

Covestro: Your Go-to Partner in Achieving Sustainability Goals and High Performance



I. Meeting Telecommunications Industry Megatrends

In recent years, environmental problems have become increasingly serious due to the excessive pursuit of rapid economic and industrial development. Hence, climate action will be more and more important as a strong force for global change, which is also the long-term goal of the telecommunications industry.

The mobile industry, as a subset of the telecommunications industry, has a unique role to play in tackling the issues caused by climate change, and so far, has demonstrated exceptional leadership:



Examples for "Net Zero" sustainability goals on the value chain:

- Deutsche Telekom: Net Zero from production to customer by 2040.
- Ericsson: Net Zero emissions across the value chain by 2040.
- Verizon: Net Zero in scope 1 & 2 and 40% reduction in scope 3 by 2035.

II. Challenges to achieve "Industry Net Zero"

The GHG (greenhouse gas) Protocol is one of the most used standards and defines three "scopes" for GHG corporate accounting and reporting purposes.



Most of GHG emissions in the mobile sector lie upstream in the industry's supply chain (Scope 3);

Meanwhile,	
it remains to be solved for the industry to fulfill	
the challenging environmental objectives without	
compromising on performance.	

III. Our Ambitious Climate Target and Diversified Sustainable Solutions

Contribute to telecom operators and network equipment suppliers' target for Scope 3

Bold target from Covestro to achieve climate neutrality:

5.6 m	-60%	metric tons* -100%
metric tons*	Reduction to 2.2 m r	Climate neutral**
Base year 2020	Milestone	e 2030 Milestone 203

*: Million metric tons of greenhouse gas emissions compromise Scope 1 and Scope 2. Greenhouse gas emissions from Scope 3 are further reduced. **: Climate neutrality in Scope 1 and Scope 2; Scope 3 emissions reduction target will be announced in 2023.

Support industry's climate objectives with more sustainable and high performance solutions

	Mechanical Recycling	Renewable Attributed	Circular Design Guidance
Covestro			
Solutions	PCR* and PIR* Polycarbonates: derived from mechanical recycling, traceable sources and reliable recycling technologies. (*PCR: Post-Consumer Recycled; PIR: Post-Industrial Recycled)	biological waste and residues to providing options for more	Electronics & Electrical industry, providing options for more sustainable material selection and driving co-creation in
Value	 Carbon footprint reduction (up to 50%) Give plastic waste a new life while addressing the issue of waste Good properties comparable to virgin materials 	 Significant carbon footprint reduction(soon up to 100%) Preserve fossil fuels as valuable resources High quality drop-in solution, identical properties as primary fossil materials Hybrid solution available (PCR+RE) address both climate and waste issue 	 Circular design strategies to support repairability and recyclability of devices Material selection as the first step to circular design Promote an extended lifecycle perspective to reduce the environmental impact of products

IV. Case Study: Covestro Makrolon[®] RE solution supports Deutsche Telekom's #GreenMagenta products

Deutsche Telekom developed its climate and environmental protection program called #GreenMagenta, a group-wide initiative to encourage more resource-efficient and climate-friendly changes in the core business. Through the Program and #Green-Magenta labels, Deutsche Telekom is demonstrating its firm commitment to achieve their climate targets.

Based on common sustainability goals, Deutsche Telekom teamed up with Covestro, to develop the next generation fixed line device which utilizes Makrolon[®] RE materials. This fixed line

device has been awarded with the #GreenMagenta label, to highlight the value of its contribution to sustainability.

As a renewable attributed bio-circular material, Makrolon® RE provides a high-quality drop-in solution, to reduce the use of fossil resources and achieve a lower carbon footprint, without compromising on mechanical & functional performance.

Source: https://www.telekom.com/en/media/media-information/archive/deutsche-telekom-tightens-its-climate-targets-623582 Verizon 2021 ESG Report

https://www.ericsson.com/en/about-us/sustainability-and-corporate-responsibility/environment GSMA Report Mobile Net Zero & State of the Industry on Climate Action 2021

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"We aim to shift all our production processes and products completely to circular principles in the long-term, and we intend to support meeting our and customers' climate objectives at the same time."

Lynette Chung Chief Sustainability Officer at Covestro

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