

# PLASTIC OVER SHOOT DAY

This is the day when the generation of plastic waste exceeds the capacity of waste management, leading to environmental pollution.

**2025 report  
summary**



|                |                                                                                                                                                                                                                                                                                                                                                                                        |
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PLASTIC  
OVERSHOOT  
DAY®





# Behind the project

EA For Impact is a Swiss non-profit association dedicated to advancing research and multi-stakeholder initiatives that drive systemic environmental change. We identify and address key sustainability knowledge gaps by developing science-based methodologies and producing open-access research to empower decision-makers.

Funded by EA Earth Action SA and philanthropic contributions, EA For Impact fosters collaboration between NGOs, policymakers, and experts. Through initiatives like Plastic Overshoot Day, the Plastic Footprint Network, Swiss Plastic Action, and Swiss Climate Action, we equip stakeholders with the insights and tools needed to tackle global sustainability challenges.

Plastic Overshoot Day is a natural extension of EA For Impact's extensive research and publications in the plastics field. It is built upon the methodology of PLASTEAX, the pioneering database offering comprehensive plastic waste management data at both country and polymer-specific levels.

As with all EA For Impact initiatives, Plastic Overshoot Day is committed to transparency, raising awareness about plastic pollution, and driving sustainable solutions to address a pressing global challenge.



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What is Plastic Overshoot Day?

# Plastic... is... everywhere

And its presence in our daily lives is becoming more and more visible – not just through pollution in our environment, but also in our bodies. As research on plastic advances, new studies reveal the far-reaching consequences of plastic pollution, including the presence of **microplastics** in human blood, lungs, and even placentas, and the health risks posed by plastic **additives** and chemical exposure. The impacts of plastic production, consumption, and disposal on climate, biodiversity, and human well-being are coming into sharper focus.

However, Plastic Overshoot Day focuses on one key issue: waste mismanagement. While plastic pollution is a multi-dimensional crisis, this report specifically examines how much plastic waste is being generated and whether existing waste management systems can properly handle it.

Every year, there is a point when the amount of plastic waste surpasses the world's ability to manage it effectively. That day is Plastic Overshoot Day – and in 2025, **it will fall on September 5th.**

To be clear, we do not take a stance on what is “good” or “bad” waste management. Our analysis follows the **United Nations National Guidance for Plastic Pollution Hotspotting**, which categorizes waste as either well managed or mismanaged. In this framework:

- **Well-managed waste** includes incineration, sanitary landfills, and recycling, as they are systems designed to prevent leakage into the environment.
- **Mismanaged waste** includes dumpsites, unsanitary landfills, other types of improper disposal, littered or uncollected waste, which all pose a high risk of plastic leakage into nature.



This classification does not mean that well-managed waste systems are perfect solutions or that they come without risks. Incineration, for example, raises concerns about air pollution and carbon emissions, while landfills can have long-term environmental impacts. But in the context of Plastic Overshoot Day, we use these internationally recognized definitions to assess how much plastic waste is being handled within controlled systems versus how much is being mismanaged and leaked into the environment.

By tracking Plastic Overshoot Day, we aim to provide an objective, data-driven perspective on the scale of plastic mismanagement worldwide. This report is not about promoting or opposing specific waste management approaches – it is about measuring the gap between plastic production and our capacity to manage it responsibly.

The findings underscore the urgency for systemic change. Governments, businesses, and individuals must work together to reduce plastic waste, improve waste management infrastructure, and transition towards circular solutions that prevent plastic from becoming pollution in the first place.

**Plastic Overshoot Day is a warning signal. But it is also an opportunity to rethink how we produce, consume, and manage plastic, and to take action before the crisis worsens.**

# Foreword

Half a decade after the landmark publication “Breaking the Plastic Wave” warned that, without systemic intervention, plastic pollution would triple by 2040, we find ourselves at a critical juncture. The report not only forecasted the worsening crisis but also outlined clear, science-based solutions that could reduce plastic pollution by over 80% using existing technologies and policy interventions. Yet, the situation has not improved – plastic production continues to rise, waste management systems remain overwhelmed, and plastic pollution continues to infiltrate our oceans, soils, and even our bodies.

Plastic Overshoot Day, falling on September 5<sup>th</sup>, 2025, marks the point at which global plastic waste generation surpasses our capacity to manage it properly. From that day forward, every additional piece of plastic waste will accumulate in landfills, be incinerated, or leak into the environment – fueling a crisis that touches ecosystems, human health, and the global economy.

Addressing plastic pollution is not just about cleaning up waste – it is about *rethinking* production, consumption, and our relationship with resources.

But plastic pollution is not just an isolated waste problem – it is a symptom of a much deeper systemic failure. The unchecked production and consumption of plastic reflect the same patterns driving overconsumption, resource depletion, and climate change.

Addressing plastic pollution is not just about cleaning up waste – it is about rethinking production, consumption, and our relationship with resources. Fixing plastic pollution means tackling overproduction and overconsumption—putting us on a path toward a more sustainable economy and a livable climate.

The stakes are high. In 2023 alone, nearly a million tons of plastic-derived chemical additives leaked

into waterways, while microplastics were found in human blood, lungs, and placentas. The plastic pollution crisis is not just an environmental issue – it is a public health emergency. As the scale of the problem becomes clearer, so too does the need for urgent, systemic action.



This year, the Intergovernmental Negotiating Committee (INC-5.2) session in Geneva represents a pivotal moment in the global fight against plastic pollution. With negotiations underway for a legally binding Global Plastics Treaty, we are at a crossroads. A strong treaty could reshape industries, drive innovation, and redefine how we produce and manage materials. A weak one risks locking in the status quo – one where waste continues to pile up, microplastics infiltrate our bodies, and future generations are left to deal with the consequences.

Governments, businesses, and individuals must all step up. Transparency and accountability must become the norm—from corporate

reporting on plastic footprints to policy commitments that align production with real waste management capacities. We cannot afford another decade of half-measures.

This report is not just a measurement – it is a warning, and more importantly, a call to action. Plastic Overshoot Day is not inevitable; it is a choice. The sooner we act, the sooner we can push it back—and ultimately, make it obsolete. The path forward is clear. Reduce plastic at the source. Strengthen waste management. Build a circular economy. Hold polluters accountable. In doing so, we will not only tackle the plastic crisis—we will take a vital step toward a more sustainable, balanced, and climate-resilient future.

The question is: how long will we wait?

Now is the time for decisive action. The tools, the knowledge, and the momentum exist.

What remains is the will to act.

# Glossary

## **Collection rate**

Ratio between the plastic waste collected and generated. Waste Collected includes: Waste export, Recycling, Properly disposed and Improperly disposed.

## **Export**

Export of any plastic by the country, in any form, be it primary polymer, plastic product, or plastic embedded in a product. It does not include export of plastic waste.

## **Import**

Import of any plastic into the country, in any form, be it primary polymer, plastic product, or plastic embedded in a product. It does not include import of plastic waste.

## **Improperly disposed**

Waste fraction that is disposed in a waste management system where leakage is expected to occur, such as a dumpsite or an unsanitary landfill. A dumpsite is a particular area where large quantities of waste are deliberately disposed in an uncontrolled

manner and can be the result of both the formal and informal sectors. A landfill is considered as unsanitary when waste management quality standards are not met, thus creating the potential for leakage.

## **Mismanaged**

The sum of uncollected and improperly managed waste.

## **Mismanaged Waste Index (MWI)**

The sum of uncollected and improperly managed waste, divided by the waste generated.

## **Leakage**

Plastic that is released into rivers, lakes and oceans.

## **Production**

Polymer production either from primary virgin source or secondary source (recycled plastic from previous year). It does not include the manufacturing of final products in the country, as this would lead to double counting.

**Properly disposed**

Waste fraction that is disposed in a waste management system where no leakage is expected to occur, such as an incineration facility or a sanitary landfill.

**Incineration**

“Proper” incineration is technology that destroys waste through burning while respecting technical requirements and operating conditions to avoid environmental pollution.

**Sanitary landfill**

Particular area where large quantities of waste are deliberately disposed in a controlled manner (e.g. waste being covered on a daily basis, as well as the bottom of the landfill designed in a way to prevent waste from leaching out).

**Domestic recycling**

Recycling of waste collected in the country. This does not include recycling of imported waste or waste collected for recycling in the country that is exported abroad.

**Uncollected (excl. littering)**

Waste fraction that is not collected, either by the formal or the informal sector. It excludes littering.

**Littering**

The act of dropping rubbish on the ground in public areas.

**Waste export**

Plastic waste collected in the country and exported abroad. It does not include the reexport of imported waste.

**Waste generated**

Country domestic plastic waste generation computed as:  $\text{Production} + \text{Import} - \text{Export} - \text{Added stock}$ .

**Waste import**

Import of plastic waste from other countries.



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# 01. Introductory note

This report provides a full assessment of the contribution to plastic pollution worldwide through the lense of the Plastic Overshoot Days since 2021, with a focus on this year's date. It is based on the baseline year 2025 from municipal solid waste (packaging, textile and household), with a global plastic production of 225 Mt, that is distributed across different country archetypes: the Moderate Polluters, the Overloaders, the Low-Waste-Producing Polluters, the Toxic Waste Producers, the Transactors and the Self-Sustainers.

The intention of this research is not to criticise the countries waste management, but to

increase the level of knowledge and awareness of the issue, so as to pave the way towards a better plastic management system.

This report therefore fills a key knowledge gap and provides a new and important insight to enable us to better prioritise research and actions around macro- and micro-plastic leakage, and plastic pollution in general.

Systemic solutions should be developed and implemented by the concerned countries.

## **DISCLAIMER:**

*The Plastic Overshoot Day is estimated and published every year. Revisions to calculations and scope may occur from one publication to the other, leading to adjusted overshoot dates compared to previous communications. We therefore suggest readers to always refer to the latest publication. The information and data in this report regarding Plastic Overshoot Day, including estimates on additives leakage and microplastic leakage, are provided for informational purposes only. Plastic Overshoot Day is an estimate and not an exact date. We have made reasonable efforts to ensure accuracy; however, it is important to note that science knowledge on synthetic textile is less advanced than for packaging and the estimates for additives and microplastics may be less detailed. These estimates are approximations and should not replace comprehensive studies. This report does not constitute legal or professional advice and should not be relied upon as such. The authors, publishers, and distributors of this report are not liable for errors or consequences arising from its use. Please note that the field of plastic waste management is constantly evolving, and new research may impact the understanding of the issues discussed. Readers are encouraged to stay informed about the latest developments. By accessing and using this report, you agree to the above disclaimer and accept that the authors, publishers, and distributors are not responsible for any claims or losses resulting from its use.*

## 02. Summary

Plastic Overshoot Day marks the point when the amount of plastic waste generated from single use packaging, household and textile sectors exceeds the world's capacity to manage it, resulting in environmental pollution. In 2025, the global Plastic Overshoot Day is projected to occur on **September 5<sup>th</sup>**. Each country has its own Plastic Overshoot Day, which is determined by the amount of plastic waste generated and the country's capacity to manage it.

The Plastic Overshoot Day alone does not provide the whole picture of this complex issue. Hence, to facilitate targeted and effective solutions, five country archetypes have been established, enabling the profiling of countries based on determining factors such as local per capita plastic consumption, the import and export volumes of waste, and the country's waste treatment capacities. By considering these archetypes, we can present recommendations tailored to each country's unique circumstances.

These recommendations aim to empower countries to improve their Overshoot Day and mitigate plastic pollution. They

include strategies such as reducing plastic consumption and usage, promoting circular economy models such as repair and reuse initiatives, implementing robust waste management policies like extended producer responsibilities (EPR), enhancing local waste management infrastructure, and ceasing the import of plastic waste from other countries.

By adopting measures relevant to their situation, countries can make significant progress in combatting plastic pollution.

Every country has its own Plastic Overshoot Day, corresponding to the day at which a country's waste management capacity is fully exhausted. Beyond this day, all

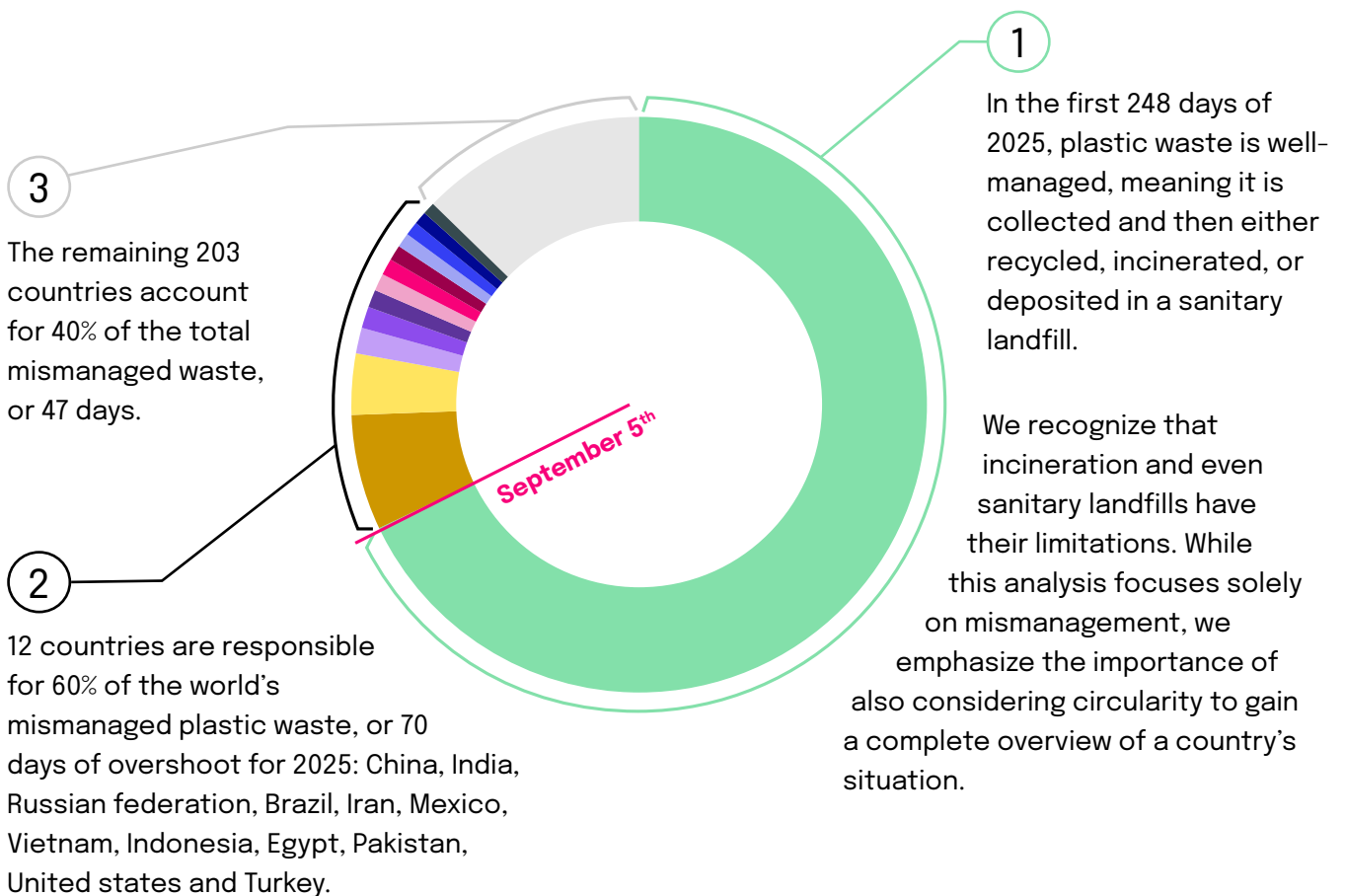
waste generated by the country becomes mismanaged, ultimately finding its way into the natural environment.





## Who contributes to the Plastic Overshoot Day?

In 2025, there are 117 days of plastic overshoot, meaning that the plastic waste produced during these days will not be well managed. Each country contributes to a portion of this plastic overshoot, according to the total amount of plastic waste they mismanage.



248 Days of Proper Plastic Waste Management in 2025

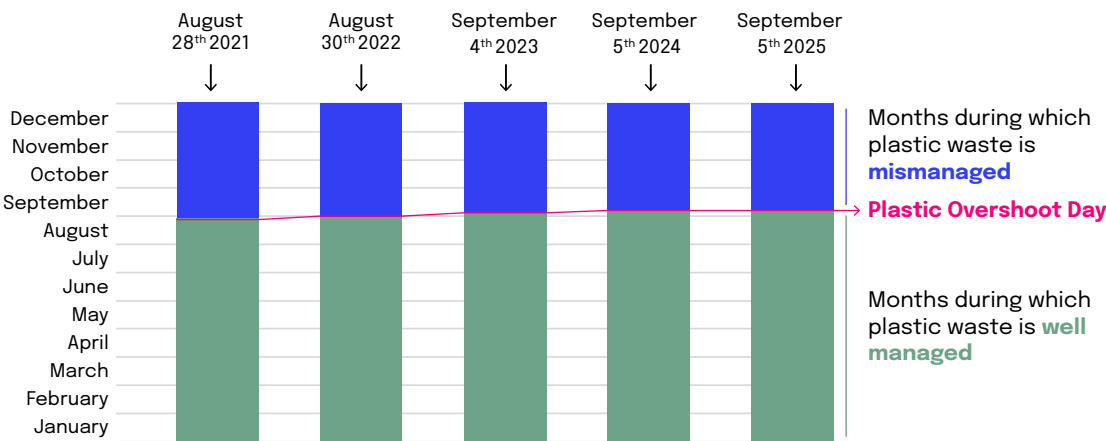
### Allocation of 2025 Global Overshoot Days:

|                         |                             |
|-------------------------|-----------------------------|
| China (23.7 days)       | Indonesia (3.2 days)        |
| India (12.5 days)       | Egypt (2.9 days)            |
| Russian Fed. (5.3 days) | Pakistan (2.8 days)         |
| Brazil (4.4 days)       | USA (2.7 days)              |
| Iran (3.6 days)         | Turkey (2.5 days)           |
| Mexico (3.5 days)       | Other countries (46.4 days) |
| Vietnam (3.4 days)      |                             |

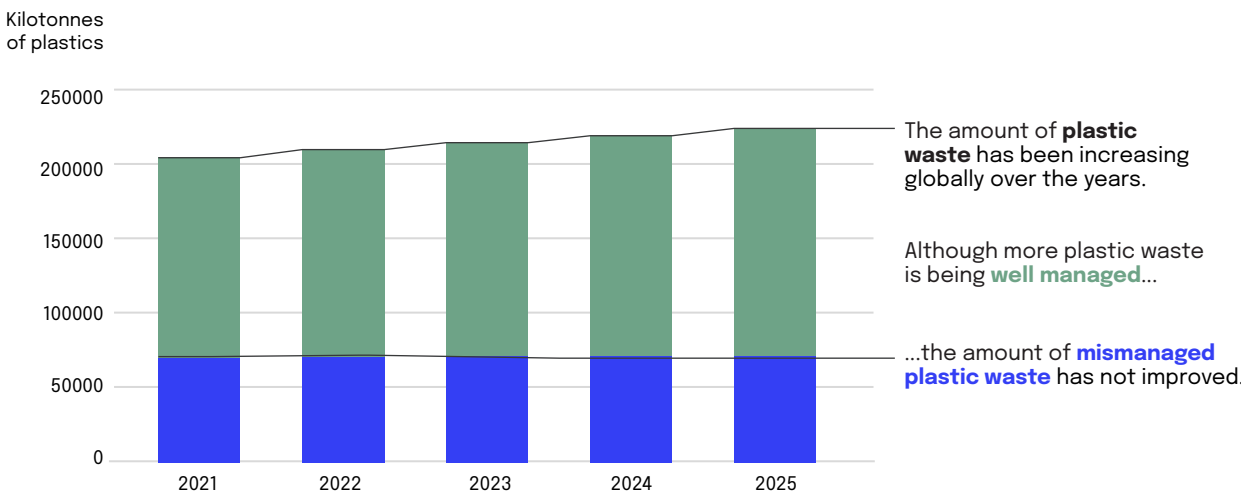
# Is it getting better or worse?

Plastic Overshoot date mirrors how well the world manages its plastic waste. As the date moves closer to the end of the year, a lesser amount of plastic waste becomes mismanaged. For each country, this means that less plastic waste is produced due to reduced consumption or that their management system has improved nationally.

Since 2021, POD has been pushed a little closer to December every year by a few days, indicating a slight improvement in global waste management.



However, there has been a consistent rise in global plastic waste generation, from 205 million tons in 2021 to 225 million tons in 2025. Therefore, despite an improvement in plastic waste management practices, the overall quantity of mismanaged plastic waste continues to grow.



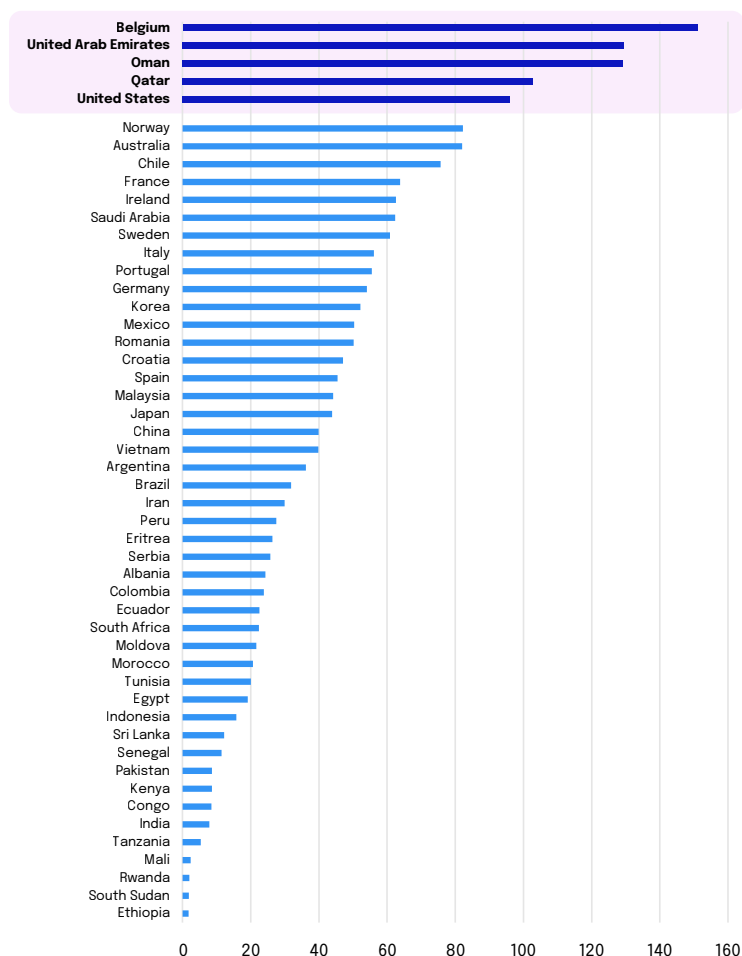
## 03. Executive summary

### A little (or big) story of plastic pollution...

Global plastic pollution is an aggregated contribution of each country. It depends on how much plastic waste is generated from consumption by each country and how much of this waste is mismanaged and may eventually leak in the environment.

The global average plastic waste generated by person and per year is 28 kg, with a total worldwide generation of 225 million tons per year. Diving into regional differences, plastic waste generation varies among countries and individuals, with some producing more plastic waste per capita than others.

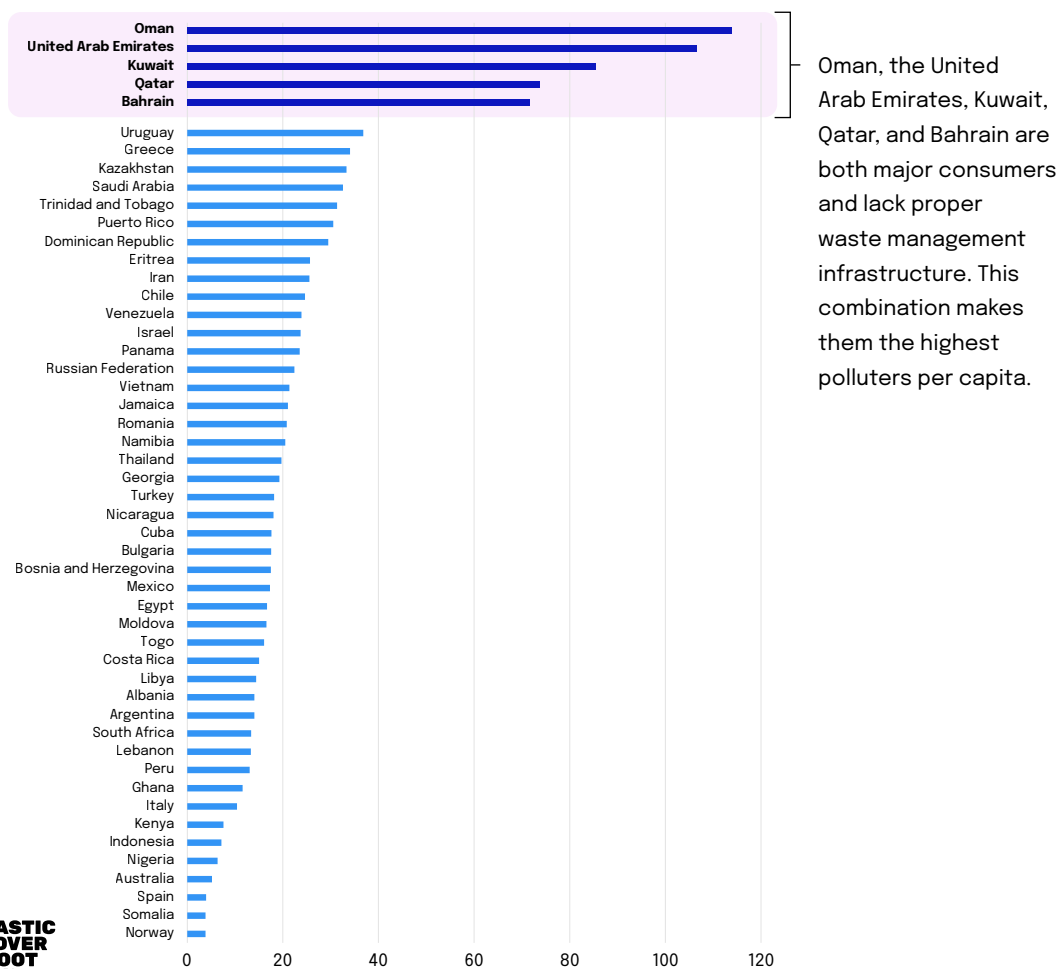
Plastic waste generation per capita (kg/capita/year)



Countries have varying capacities to effectively manage the plastic waste they generate, with some having more advanced waste management systems than others. Countries with the highest quantities of mismanaged plastic waste per capita are

those that both consume a lot and lack the proper facilities to manage their waste. This is the case for many countries in the Arabian Peninsula, such as Oman, the United Arab Emirates, Kuwait, Qatar, and Bahrain.

Mismanaged plastic waste per person (kg/capita/year)

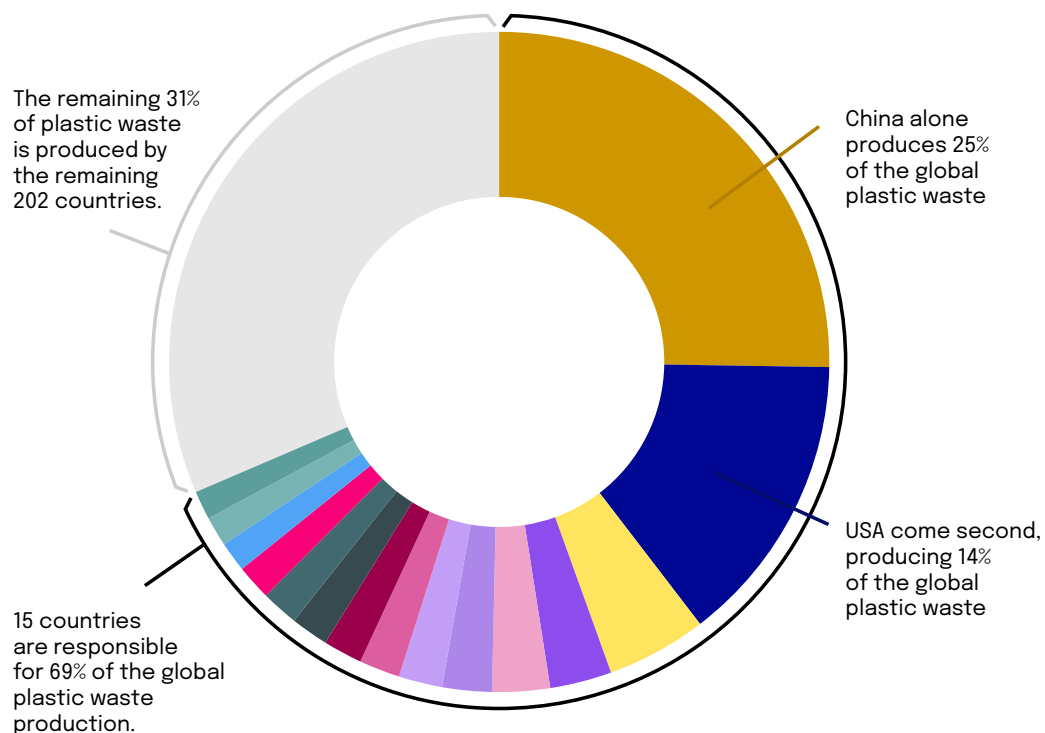


Despite lower level of waste generation per capita, a country's total waste production can be quite high due to its large territory and large population. An example is China, where each person is expected to produce around 40 kg/capita, which is considered medium, but is the top one plastic waste producer at the national

level, with expected 57 million tons produced in 2025.

Nevertheless, plastic waste generation is a global issue, with an expected total waste generation of 225 million tons worldwide.

Plastic waste generation per country (kt/year)



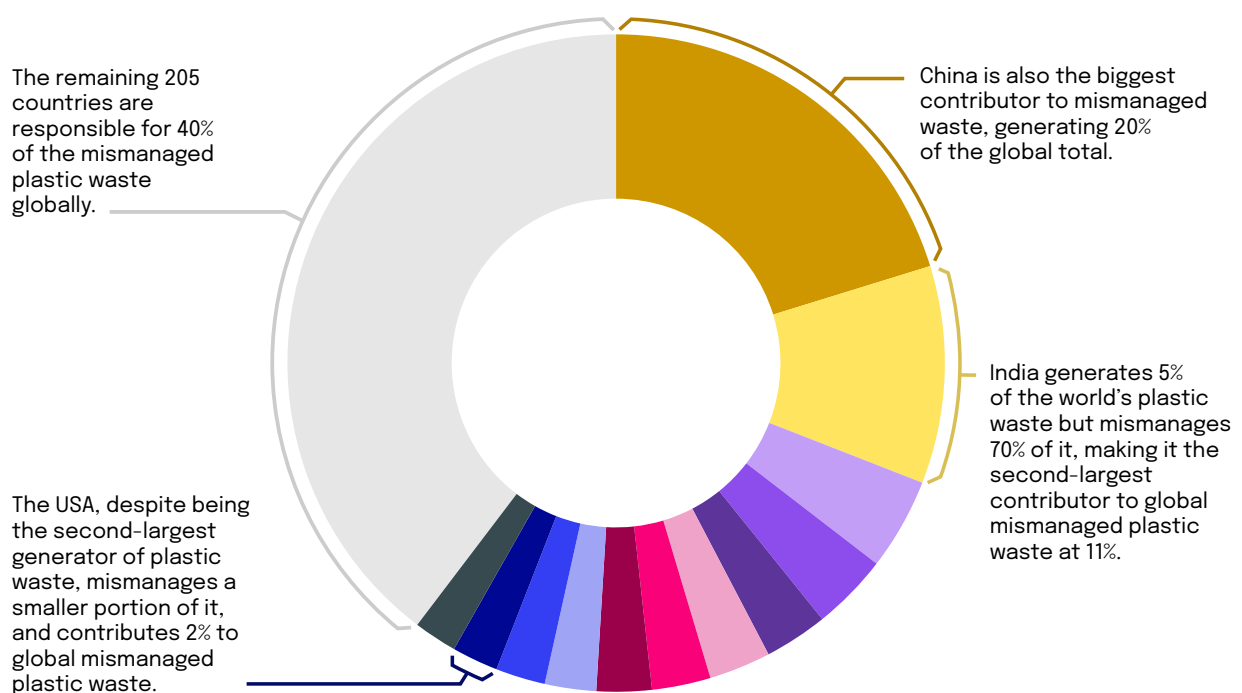
|                   |                         |                             |
|-------------------|-------------------------|-----------------------------|
| China (56 949 kt) | Russian Fed. (4 823 kt) | Italy (3 324 kt)            |
| USA (32 352 kt)   | Germany (4 510 kt)      | Thailand (3 281 kt)         |
| India (11 073 kt) | Indonesia (4 316 kt)    | Canada (3 175 kt)           |
| Brazil (6 821 kt) | UK (4 159 kt)           | Other countries (70 937 kt) |
| Mexico (3.6 days) | France (4 118 kt)       |                             |
| Japan (5 469 kt)  | Vietnam (3 885 kt)      |                             |



12 countries are responsible for 60% of the world's mismanaged plastic waste: China, India, Russia, Brazil, Iran, Mexico, Vietnam, Indonesia, Egypt, Pakistan, United States and Turkey.

In total, around 72 million tons of plastic is expected to be mismanaged globally this year and end up in the environment.

Mismanaged plastic waste per country (kt/year)

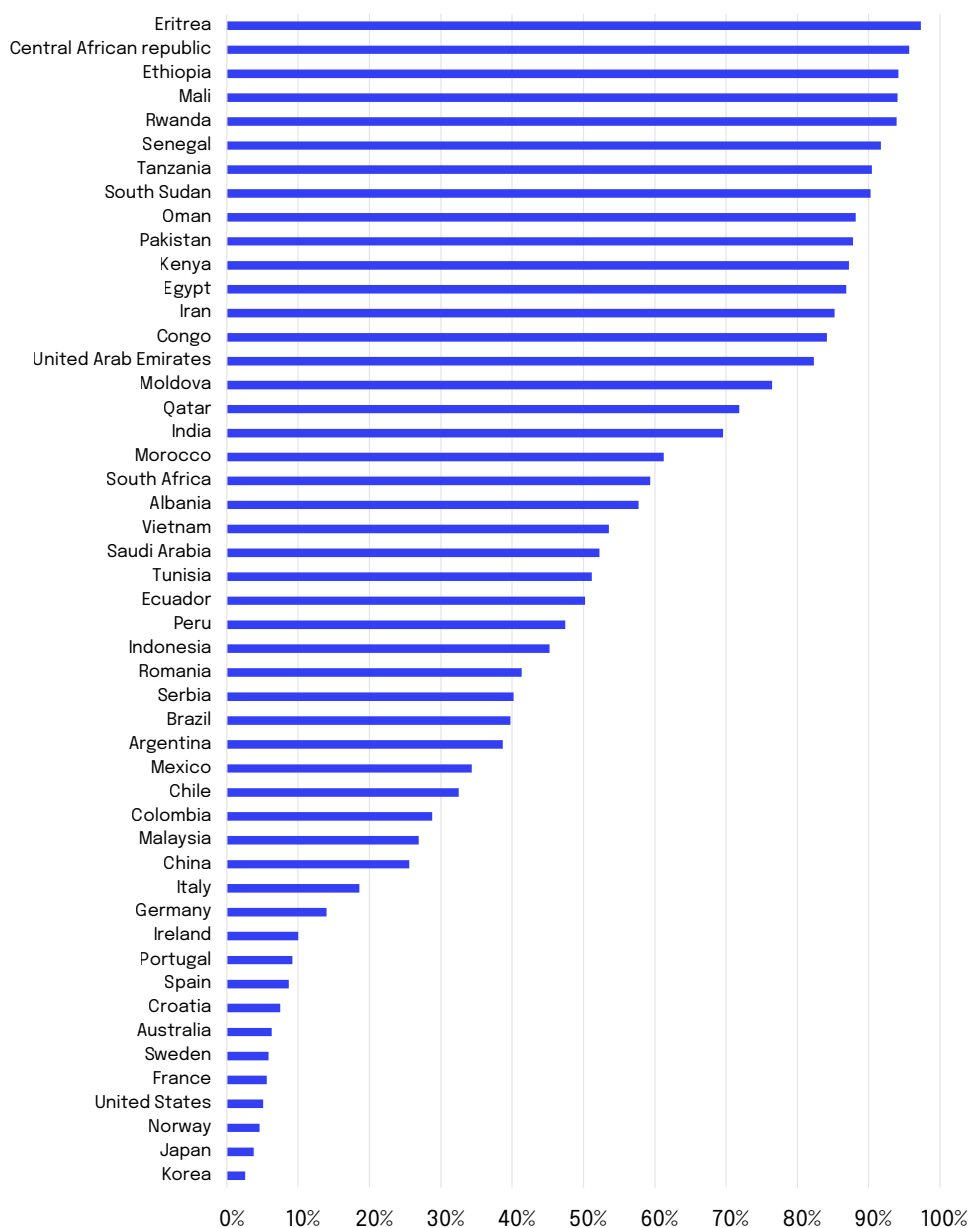


|                         |                      |                             |
|-------------------------|----------------------|-----------------------------|
| China (14 578 kt)       | Mexico (2 190 kt)    | Pakistan (1 759 kt)         |
| India (7 707 kt)        | Vietnam (2 080 kt)   | USA (1 640 kt)              |
| Russian Fed. (3 254 kt) | Indonesia (1 952 kt) | Turkey (1 537 kt)           |
| Brazil (2 714 kt)       | Egypt (1 820 kt)     | Other countries (28 576 kt) |
| Iran (2 246 kt)         |                      |                             |

The imbalance between the volumes of plastic that are produced and used, and the world's ability to manage those volumes when they become waste, is the root cause of plastic pollution. The mismatch of waste management

capacity versus plastic consumption is called the MWI, the mismanaged waste index. **Globally in 2025, a staggering 31.9% of plastic waste will be mismanaged at the end of its life, with the risk of this waste ending up in oceans.**

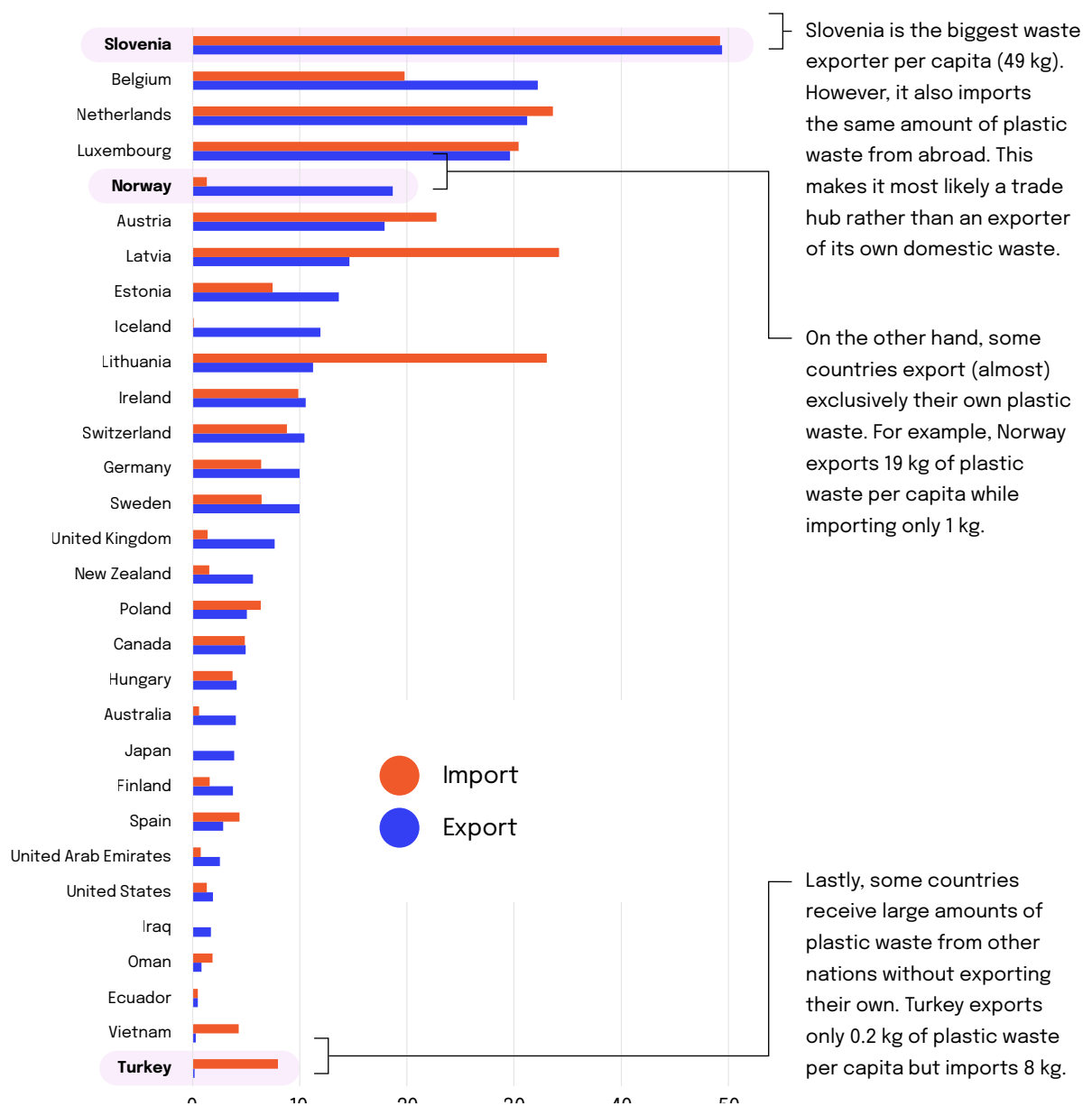
Plastic mismanaged waste index (%)



Countries trade plastic waste with one another.

**Pollution is created when plastic waste is exported in countries that have very low waste management capacities.**

Import and export per capita (kg/capita/year)



Plastic Overshoot Day marks the point when the amount of plastic waste generated exceeds the world's capacity to manage it,

resulting in environmental pollution. In 2025, the global Plastic Overshoot Day is projected to occur on **September 5<sup>th</sup>**.

## Overshoot Day by Country

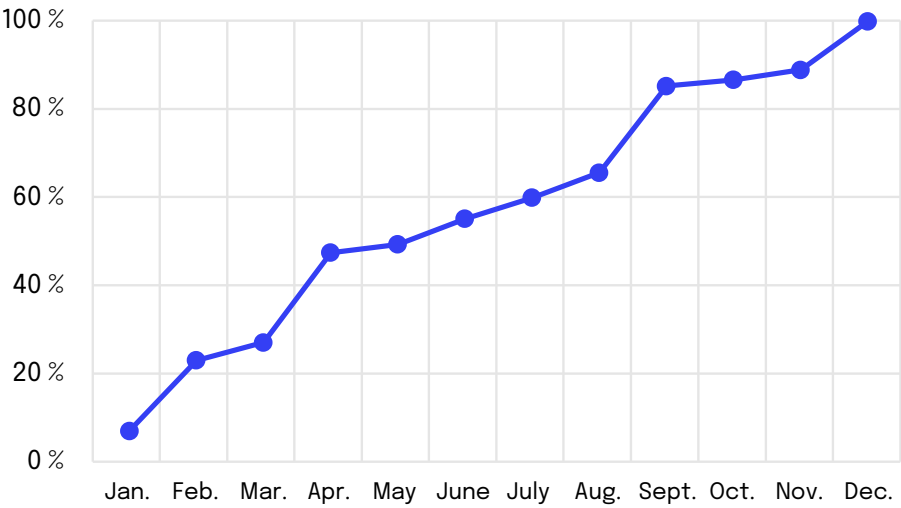
The date when a country's waste management capacity has been reached.



However, already by May 2025, almost half of the world's population will already be living in areas where plastic waste has exceeded the

capacity to manage it, indicating a pressing need for action to address the plastic waste crisis.

Population living in area having reached Plastic Overshoot Day (%)





## 04. Detailed results

### Country archetypes

Plastic Overshoot Day aims to offer insights into interventions that countries can use to reduce overall plastic waste and in particular, mitigate mismanaged plastic waste, therefore prolonging the country's overshoot date.

Each country has unique realities related to plastic pollution – including plastic usage levels, waste management infrastructure, and relevant policies – Plastic Overshoot Day looked to establish categories so that countries could be profiled and relevant and meaningful solutions could be presented and explored.

6 Country Archetypes have been defined, which represent countries based on:

- The amount of plastic waste the population produces
- How well plastic is managed when it becomes waste
- How much plastic waste the country exports
- How much plastic waste the country imports

## Summary table

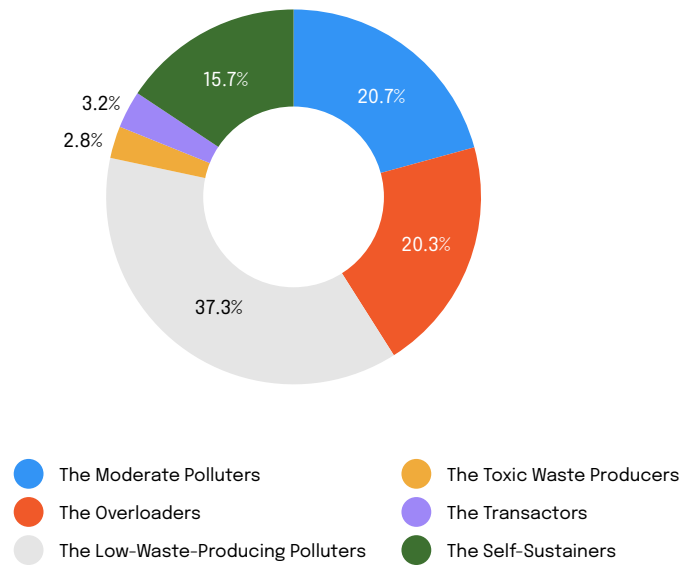
| Country archetypes                       | Waste generation level | Waste mismanagement level | Import Volumes | Export Volumes |
|------------------------------------------|------------------------|---------------------------|----------------|----------------|
| <b>The Moderate Polluters</b>            | Medium                 | High                      | Medium         | Medium         |
| <b>The Overloaders</b>                   | High                   | Low                       | High           | High           |
| <b>The Low-Waste-Producing Polluters</b> | Low                    | Very high                 | Low            | Medium         |
| <b>The Toxic Waste Producers</b>         | Very high              | Very high                 | Low            | Medium         |
| <b>The Transactors</b>                   | High                   | Low                       | Very high      | Very high      |
| <b>The Self-Sustainers</b>               | Medium                 | Medium                    | Medium         | Medium         |

The below table summarizes the thresholds for each of the criteria.

|                  | Waste generation level (kg/cap/year) | Waste mismanagement level | Import (% of waste generation) | Export (% of waste generation) |
|------------------|--------------------------------------|---------------------------|--------------------------------|--------------------------------|
| <b>Very high</b> | > 100                                | > 60%                     | > 10%                          | > 10%                          |
| <b>High</b>      | 50-100                               | 30-60%                    | 3-10%                          | 3-10%                          |
| <b>Medium</b>    | 15-50                                | 10-30%                    | 1-3%                           | 1-3%                           |
| <b>Low</b>       | < 15                                 | < 10%                     | < 1%                           | < 1%                           |

The next graph shows the share of the different archetypes for the year 2025.

Share of countries within each archetype (in %)



## Country archetype examples

Within this section, we aim to provide a comprehensive overview of each archetype, accompanied by an illustrative example of a country associated with that particular archetype.

| Country archetype                        | Country example    |
|------------------------------------------|--------------------|
| <b>The Moderate Polluters</b>            | Russian Federation |
| <b>The Overloaders</b>                   | Australia          |
| <b>The Low-Waste-Producing Polluters</b> | Ghana              |
| <b>The Toxic Waste Producers</b>         | Qatar              |
| <b>The Transactors</b>                   | The Netherlands    |
| <b>The Self-Sustainers</b>               | Colombia           |

Country archetype

# The Moderate polluters

| Factor                    | Ranking | Average           | Range            |
|---------------------------|---------|-------------------|------------------|
| Waste Generation Level    | Medium  | 31 kg/capita/year | Low to high      |
| Waste Mismanagement Level | High    | 60%               | High             |
| Import Volumes            | Medium  | 2.2%              | Low to very high |
| Export Volumes            | Medium  | 2.4%              | Low to very high |

## Description

On average, the Moderate Polluters tend to have a medium plastic waste generation levels. Half of them export some of their waste. These countries do not effectively manage their waste and negative environmental impacts result both domestically and in the countries receiving the waste.

## Countries

Cuba, Equatorial Guinea, French Polynesia, Kiribati, Marshall Islands, Nauru, Papua New Guinea, San Marino, Tonga, Vanuatu, Peru, South Africa, Jordan, Guyana, Russian Federation, Paraguay, Ukraine, Venezuela, Uruguay, Turkey, Morocco, Vietnam, Trinidad and Tobago, Bolivia, Libya, Indonesia, Fiji, Saudi Arabia, Macao SAR, China, Cayman Islands, Ecuador, Montenegro, Thailand, Albania, Honduras, Guatemala, Panama, Belize, Mauritius, Bosnia and Herzegovina, Lebanon, Nicaragua, Philippines, Tunisia.

### RECOMMENDATION 1

#### **Develop local waste management infrastructure.**

Further developing their domestic waste management infrastructure would allow the Moderate Polluters to treat more of their waste locally, thus reducing the burden placed on other countries.

### RECOMMENDATION 2

#### **Reduce plastic consumption.**

Reducing its consumption of plastic would have direct impacts over their waste mismanagement levels that would drop proportionally.

### RECOMMENDATION 3

#### **Invest in waste management policies including Extended Producer Responsibility,**

which would fund the development of the waste management infrastructure that is currently lacking.

Example

# Russian Federation

Overshoot Day, or the date when the amount of plastic waste outweighs this country's ability to manage it, with environmental pollution occurring as a result, is:

**28 April 2025**

Plastic Overshoot Day is determined by a country's Mismanaged Waste Index\*, which in this case is...

**67.45%**

In 2025, the world will experience **117 days** of plastic overshoot. This country will contribute to this overshoot by

**5 days 10 hours 3 minutes**

The Mismanaged Waste Index, or MWI, is

**Very high**

The expected mismanaged waste in 2025 will be

**3 182 063 tons of plastic**

The country's annual per capita plastic waste production is

**33 kg per capita per year**

which is considered

**Medium**

The total plastic waste produced in this country is

**4 717 346 tons of plastic**

The amount of plastic waste EXPORTED by the country is

**16 867 tons of plastic**

which represents

**0.3% of its total waste**

This relative export is considered

**Low**

The amount of plastic waste IMPORTED by the country is

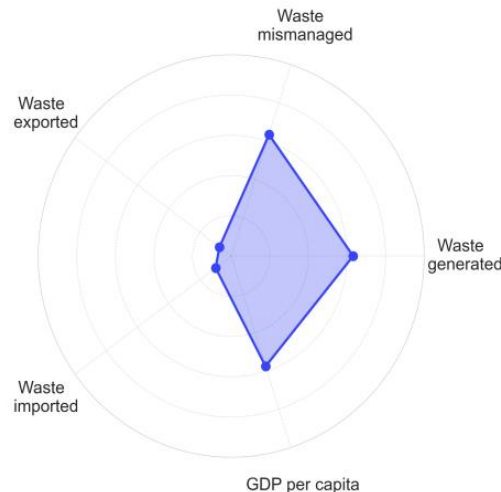
**35 097 tons of plastic**

which represents

**0.7% of its total waste**

This relative import is considered

**Low**



As per the Plastic Overshoot Day archetypes, this country is classified as one of:

## The Moderate Polluters

*On average, the Moderate Polluters tend to have a medium plastic waste generation level. Half of them export some of their waste. These countries do not effectively manage their waste and negative environmental impacts result both domestically and in the countries receiving the waste.*

Recommendations for driving necessary changes to mitigate plastic pollution and postpone the Overshoot Day in this country:

**Develop local waste management infrastructure.**

**Reduce plastic production and use.**

**Invest in waste management policies like EPR.**



Plastic pollution is caused not only by the improper disposal of plastic products but also by the release of primary microplastics from sources such as tire abrasion, shedding of textile fibers, pellets production and paint. It is expected that in 2025 this country will be responsible for releasing into the environment an average of

**50 831 tons of microplastics in waterways.**



In addition, plastic production and processing involve the use of additives, which can have harmful impacts on ecosystems and human health if they leak into the environment due to waste mismanagement. It is anticipated that in 2025, plastic waste mismanagement in this country will result in the release into waterways of

**13 482 tons of chemical additives pollution.**

\*The Mismanaged Waste Index is the share of plastic waste generated by a country that is mismanaged



Country archetype

# The Overloaders

| Factor                    | Ranking | Average           | Range               |
|---------------------------|---------|-------------------|---------------------|
| Waste Generation Level    | High    | 77 kg/capita/year | Medium to very high |
| Waste Mismanagement Level | Low     | 10.3%             | Low to medium       |
| Import Volumes            | High    | 5%                | Low to very high    |
| Export Volumes            | High    | 8%                | Low to very high    |

## Description

The Overloaders are high plastic waste generators, who export a significant amount of their waste. Their waste is well managed. Unlike the similarly high-consuming Transactors, the Overloaders import less waste than they export. This imbalance therefore overloads the waste management systems of other countries, likely creating mismanagement issues in countries where Overloaders send their plastic waste.

## Countries

Antigua and Barbuda, Australia, Barbados, Belgium, Bermuda, Canada, Channel Islands, Chile, Croatia, Czech Republic, Denmark, Estonia, Faeroe Islands, Finland, France, Germany, Gibraltar, Greece, Greenland, Hong Kong SAR, China, Hungary, Iceland, Ireland, Isle of Man, Israel, Italy, Japan, Korea, Malta, New Zealand, Norway, Poland, Portugal, Puerto Rico, Singapore, Slovak Republic, Spain, St. Martin, Sweden, Switzerland, Taiwan, United Kingdom, United States, Virgin Islands.

### RECOMMENDATION 1

#### **Reduce plastic production and use.**

The primary way to mitigate plastic pollution is to mitigate the amount of plastic used by the population. As a high consumption country, reducing plastic consumption is critical for the Overloaders.

### RECOMMENDATION 2

**Become circular.** Plastic waste typically exists in a linear system of “take, make, dispose”. Plastic manufacturing and management must transition to more circular systems to address the plastic pollution crisis. Effective solutions must include a move away from the linear status quo to circular business models based on reuse and repair.

Example

# Australia

Overshoot Day, or the date when the amount of plastic waste outweighs this country's ability to manage it, with environmental pollution occurring as a result, is:

**08 December 2025**

Plastic Overshoot Day is determined by a country's Mismanaged Waste Index\*, which in this case is...

**6.27%**

In 2025, the world will experience **117 days** of plastic overshoot. This country will contribute to this overshoot by

**5 hours 20 minutes**

The Mismanaged Waste Index, or MWI, is

**Low**

The expected mismanaged waste in 2025 will be

**130 407 tons of plastic**

The country's annual per capita plastic waste production is

**80 kg per capita per year**

which is considered

**High**

The total plastic waste produced in this country is

**2 079 514 tons of plastic**

The amount of plastic waste EXPORTED by the country is

**104 741 tons of plastic**

which represents

**4.9% of its total waste**

This relative export is considered

**High**

The amount of plastic waste IMPORTED by the country is

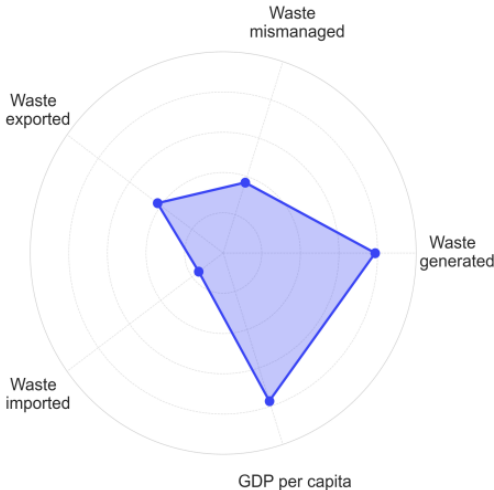
**15 356 tons of plastic**

which represents

**0.7% of its total waste**

This relative import is considered

**Low**



As per the Plastic Overshoot Day archetypes, this country is classified as one of:

## The Overloaders

*The Overloaders are high plastic waste generators, who export a significant amount of their waste. Their waste is well managed. Unlike the similarly high-consuming Transactors, the Overloaders import less waste than they export. This imbalance therefore overloads the waste management systems of other countries, likely creating mismanagement issues in countries where Overloaders send their plastic waste.*

Recommendations for driving necessary changes to mitigate plastic pollution and postpone the Overshoot Day in this country:

**Reduce plastic consumption.**

**Become circular.**



Plastic pollution is caused not only by the improper disposal of plastic products but also by the release of primary microplastics from sources such as tire abrasion, shedding of textile fibers, pellets production and paint. It is expected that in 2025 this country will be responsible for releasing into the environment an average of

**29 979 tons of microplastics in waterways.**



In addition, plastic production and processing involve the use of additives, which can have harmful impacts on ecosystems and human health if they leak into the environment due to waste mismanagement. It is anticipated that in 2025, plastic waste mismanagement in this country will result in the release into waterways of

**553 tons of chemical additives pollution.**

\*The Mismanaged Waste Index is the share of plastic waste generated by a country that is mismanaged

Country archetype

# The Low-Waste-Producing Polluters

| Factor                    | Ranking   | Average           | Range            |
|---------------------------|-----------|-------------------|------------------|
| Waste generation level    | Low       | 12 kg/capita/year | Low to medium    |
| Waste Mismanagement Level | Very high | 87%               | Very high        |
| Import Volumes            | Low       | 0.8%              | Low to very high |
| Export Volumes            | Medium    | 1.3%              | Low to very high |

## Description

Despite their low waste production levels, the Low-Waste-Producing Polluters contribute to plastic pollution levels due to their poor waste management practices. Depending on the size of the population, some countries can be large contributors to the global pollution.

## Countries

Afghanistan, Angola, Armenia, Aruba, Azerbaijan, Bangladesh, Benin, Bhutan, Botswana, Burkina Faso, Burundi, Cabo Verde, Cambodia, Cameroon, Central African Republic, Chad, Comoros, Congo, Congo Democratic Republic, Côte d'Ivoire, Curaçao, Djibouti, Dominican Republic, Egypt, Eritrea, Eswatini, Ethiopia, Gabon, Gambia, Georgia, Ghana, Guinea, Guinea-Bissau, Haiti, India, Iran, Iraq, Kazakhstan, Kenya, Kosovo, Kyrgyz Republic, Lao PDR, Lesotho, Liberia, Madagascar, Malawi, Maldives, Mali, Mauritania, Micronesia, Moldova, Mongolia, Mozambique, Myanmar, Namibia, Nepal, Niger, Nigeria, Pakistan, Rwanda, São Tomé and Príncipe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sri Lanka, Sudan, Suriname, Syrian Arab Republic, Tajikistan, Tanzania, Timor-Leste, Togo, Tuvalu, Uganda, Uzbekistan, West Bank and Gaza, Yemen, Zambia, Zimbabwe.

### RECOMMENDATION 1

**Develop local waste management infrastructure.** Further developing their domestic waste management infrastructure would allow the Low-Waste-Producing Polluters to treat more of their waste locally, thus reducing the burden placed on other countries.

### RECOMMENDATION 2

**Invest in waste management policies including Extended Producer Responsibility,** which would fund the development of the waste management infrastructure that is currently lacking.

Example

# Ghana

Overshoot Day, or the date when the amount of plastic waste outweighs this country's ability to manage it, with environmental pollution occurring as a result, is:

**18 February 2025**

Plastic Overshoot Day is determined by a country's Mismanaged Waste Index\*, which in this case is...

**86.35%**

In 2025, the world will experience **117 days** of plastic overshoot. This country will contribute to this overshoot by

**15 hours 9 minutes**

The Mismanaged Waste Index, or MWI, is

**Very high**

The expected mismanaged waste in 2025 will be

**370 876 tons of plastic**

The country's annual per capita plastic waste production is

**13 kg per capita per year**

which is considered

**Low**

The total plastic waste produced in this country is

**429 492 tons of plastic**

The amount of plastic waste EXPORTED by the country is

**5 499 tons of plastic**

which represents

**1.3% of its total waste**

This relative export is considered

**Medium**

The amount of plastic waste IMPORTED by the country is

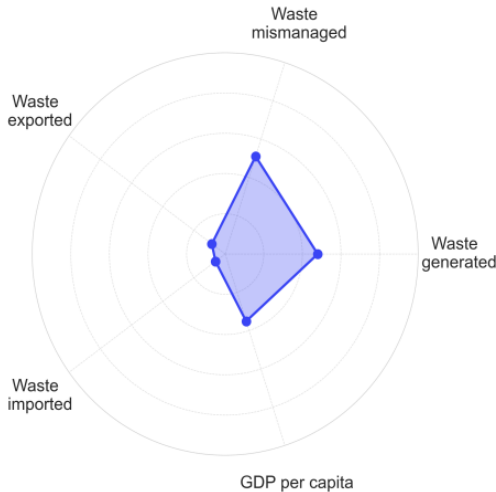
**1 779 tons of plastic**

which represents

**0.4% of its total waste**

This relative import is considered

**Low**



As per the Plastic Overshoot Day archetypes, this country is classified as one of:

## The Low-Waste-Producing Polluters

*Despite their low waste production levels, the Low-Waste-Producing Polluters contribute to plastic pollution levels due to their poor waste management practices. Depending on the size of the population, some countries can be large contributors to the global pollution.*

Recommendations for driving necessary changes to mitigate plastic pollution and postpone the Overshoot Day in this country:

**Develop local waste management infrastructure.**

**Invest in waste management policies like EPR.**



Plastic pollution is caused not only by the improper disposal of plastic products but also by the release of primary microplastics from sources such as tire abrasion, shedding of textile fibers, pellets production and paint. It is expected that in 2025 this country will be responsible for releasing into the environment an average of

**3 845 tons of microplastics in waterways.**



In addition, plastic production and processing involve the use of additives, which can have harmful impacts on ecosystems and human health if they leak into the environment due to waste mismanagement. It is anticipated that in 2025, plastic waste mismanagement in this country will result in the release into waterways of

**1 571 tons of chemical additives pollution.**

\*The Mismanaged Waste Index is the share of plastic waste generated by a country that is mismanaged

Country archetype

# The Toxic Waste Producers

| Factor                    | Ranking   | Average            | Range             |
|---------------------------|-----------|--------------------|-------------------|
| Waste generation level    | Very high | 111 kg/capita/year | High to very high |
| Waste Mismanagement Level | High      | 79%                | Very high         |
| Import Volumes            | Low       | 0.4%               | Low to medium     |
| Export Volumes            | Medium    | 1.1%               | Low to medium     |

## Description

The Toxic Waste Producers are high plastic waste generators, with waste that is mismanaged at high levels. Some of these countries export their waste to places that do not have proper waste management infrastructure. Plastic pollution in many countries is impacted by waste that was mismanaged after being received from Toxic Waste Producers.

## Countries

Bahrain, Kuwait, Northern Mariana Islands, Oman, Qatar, United Arab Emirates.

### RECOMMENDATION 1

#### **Reduce plastic production and use.**

The primary way to mitigate plastic pollution is to mitigate the amount of plastic used by the population. As a high consumption country, reducing plastic consumption is critical for the Toxic Waste Producers.

### RECOMMENDATION 2

#### **Develop local waste management infrastructure.**

Further developing their domestic waste management infrastructure would allow the Toxic Waste Producers to treat more of their waste locally, thus reducing the burden placed on other countries.

### RECOMMENDATION 3

**Become circular.** Plastic waste typically exists in a linear system of “take, make, dispose”. Plastic manufacturing and management must transition to more circular systems to address the plastic pollution crisis. Effective solutions must include a move away from the linear status quo to circular business models based on reuse and repair.

Example

# Qatar

Overshoot Day, or the date when the amount of plastic waste outweighs this country's ability to manage it, with environmental pollution occurring as a result, is:

**12 April 2025**

Plastic Overshoot Day is determined by a country's Mismanaged Waste Index\*, which in this case is...

**71.82%**

In 2025, the world will experience **117 days** of plastic overshoot. This country will contribute to this overshoot by

**8 hours 56 minutes**

The Mismanaged Waste Index, or MWI, is

**Very high**

The expected mismanaged waste in 2025 will be

**193 999 tons of plastic**

The country's annual per capita plastic waste production is

**100 kg per capita per year**

which is considered

**Very high**

The total plastic waste produced in this country is

**270 116 tons of plastic**

The amount of plastic waste EXPORTED by the country is

**5 188 tons of plastic**

which represents

**1.9% of its total waste**

This relative export is considered

**Medium**

The amount of plastic waste IMPORTED by the country is

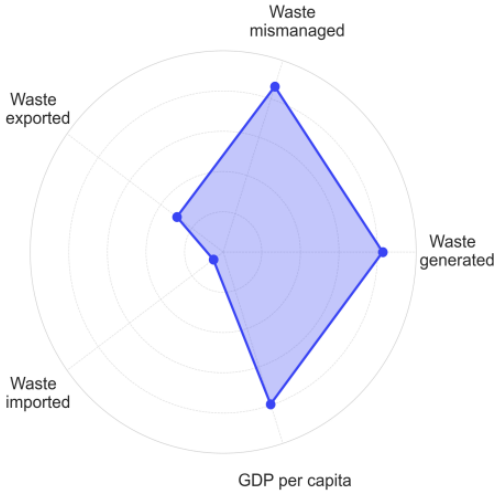
**160 tons of plastic**

which represents

**0.1% of its total waste**

This relative import is considered

**Low**



As per the Plastic Overshoot Day archetypes, this country is classified as one of:

**The Toxic Waste Producers**

*The Toxic Waste Producers are high plastic waste generators, with waste that is mismanaged at high levels. Some of these countries export their waste to places that do not have proper waste management infrastructure. Plastic pollution in many countries is impacted by waste that was mismanaged after being received from Toxic Waste Producers.*

Recommendations for driving necessary changes to mitigate plastic pollution and postpone the Overshoot Day in this country:

- Reduce plastic production and use.**
- Develop local waste management infrastructure.**
- Become circular.**



Plastic pollution is caused not only by the improper disposal of plastic products but also by the release of primary microplastics from sources such as tire abrasion, shedding of textile fibers, pellets production and paint. It is expected that in 2025 this country will be responsible for releasing into the environment an average of

**5 753 tons of microplastics in waterways.**



In addition, plastic production and processing involve the use of additives, which can have harmful impacts on ecosystems and human health if they leak into the environment due to waste mismanagement. It is anticipated that in 2025, plastic waste mismanagement in this country will result in the release into waterways of

**822 tons of chemical additives pollution.**

\*The Mismanaged Waste Index is the share of plastic waste generated by a country that is mismanaged

Country archetype

# The Transactors

| Factor                    | Ranking   | Average           | Range               |
|---------------------------|-----------|-------------------|---------------------|
| Waste generation level    | High      | 71 kg/capita/year | Medium to very high |
| Waste Mismanagement Level | Low       | 11%               | Low to medium       |
| Import Volumes            | Very high | 51%               | Very high           |
| Export Volumes            | Very high | 33%               | Very high           |

## Description

The Transactors are countries with high rates of plastic waste production. Their waste tends to be well-managed, although most do not yet have extensive circular systems around plastics. The Transactors are wealthy countries from Europe. They export a lot of their waste but also import a lot of waste from neighboring countries. Through this exchange of waste with their trade partners they have been able to optimize their waste management practices, resulting in a low volume of waste ending up mismanaged and low risk of plastic leakage into the environment.

## Countries

Austria, Cyprus, Latvia, Lithuania, Luxembourg, Netherlands, Slovenia.

### RECOMMENDATION 1

#### **Reduce plastic production and use.**

The primary way to mitigate plastic pollution is to mitigate the amount of plastic used by the population. As a high consumption country, reducing plastic consumption is critical for the Transactors. A secondary benefit of lower consumption levels would be that their existing waste management capacity could assist others who currently lack the infrastructure to properly manage their waste.

### RECOMMENDATION 2

**Become circular.** Plastic waste typically exists in a linear system of “take, make, dispose”. Plastic manufacturing and management must transition to more circular systems to address the plastic pollution crisis. Effective solutions must include a move away from the linear status quo to circular business models based on reuse and repair.



Example

# The Netherlands

Overshoot Day, or the date when the amount of plastic waste outweighs this country's ability to manage it, with environmental pollution occurring as a result, is:

**11 November 2025**

Plastic Overshoot Day is determined by a country's Mismanaged Waste Index\*, which in this case is...

**13.68%**

In 2025, the world will experience **117 days** of plastic overshoot. This country will contribute to this overshoot by

**9 hours 55 minutes**

The Mismanaged Waste Index, or MWI, is

**Medium**

The expected mismanaged waste in 2025 will be

**217 997 tons of plastic**

The country's annual per capita plastic waste production is

**91 kg per capita per year**

which is considered

**High**

The total plastic waste produced in this country is

**1 593 923 tons of plastic**

The amount of plastic waste EXPORTED by the country is

**546 388 tons of plastic**

which represents

**33.5% of its total waste**

This relative export is considered

**Very high**

The amount of plastic waste IMPORTED by the country is

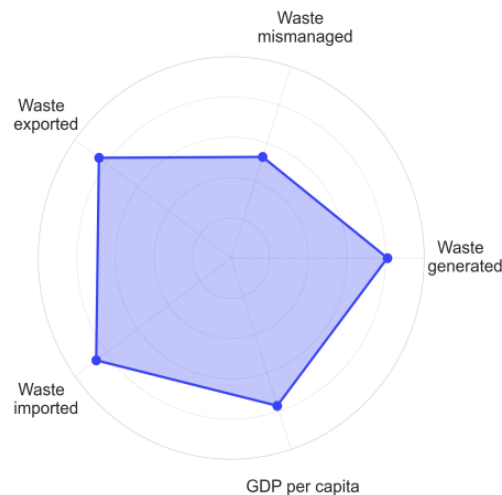
**588 721 tons of plastic**

which represents

**36.1% of its total waste**

This relative import is considered

**Very high**



As per the Plastic Overshoot Day archetypes, this country is classified as one of:

## The Transactors

*The Transactors are countries with high rates of plastic waste production. Their waste tends to be well-managed, although most do not yet have extensive circular systems around plastics. The Transactors are wealthy countries from Europe. They export a lot of their waste but also import a lot of waste from neighboring countries. Through this exchange of waste with their trade partners they have been able to optimize their waste management practices, resulting in a low volume of waste ending up mismanaged and low risk of plastic leakage into the environment.*

Recommendations for driving necessary changes to mitigate plastic pollution and postpone the Overshoot Day in this country:

**Reduce plastic production and use.**

**Become circular.**



Plastic pollution is caused not only by the improper disposal of plastic products but also by the release of primary microplastics from sources such as tire abrasion, shedding of textile fibers, pellets production and paint. It is expected that in 2025 this country will be responsible for releasing into the environment an average of

**11 982 tons of microplastics in waterways.**



In addition, plastic production and processing involve the use of additives, which can have harmful impacts on ecosystems and human health if they leak into the environment due to waste mismanagement. It is anticipated that in 2025, plastic waste mismanagement in this country will result in the release into waterways of

**924 tons of chemical additives pollution.**

\*The Mismanaged Waste Index is the share of plastic waste generated by a country that is mismanaged

Country archetype

# The Self-Sustainers

| Factor                    | Ranking | Average           | Range            |
|---------------------------|---------|-------------------|------------------|
| Waste generation level    | Medium  | 32 kg/capita/year | Low to high      |
| Waste Mismanagement Level | Medium  | 29%               | Low to high      |
| Import Volumes            | Medium  | 2.5%              | Low to very high |
| Export Volumes            | Medium  | 2.4%              | Low to very high |

## Description

The Self-Sustainers are moderate plastic waste generators per capita that can to some extent manage their waste internally, although improvements are needed for some of them.

## Countries

Algeria, American Samoa, Andorra, Argentina, Bahamas, Belarus, Brazil, British Virgin Islands, Brunei, Bulgaria, China, Colombia, Costa Rica, Dominica, El Salvador, Grenada, Guam, Liechtenstein, Macedonia, Malaysia, Mexico, Monaco, New Caledonia, Palau, Romania, Samoa, Serbia, Seychelles, Sint Maarten (Dutch part), St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Turkmenistan, Turks and Caicos Islands.

### RECOMMENDATION 1

**Reduce plastic production and use.** The primary way to mitigate plastic pollution is to mitigate the amount of plastic used by the population. As a high consumption country, reducing plastic consumption is critical for the Self-Sustainers. A secondary benefit of lower consumption levels would be that their existing waste management capacity could assist others who currently lack the infrastructure to properly manage their waste.

### RECOMMENDATION 2

**Develop local waste management infrastructure.** Further developing their domestic waste management infrastructure would allow the Self-Sustainers to treat more of their waste locally, thus reducing the burden placed on other countries.

### RECOMMENDATION 3

**Become circular.** Plastic waste typically exists in a linear system of “take, make, dispose”. Plastic manufacturing and management must transition to more circular systems to address the plastic pollution crisis. Effective solutions must include a move away from the linear status quo to circular business models based on reuse and repair.

Example

# Colombia

Overshoot Day, or the date when the amount of plastic waste outweighs this country's ability to manage it, with environmental pollution occurring as a result, is:

**16 September 2025**

Plastic Overshoot Day is determined by a country's Mismanaged Waste Index\*, which in this case is...

**28.82%**

In 2025, the world will experience **117 days** of plastic overshoot. This country will contribute to this overshoot by

**14 hours 11 minutes**

The Mismanaged Waste Index, or MWI, is

**Medium**

The expected mismanaged waste in 2025 will be

**346 996 tons of plastic**

The country's annual per capita plastic waste production is

**23 kg per capita per year**

which is considered

**Medium**

The total plastic waste produced in this country is

**1 203 924 tons of plastic**

The amount of plastic waste EXPORTED by the country is

**7 542 tons of plastic**

which represents

**0.6% of its total waste**

This relative export is considered

**Low**

The amount of plastic waste IMPORTED by the country is

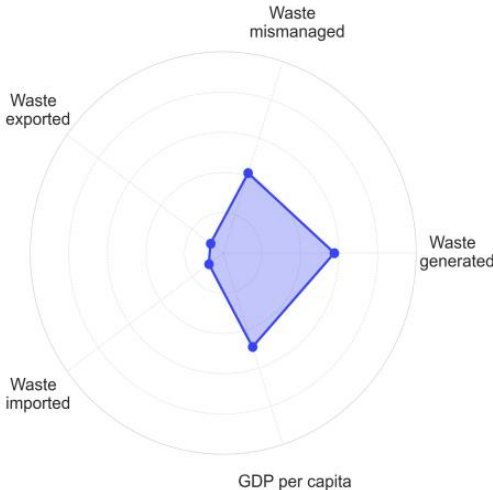
**10 420 tons of plastic**

which represents

**0.8% of its total waste**

This relative import is considered

**Low**



As per the Plastic Overshoot Day archetypes, this country is classified as one of:

### The Self-Sustainers

*The Self-Sustainers are moderate plastic waste generators per capita that can to some extent manage their waste internally, although improvements are needed for some of them.*

Recommendations for driving necessary changes to mitigate plastic pollution and postpone the Overshoot Day in this country:

**Reduce plastic production and use.**

**Develop local waste management infrastructure.**

**Become circular.**



Plastic pollution is caused not only by the improper disposal of plastic products but also by the release of primary microplastics from sources such as tire abrasion, shedding of textile fibers, pellets production and paint. It is expected that in 2025 this country will be responsible for releasing into the environment an average of

**11 008 tons of microplastics in waterways.**



In addition, plastic production and processing involve the use of additives, which can have harmful impacts on ecosystems and human health if they leak into the environment due to waste mismanagement. It is anticipated that in 2025, plastic waste mismanagement in this country will result in the release into waterways of

**1 470 tons of chemical additives pollution.**

\*The Mismanaged Waste Index is the share of plastic waste generated by a country that is mismanaged

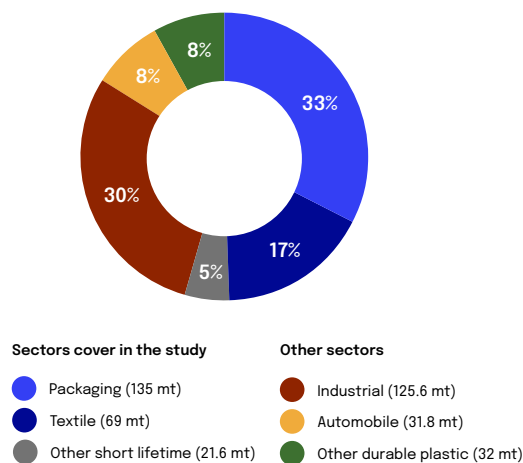
# 05. Appendix

## Scope of the study

The primary objective of this study is to comprehensively quantify plastic pollution on a global scale and determine the global Plastic Overshoot Day, as well as the Overshoot Day for individual countries. The study specifically focuses on plastic waste originating from solid waste management systems, encompassing plastic packaging, textiles and household products. It is important to note that plastics used exclusively in industrial applications are excluded from this analysis. The research methodology involves conducting the analysis at a global level initially and subsequently drilling down to a country-level assessment, providing a detailed understanding of plastic pollution trends and challenges worldwide.

## Yearly production of plastic in the world

Plastic Overshoot Day sheds light on a critical aspect of the world's plastic consumption: short-life plastics, encompassing plastic packaging and single-use plastics. These categories account for approximately 35% of the total plastic commercialized annually. Moreover, they pose the higher risk of leakage in the environment. Plastic Overshoot Days also include the contribution of synthetic textile to plastic pollution. This category accounts for an additional 15% of the total plastic commercialized annually.



## Country overshoot days

Every country has its own Plastic Overshoot Day. Explore the details for your country:

The full report is available at  
[www.plasticovershoot.earth](http://www.plasticovershoot.earth)



## Methodology

At EA Earth Action, our work on plastics focuses on shedding the light on the critical issue of plastic pollution. We achieve this by leveraging scientific research to quantify the magnitude of the problem, and by empowering individuals and organizations to find solutions. To this end, we place a high value on transparency regarding our methodology for measuring plastic pollution. We believe that clear and comprehensive information on our methodology is crucial to building trust with stakeholders.

The methodological guide explains the concept underpinning Plastic Overshoot Day: the Mismatched Waste Index, and how it is computed.

This methodological guide will also draw on concepts used in the narrative of Plastic Overshoot Day, such as the classifications of countries with regard to management of plastic waste.

The Mismatched Waste Index (MWI) is a metric used to quantify the amount of plastic waste that is not properly managed in a locally and therefore ends up in the environment.

Because many countries export their plastic waste, it is critical to account for the fate of the exported waste.



The full content of the methodology is available at [www.plasticovershoot.earth](http://www.plasticovershoot.earth)











# Plastic... is... everywhere

And its presence in our daily lives is becoming more and more visible – not just through pollution in our environment, but also in our bodies. As research on plastic advances, new studies reveal the far-reaching consequences of plastic pollution, including the presence of microplastics in human blood, lungs, and even placentas, and the health risks posed by plastic additives and chemical exposure. The impacts of plastic production, consumption, and disposal on climate, biodiversity, and human well-being are coming into sharper focus.

However, Plastic Overshoot Day focuses on one key issue: waste mismanagement. While plastic pollution is a multi-dimensional crisis, this report specifically examines how much plastic waste is being generated and whether existing waste management systems can properly handle it.

Every year, there is a point when the amount of plastic waste surpasses the world's ability to manage it effectively. **That day is Plastic Overshoot Day – and in 2025, it will fall on September 5th.**

It's time for action.

The findings underscore the urgency for systemic change. Governments, businesses, and individuals must work together to reduce plastic waste, improve waste management infrastructure, and transition towards circular solutions that prevent plastic from becoming pollution in the first place.

Plastic Overshoot Day is a warning signal. But it is also an opportunity to rethink how we produce, consume, and manage plastic, and to take action before the crisis worsens.

**[www.plasticovershoot.earth](http://www.plasticovershoot.earth)**

