vestolit

orbia

Welcome to Future-Fit PVC

The best way to a full system solution for sustainable PVC

To create a future that’s fit for the next generation, we need a future-fit next generation of PVC. We’re the vinyl experts, applying our knowledge to open up more sustainable ways to make and use our resins. This is our journey to fully sustainable PVC.

The need for sustainable solutions is critical

The picture is clear; the way we use natural resources needs to change

Across the world, businesses and consumers alike are trying to adapt and turn the tide. The biggest challenge we collectively face is to find the smart, sustainable ideas that allow us to adapt the way we live, make and consume, without compromises.

Reducing carbon emissions and use of finite resources is urgent, only way to secure a future that's fit for future generations.

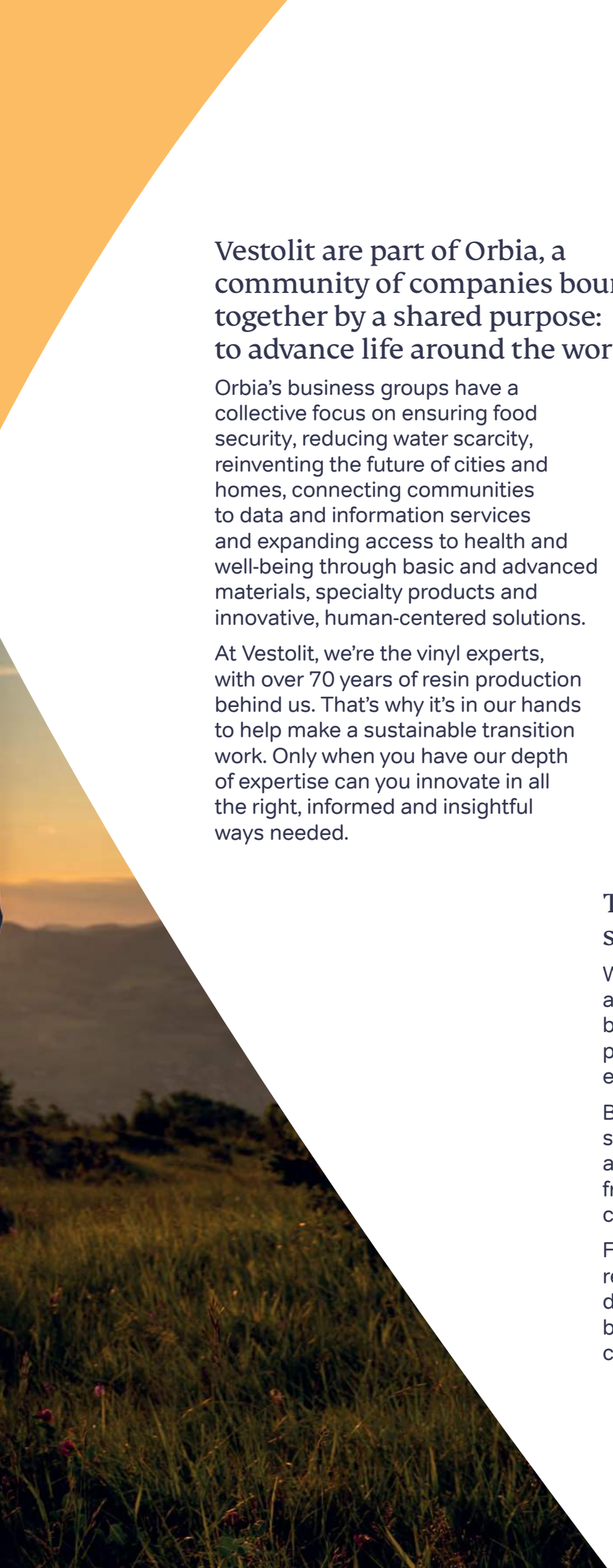
For many decades, we've enjoyed the benefits of PVC as a material

Brilliantly versatile, adaptable to a huge range of applications, it represents great value and reliability to many sectors.

As with so many materials we use and depend on today, new approaches are needed to create more sustainable versions. We believe that because of all its positive attributes, PVC can and should play a role in the transition to a more sustainable future.

Only when you have our depth of expertise can you innovate in all the right, informed and insightful ways needed.

Our expertise, applied to the future



Vestolit are part of Orbia, a community of companies bound together by a shared purpose: to advance life around the world

Orbia's business groups have a collective focus on ensuring food security, reducing water scarcity, reinventing the future of cities and homes, connecting communities to data and information services and expanding access to health and well-being through basic and advanced materials, specialty products and innovative, human-centered solutions.

At Vestolit, we're the vinyl experts, with over 70 years of resin production behind us. That's why it's in our hands to help make a sustainable transition work. Only when you have our depth of expertise can you innovate in all the right, informed and insightful ways needed.

The journey to a fully sustainable way has begun

We already offer high quality general and specialty resins derived from bio-based feedstocks from non-food production sources, reducing CO2 emissions by at least 50%.

But our vision is whole-system sustainability; premium PVC, using a full suite of non-fossil feedstocks, from bio-mass to recycled post-consumer waste to captured carbon.

From feedstock source to 100% renewable energy usage to sustainable derivates; ours is an end-to-end, big picture approach to reducing carbon emissions.

Our solutions

We have an evolving portfolio of sustainable PVC solutions, ever-more effective at reducing carbon emissions associated with the production of quality resins

Let our deep expertise find the right solution to help you make sustainable progress.

Principles of our product range:

Always highest quality

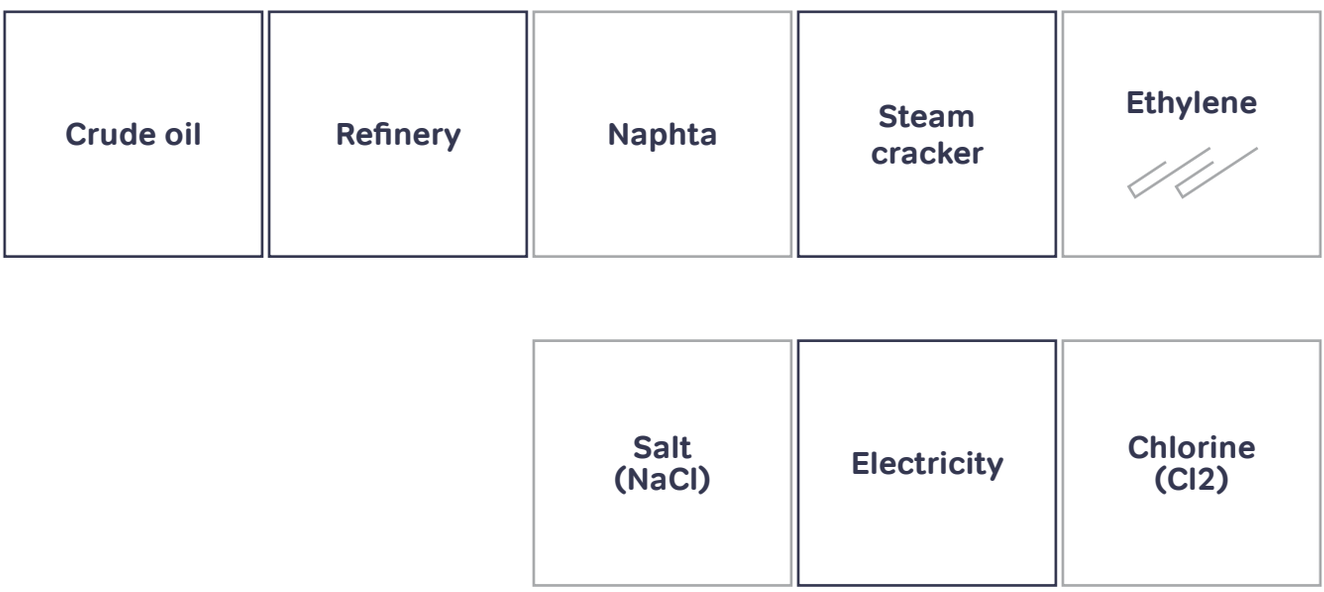
No technical or functional loss vs fossil-feedstocks

Drop-in products, built for today and tomorrow

Independently certified

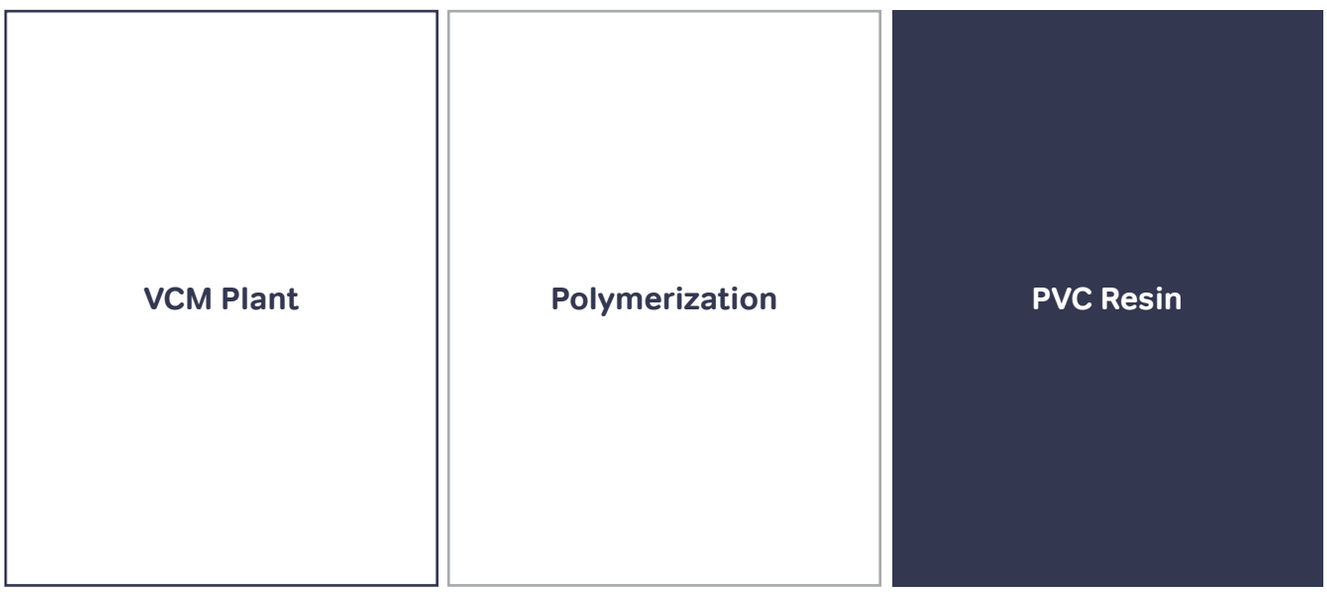
Can be adapted to your product needs

Inside the Process
From fossil-based PVC



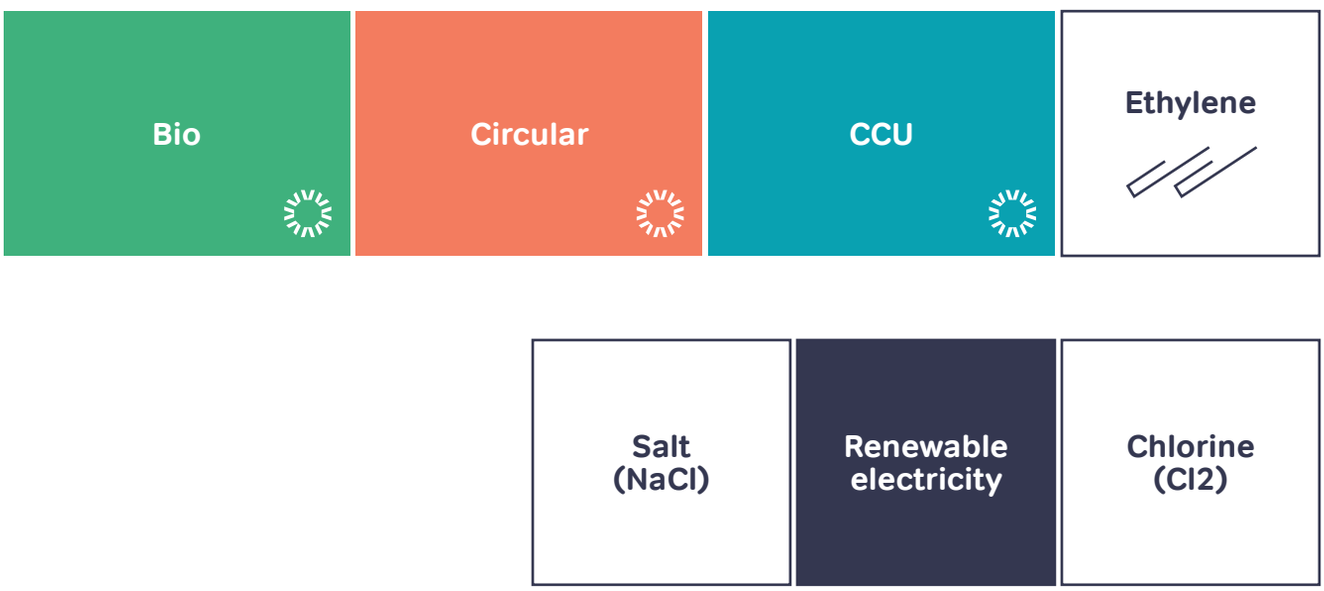
Using ethylene from fossil feedstock leads to a GWP of approximately 1.45.

Using chlorine from salt and electrical energy (2.5 – 3.5 MWh per ton of Chlorine; GWP per MWh: 0.08 – 0.77 in EU, Germany: 0,31)



The production of 1t PVC has the same effect on the global warming as the emission of 1.9 - 2.6t CO2.

Inside the Process
To Future-Fit PVC



Our approach to sourcing and using fossil-alternative feedstocks in our process creates no change in end-product quality but ensures that you reduce your carbon footprint, provable through LCA or EPC declarations.

FUTURE-FIT BIO

A core source for today, for scale.
Feedstock is oil extracted from plants or bio-mass, like rapeseed oil, or from the recycling of used bio-materials like used cooking oils.

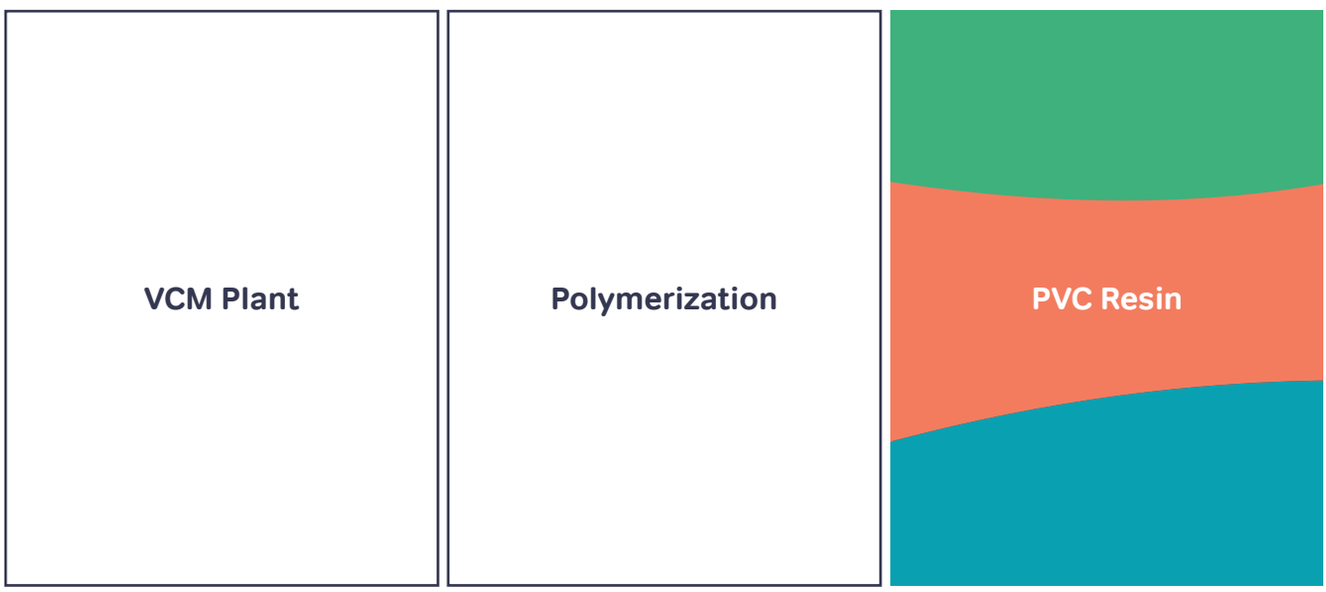
Bio-attributed PVC, produced using non-food production vegetable oils

100% renewable energy use

Mass balance production approach

ISCC+ certified

More than 60% lower carbon emissions vs fossil feedstocks



FUTURE-FIT CIRCULAR

A growing source, aligned to recycling growth. Feedstock is pyrolysis oil obtained through chemical recycling of waste plastics.

Circular PVC, produced using pyrolysis oil from recycling post-consumer waste

Chemically recycled waste saves materials from landfill or incineration

Mass balance production approach

ISCC+ certified

Moving PVC towards circular economy

FUTURE-FIT CCU

A future prospect, requiring scaled technologies. Feedstock is atmospheric carbon, captured and converted to ethanol, using technology currently in its infancy, but uniquely avoids need for steam cracker to generate ethanol.

PVC produced from carbon capture from industrial off-gas

100% renewable energy in the production process

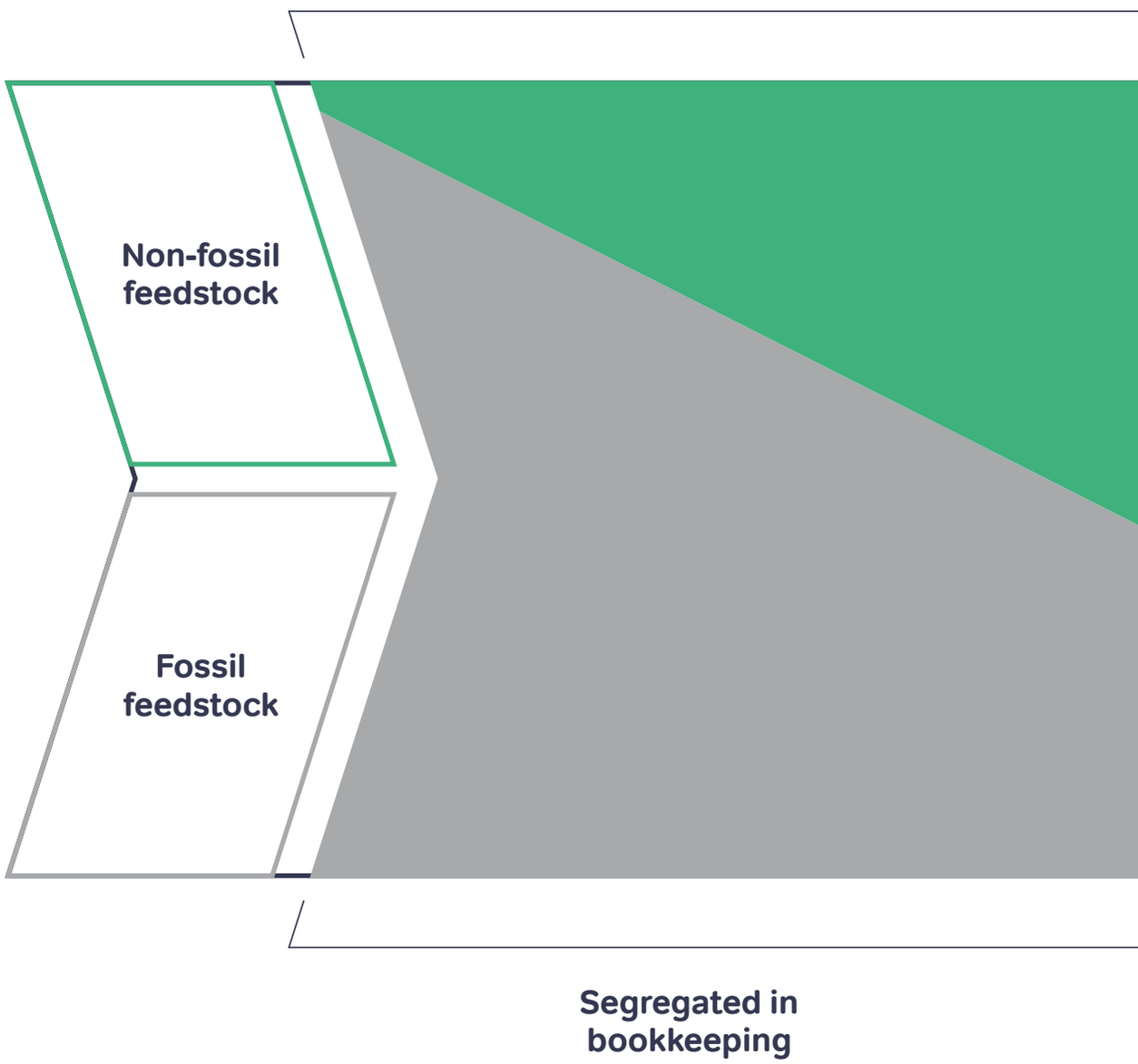
Mass balance production approach

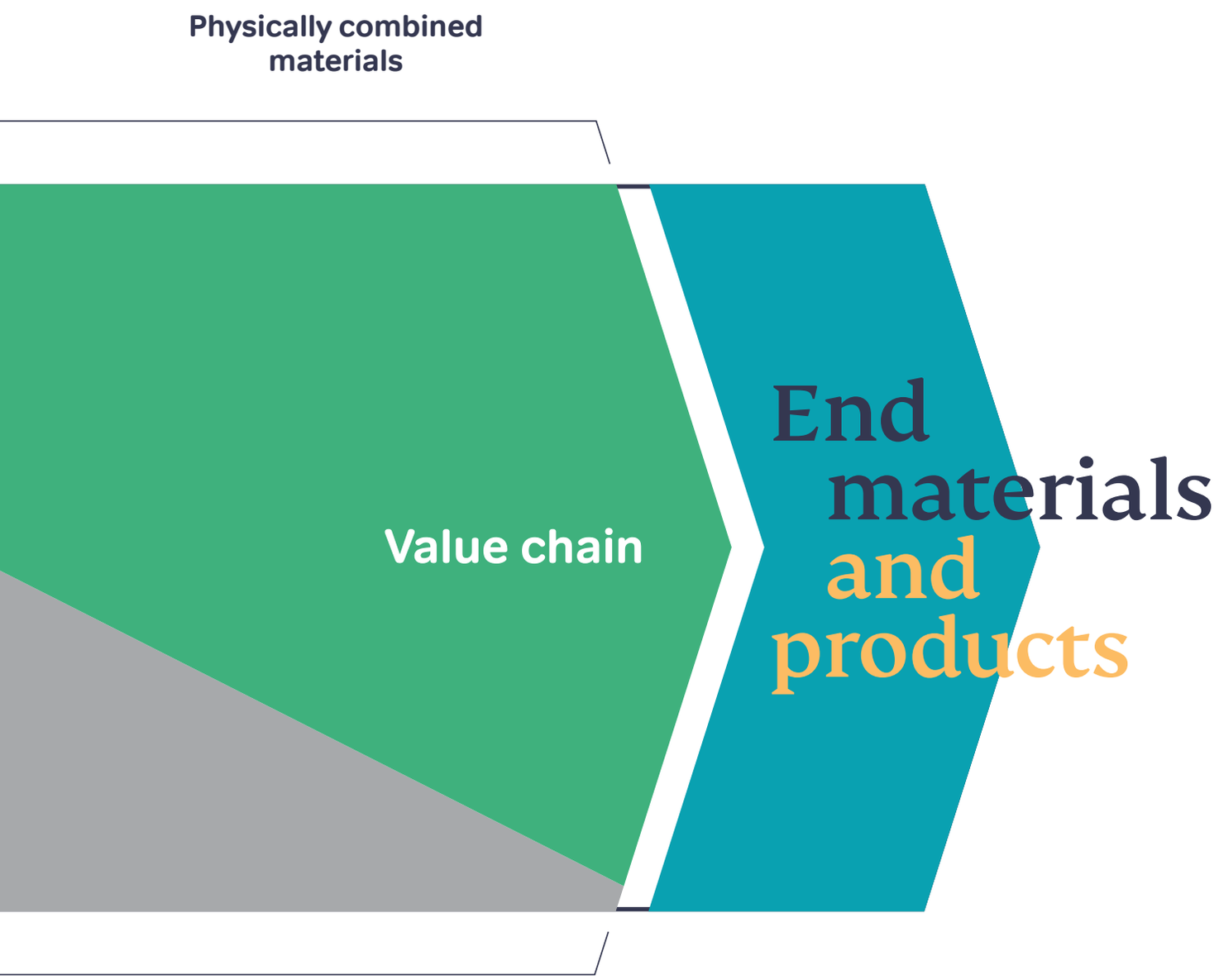
ISCC+ certified

Pathway to carbon neutral production, making PVC a part of the solution to fight carbon emissions by utilizing it as a carbon sink

Using Mass Balance

With this approach, no change is needed to operation or production; it involves the combined use of both fossil and non-fossil feedstocks in the supply chain, tracked and certified throughout the process, meaning final products can be independently certified by ISCC+ as having employed sustainable feedstocks.




Physically combined materials
Value chain
End materials and products

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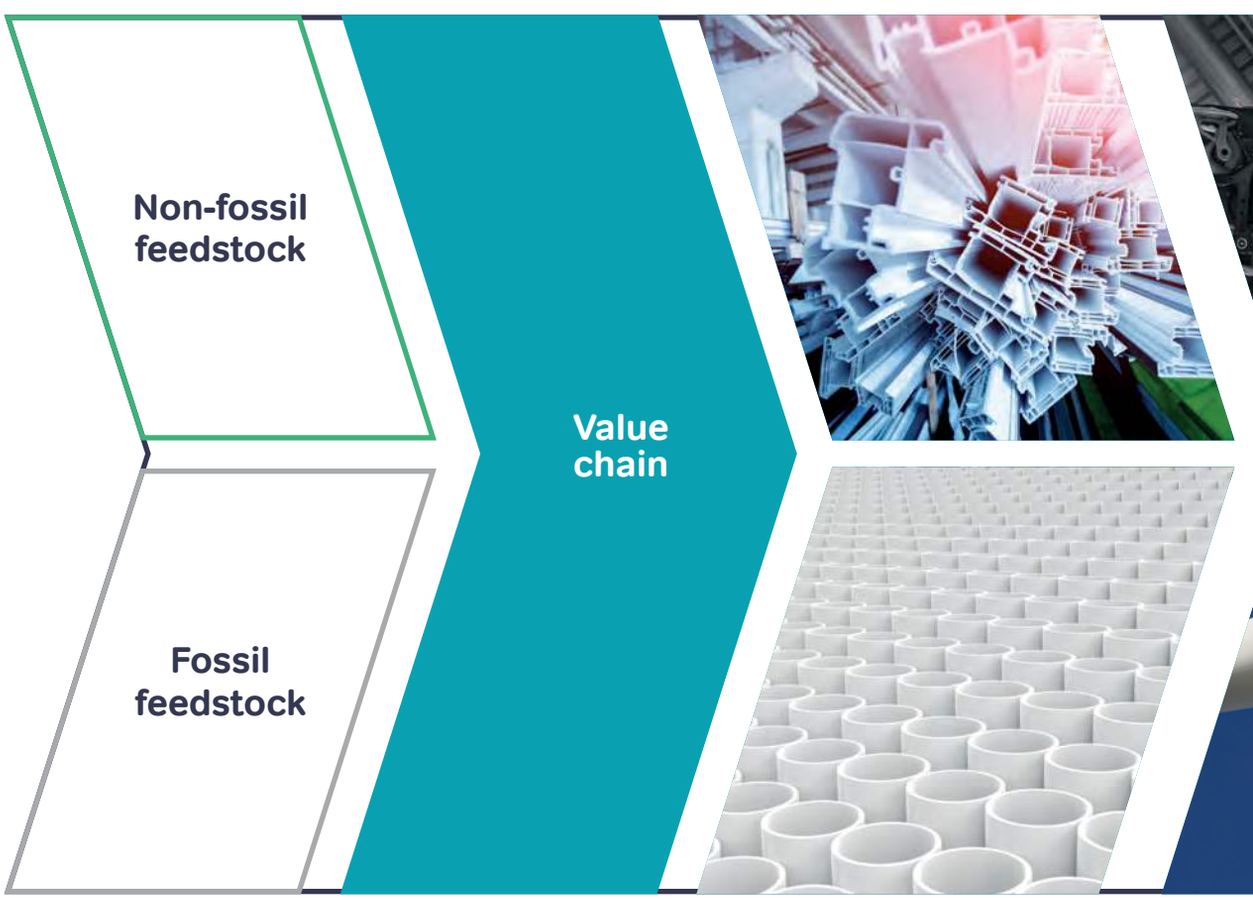
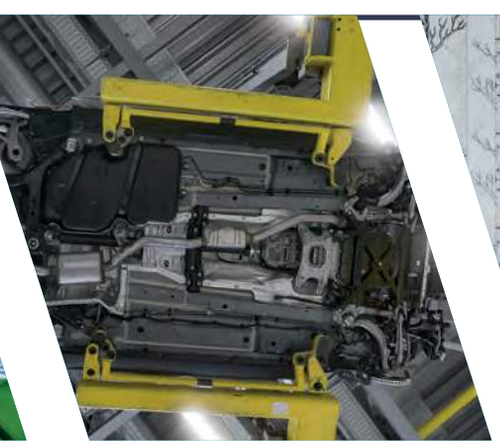


The outcome and intention of Mass Balance is to allow our customers and us to facilitate greater defossilization over time.

End materials and products



Coatings and Foams

Wallpaper and Flooring

Medical Devices and Films

Let's work together to make Future-Fit PVC work for you.

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Vestolit is an Orbia business and part of the Polymer Solutions Group.