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.


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.
Belgium Circular Economy for Plastics
Data for 2022

Plastics production 2022
7,282 kt
2.8 0.3 2.2

Plastics conversion 2022
2,380 kt
10.0 7.1 0.6

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

Plastics CONVERSION
(by converters)

- Packaging: 2,380 kt
  - Export/Import: -69%
- Building & Construction: 543 kt
  - Export/Import: -52%
- Automotive: 155 kt
  - Export/Import: -29%
- Electrical & Electronics: 108 kt
  - Export/Import: -33%
- Houseware, Leisure & Sports: 86 kt
  - Export/Import: +5%
- Agriculture, Farming & Gardening: 90 kt
  - Export/Import: +17%
- Others: 318 kt
  - Export/Import: -31%

Plastics CONSUMPTION
(by end-users)

- Total national consumption: 1,198 kt
  - Export/Import: +17%
  - NET IMPORTS:
    - Agriculture, Farming & Gardening: 333 kt
    - Building & Construction: 263 kt
    - Automotive: 110 kt
    - Electrical & Electronics: 113 kt
    - Houseware, Leisure & Sports: 100 kt
    - Agriculture, Farming & Gardening: 60 kt
    - Others: 218 kt

The above data are rounded estimations.

1. Extra and intra EU27+3 trade.
Belgium plastics waste recycling rates are \( \times 5.6 \) higher when collected separately, compared to mixed collection streams.

Belgium data for 2022:

- **Collection and treatment of post-consumer plastics waste 2022**, in kt:
  - **639 kt**
  - **281 kt** via MIXED waste collection:
    - **10.7%** Recycling
    - **86.8%** Energy recovery
    - **2.5%** Landfill
  - **358 kt** via SEPARATE waste collection:
    - **60.6%** Recycling
    - **38.6%** Energy recovery
    - **0.8%** Landfill

- **Waste collection evolution 2006-2022**:
  - **481 kt** in 2006
  - **639 kt** in 2022
  - +33%

- **Post-consumer plastics waste treatment evolution 2006-2022**, in kt:
  - **Energy recovery**
    - 2006: 307 kt
    - 2008: 349 kt
    - 2010: 367 kt
    - 2012: 383 kt
    - 2014: 398 kt
    - 2016: 422 kt
    - 2018: 383 kt
    - 2020: 382 kt
    - 2022: 247 kt
    - +24%
  - **Recycling**
    - 2006: 109 kt
    - 2008: 120 kt
    - 2010: 122 kt
    - 2012: 131 kt
    - 2014: 136 kt
    - 2016: 147 kt
    - 2018: 165 kt
    - 2020: 184 kt
    - 2022: 247 kt
    - +127%
  - **Landfill**
    - 2006: 65 kt
    - 2008: 39 kt
    - 2010: 29 kt
    - 2012: 17 kt
    - 2014: 17 kt
    - 2016: 12 kt
    - 2018: 11 kt
    - 2020: 11 kt
    - 2022: 10 kt
    - -85%

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.
Circular Economy for Plastics
Data for 2022
Belgium

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.
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.


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.
The above data are rounded estimations.

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2. For data availability reasons, bio-attributed plastics are not included in national data.
Plastic products conversion, trade and national consumption
2022, in kt

Plastics CONVERSION
(by converters)

Plastics CONSUMPTION
(by end-users)

Export/Import

The above data are rounded estimations.

1. Extra and intra EU27+3 trade.
Collection and treatment of post-consumer plastics waste
2022, in kt

4,075 kt

Collection via MIXED waste collection

2,315 kt

1.7% Recycling

60.1% Energy recovery

38.2% Landfill

Collection via SEPARATE waste collection

1,760 kt

45.3% Recycling

40.2% Energy recovery

14.5% Landfill

Waste collection evolution
2006-2022

2006
3,128 kt

2022
4,075 kt

+30%

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.
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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 519 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.
Circular Economy for Plastics
Data for 2022
Germany

Plastics production
2022

Plastics conversion
2022

Post-consumer recycled plastics in conversion
2022, in kt

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>12,965 kt</td>
<td>88.5%</td>
<td>13.3%</td>
<td>6.8%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Post-consumer recycled</td>
<td>12,709 kt</td>
<td>79.6%</td>
<td>12.3%</td>
<td>5.8%</td>
<td>2.3%</td>
</tr>
</tbody>
</table>

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

Plastics CONVERSION
(by converters)

**12,709 kt**

- Packaging: 4,436 kt
- Building & Construction: 3,127 kt
- Automotive: 1,281 kt
- Electrical & Electronics: 791 kt
- Agricultural, Farming & Gardening: 539 kt
- Houseware, Leisure & Sports: 417 kt
- Others: 2,118 kt

**NET EXPORTS**
- -29%

**NET IMPORTS**
- +2%

-1%
-6%
-9%
-24%
-5%

Plastics CONSUMPTION
(by end-users)

**11,170 kt**

- Packaging: 3,157 kt
- Building & Construction: 3,177 kt
- Automotive: 1,271 kt
- Electrical & Electronics: 741 kt
- Agricultural, Farming & Gardening: 489 kt
- Houseware, Leisure & Sports: 317 kt
- Others: 2,018 kt

**NET EXPORTS**
- 2%

**NET IMPORTS**
- 1%
- 6%
- 9%
- 24%
- 5%

The above data are rounded estimations.

1. Extra and intra EU27+3 trade.
Collection and treatment of post-consumer plastics waste
2022, in kt

- **5,570 kt**
  - via MIXED waste collection:
    - 2,386 kt
    - 7.7% Recycling
    - 91.1% Energy recovery
    - 1.2% Landfill
  - via SEPARATE waste collection:
    - 3,184 kt
    - 58.1% Recycling
    - 41.7% Energy recovery
    - 0.2% Landfill

**German plastics waste recycling rates are x7.5 higher when collected separately, compared to mixed collection streams.**

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

- **Energy recovery**
  - 2,036 kt (2006-2022 +61%)
  - 2,171 kt (2006-2022 +155%)
  - 1,788 kt (2006-2022 -82%)

- **Recycling**
  - 190 kt (2006)
  - 164 kt (2008)
  - 1,041 kt (2008-2022 +61%)
  - 798 kt (2006-2022 +155%)
  - 1,075 kt (2006-2022 -82%)

- **Landfill**
  - 36.6%

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.
Circular Economy for Plastics
Data for 2022

Germany

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.
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.
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Circular Economy for Plastics
Data for 2022
Italy

Plastics production
2022

Plastics conversion
2022

Post-consumer recycled plastics in conversion
2022, in kt

Total
2,977 kt

PACKAGING
1,388 kt

BUILDING & CONSTRUCTION
536 kt

AUTOMOTIVE
484 kt

ELECTRICAL & ELECTRONICS
382 kt

AGRICULTURE, FARMING, GARDENING
334 kt

HOUSEWARE, LEISURE & SPORTS
1,469 kt

OTHERS
1,029 kt

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

Post-consumer recycled plastics in conversion evolution
2018–2022

Mechanically & chemically recycled (post-consumer)

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

Plastics CONVERSION (by converters)

Plastics CONSUMPTION (by end-users)

The above data are rounded estimations.
1. Extra and intra EU27+3 trade.
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.
Circular Economy for Plastics in Europe
Data for 2022
Italy

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.

From household, industrial, and commercial plastics packaging.

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

- **Landfill**
  - 2006: 947 kt
  - 2022: 1,114 kt
  - Change: +63%

- **Energy recovery**
  - 2006: 692 kt
  - 2022: 1,039 kt
  - Change: +63%

- **Recycling**
  - 2006: 520 kt
  - 2022: 651 kt
  - Change: +99%

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

- **HOUSEWARE, LEISURE & SPORTS**
  - Recycling: 190 kt (49%)
  - Energy Recovery: 47 kt (13%)
  - Landfill: 207 kt (42%)

- **AGRICULTURE, FARMING & GARDENING**
  - Recycling: 220 kt (52%)
  - Energy Recovery: 31 kt (12%)
  - Landfill: 234 kt (37%)

- **BUILDING & CONSTRUCTION**
  - Recycling: 239 kt (54%)
  - Energy Recovery: 32 kt (3%)
  - Landfill: 550 kt (43%)

---

**Plastics PACKAGING waste collection evolution 2006-2022**

- **2006**: 2,160 kt
- **2022**: 2,300 kt
- **Increase**: +7%

**2022**

- **Recycling**: 2,300 kt (45.1%)
- **Energy Recovery**: 49.0 kt (5.9%)
- **Landfill**: 45.1 kt (2.1%)
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. Pre-consumer plastics waste is mainly originating from the plastics conversion activities, and production to a lesser extent.


4. Several steps are needed between the input of plastics waste into chemical recycling and the input into polymerisation, 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 EUROPE*

Enabling a sustainable future

**Netherlands**

**Circular Economy for Plastics**

**Data for 2022**

<table>
<thead>
<tr>
<th>Energy Recovery</th>
<th>Landfill</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1.2% 684 kt</td>
<td>-50.0% 2 kt</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recycling by dissolution</th>
<th>Mechanical Recycling</th>
<th>Recycling³</th>
<th>Waste collection &amp; sorting</th>
<th>Overall plastics production</th>
<th>Conversion to plastic products &amp; parts by companies</th>
<th>Export/Import</th>
</tr>
</thead>
<tbody>
<tr>
<td>+38.6% 417 kt</td>
<td></td>
<td></td>
<td></td>
<td>+6.6% 6,194 kt</td>
<td>-5.0% 2,295 kt</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Products in use (&lt;1 to &gt;50 years)</th>
<th>Consumption of plastic products &amp; parts by end-users</th>
<th>Reuse, repair &amp; refurbished</th>
</tr>
</thead>
<tbody>
<tr>
<td>+17.7% 1,103 kt</td>
<td>-2.4% 1,947 kt</td>
<td>2017-2022 evolution³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fossil-based</th>
<th>Mechanically &amp; Chemically recycled (post-consumer)¹</th>
<th>Bio-based</th>
<th>Mechanically recycled (pre-consumer)¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1.2% 684 kt</td>
<td>-50.0% 2 kt</td>
<td></td>
<td>+1.2% 684 kt</td>
</tr>
</tbody>
</table>
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

Plastics CONVERSION (by converters)

- Packaging: 2,295 kt, 944 kt
- Building & Construction: 600 kt
- Automotive: 130 kt
- Electrical & Electronics: 112 kt
- Houseware, Leisure & Sports: 80 kt
- Agriculture, Farming & Gardening: 94 kt
- Others: 335 kt

Plastics CONSUMPTION (by end-users)

- NET EXPORTS
  - Agriculture, Farming & Gardening: -34%
  - Houseware, Leisure & Sports: -10%
  - Electrical & Electronics: +4%
  - Automotive: -11%
  - Building & Construction: -2%
  - Packaging: +25%
  - Others: +19%

- NET IMPORTS
  - Agriculture, Farming & Gardening: -10%
  - Houseware, Leisure & Sports: 0%
  - Electrical & Electronics: 0%
  - Automotive: 0%
  - Building & Construction: 0%
  - Packaging: 0%
  - Others: 0%

1,947 kt, 627 kt

The above data are rounded estimations.
1. Extra and intra EU27+3 trade.
Circular Economy for Plastics
Data for 2022
Netherlands

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.

Dutch plastics waste recycling rates are x4.8 higher when collected separately, compared to mixed collection streams.

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

<table>
<thead>
<tr>
<th>Waste Type</th>
<th>Collection Method</th>
<th>Recycling</th>
<th>Energy Recovery</th>
<th>Landfill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed</td>
<td>457 kt</td>
<td>11.8%</td>
<td>87.8%</td>
<td>0.4%</td>
</tr>
<tr>
<td>Separate</td>
<td>646 kt</td>
<td>56.2%</td>
<td>43.8%</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Energy Recovery</th>
<th>Recycling</th>
<th>Landfill</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>564 kt</td>
<td>144</td>
<td>2</td>
</tr>
<tr>
<td>2008</td>
<td>618 kt</td>
<td>171</td>
<td>8</td>
</tr>
<tr>
<td>2010</td>
<td>665 kt</td>
<td>201</td>
<td>8</td>
</tr>
<tr>
<td>2012</td>
<td>580 kt</td>
<td>231</td>
<td>0</td>
</tr>
<tr>
<td>2014</td>
<td>618 kt</td>
<td>227</td>
<td>0</td>
</tr>
<tr>
<td>2016</td>
<td>636 kt</td>
<td>230</td>
<td>0</td>
</tr>
<tr>
<td>2017</td>
<td>676 kt</td>
<td>256</td>
<td>4</td>
</tr>
<tr>
<td>2018</td>
<td>638 kt</td>
<td>416</td>
<td>3</td>
</tr>
<tr>
<td>2019</td>
<td>684 kt</td>
<td>417</td>
<td>2</td>
</tr>
</tbody>
</table>

Waste collection evolution
2006-2022

<table>
<thead>
<tr>
<th>Year</th>
<th>Mixed Collection</th>
<th>Separate Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>851 kt</td>
<td>144 kt</td>
</tr>
<tr>
<td>2022</td>
<td>1,103 kt</td>
<td>646 kt</td>
</tr>
</tbody>
</table>

Energy Recovery
Recycling
Landfill

Recycling: 37.8% in 2022
Energy Recovery: 62.0% in 2022
Landfill: 0.2% in 2022
The above data are rounded estimations.

2022 and historical waste treatment data were recalculated 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.

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Poland
Circular Economy for Plastics
Data for 2022

Post-consumer recycled plastics in conversion
2022, in kt

<table>
<thead>
<tr>
<th>Category</th>
<th>Plastics</th>
<th>Mechanically &amp; chemically recycled (post-consumer)</th>
<th>Fossil-based</th>
<th>Bio-based</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>1,374 kt</td>
<td>6.5% (90 kt)</td>
<td>11.5%</td>
<td>82.5%</td>
</tr>
<tr>
<td>PACKAGING</td>
<td>1,054 kt</td>
<td>19.3% (203 kt)</td>
<td>69.3%</td>
<td>11.4%</td>
</tr>
<tr>
<td>PACKAGING - AUTOMOTIVE</td>
<td>318 kt</td>
<td>3.1% (10 kt)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PACKAGING - ELECTRICAL &amp; ELECTRONICS</td>
<td>257 kt</td>
<td>3.5% (9 kt)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PACKAGING - HOUSEWARE, LEISURE &amp; SPORTS</td>
<td>161 kt</td>
<td>3.1% (5 kt)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PACKAGING - AGRICULTURE, FARMING, GARDENING</td>
<td>143 kt</td>
<td>23.0% (33 kt)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PACKAGING - OTHERS</td>
<td>588 kt</td>
<td>6.8% (40 kt)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Plastics CONVERSION
(by converters)

Plastics CONSUMPTION
(by end-users)

Agriculture, Farming & Gardening
Houseware, Leisure & Sports
Electrical & Electronics
Automotive
Building & Construction
Packaging
Others

3,896 kt
1,374 kt
1,054 kt
384 kt
318 kt
257 kt
161 kt
143 kt
588 kt

3,228 kt
1,179 kt
594 kt
358 kt
229 kt
191 kt
159 kt
519 kt

NET EXPORTS
NET IMPORTS

-14%
-44%
+13%
-11%
+18%
+11%
-12%

1. Extra and intra EU27+3 trade.
Poland

Circular Economy for Plastics
Data for 2022

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

<table>
<thead>
<tr>
<th>Waste stream</th>
<th>Recycling (%)</th>
<th>Energy recovery (%)</th>
<th>Landfill (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,212 kt (via mixed waste collection)</td>
<td>2.9%</td>
<td>40.1%</td>
<td>57.0%</td>
</tr>
<tr>
<td>920 kt (via separate waste collection)</td>
<td>45.3%</td>
<td>28.7%</td>
<td>26.0%</td>
</tr>
</tbody>
</table>

Polish plastics waste recycling rates are x15.6 higher when collected separately, compared to mixed collection streams.

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

- Recycling: 43.6%
- Energy recovery: 21.2%
- Landfill: 35.2%

Waste collection evolution
2006–2022

- 1,225 kt in 2006
- 2,132 kt in 2022 (+74%)

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.
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.
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.


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.
Circular Economy for Plastics
Data for 2022
Spain

Post-consumer recycled plastics in conversion
2022, in kt

- Total: 1,871 kt
  - 22.1% (413 kt) in PACKAGING
  - 29.4% (242 kt) in BUILDING & CONSTRUCTION
  - 43.4% (151 kt) in AGRICULTURE, FARMING, GARDENING
  - 10.2% (34 kt) in AUTOMOTIVE
  - 8.8% (19 kt) in HOUSEWARE, LEISURE & SPORTS
  - 11.1% (24 kt) in ELECTRICAL & ELECTRONICS
  - 16.8% (101 kt) in OTHERS

Post-consumer recycled plastics in conversion evolution
2018–2022

- 2018: 7.2% (303 kt)
- 2020: 10.0% (406 kt)
- 2022: 22.3% (984 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. For data availability reasons, bio-attributed plastics are not included in national data.
Plastic products conversion, trade and national consumption
2022, in kt

The above data are rounded estimations.
1. Extra and intra EU27+3 trade.
Spain

Circular Economy for Plastics
Data for 2022

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

- **2,920 kt**
- **1,357 kt** via **MIXED** waste collection
  - **8.0%** Recycling
  - **24.7%** Energy recovery
  - **67.3%** Landfill

- **1,563 kt** via **SEPARATE** waste collection
  - **64.7%** Recycling
  - **21.6%** Energy recovery
  - **13.7%** Landfill

**Spanish plastics waste recycling rates are x8 higher when collected separately, compared to mixed collection streams.**

Post-consumer plastics waste treatment evolution
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.
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1. From household, industrial, and commercial plastics packaging.
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.
Post-consumer recycled plastics in conversion
2022, in kt

<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity (kt)</th>
<th>Percentage</th>
<th>Value (kt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>1,452</td>
<td>12.7%</td>
<td>184</td>
</tr>
<tr>
<td>Packaging</td>
<td>989</td>
<td>22.8%</td>
<td>225</td>
</tr>
<tr>
<td>Building &amp; Construction</td>
<td>220</td>
<td>6.4%</td>
<td></td>
</tr>
<tr>
<td>Electrical &amp; Electronics</td>
<td>217</td>
<td>6.5%</td>
<td></td>
</tr>
<tr>
<td>Automotive</td>
<td>140</td>
<td>34.2%</td>
<td></td>
</tr>
<tr>
<td>Agriculture, Farming, Gardening</td>
<td>134</td>
<td>5.2%</td>
<td></td>
</tr>
<tr>
<td>Houseware, Leisure &amp; Sports</td>
<td>536</td>
<td>4.5%</td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

The above data are rounded estimations.
1. Extra and intra EU27+3 trade.
Collection and treatment of post-consumer plastics waste
2022, in kt

UK plastics waste recycling rates are x13.6 higher when collected separately, compared to mixed collection streams.

Post-consumer plastics waste treatment evolution
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.
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1. From household, industrial, and commercial plastics packaging.