

Recycled plastic



PLASTIC - Recycled & Virgin

- the journey to production

Virgin plastic



POINT
of substitution

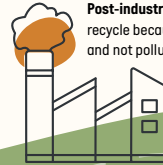
The point at which both materials have undergone the necessary processes and are ready to be used in a product

Recycled plastic



Transport

Transporting the used plastic to the factory handling the recycling process also adds to the climate emissions.



Post-industrial plastic is easier to recycle because it is homogenous and not polluted. It is unused.

Two types of recycled plastic

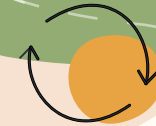


Post-consumer plastic needs to be collected and transported to a facility. Here it gets sorted and cleaned.



Benefits of recycling

By using post-consumer recycled plastic, you prevent it from being landfilled. You also avoid the consumption of fossil based materials.



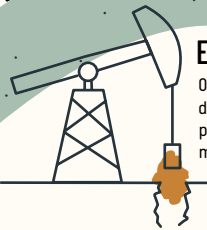
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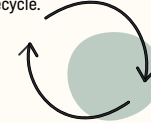
Extracting raw material

Oil is extracted from the ground. After undergoing different chemical processes, the plastic is ready for production. This requires many resources.



Benefits of virgin plastic

Virgin plastic is often of better quality than recycled plastic which means that it lasts longer and is easier to recycle.



Recycled plastic

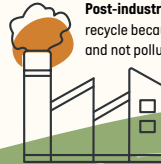


Transport

Transporting the used plastic to the factory handling the recycling process also adds to the climate emissions.

Returning to landfill

Some plastic will be too polluted to go into a component production. It ends up as waste and must be transported back to the landfill.



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Two types of recycled plastic



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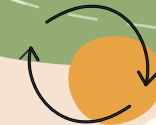
Energy consumption

The sorting and cleaning of post-consumer plastic include several steps because of the pollution and the many different types of plastic. Melting and remaking recycled plastic into new granules requires additional filtering. This process consumes more energy compared to melting and granulating virgin plastic.



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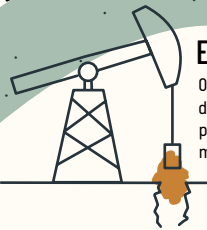
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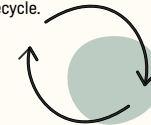


Production of virgin plastic

The mix of electricity sources that powers the factories is one of the **MOST IMPORTANT FACTORS** influencing the climate impact. Sources can be the local electricity network - which differ from place to place - and the factory's own sources like solar panels or windmills.

Benefits of virgin plastic

Virgin plastic is often of better quality than recycled plastic which means that it lasts longer and is easier to recycle.



Some kinds of virgin plastics have a very low climate impact, but they are often of lesser quality. This can result in a more demanding process when recycled (e.g., more energy consuming).