

Together, we can control the future environmental impact of communications networks.

It's in our hands.



Responsible
manufacturing

 **dura·line**

Product
Circularity

Carbon
footprint

orbia 

Connectivity
Solutions

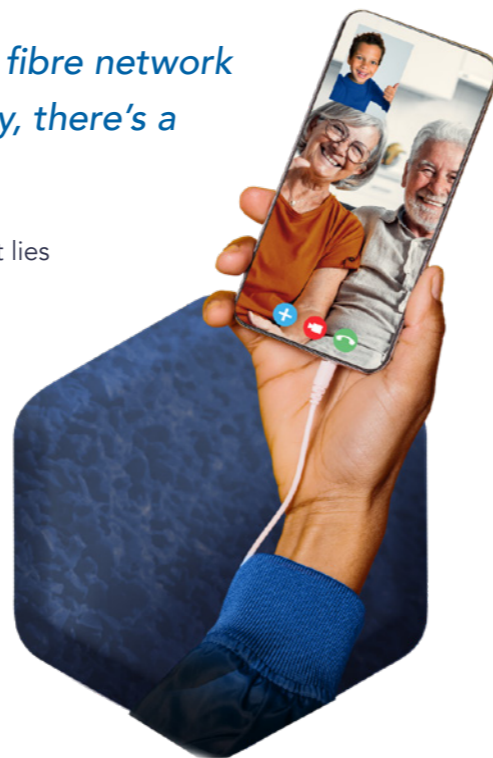


Empowering Sustainability in Telecom Through Ambitious Goals

Previously, the two main success factors for a fibre network build were cost and time-to-market. But today, there's a third non-negotiable: sustainability.

Typically more than 70% of a telecom operator's carbon footprint lies in the value chain (Scope 3 emissions), and because such a large amount of these emissions are outside their direct control, the industry must come together collaboratively to make meaningful reductions.*

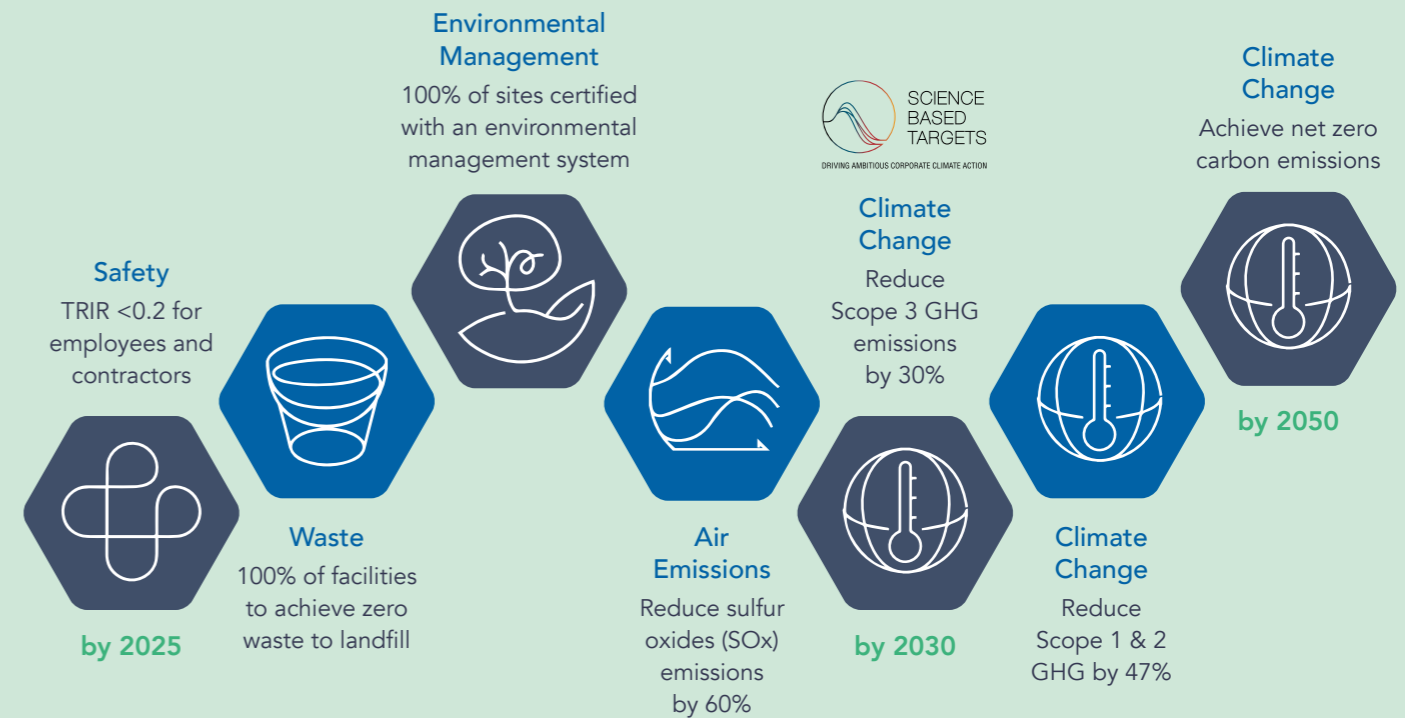
Dura-Line is part of Orbia, a company driven by a shared purpose: to advance life around the world. Orbia is committed to limiting its contribution to the worst impacts of climate change in accordance with the Paris Agreement. To accomplish this, Orbia has adopted a set of science-based targets.



* Source: Achieving Net Zero in the Telecoms Industry: Tackling Supply Chain Emissions

Orbia's Sustainability Goals for Advancing Life Around the World

Our pathway¹ is backed by science-based commitments



ESG Ratings and Rankings performance:



Member of key ESG Indices:



for details, visit: sustainability.orbia.com

1. Baseline year is 2019, except for Air Emissions for which a 2018 baseline applies.

For Dura-Line, Orbia's sustainability values manifest in three key areas:

1 Product Circularity

2 Responsible Manufacturing

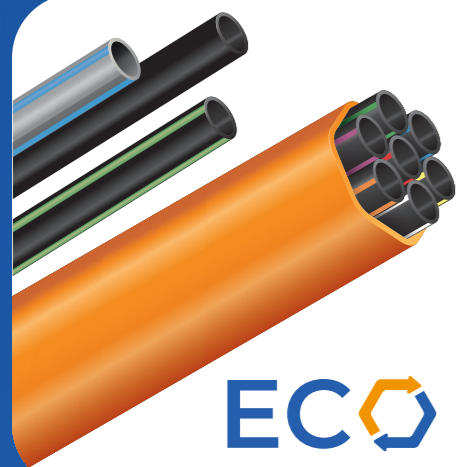
3 Carbon Footprint

In Europe, we've brought a sustainability focus to every level of our business, from our daily operations, to our products, and our role in shaping industry-wide climate standards and goals throughout the region.

Product Circularity

Our vision is to continue to manufacture products that last while reducing the impact on the environment of their installation and disposal. We've collaborated with our customers to develop products that meet their needs and achieve our shared sustainability goals.

We released MicroDucts and FuturePath® ECO, which use up to 100% internal reworked HDPE, and deliver a significant reduction in emissions over regular MicroDuct products, backed by a life cycle assessment (LCA). MicroDucts ECO are bundled to create FuturePath ECO with protective jackets and identification stripes that may use regular or reground materials. All standard MicroDuct sizes and bundle combinations are available, and all products meet stipulated technical parameters for regular MicroDuct products, such as bursting pressure, elongation at break, and change after heat treatment.



MicroDucts and FuturePath® ECO Life Cycle Assessment

Whenever possible, we aim to collaborate with our customers to reach their Scope 3 emissions reduction targets. A comprehensive, third-party administered life cycle assessment (LCA) of the MicroDucts and FuturePath® ECO product range demonstrated a significant reduction in carbon emissions versus regular conduit. This LCA is available upon request.

Key sustainability benefits:

- › **Up to 100% reground** Dura-Line scrap HDPE
- › **Sustainable:** contributes to lower Scope 3 emissions for network operators
- › **Resource-efficient:** supports Dura-Line's "Zero Waste to Landfill" goal and represents our commitment to Goal 12: Responsible Consumption and Production of the United Nations' Sustainable Development Goals
- › **Life Cycle Assessment available** to demonstrate reductions

Key technical benefits:

- › **Up to spec:** meets stipulated industry parameters for regular products
- › **Proven performance:** comparable spiralling prevention and jetting performance to our equivalent regular products in key field tests
- › **Backwards-compatible:** can be installed in existing networks in combination with regular MicroDuct products
- › **Proven process:** Dura-Line has manufactured products from reground scrap for more than 15 years

KPN Reference Case

Dura-Line's customer KPN, a leading network operator in The Netherlands, was impressed by the quality of MicroDucts and FuturePath® ECO and agreed that it aligns with their sustainability goals. Thanks to close collaboration between Dura-Line, customer, and installer, MicroDucts and FuturePath® ECO were swiftly approved for installation in KPN's nationwide network, with the first successful deployment taking place in The Netherlands in 2023.



Responsible Manufacturing



To reduce our value chain emissions and those of our customers, we've partnered with other businesses and organisations to implement responsible manufacturing practices as early in the production process as possible. Broadly speaking, we aim to:

- 1 *Maximise the resources we use*
- 2 *Reuse what can be reused*
- 3 *Recycle everything that can be recycled*

Here are some of the ways we're accomplishing this:



100% of European plants
EMS certified to ISO 14001.



100% of European sites
converted to Closed-Loop Water Systems, which segregates wastewater used in our plants for reuse and to protect drinking water and local ecosystems.



100% of European plants
have reached Zero-Waste-To-Landfill.

- › Our **drum return program** incentivise our customers to return empty drums for reuse. In the first half of 2023 over 2,016 drums have been returned and reused, and the number of participating customers grows daily.
- › Regular **energy efficiency upgrades** resulting in 850+ kWh in daily electricity savings – enough to power a mid-sized electric vehicle for over 4,000 kilometres.
- › Regular **third-party audits and monitoring** of our energy use and carbon emissions.



Carbon Footprint

We've set ambitious carbon reduction goals, and we remain committed to accomplishing them. If the EU is to achieve carbon neutrality by 2050, industries like ours must find ways of working together towards common goals.

For this reason, Dura-Line is actively participating in strategic sustainability policy efforts, such as European-level environmental working groups on topics like post-consumer recycled materials (PCRs), environmental product declarations (EPDs), and life-cycle assessments (LCAs).

We are proud that the Science Based Targets Initiative (SBTi) validated Orbia's near-term targets to reduce Scope 1 and 2 greenhouse gas (GHG) emissions 47% by 2030 from use-of and end-of-life treatment of sold products by 30% within the same timeframe.

We continually work towards science-based targets to further reduce our carbon footprint and foster sustainability in the telecom industry and beyond.

Globally, Dura-Line has reduced approximately a quarter of CO2 emissions since 2019. This amounts to an estimated 17,000 metric tons of CO2 or the equivalent to 284,400 tree seedlings grown for 10 years.

High Density Polyethylene (HDPE) Sustainability Credentials

As a global leader in HDPE manufacturing, we're also proud that the material we use remains comparably one of the most sustainable choices for communications conduit. In contrast to other conduit materials, this versatile polymer brings several sustainability credentials:

- › *Non-leaching with expected useful operational lifetime of 25 years, but often remains in place for up to 50 years.*
- › *Flexible, non-rusting material minimises leaks that are common in corroded steel pathways.*
- › *HDPE resin and pipe have a superior resistance to failure, corrosion, tuberculation, deposits, and rapid crack propagation (RCP).*

Modern manufacturing methods allow for thousands of metres of continuous HDPE conduit extrusion, which results in fewer joints than PVC or metal for more-efficient installations. Moreover, HDPE conduit can be joined with mechanical couplers, rather than the toxic adhesives required to couple conduit of other materials. Additionally, when used to manufacture MicroDucts, HDPE brings additional scalability, efficiency, and future-proofing to your network

Orbia's Connectivity Solutions business, Dura-Line, produces more than 500 million metres of essential and innovative infrastructure per year to bring a world's worth of information everywhere. The business group produces telecommunications conduit, cable-in-conduit and other HDPE products and solutions that create physical pathways for fiber and other network technologies connecting cities, homes and people.

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Solutions business.