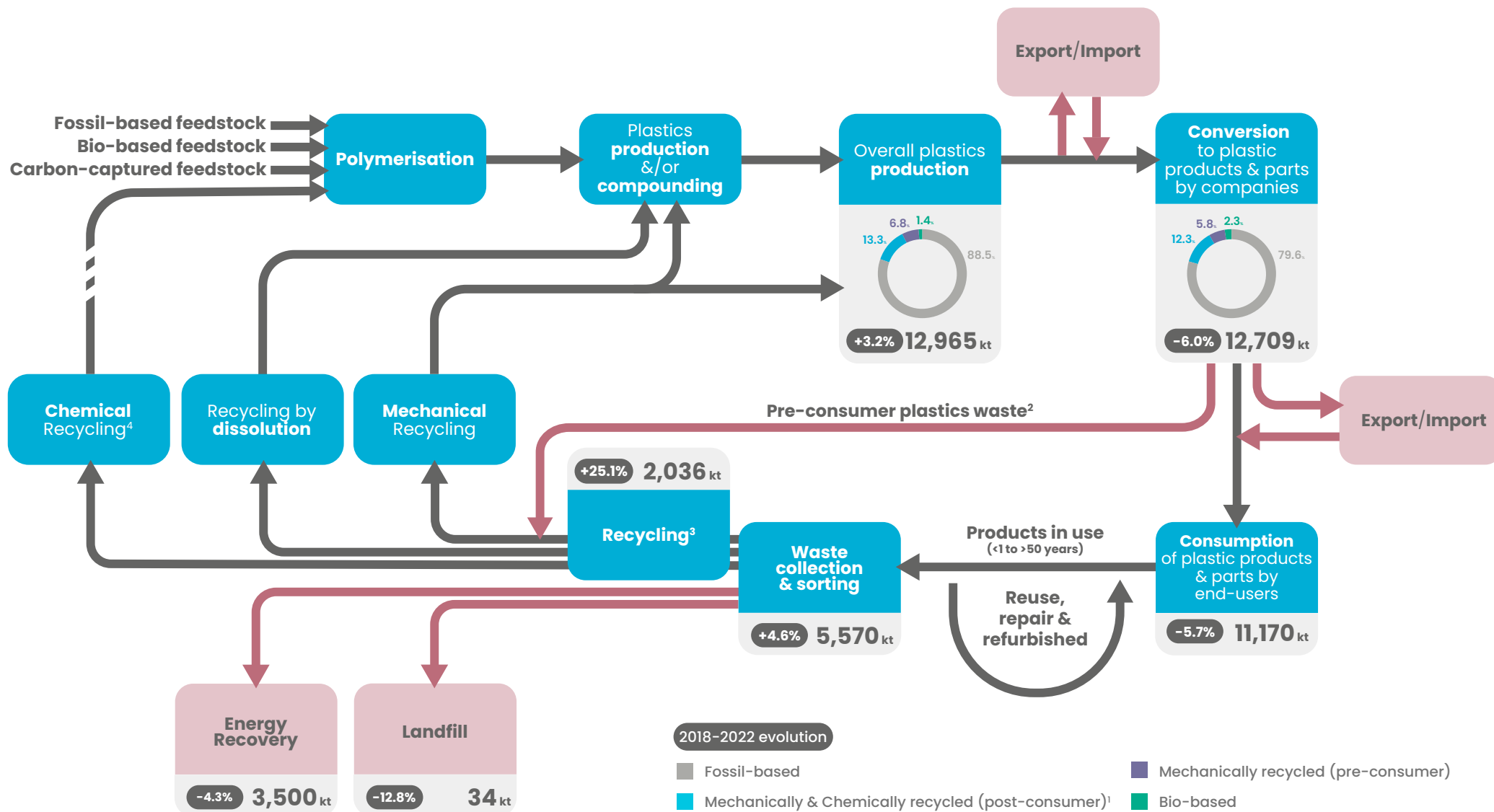
Plastics PACKAGING waste collection evolution
2006-2022



Post-consumer plastics waste collection and treatment by application
2022, in kt



■ Recycling ■ Energy Recovery ■ Landfill



The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

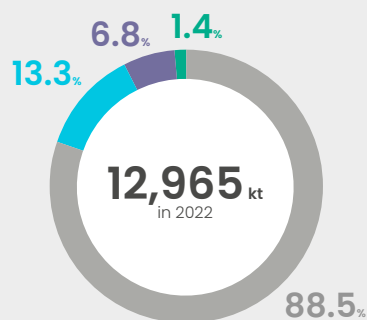
2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

3. Including 592 kt recycling of German plastics waste abroad (intra-EU27+3 included). German plastics waste export surplus for intra and extra EU27+3: 743 kt estimated export in 2022, and 521 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

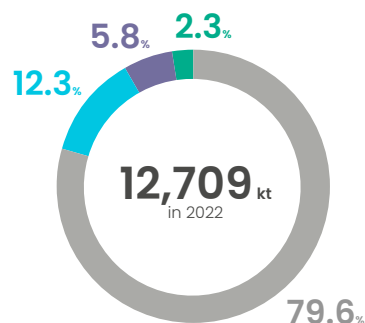
Plastics production

2022



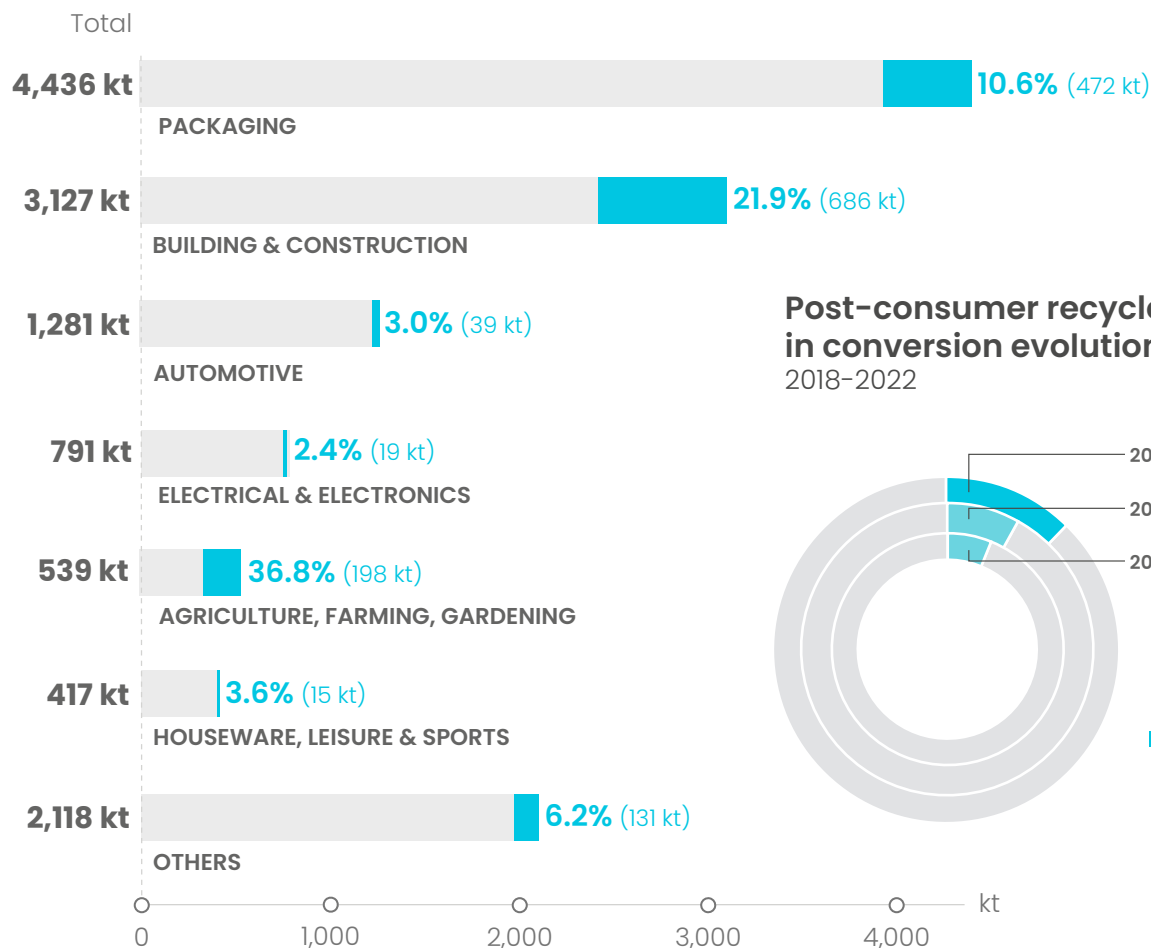
Plastics conversion

2022



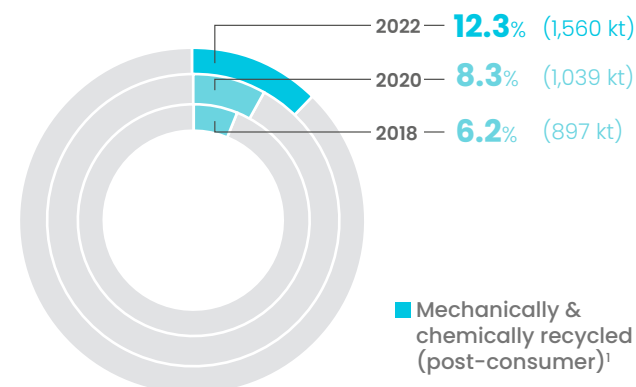
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



■ Fossil-based

■ Mechanically & chemically recycled (post-consumer)¹

■ Mechanically recycled (pre-consumer)

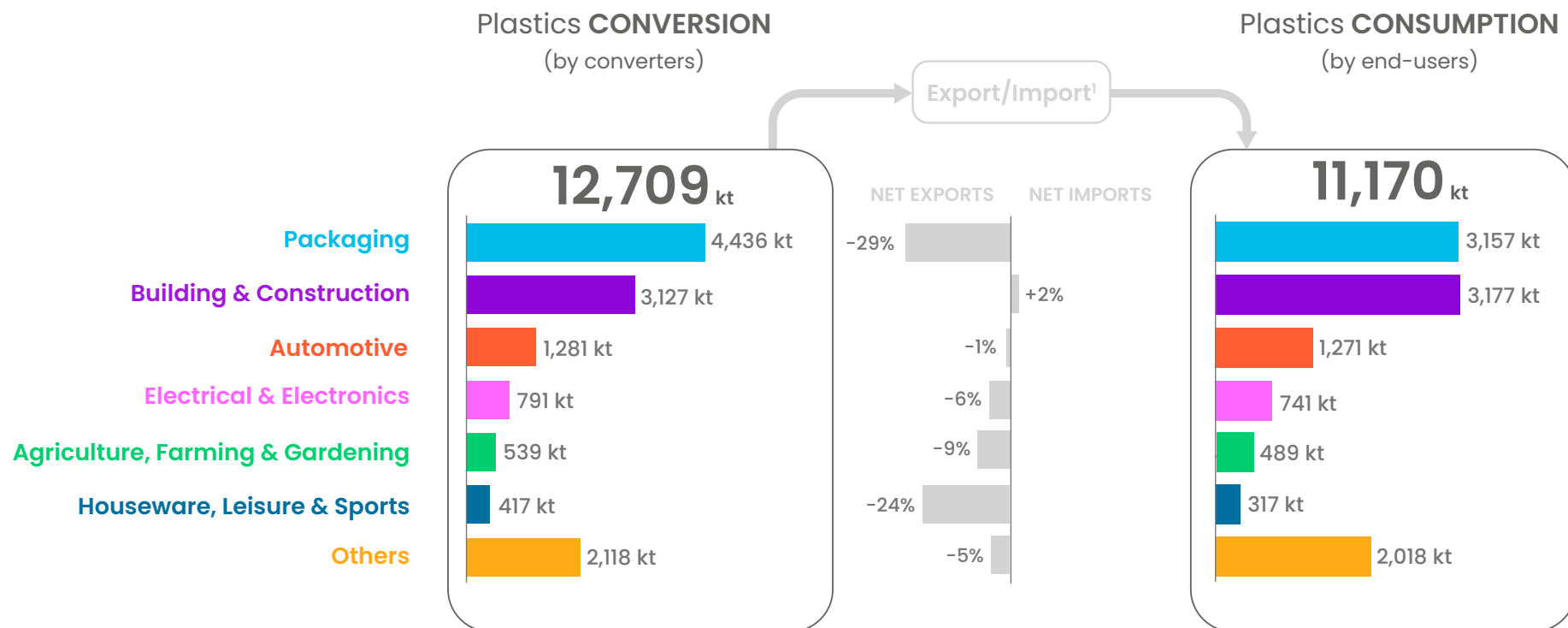
■ Bio-based²

The above data are rounded estimations.

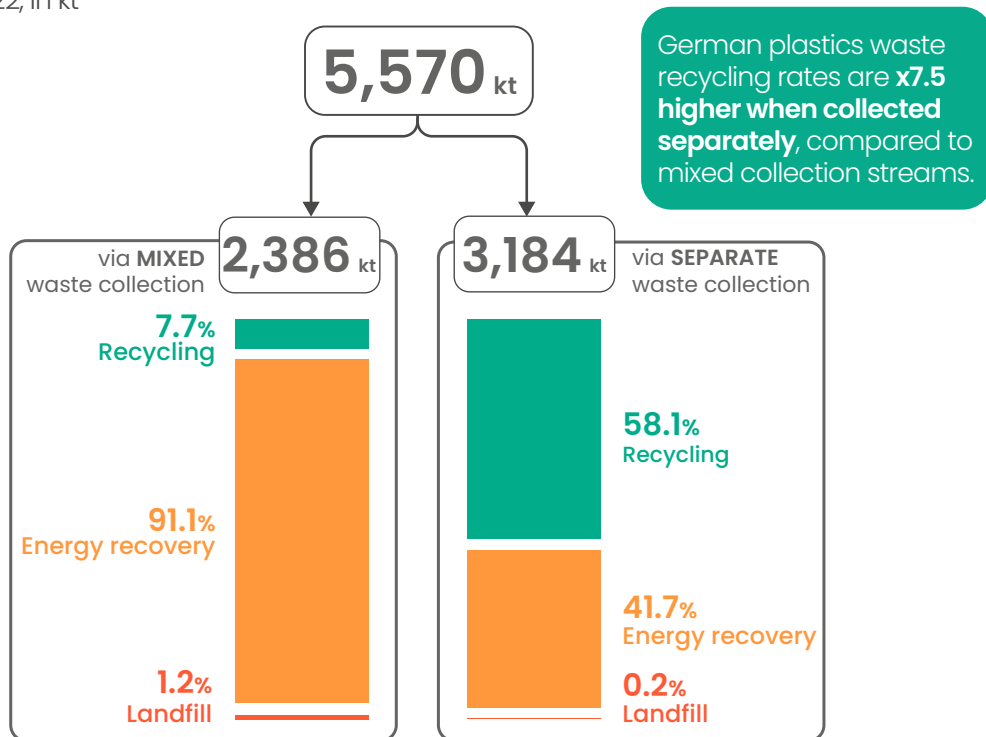
1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

2. For data availability reasons, bio-attributed plastics are not included in national data.

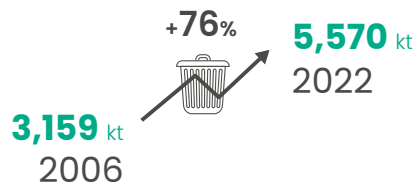
Plastic products conversion, trade and national consumption
2022, in kt



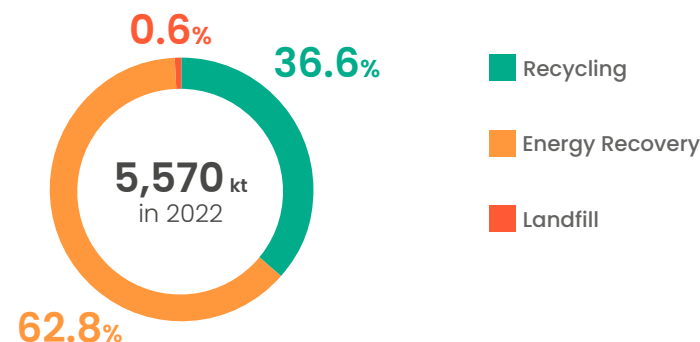
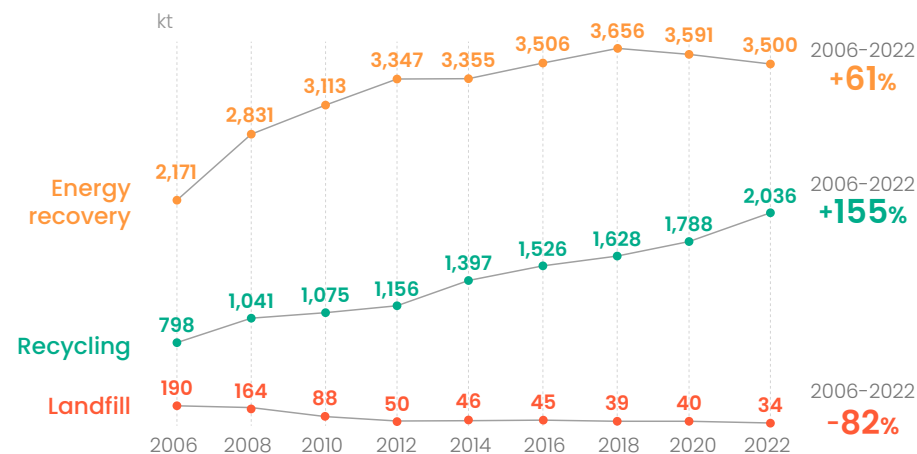
Collection and treatment of post-consumer plastics waste 2022, in kt



Waste collection evolution 2006-2022

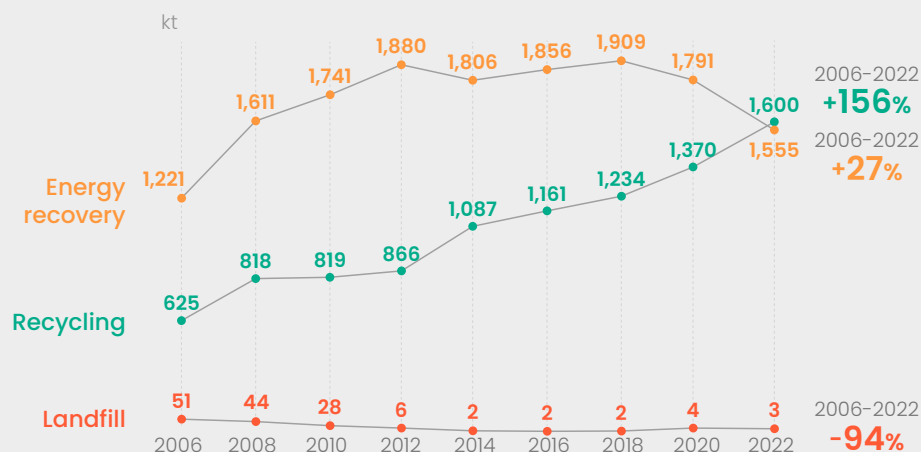


Post-consumer plastics waste treatment evolution 2006-2022, in kt

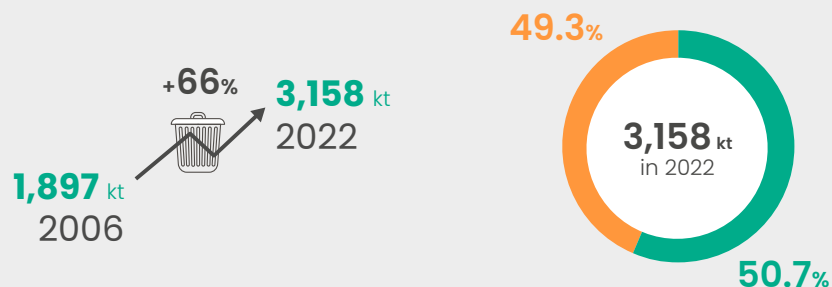


PACKAGING¹

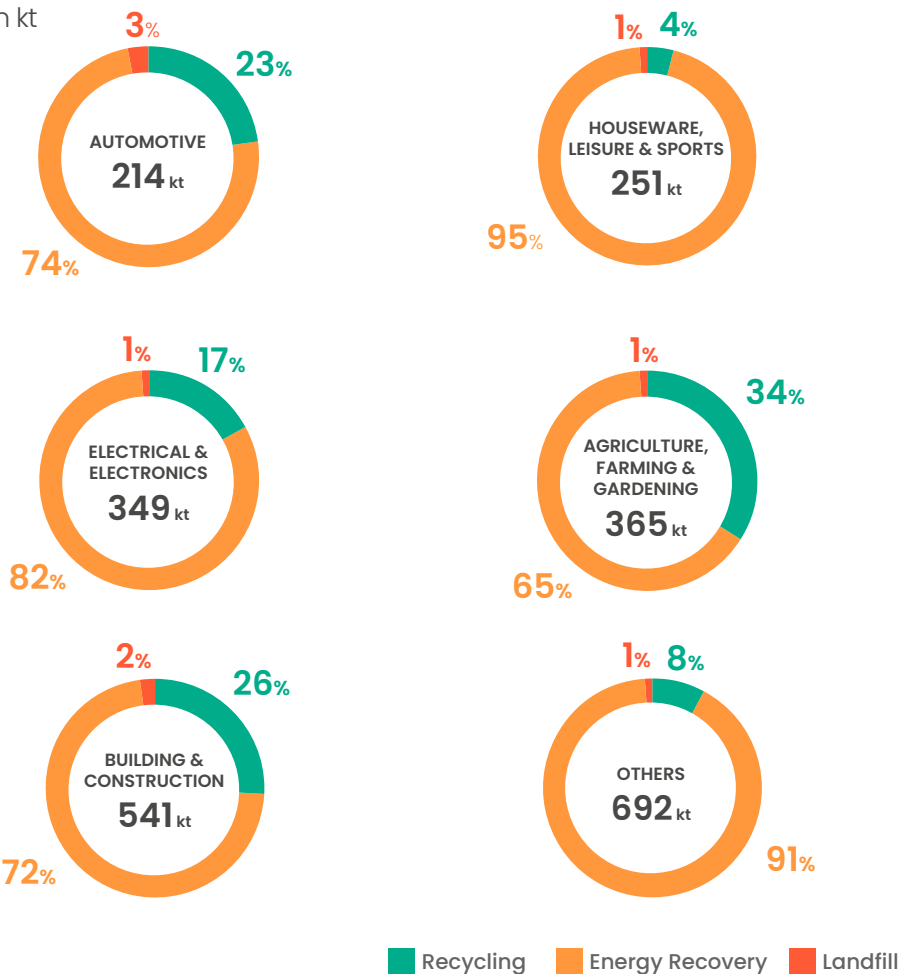
Post-consumer plastics PACKAGING waste treatment evolution 2006-2022, in kt

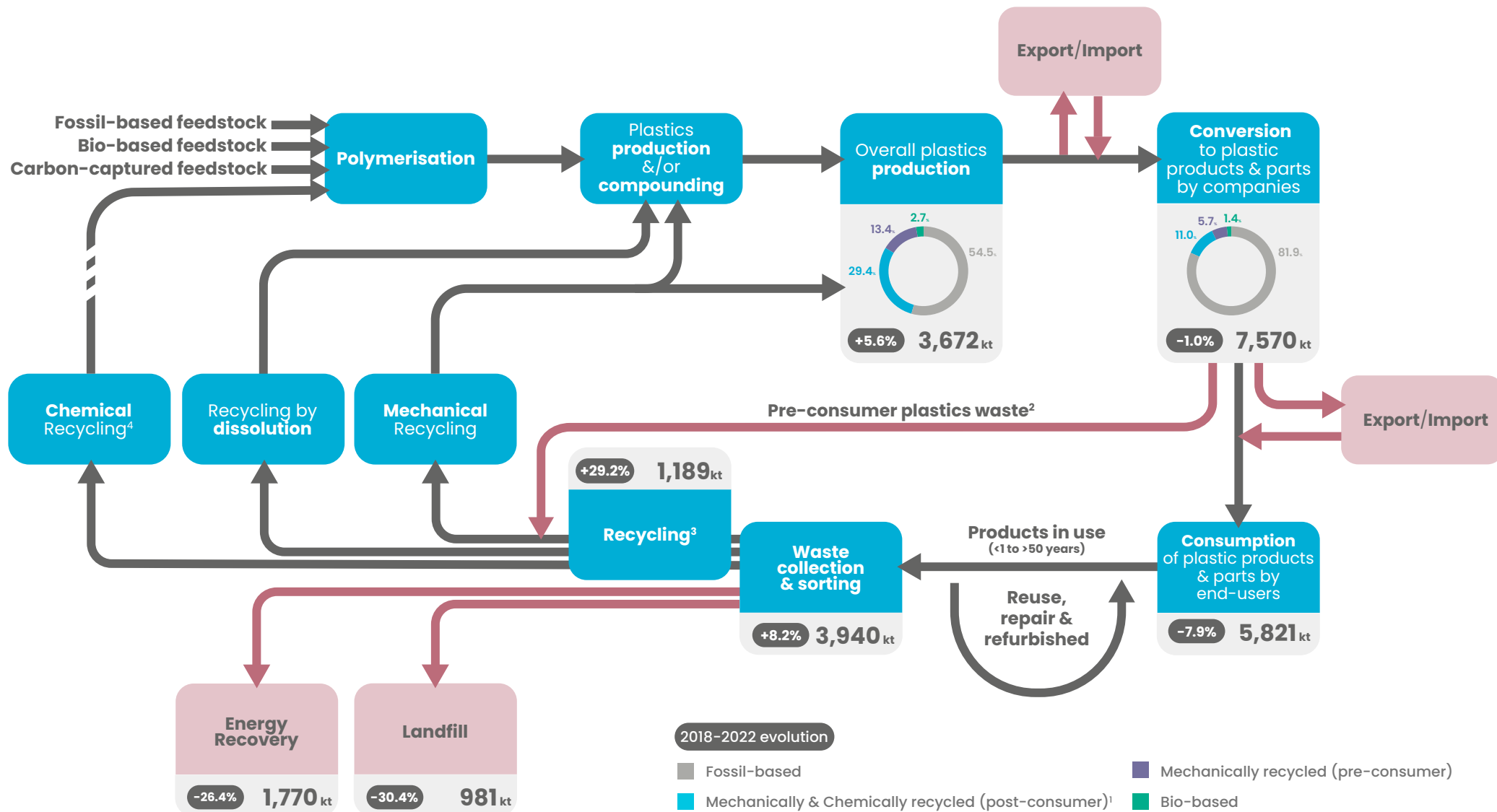


Plastics PACKAGING waste collection evolution 2006-2022



Post-consumer plastics waste collection and treatment by application 2022, in kt





The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

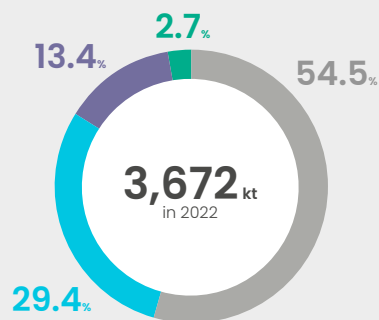
2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

3. Including 167 kt recycling of Italian plastics waste abroad (intra-EU27+3 included). Italian plastics waste export surplus for intra and extra EU27+3: 206 kt estimated export in 2022, and 176 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

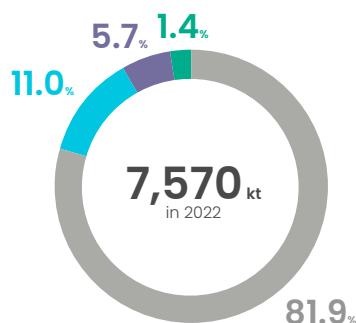
Plastics production

2022



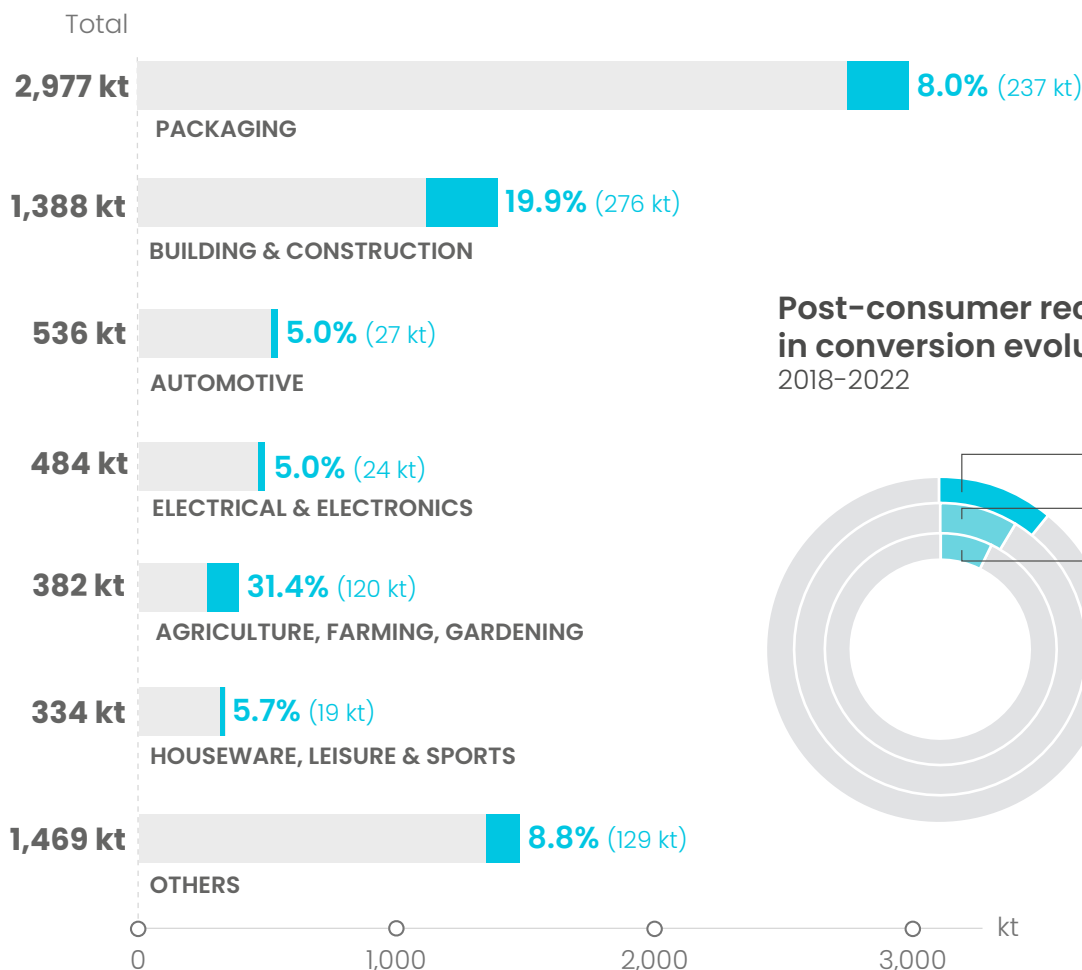
Plastics conversion

2022



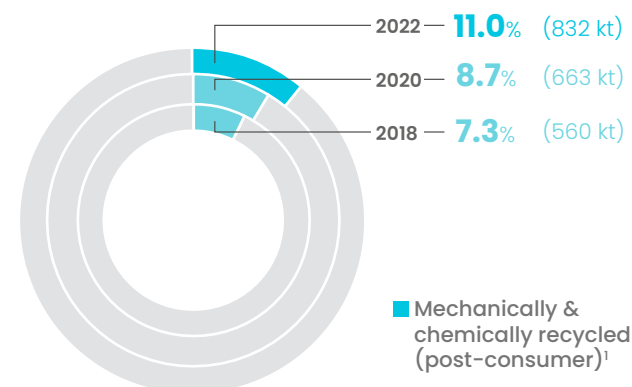
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



■ Fossil-based

■ Mechanically & chemically recycled (post-consumer)¹

■ Mechanically recycled (pre-consumer)

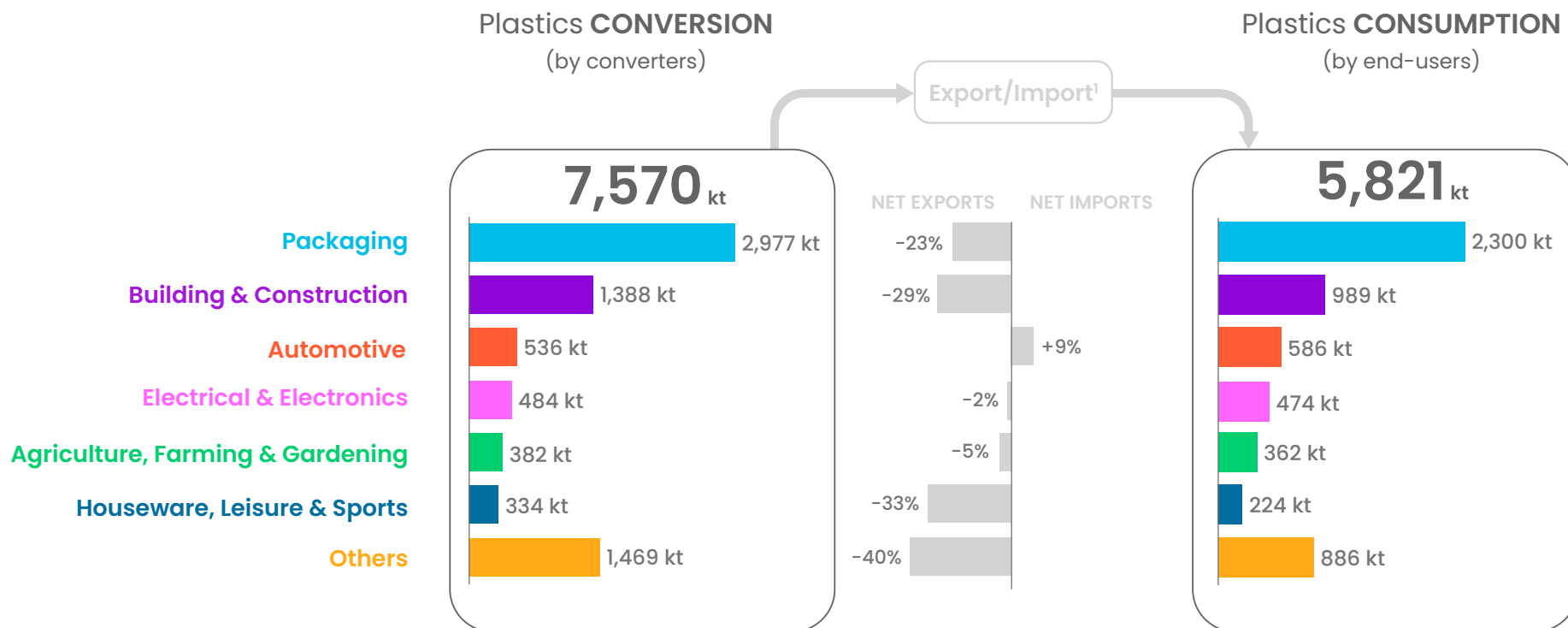
■ Bio-based²

The above data are rounded estimations.

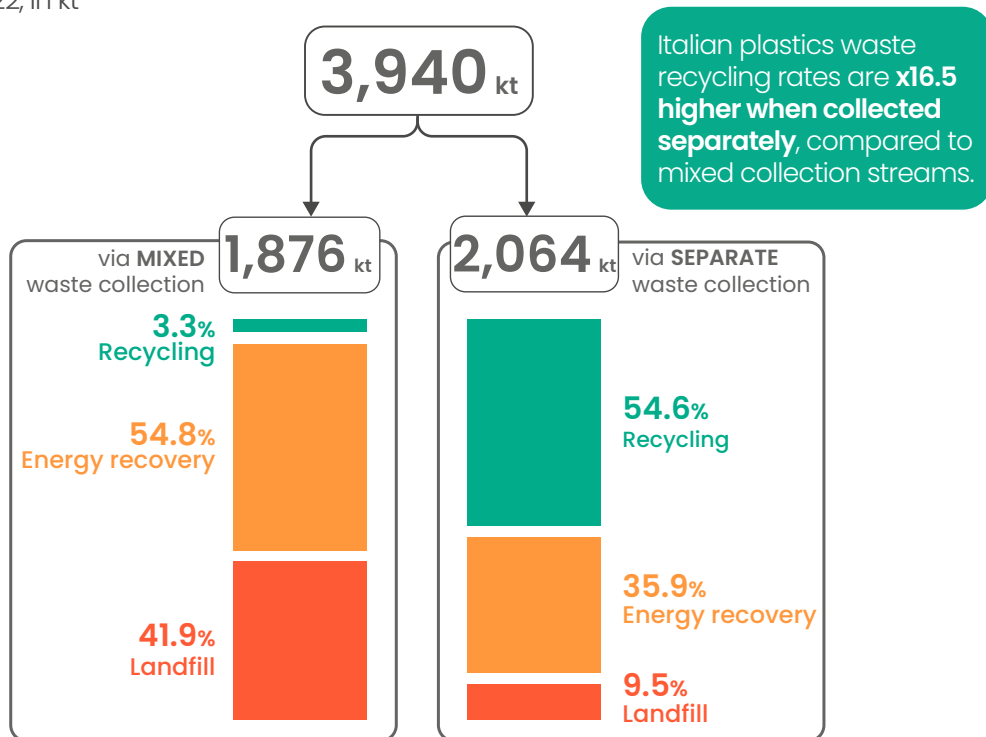
1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

2. For data availability reasons, bio-attributed plastics are not included in national data.

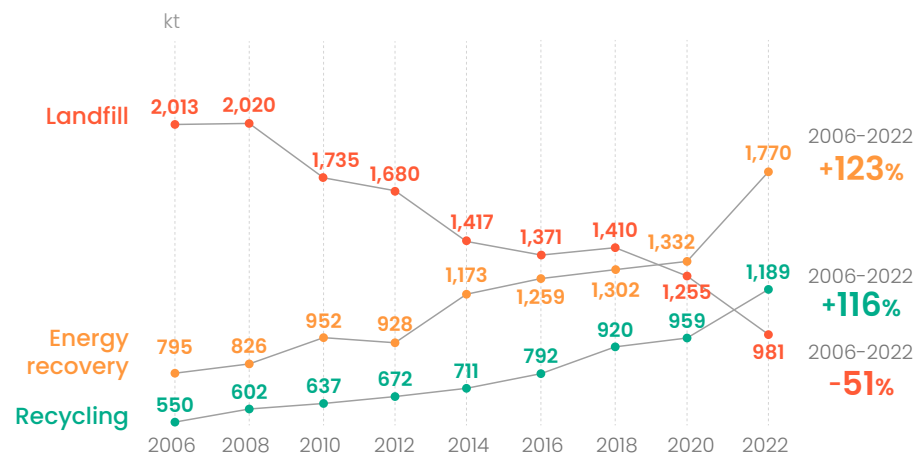
Plastic products conversion, trade and national consumption
2022, in kt



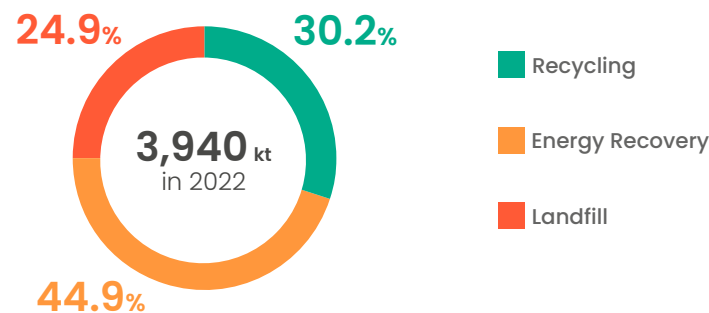
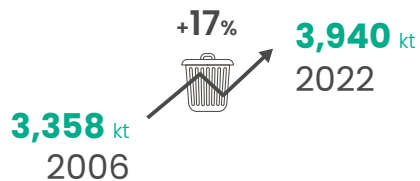
Collection and treatment of post-consumer plastics waste 2022, in kt



Post-consumer plastics waste treatment evolution 2006-2022, in kt

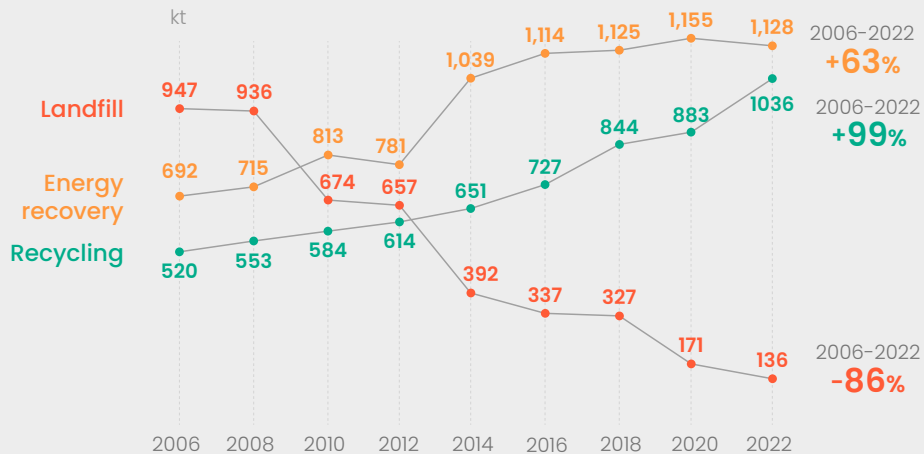


Waste collection evolution 2006-2022

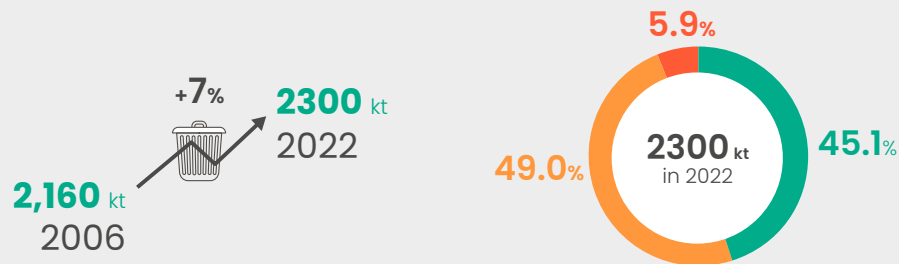


PACKAGING¹

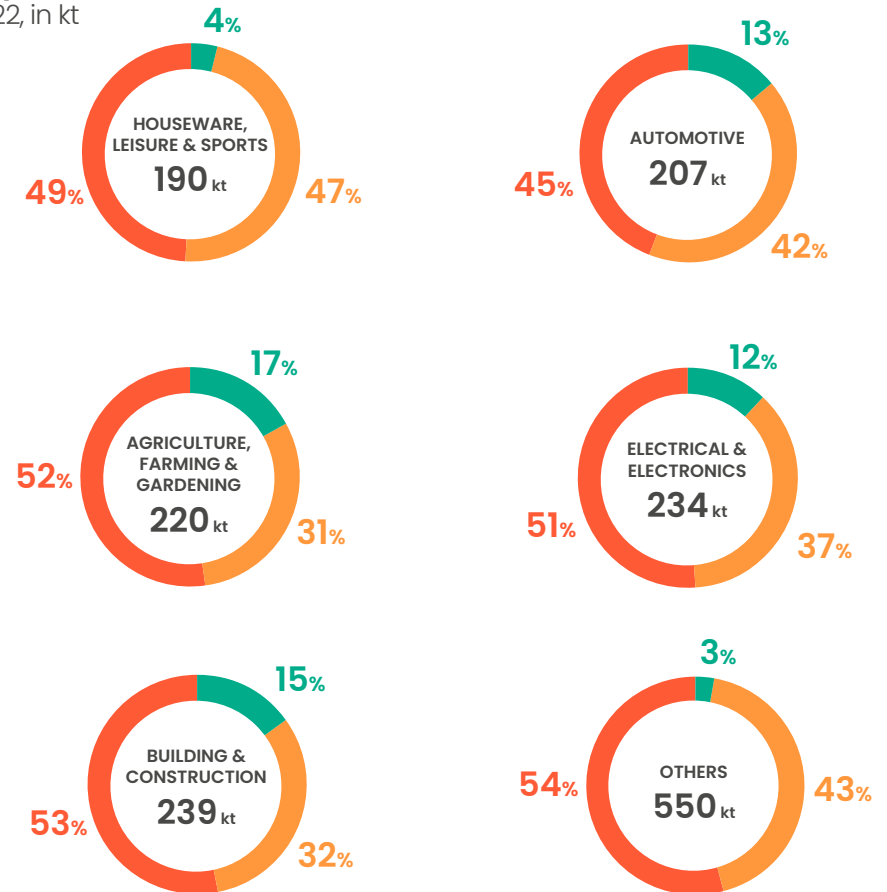
Post-consumer plastics PACKAGING waste treatment evolution
2006-2022, in kt



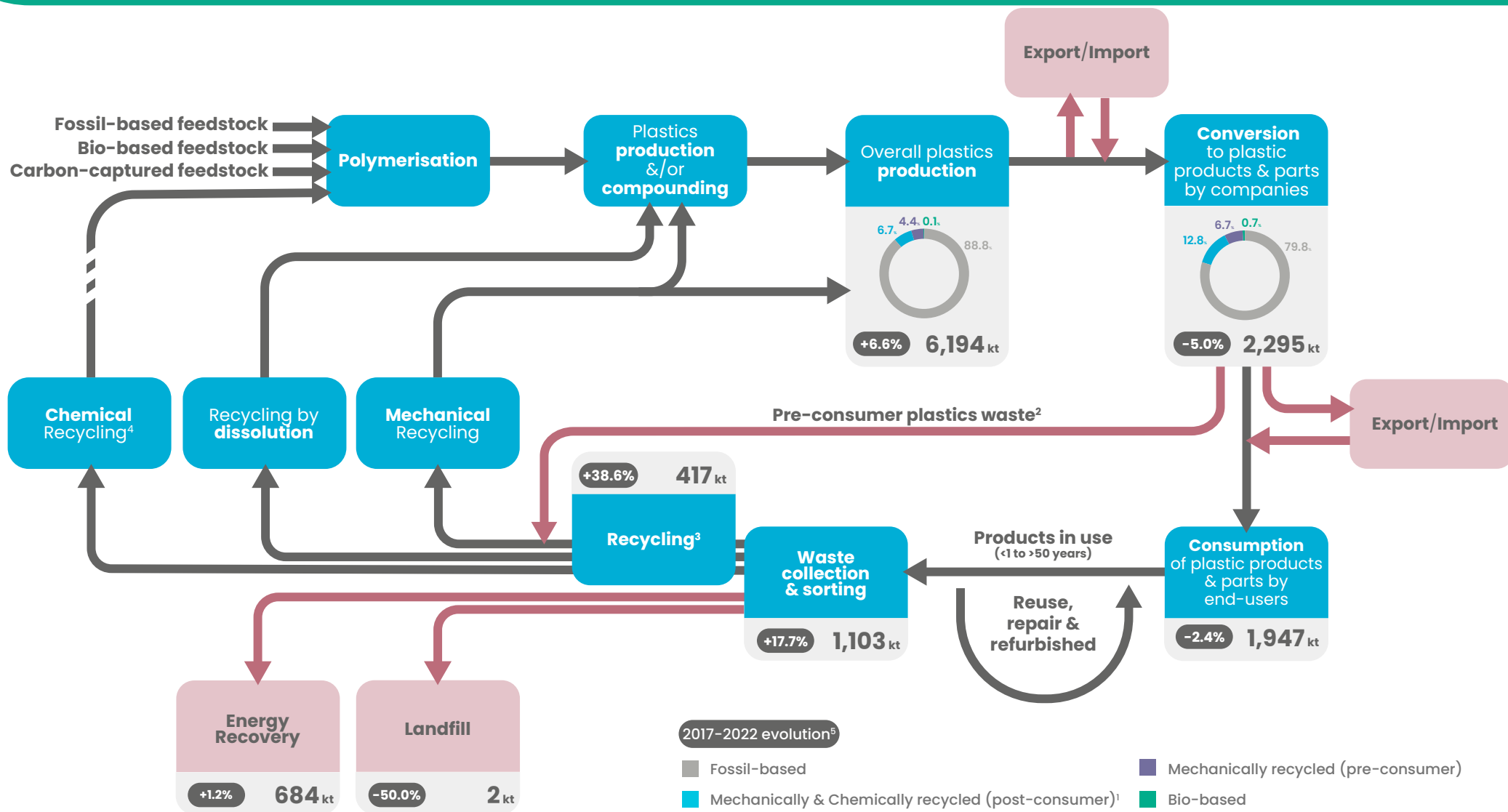
Plastics PACKAGING waste collection evolution
2006-2022



Post-consumer plastics waste collection and treatment by application
2022, in kt



■ Recycling ■ Energy Recovery ■ Landfill



The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

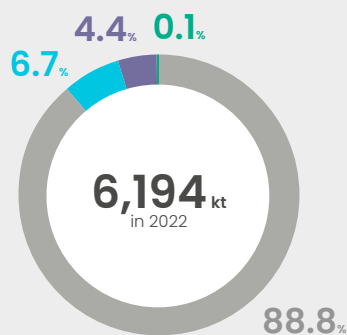
3. Including 308 kt recycling of Dutch plastics waste abroad (intra-EU27+3 included). Dutch plastics waste import surplus for intra and extra EU27+3: 380 kt estimated export in 2022, and 430 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

5. For data availability reasons, only a 2017-2022 comparison for Dutch waste figures can be made.

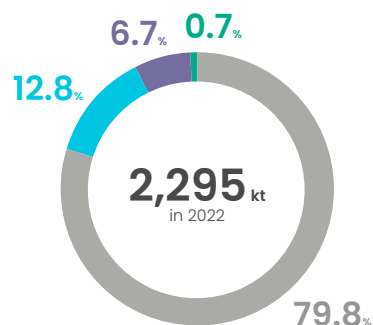
Plastics production

2022



Plastics conversion

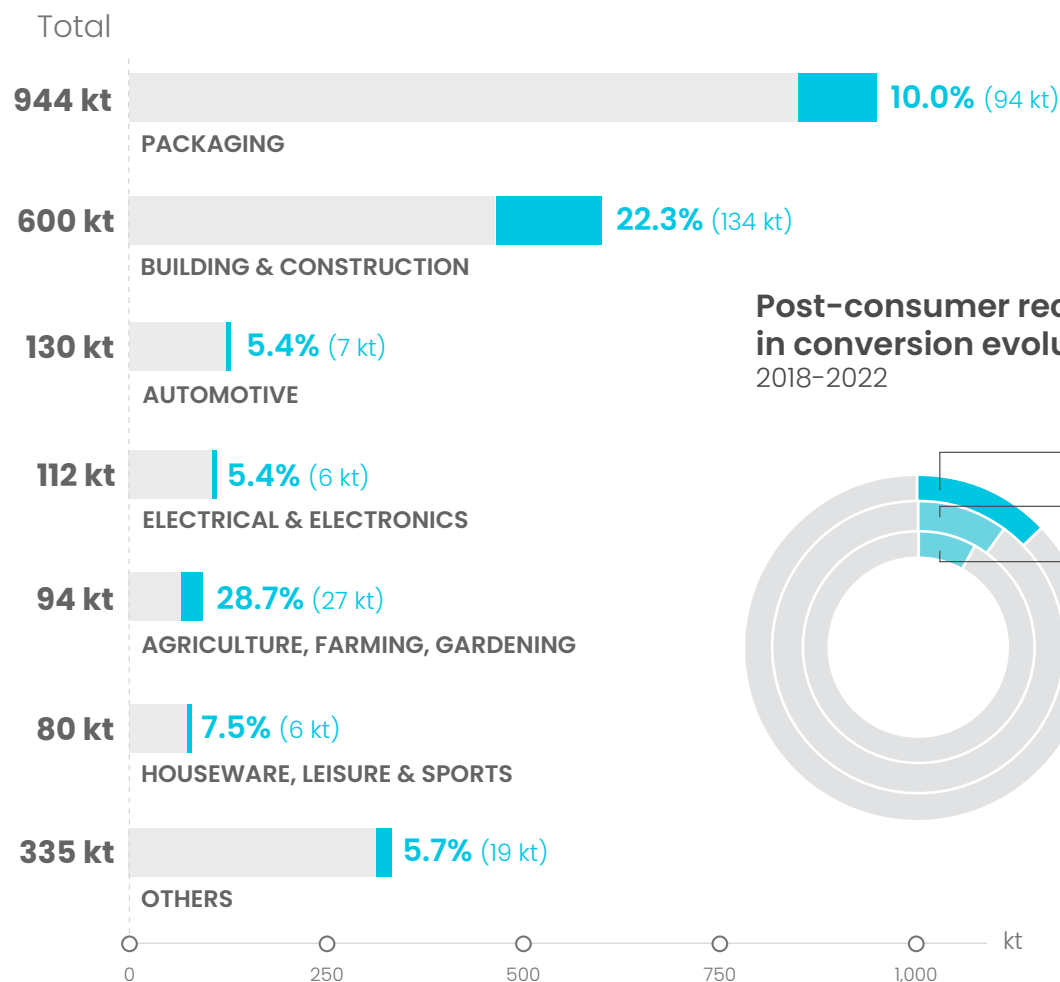
2022



■ Fossil-based
■ Mechanically & chemically recycled (post-consumer)¹
■ Mechanically recycled (pre-consumer)
■ Bio-based²

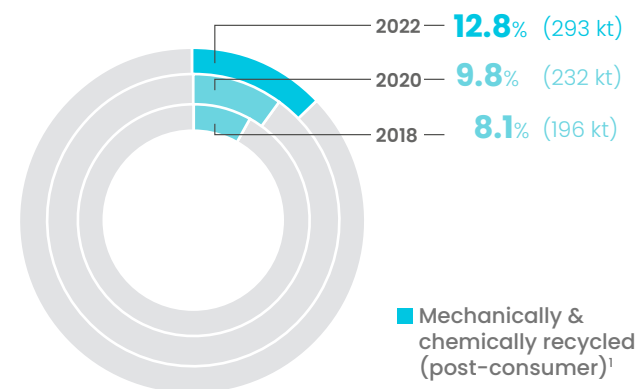
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



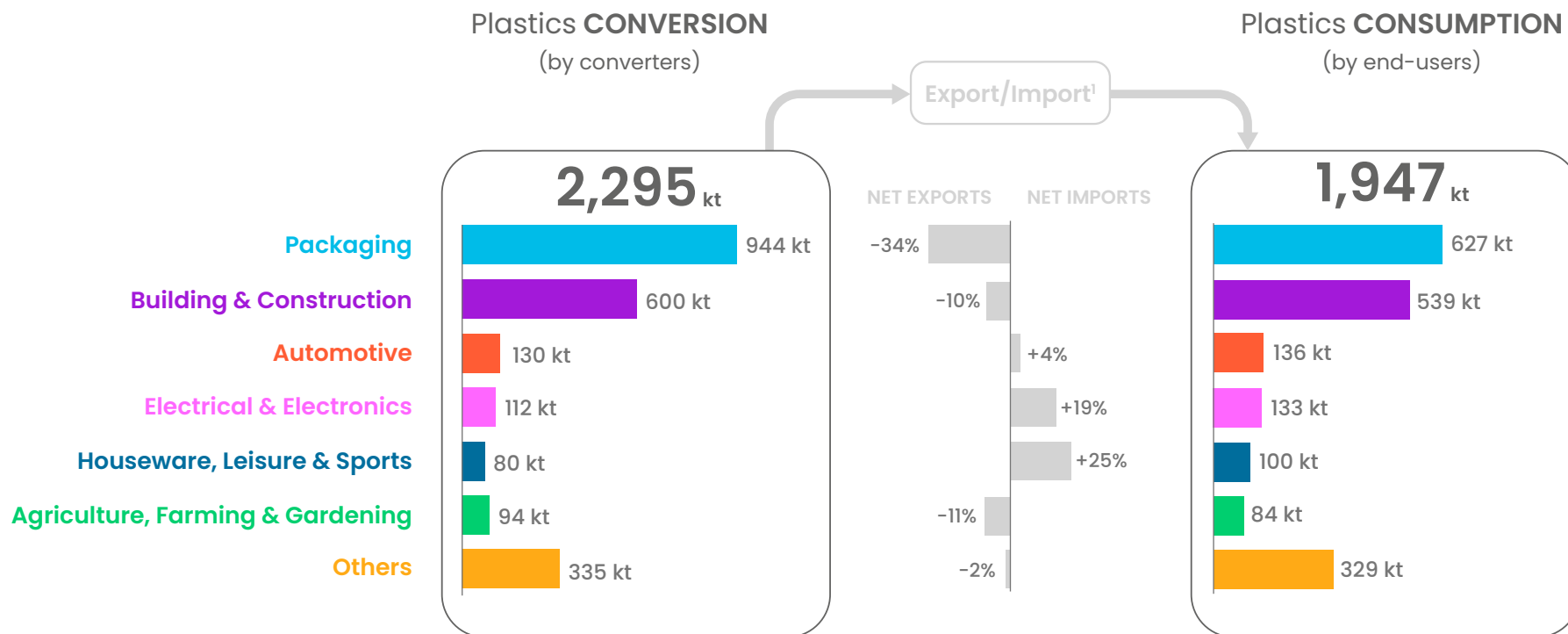
The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

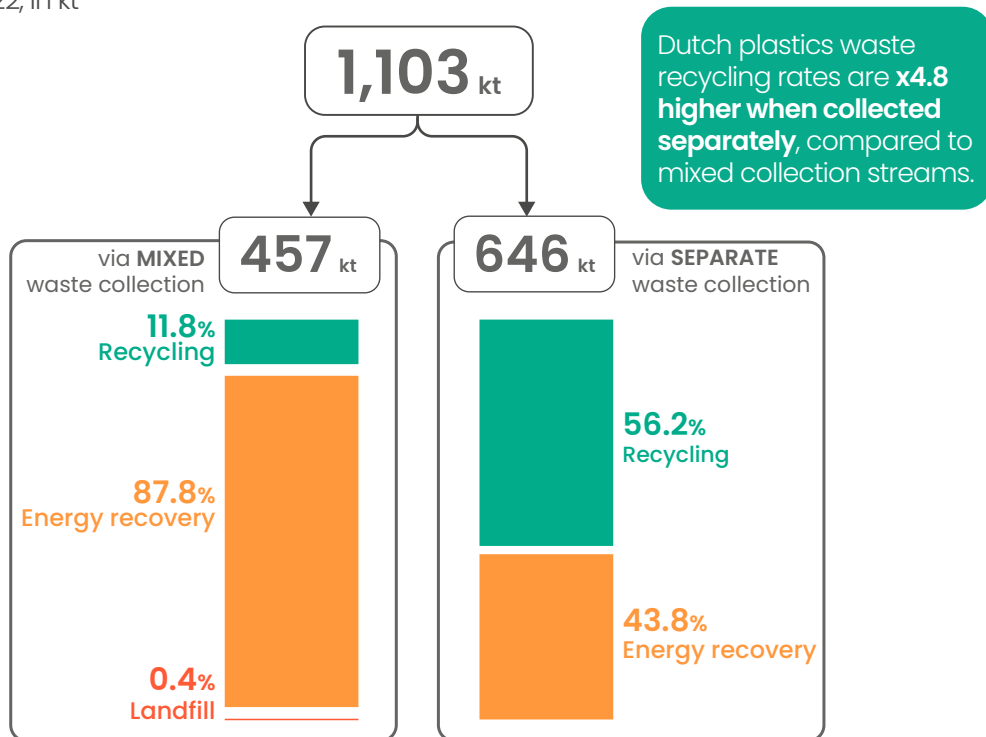
2. For data availability reasons, bio-attributed plastics are not included in national data.

Plastic products conversion, trade and national consumption

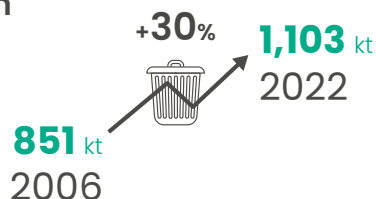
2022, in kt



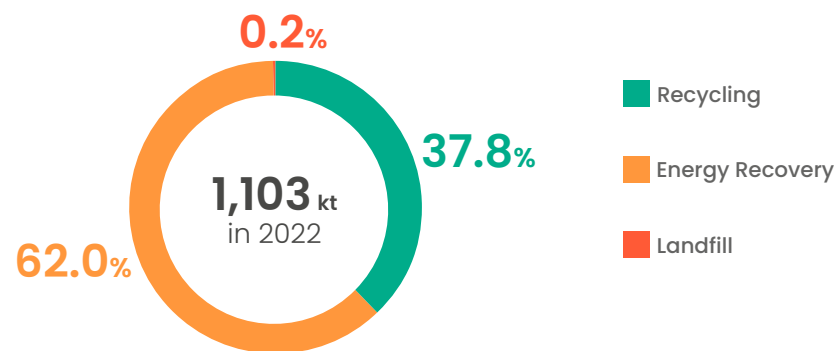
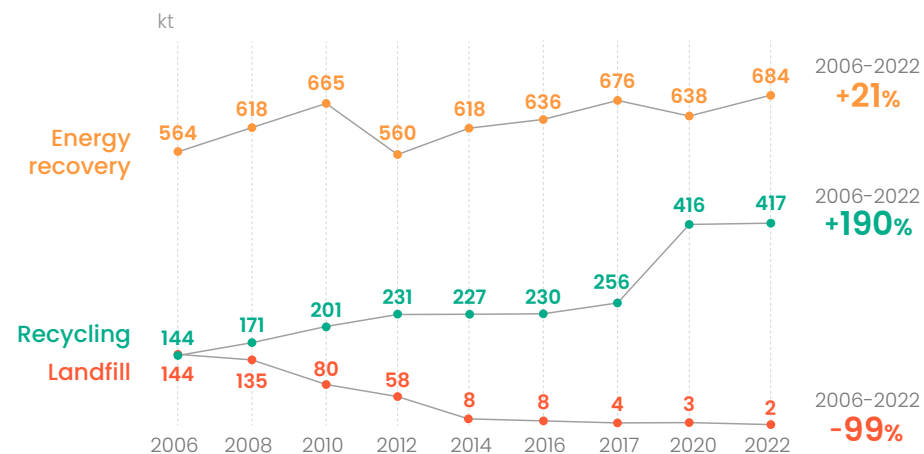
Collection and treatment of post-consumer plastics waste 2022, in kt



Waste collection evolution 2006-2022



Post-consumer plastics waste treatment evolution¹ 2006-2022, in kt



The above data are rounded estimations.

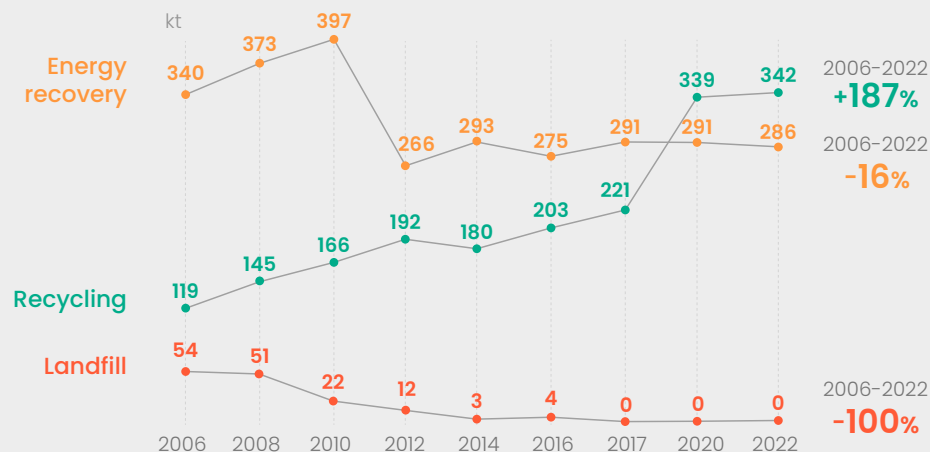
2022 and historical waste treatment data were (re)calculated according to the new methodology under Directive (EU) 2018/852. To ensure data comparability, Plastics Europe decided to change the recycling measuring point for all types of plastics waste, not only for packaging. For more information: see pages 72 and 73 of the "Circular Economy for Plastics in Europe" 2024 report.

1. For data availability reasons, Dutch waste figures cannot be shown for 2018, but only for 2017.

PACKAGING¹

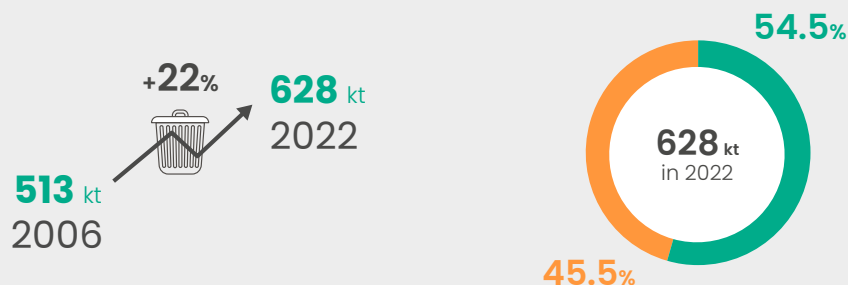
Post-consumer plastics PACKAGING waste treatment evolution²

2006-2022, in kt



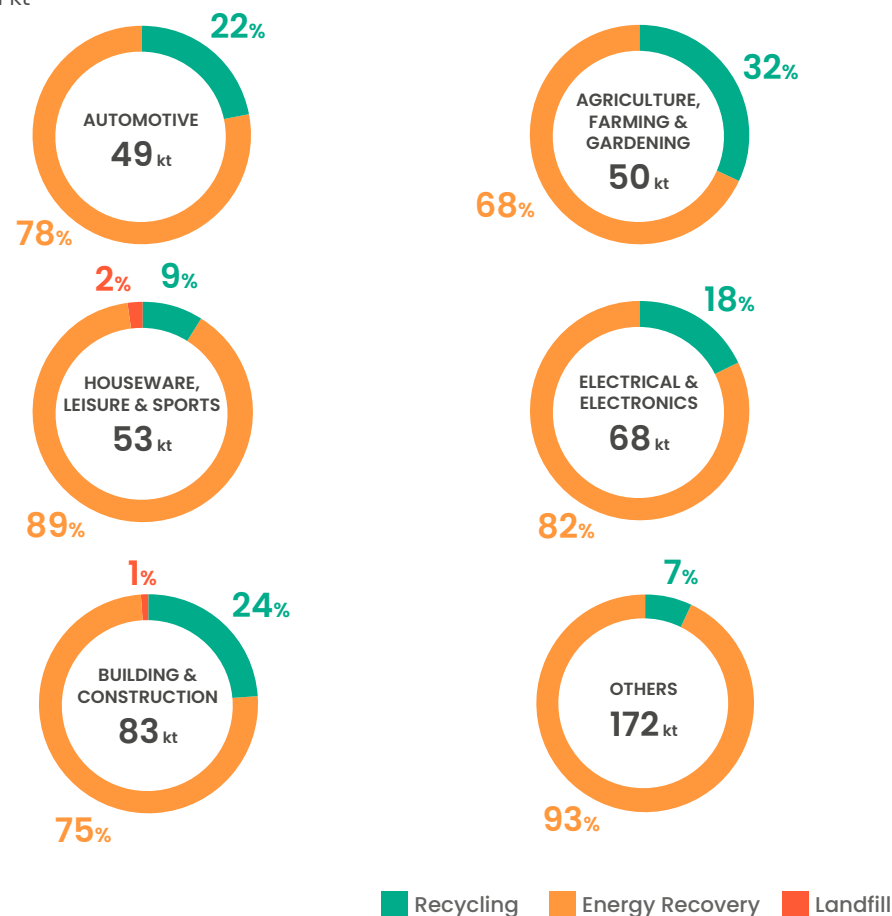
Plastics PACKAGING waste collection evolution

2006-2022



Post-consumer plastics waste collection and treatment by application

2022, in kt

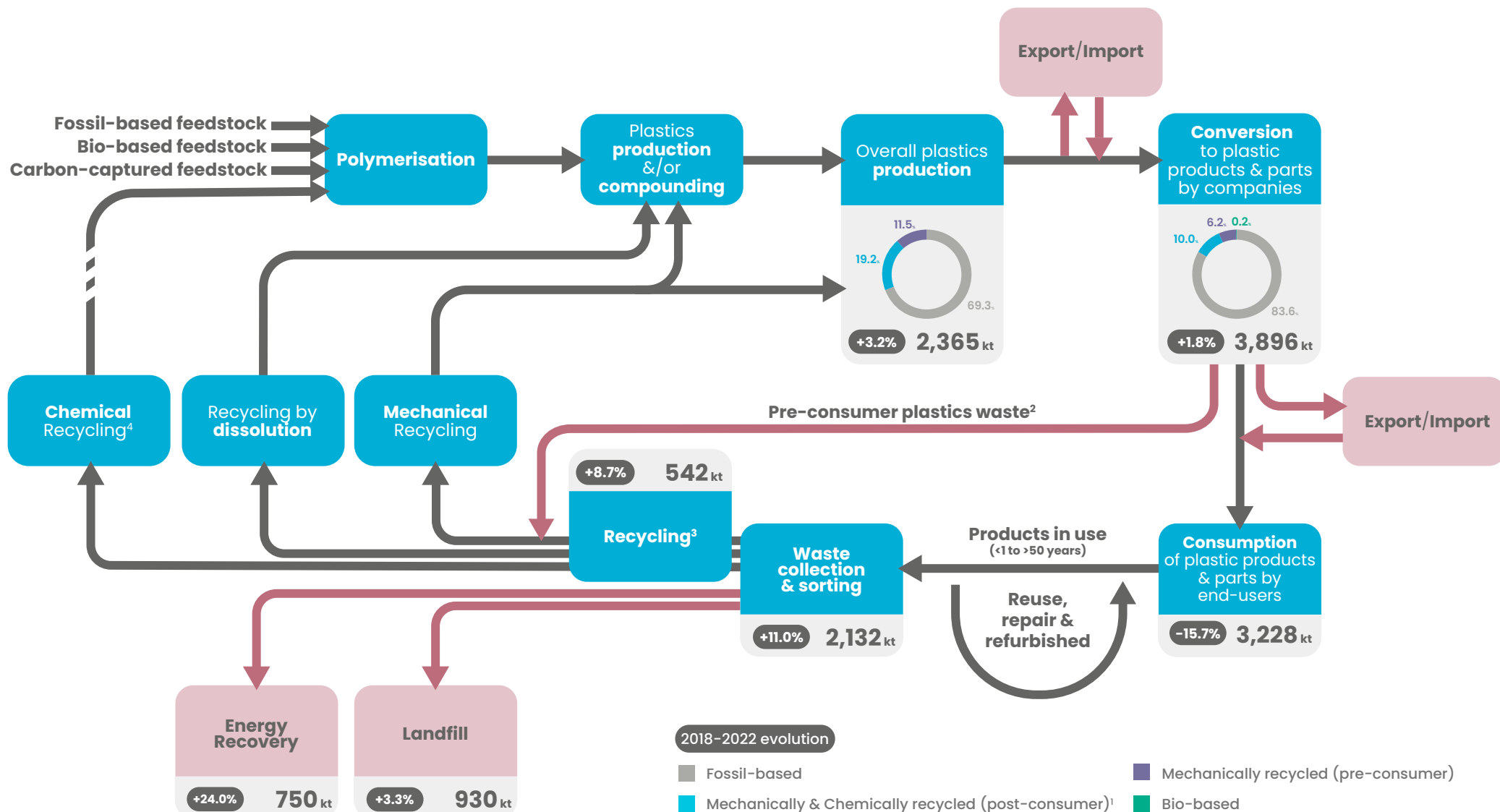


The above data are rounded estimations.

2022 and historical waste treatment data were (re)calculated according to the new methodology under Directive (EU) 2018/852. To ensure data comparability, Plastics Europe decided to change the recycling measuring point for all types of plastics waste, not only for packaging. For more information: see pages 72 and 73 of the "Circular Economy for Plastics in Europe" 2024 report.

1. From household, industrial, and commercial plastics packaging.

2. For data availability reasons, Dutch waste figures cannot be shown for 2018, but only for 2017.



The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

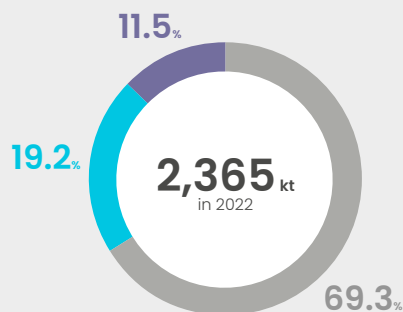
2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

3. Including 136 kt recycling of Polish plastics waste abroad (intra-EU27+3 included). Polish plastics import surplus for intra and extra EU27+3. 171 kt estimated export in 2022, and 219 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

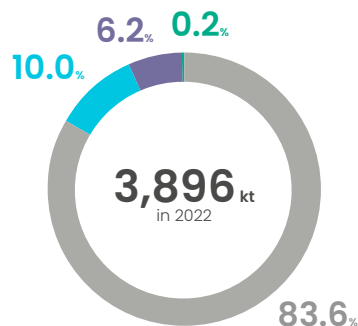
Plastics production

2022



Plastics conversion

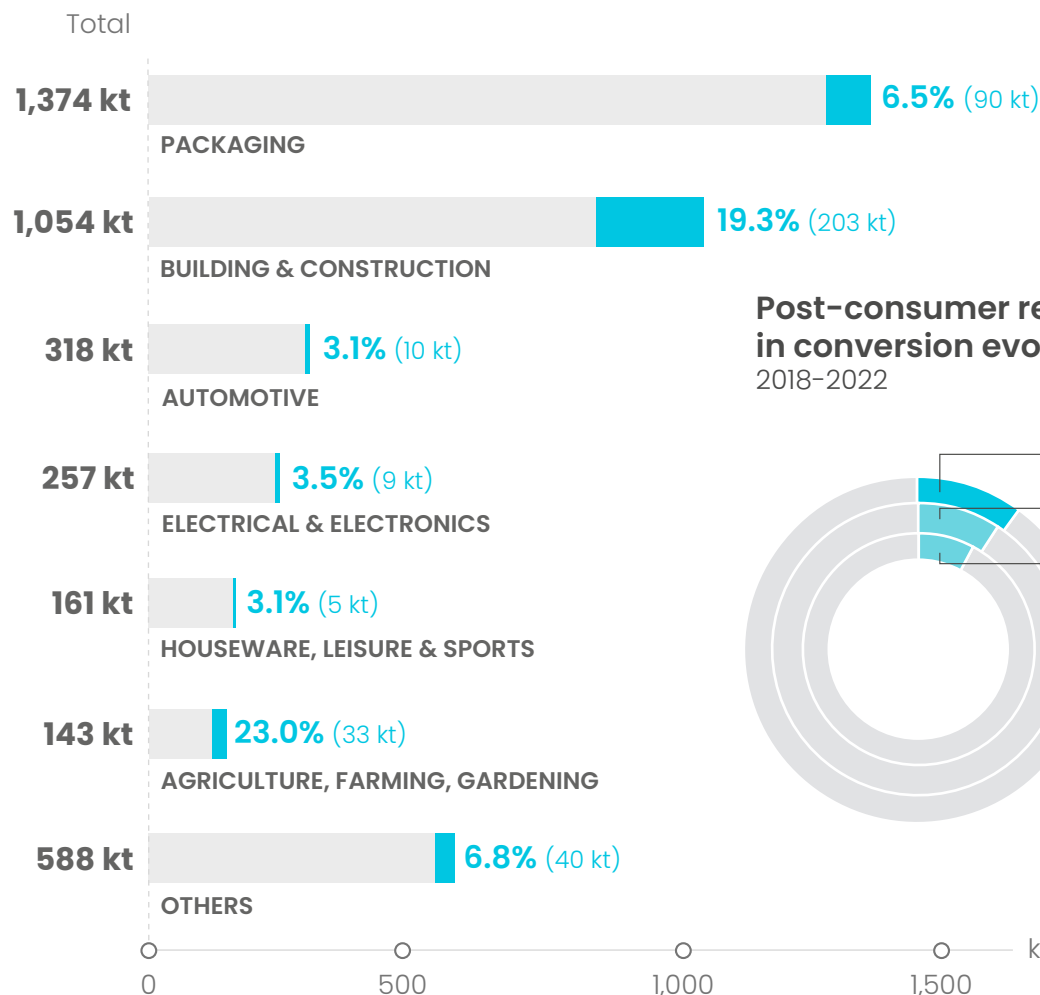
2022



■ Fossil-based
■ Mechanically & chemically recycled (post-consumer)¹
■ Mechanically recycled (pre-consumer)
■ Bio-based²

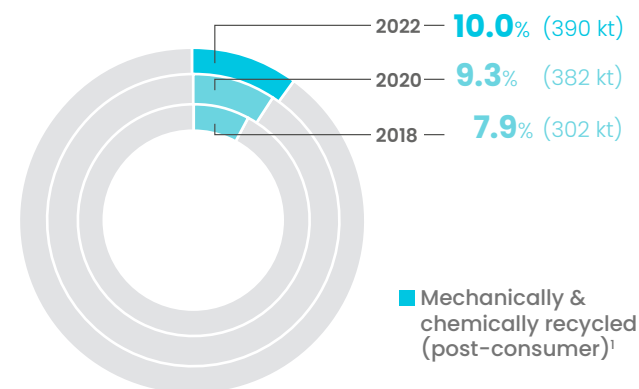
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



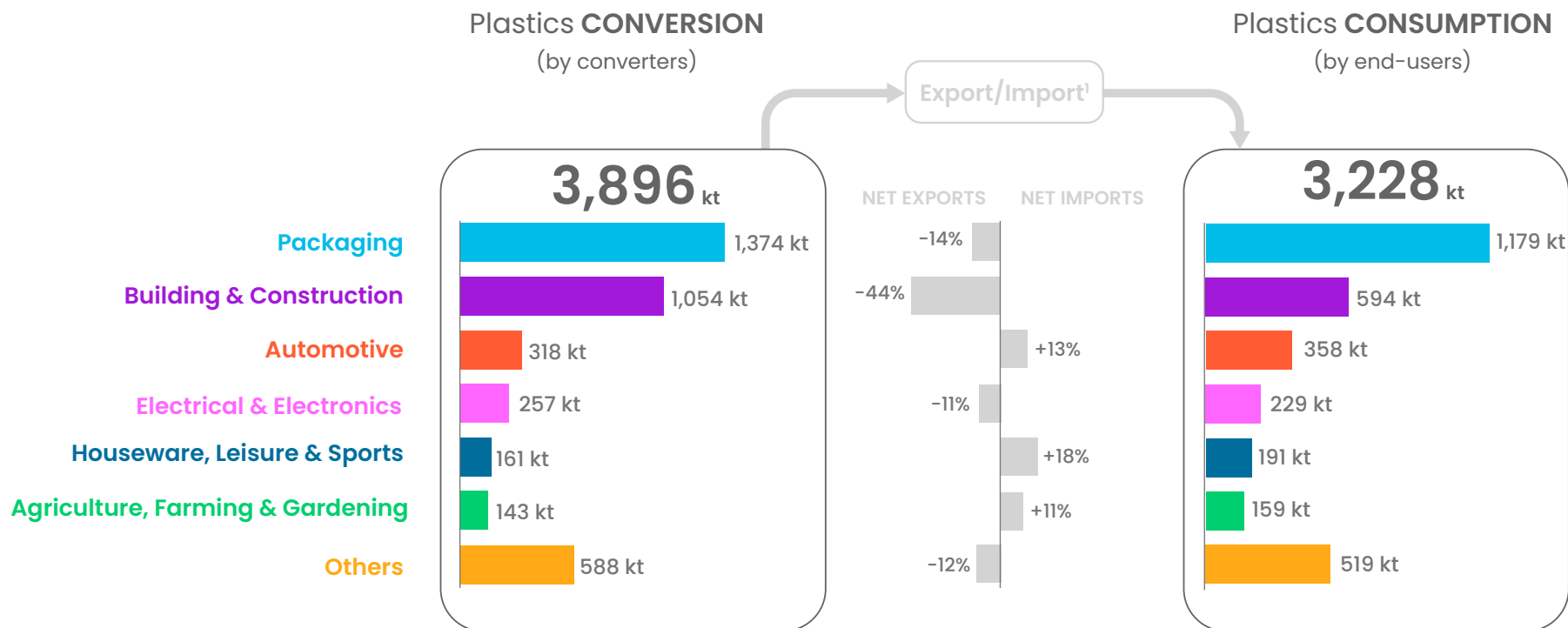
■ Mechanically & chemically recycled (post-consumer)¹

The above data are rounded estimations.

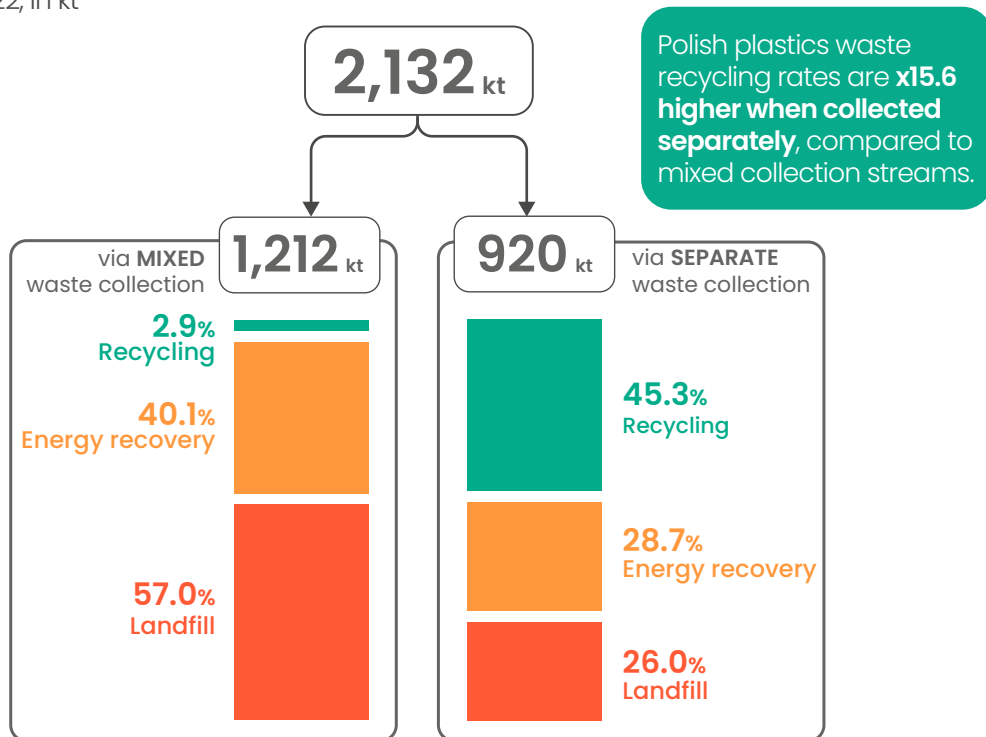
1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

2. For data availability reasons, bio-attributed plastics are not included in national data.

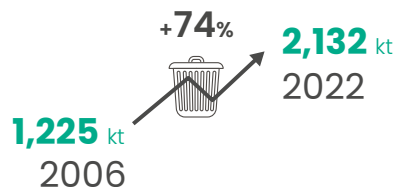
Plastic products conversion, trade and national consumption
2022, in kt



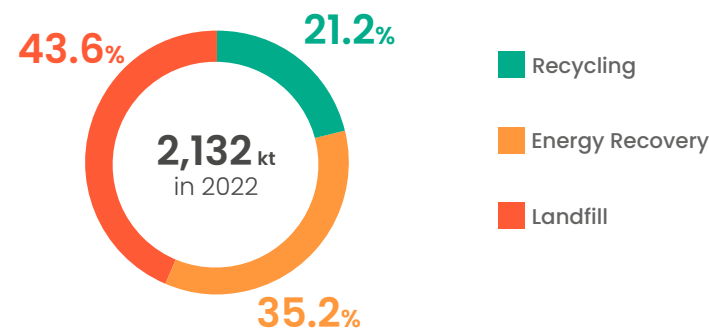
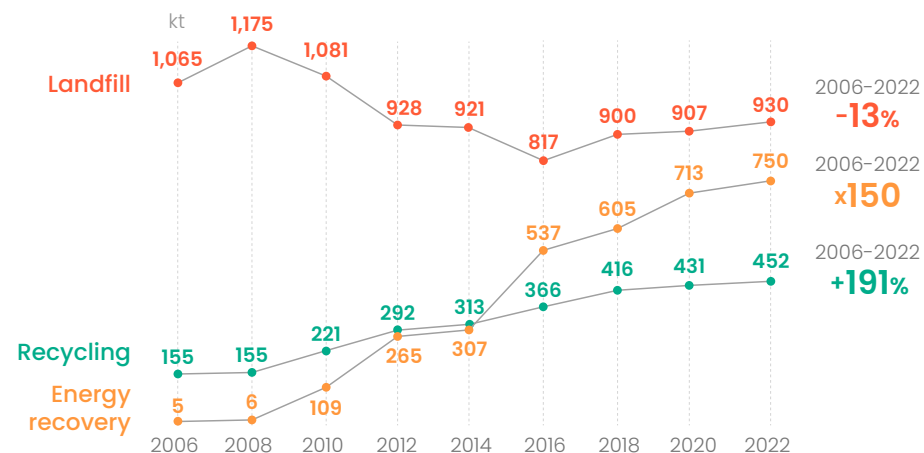
Collection and treatment of post-consumer plastics waste
2022, in kt



Waste collection evolution
2006-2022

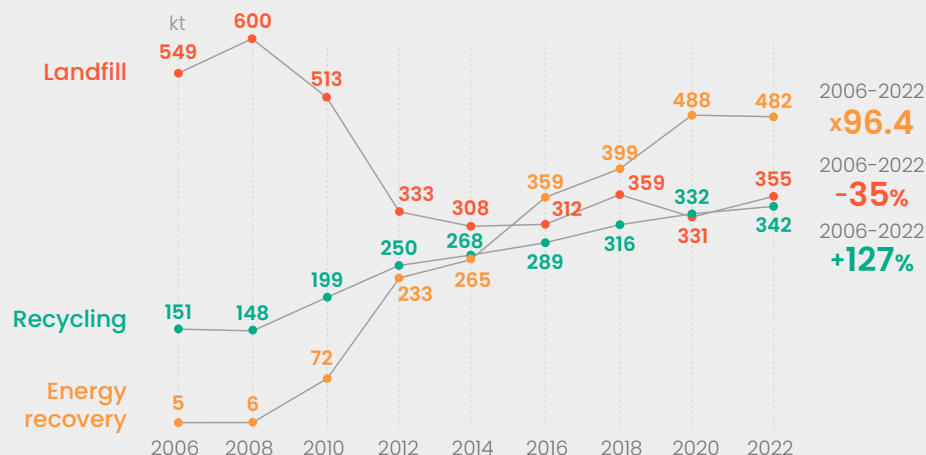


Post-consumer plastics waste treatment evolution
2006-2022, in kt

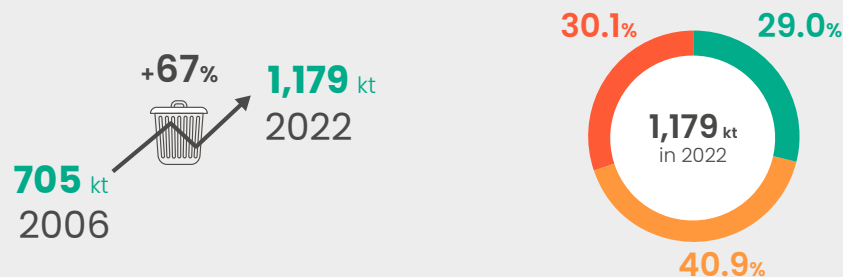


PACKAGING¹

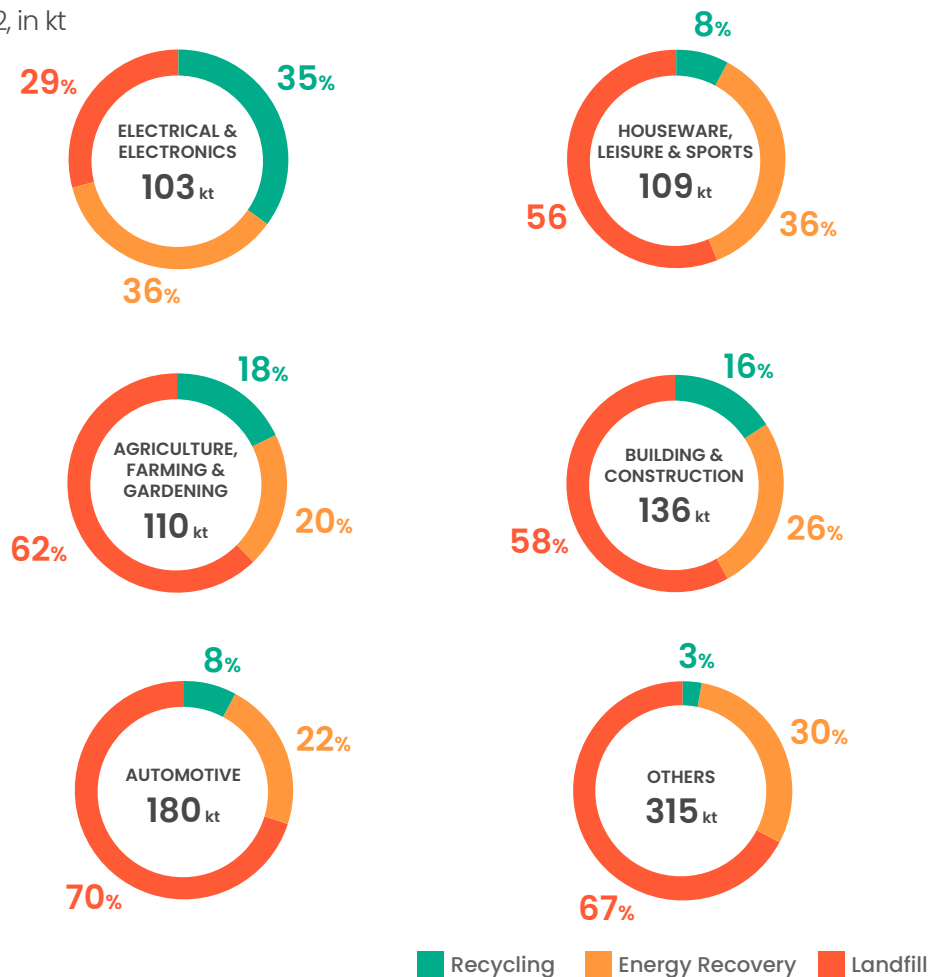
Post-consumer plastics PACKAGING waste treatment evolution
2006-2022, in kt

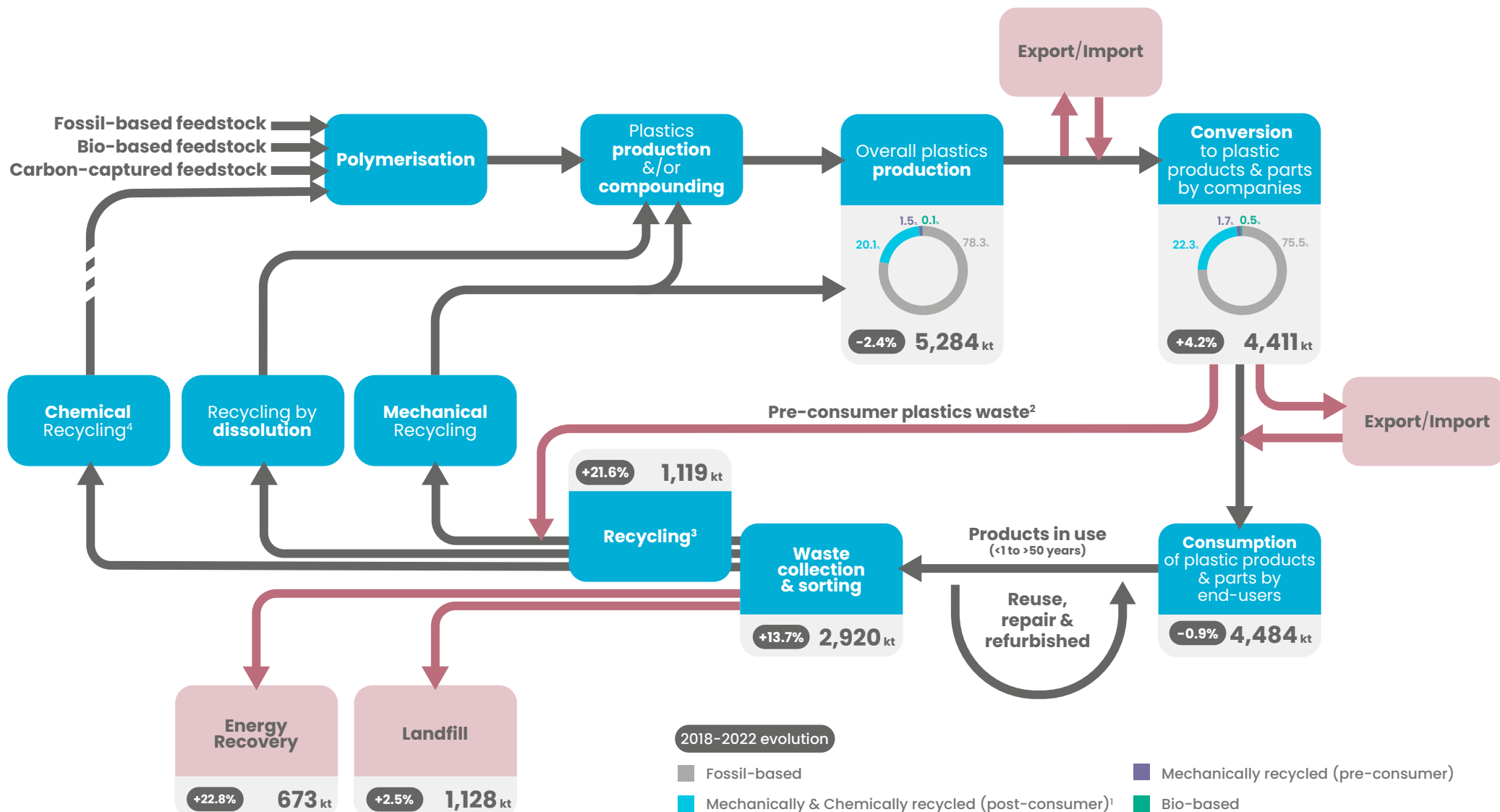


Plastics PACKAGING waste collection evolution
2006-2022



Post-consumer plastics waste collection and treatment by application
2022, in kt





The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

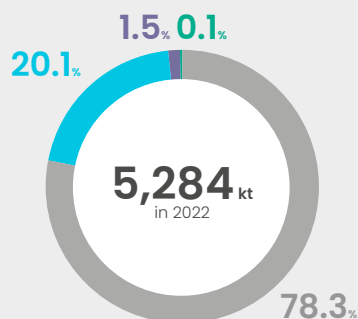
2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

3. Including 123 kt recycling of Spanish plastics waste abroad (intra-EU27+3 included). Spanish plastics waste import surplus for intra and extra EU27+3: 144 kt estimated export in 2022, and 259 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

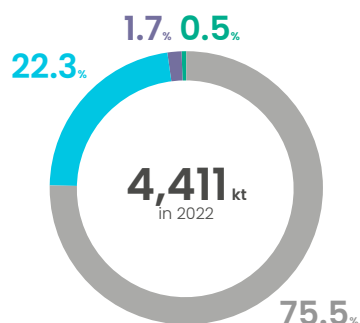
Plastics production

2022



Plastics conversion

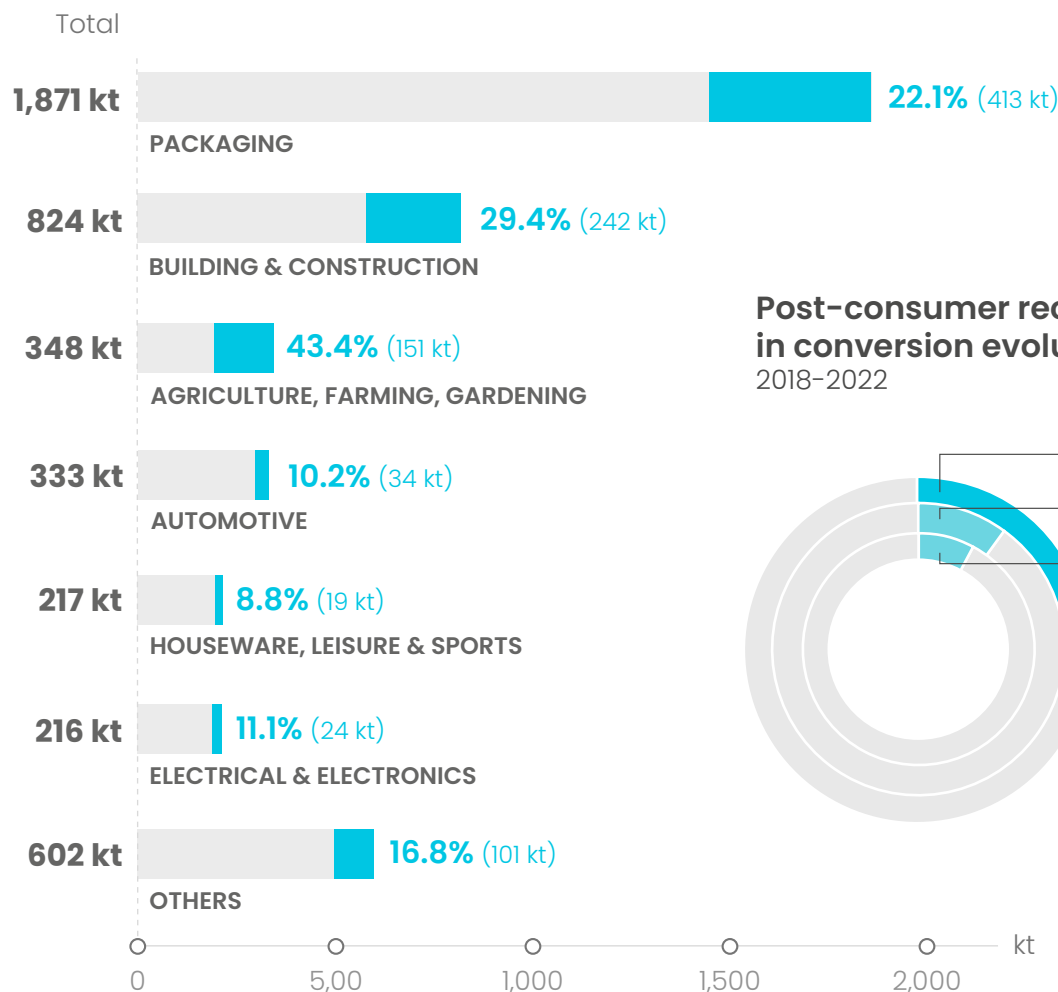
2022



■ Fossil-based
■ Mechanically & chemically recycled (post-consumer)¹
■ Mechanically recycled (pre-consumer)
■ Bio-based²

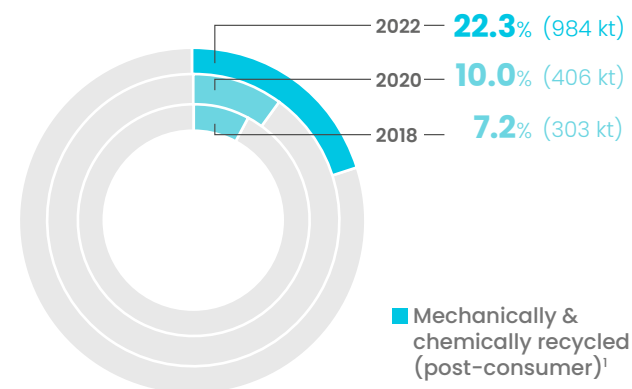
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



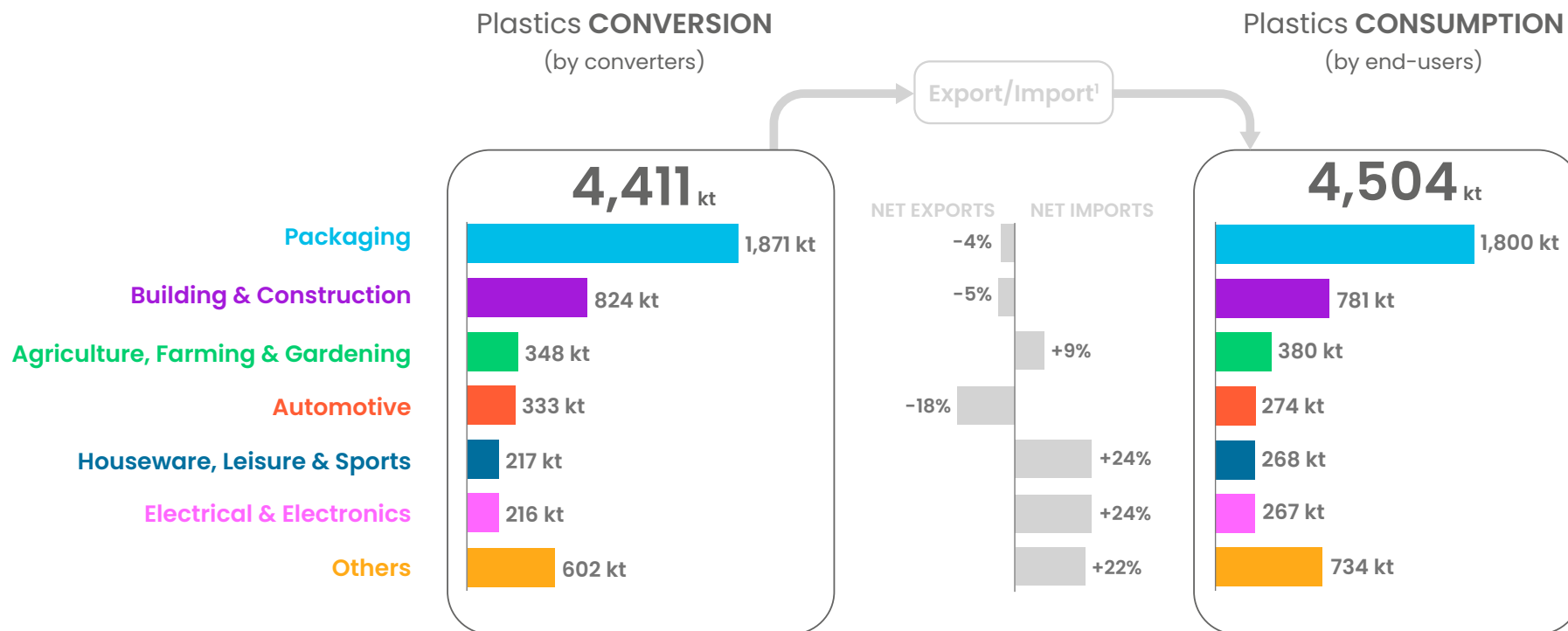
■ Mechanically & chemically recycled (post-consumer)¹

The above data are rounded estimations.

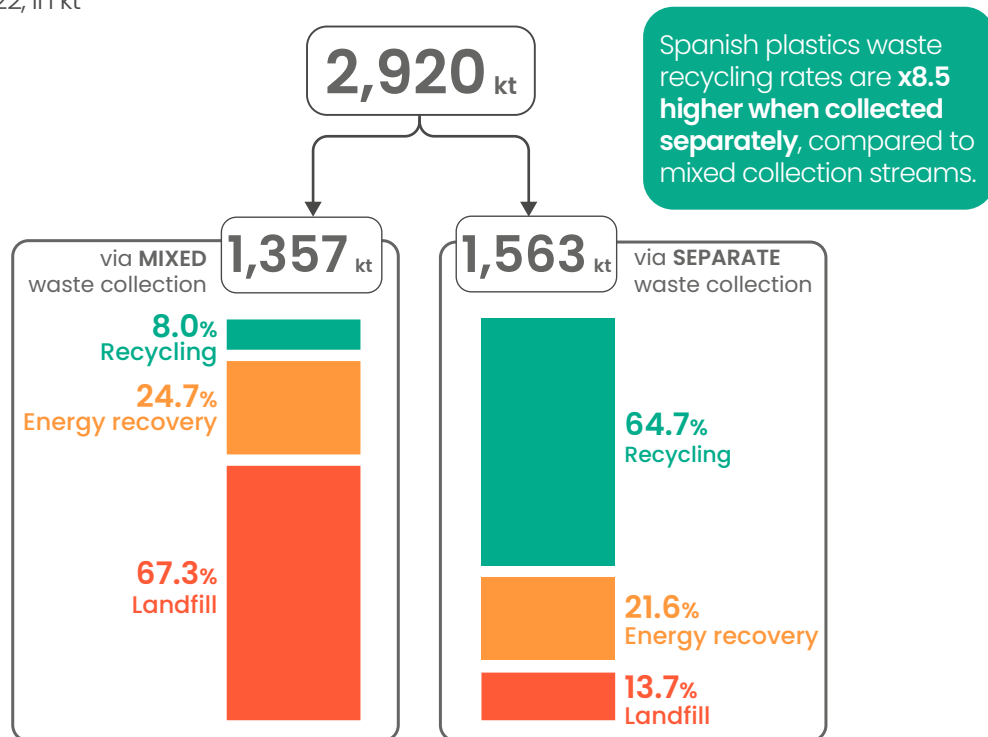
1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

2. For data availability reasons, bio-attributed plastics are not included in national data.

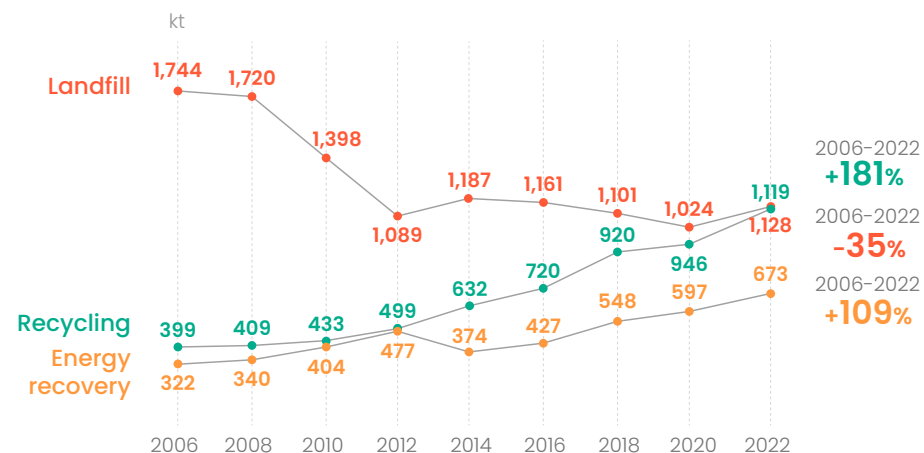
Plastic products conversion, trade and national consumption
2022, in kt



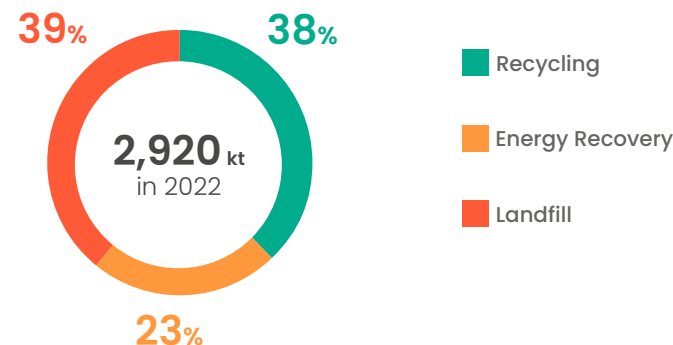
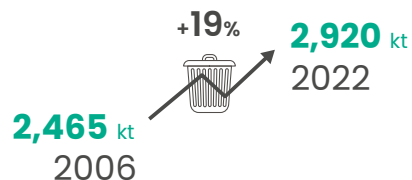
Collection and treatment of post-consumer plastics waste
2022, in kt



Post-consumer plastics waste treatment evolution
2006-2022, in kt

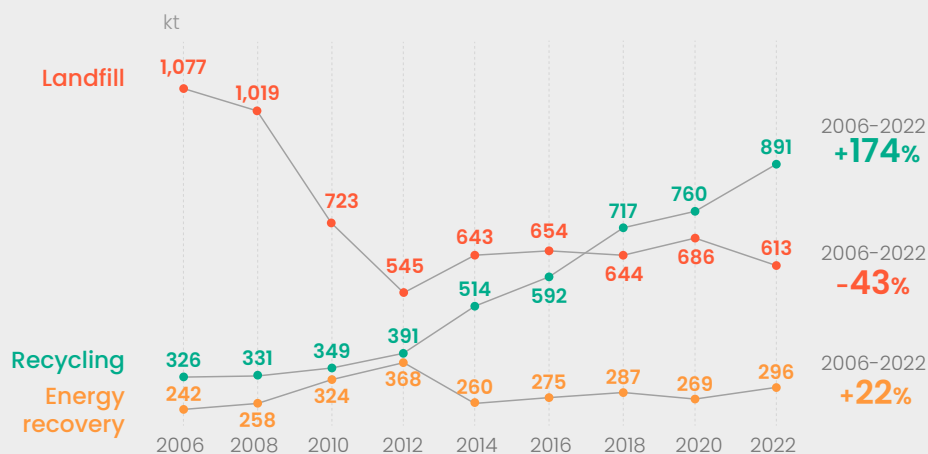


Waste collection evolution
2006-2022

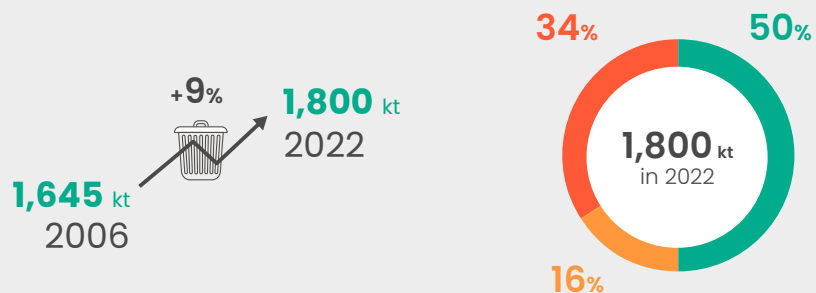


PACKAGING¹

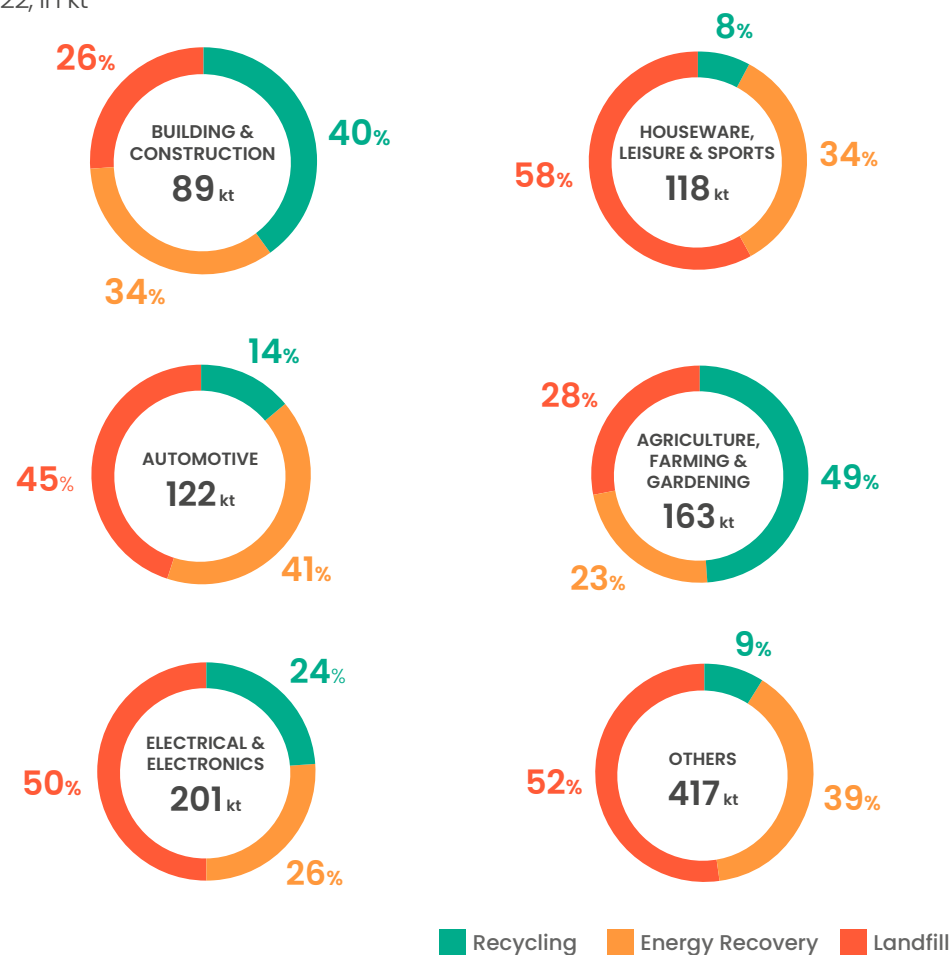
Post-consumer plastics PACKAGING waste treatment evolution
2006-2022, in kt

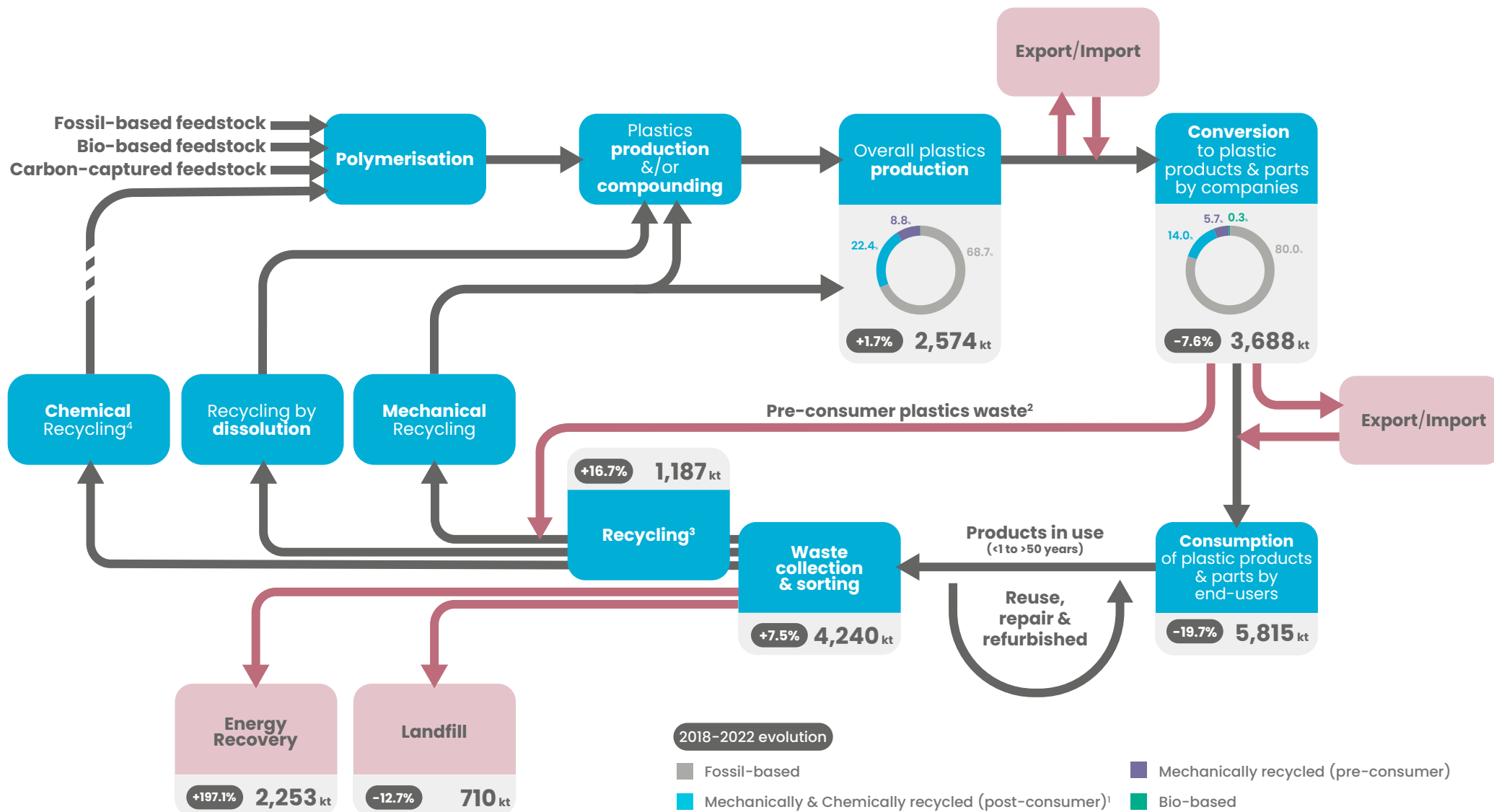


Plastics PACKAGING waste collection evolution
2006-2022



Post-consumer plastics waste collection and treatment by application
2022, in kt





The above data are rounded estimations.

1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

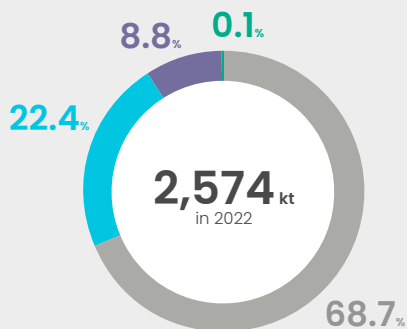
2. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.

3. Including 605 kt recycling of UK plastics waste abroad (intra-EU27+3 included). UK plastics waste export surplus for intra and extra EU27+3. 750 kt estimated export in 2022, and 50 kt estimated plastics waste import.

4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, also depending on the chemical recycling technology. A more detailed diagram is available on pages 42-43 of the "Circular Economy for Plastics in Europe" 2024 report.

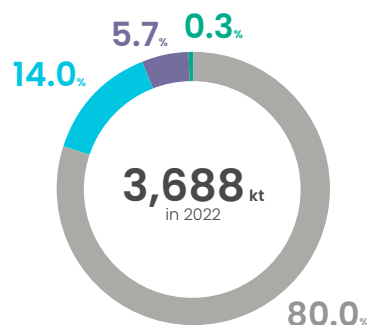
Plastics production

2022



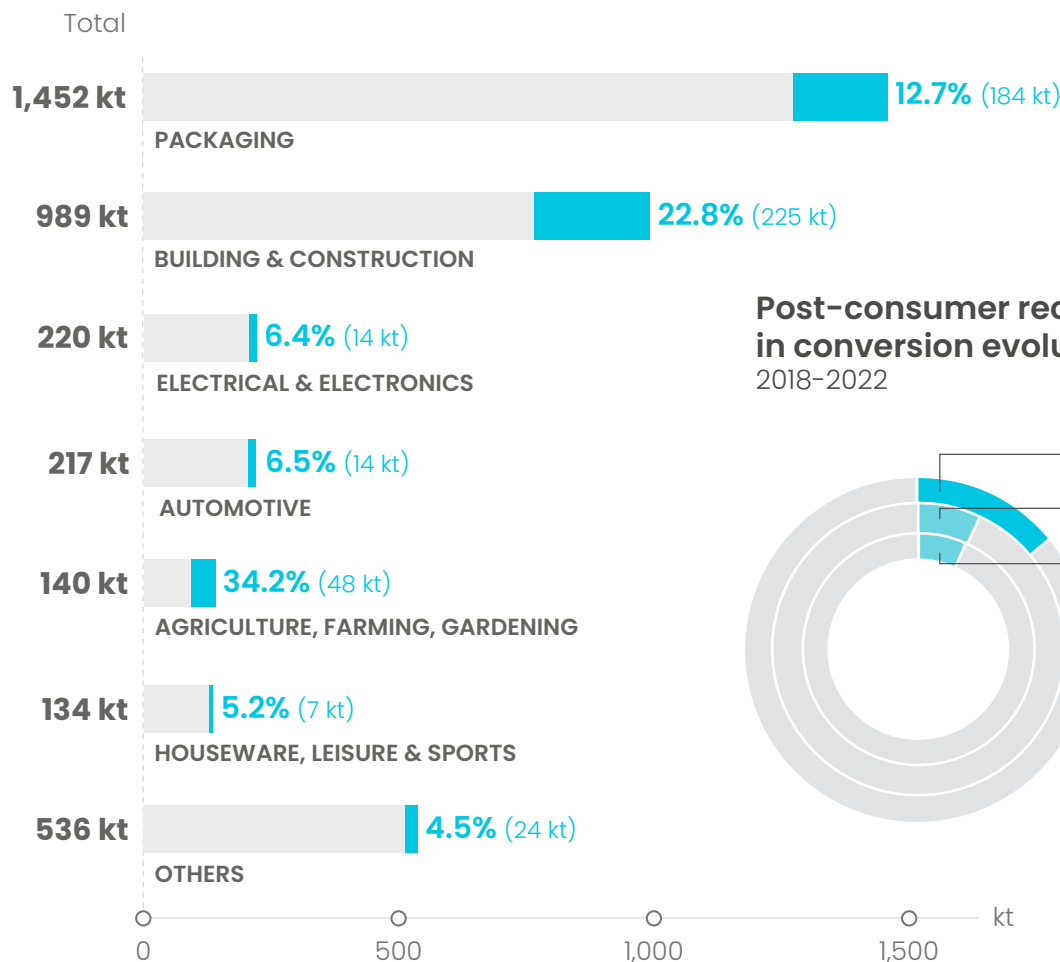
Plastics conversion

2022



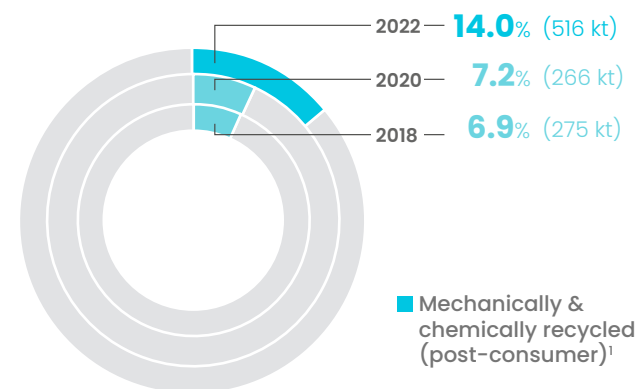
Post-consumer recycled plastics in conversion

2022, in kt



Post-consumer recycled plastics in conversion evolution

2018-2022



■ Fossil-based

■ Mechanically & chemically recycled (post-consumer)¹

■ Mechanically recycled (pre-consumer)

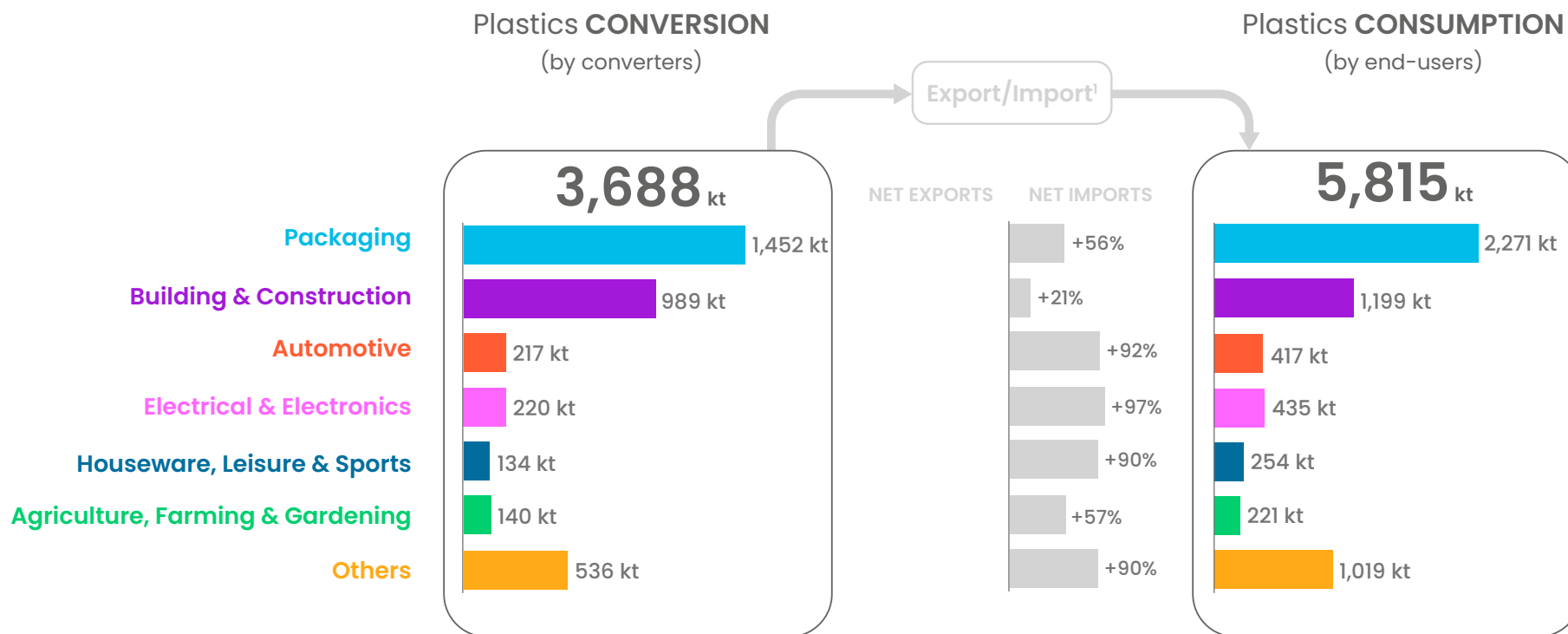
■ Bio-based²

The above data are rounded estimations.

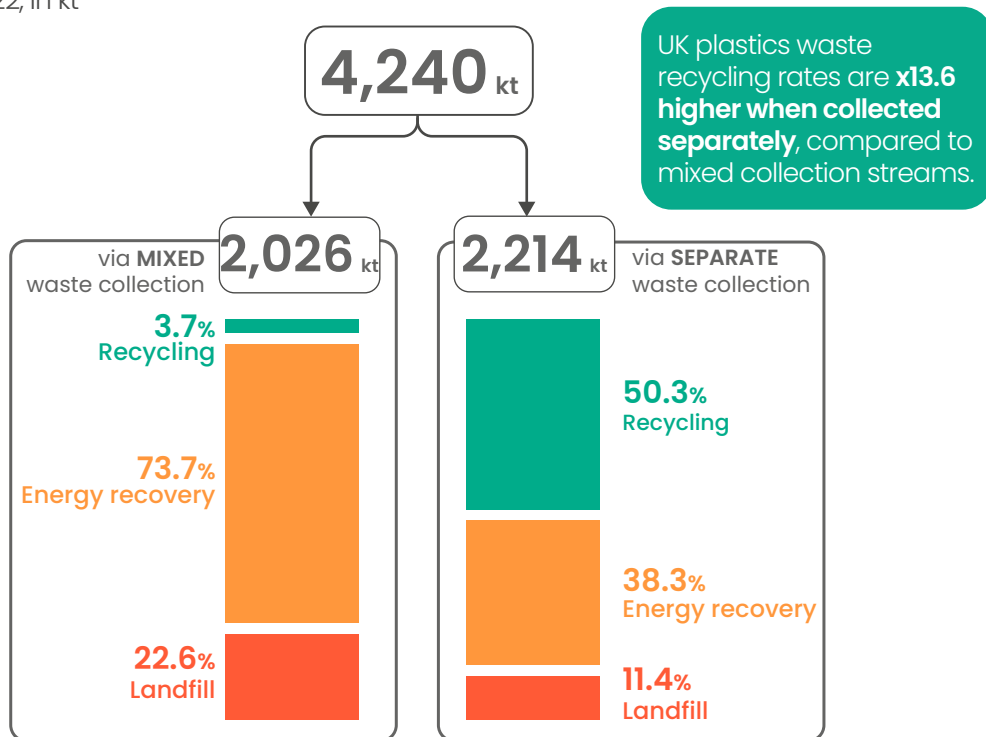
1. For data availability reasons, mechanically and chemically recycled plastics data (post-consumer) cannot be shown separately. Chemically recycled plastics represent a small share of the total post-consumer recycled plastics.

2. For data availability reasons, bio-attributed plastics are not included in national data.

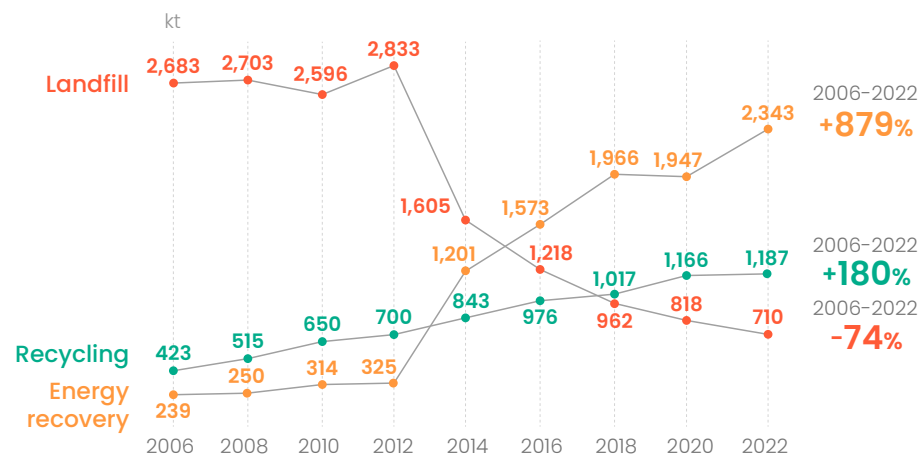
Plastic products conversion, trade and national consumption 2022, in kt



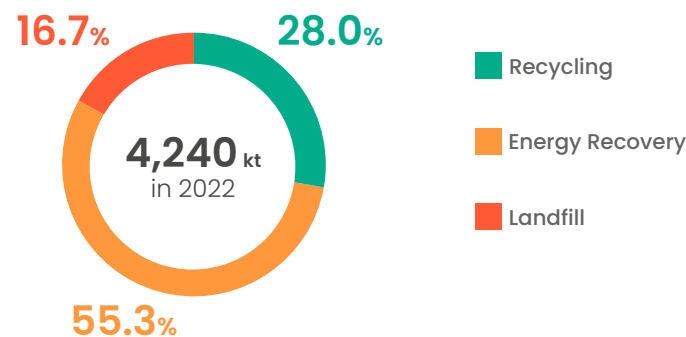
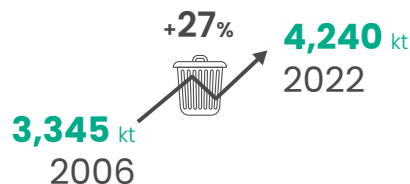
Collection and treatment of post-consumer plastics waste 2022, in kt



Post-consumer plastics waste treatment evolution 2006-2022, in kt

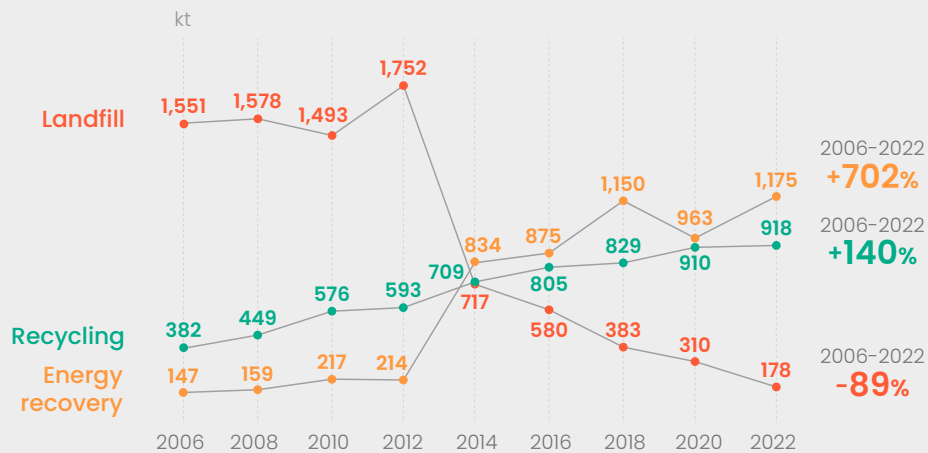


Waste collection evolution 2006-2022



PACKAGING¹

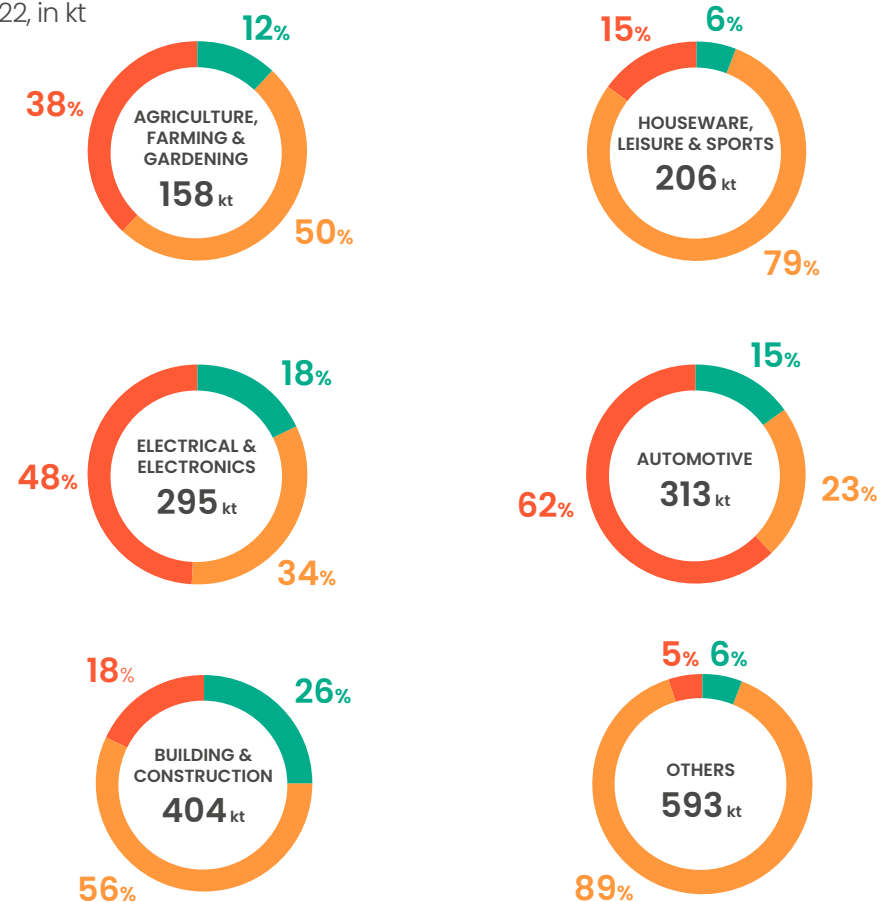
Post-consumer plastics PACKAGING waste treatment evolution 2006-2022, in kt



Plastics PACKAGING waste collection evolution 2006-2022



Post-consumer plastics waste collection and treatment by application 2022, in kt



■ Recycling ■ Energy Recovery ■ Landfill