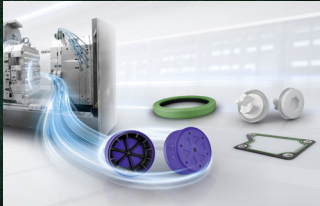


# Enhancing Sustainability Through Material Innovation & Design



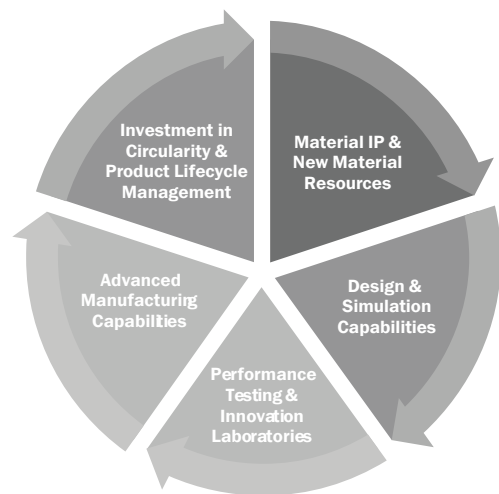
**Trelleborg Sealing Solutions creates customer value with high-performance polymer components that future-proof industry applications and equipment by optimizing operations and efficiency. We develop innovative material and design solutions that support our customers' journey towards reducing environmental impact and optimizing resource use.**

Designing for an enhanced sustainable performance is at the core of Trelleborg Sealing Solutions. By leveraging our expertise in materials, engineering, and applications, we create responsible polymer solutions compatible with various materials and developed to meet diverse sustainability requirements. Through future-proofed designs our polymer solutions can lower friction and improve durability to extend the application lifetime.

## Material and Design for More Sustainable Performance

We closely collaborate with customers to develop solutions that minimize waste and lower the amount of CO<sub>2</sub> in customer applications. We do this through:

- **Weight reduction:** Lighter products use less material and lower emissions from transportation.
- **Driving efficiency gains:** Innovative technologies improve operational and energy efficiency, e.g. by lowering friction.
- **Dematerialization & functional integration:** Single components with multiple functions cut production energy and material waste.
- **Optimized system designs:** The right seal in the right application can reduce the carbon footprint of a system.
- **Compatibility with media:** Materials are suitable with fossil-free and organic lubricants and process media.
- **Robust material performance:** High-performance polymer solutions with bio-based, recycled or PFAS-free materials.



We pair extensive in-house R&D capabilities with comprehensive support services to develop innovative products to meet our customers needs.

## Our Commitment to a More Sustainable Future

Trelleborg has set ambitious targets with the Science-Based Targets initiative (SBTi) to halve CO<sub>2</sub> emissions by 2030 in Scope 1 & 2, and to reduce CO<sub>2</sub> emissions by 25% in Scope 3. Trelleborg prioritizes the use of fossil-free electricity in its production processes to minimize environmental impact.



## ENHANCING SUSTAINABILITY THROUGH MATERIAL INNOVATION & DESIGN

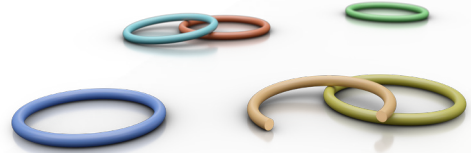
### Innovation Spotlight

#### FlexCoat™ NG

**Low Friction**



Pressure is mounting to reduce the use of PFAS, in particular flourosurfactants, due to health and environmental contamination concerns. FlexCoat™ NG is a PFAS-free surface technology, which lowers seal friction to increase durability and extend application life.



#### Engineered Performance Polymers

Impact resistant, high strength polymers can replace structural metal parts. With half the density of aluminum and a sixth of the density of steel, they can significantly reduce the weight of an application, lowering energy costs in dynamic applications.

**Lighter**



#### Multicomponent Technology

**Functional Integration**



Through clever design and advanced bonding technologies, two or more components are combined into one to create unique geometries that incorporate multiple features and functions. This can improve performance, minimize leakage, facilitate assembly and reduce part handling.



#### H<sub>2</sub>Pro™ Hydrogen Solutions

By effectively sealing hydrogen, advanced H<sub>2</sub>Pro™ materials facilitate the transition to sustainable energy. This range of validated, reliable solutions engineered for use across the hydrogen value chain, from production to storage and transport to end use.

**Renewable Media**



### Contact your Customer Solution Center

Do you need future-proven solutions for your equipment? Reach out to your local Trelleborg Sealing Solutions Customer Solution Center for support with material and product selection to meet your specific requirements.



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