



ENVIRONMENTAL CREDENTIALS

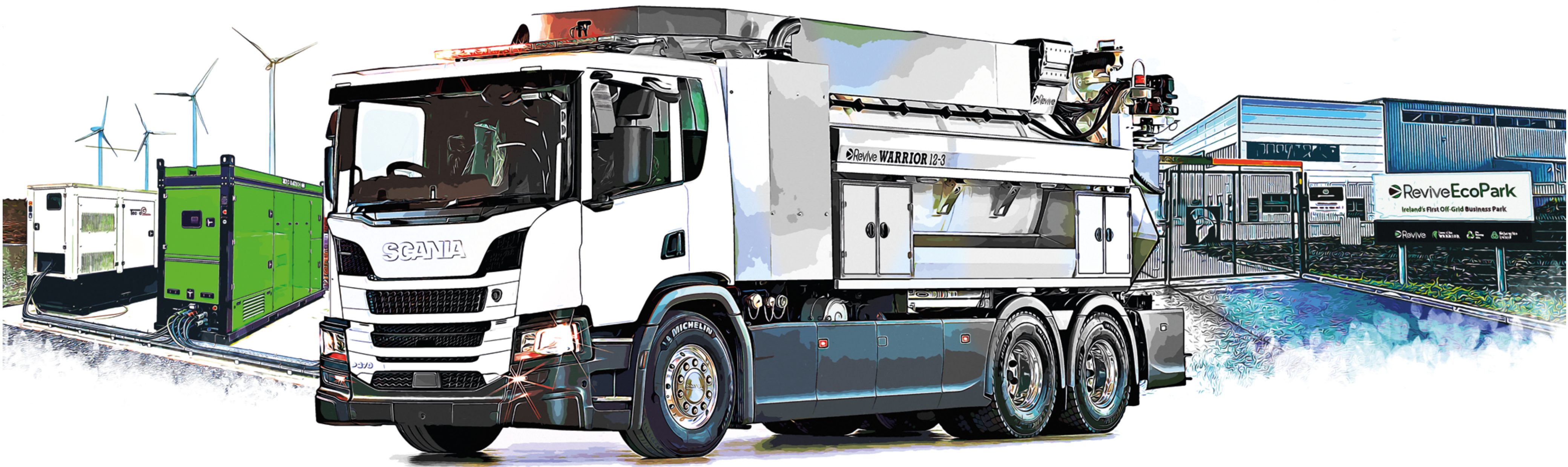
IN SUPPORT OF ESG, CSRD REPORTING & PUBLIC TENDERING



IRELAND • UK • NEW ZEALAND • NORDIC • FRANCE



PARTNERS IN SUSTAINABILITY



“

TAKE THE BEST THAT EXISTS
AND MAKE IT BETTER.

HENRY ROYCE



THE REVIVE STORY

Partners in Sustainability

Revive is an Irish manufacturing company that builds and refurbishes high-performance sewer cleaning trucks. Founded in 2020 and headquartered in Tipperary, Ireland, we act as strategic partners to global operators by providing a whole-of-life approach to their environmental service equipment. We are committed to disrupting the traditional cycle of "buy-use-dispose" through engineering designed specifically for the circular economy.

The Revive Principles

Revive delivers a significantly lower lifetime carbon footprint for every asset. This approach benefits both the environment through reduced emissions and the operator's bottom line. Our model revolves around three core principles:

Production: Lowering emissions through our industry-leading "off-grid" manufacturing site.

Operation: Reducing fuel and water consumption via the efficiently designed Revive Live Operating System.

Asset Lifecycle: Refurbishing and reusing major elements to enable up to four operational life cycles per sewer cleaning unit.

At the Revive Group, we create **Partners in Sustainability**, not just customers.





DRIVING SUSTAINABLE IMPACT

Supporting Your Path to Sustainable Operations

The purpose of this document is to help Revive's partners and clients meet key environmental, social, and governance (ESG) and Corporate Sustainability Reporting Directive (CSRD) criteria, while maximising your potential in public procurement tenders.

Through the integration of Revive's products in their supply-chain our customers can contribute up to 10-25% of award points in tenders where sustainability scoring is pivotal.

Revive's offerings not only support decarbonisation across multiple reporting scopes but particularly enhance Scope 3 efforts—covering emissions tied to your organisation's value chain. By using Revive Program and Revive Warrior units, you can significantly improve your sustainability metrics and meet ambitious decarbonisation goals.

Scope 3 Overview

Scope 3 emissions are indirect emissions stemming from activities across your value chain, including sourcing, transport, and product usage. Reducing Scope 3 emissions is challenging but essential for meeting comprehensive sustainability standards.

How Revive Supports Your Sustainability Goals

The **Revive Program** ensures sustainable practices by:

- **Extending product lifespans** through reconditioning, reducing demand for virgin steel and new manufacturing.
- **Cutting carbon emissions** by minimising waste and optimising resource usage in production.
- **Enhancing circular economy** practices by refurbishing equipment that would otherwise be disposed of.

Our **Revive Warrior** units provide robust environmental benefits, including the following:

- **30+ year lifespan** with minimal maintenance, lowering replacement rates and resource consumption.
- **Reduced operational emissions** through optimised fuel efficiency and adaptable fuel options.
- **Direct contribution to Scope 3 reductions** by allowing your operations to sustainably manage water and sewer systems.

REVIVE WARRIOR

Designed to Lead. Built to Last

The Revive Warrior stands proudly as the Group's first newly manufactured unit. Designed with a strong focus on durability and uncompromising quality, this unit is all about standing the test of time.

In an era where cutting costs often takes the lead, this unit goes against the grain, placing long-lasting excellence ahead of short-term savings.

 **Revive**
WARRIOR





REVIVE REFURBISHMENT PROGRAM

The Revive Refurbishment Program is a comprehensive overhaul of existing sewer cleaning trucks, designed to maximise their lifespan and provide both environmental and financial benefits to our partners.

The program minimises waste within the water and wastewater industry, with each unit having the potential to save significant amounts of CO₂ through a reduced demand for virgin steel.

Remounted onto a new chassis, all Revive units undergo an extensive refurbishment to enhance reliability and performance. This process includes a thorough inspection and assessment, detailed tank refurbishment and painting, followed by upgrades to cabinets, trays, vacuum, jetting, electronics, and hydraulic systems.



**ON AVERAGE 1.9 TONNES OF CO₂ ARE EMITTED
FOR EVERY TONNE OF VIRGIN STEEL PRODUCED*.**



Find out more: worldsteel.org

COMPACT RECYCLING PISTON

Key Features and Benefits of Revive's Compact Recycling Piston

Revive's patented Compact Recycling Piston improves sewer cleaning efficiency by creating a closed-loop system that recovers and reuses wastewater. This technology reduces the need for fresh water, making sewer cleaning more sustainable.

Improved Water Quality: The absence of a mechanical scraper prevents fat from spreading on the screen, improving fat elimination and enhancing the purity of the recycled water while reducing screen maintenance.

Compact and Efficient Design: The compressed air tank is integrated within the vertical cylindrical wedge wire screen, creating a space-efficient layout.

Enhanced Reliability: The elimination of moving mechanical components in the system reduces maintenance requirements and mitigates failure modes related to wear, friction, and mechanical degradation, thereby improving overall system reliability and uptime.

Design Flexibility: The system can be integrated into new or existing combination units with a 1.8m diameter.

Promotes Sustainable Water Management: This technology recycles water, significantly reducing reliance on municipal clean water sources and cutting operational costs.

Water Conservation Potential: If just 10 of these units were deployed daily, they could save over 240,000 litres of clean water every hour, or nearly 2 million litres per day.

Cuts Carbon Emissions: The recycling system directly reduced over consumption while lowering the need for water-hauling trips, which reduces carbon emissions and aligns with environmental sustainability goals.



Revive: Patent Protected Technology

COMPACT RECYCLING PISTON

Green Solutions from Grey-Water

The Revive Compact Recycling Piston is an innovative system designed to revolutionise the wastewater industry. This patent pending design can be easily retrofitted to existing units, making it a potential game-changer with global applications.

By maximising the use of grey-water (recycled wastewater) instead of relying on clean water, the Revive Compact Recycling Piston greatly boosts sustainability efforts. Breathing new life into existing units while helping the environment, a win-win solution for our partners.



Revive: Patent Protected Technology



REVIVE LIVE - THE DATA PRODUCT

Revive Live is Revive's proprietary 'Operating System' that tracks key data for both the sewer cleaning unit and the surrounding infrastructure. This information can be used to improve planning and assist with pre-emptive maintenance.

The Data Product

- Development of global database to support live data tracking, predictive maintenance and efficiency of usage for both the drain cleaning unit and the local sewer infrastructure.
- Data can be utilised by local authorities to predict flood spots and highlight potential risks.
- This system has the potential to further reduce carbon footprint of a fleet through route optimisation.
- Historic usage records - tracking location and equipment.
- Diagnostic reports to improve efficiency and aid operators.
- Connected device for automated data retrieval.
- Cloud based data storage for easy monitoring and analysis.
- Standardised procedures for ease of comparison of data.
- Data permission built into operator interface.

The monetisation and value of our data product offers a significant commercial opportunity as our fleet and global footprint expands.



CARBON EMISSIONS

Reducing the Overall Carbon Footprint

The Revive Warrior is a sewer cleaning truck that offers significant environmental and operational advantages over standard trucks. Its carbon evaluation shows notable savings over both short and long-term life-cycles.

- Over a 10-year lifespan, the Revive Warrior produces a total of 1,125 tonnes of CO₂ equivalent (tCO₂e) in emissions, compared to a standard truck's 1,247 tCO₂e, representing a 9.8% reduction.
- Over a 40-year lifespan, the Revive Warrior has total emissions of 4,446 (tCO₂e), a 10.8% reduction from a standard truck's 4,985 (tCO₂e).
- The most significant carbon savings come from the use of the sold products, primarily through reduced diesel and water usage through an innovative operating platform.
- All Revive units are capable of running on Hydrotreated Vegetable Oil (HVO), which saves a significant amount of carbon compared to diesel.

Figures taken from an independent carbon evaluation conducted on behalf of Revive by Rowan Engineering Consultants Limited (www.rec.ie).



CIRCULAR ECONOMY

Reuse for a Sustainable Long-Term Solution

The Revive Warrior is designed with a circular economy model, which focuses on less raw material, less waste, and fewer emissions. This approach leads to substantial long-term reductions in carbon emissions.

- Approximately 54% of the vehicle's component parts by weight can be reused.
- This approach leads to substantial long-term reductions in carbon emissions associated with raw materials and end-of-life treatment.
- Over a 40-year period, the Revive Warrior shows a 43.8% reduction in emissions from purchased goods and services (raw materials) compared to a standard truck.
- The end-of-life treatment of the Revive Warrior results in a 52.1% reduction in carbon emissions over the same 40-year period.
- This reuse of materials also helps save a significant amount of steel, with an estimated 20 tonnes saved and reused over 40 years for just the steel tank.

Figures taken from an independent carbon evaluation conducted on behalf of Revive by Rowan Engineering Consultants Limited (www.rec.ie).



ENVIRONMENTAL BENEFITS

Beyond Carbon: Safety, Efficiency & Community

In addition to carbon reduction, the Revive Warrior provides a range of other environmental, safety, and operational benefits. These features improve efficiency and reduce the overall impact of the vehicle.

- The Revive Warrior's water recycling system delivers multiple benefits. It saves fresh water, which is particularly valuable in water-stressed areas or places with hosepipe bans.
- Water recycling also reduces truck movements, leading to less diesel consumption, lower Scope 1 emissions, and less air pollution, especially in urban areas.
- The Compact Recycling Piston can save nearly 2 million litres of clean water per day if just 10 units are deployed daily, significantly reducing a city's reliance on municipal water sources and improving long-term resilience of urban infrastructure.
- Revive's innovative PTO system improves diesel efficiency, which contributes to Scope 1 reductions for clients. These efficiencies can also help clients offset the increased cost of biofuels and carbon taxes.
- From a safety standpoint, The Revive Warrior has features that improve operator safety and overall employee welfare. It is also quieter, which is better for both employees and the local community.

Figures taken from an independent carbon evaluation conducted on behalf of Revive by Rowan Engineering Consultants Limited (www.rec.ie).





KEY ENVIRONMENTAL INSIGHTS

Key Environmental Takeaways from the Revive Refurbishment Program

The Revive Refurbishment Program offers a clear and measurable path to reducing carbon emissions and promoting a circular economy within the water and wastewater industry. Its innovative approach provides significant environmental, financial, and operational benefits for our partners.

Significant Carbon Reduction

The Revive Warrior achieves a 9.8% reduction in total carbon emissions over a 10-year lifespan and a 10.8% reduction over a 40-year lifespan when compared to a standard truck.

Circular Economy Model

By reusing approximately 54% of a vehicle's component parts by weight, the program dramatically reduces the need for new raw materials and minimises end-of-life waste.

Long-Term Savings

Over a 40-year period, the program results in a 43.8% reduction in emissions from raw materials and a 52.1% reduction for end-of-life treatment.

Operational Efficiency

The greatest carbon savings come from the "use of sold products" category, which is driven by reduced diesel and water usage from the innovative operating platform.

Added Benefits

The Revive Warrior's water recycling system reduces truck movements and air pollution. The refurbishment process also improves operator safety and creates quieter vehicles, which is better for both employees and the local community.

Comprehensive Refurbishment

The program provides a comprehensive overhaul of donor units, including a thorough inspection, detailed tank refurbishment, and upgrades to all major systems, ensuring reliability and performance often surpass OEM specifications.



REAL WORLD CO₂e COMPARISONS

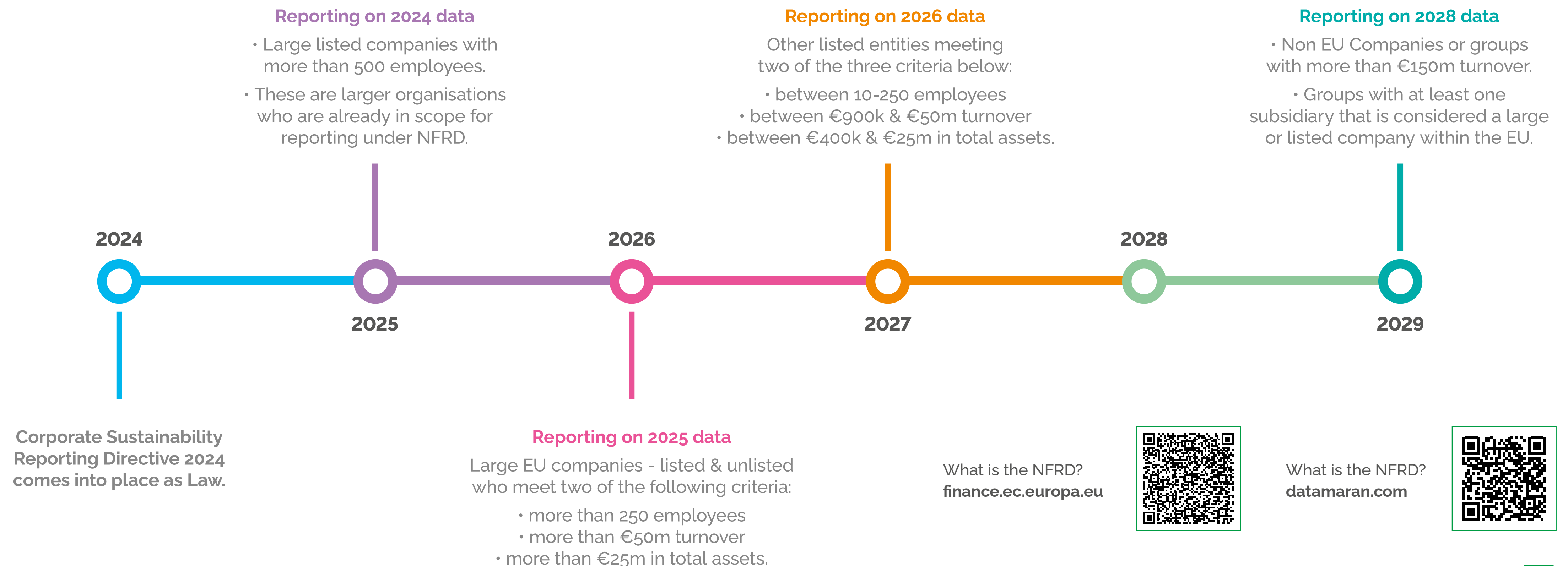
“For every Warrior we produce the savings are ‘539 tonnes’, but what does that actually mean?”
- Liam Kearney, Revive Group CEO.

Activity	Equivalent to ≈539 tonnes of CO ₂ e	Calculation Basis (per 1 tonne CO ₂)
Flights (Return Trip)	The equivalent of 1,918 single passenger, return flights from Dublin to London Heathrow.	≈0.3 tonnes CO ₂ e per DUB to LHR return flight (economy class).
Driving a Car	Driving ≈3.23 million kilometers in a gasoline vehicle.	≈6,000 km in a diesel car or 5,000 miles in a gasoline car per tonne CO ₂ .
Heating a Home (Gas)	The annual heating and hot water emissions of ≈245 average UK homes .	≈2.2 tonnes CO ₂ e per average UK household gas boiler per year.
Individual Carbon Footprint	The annual carbon footprint of ≈65 average global citizens .	≈8.3 tonnes CO ₂ per capita (Germany average) to ≈4 tonnes (Global average) per year.
Diesel Fuel	The combustion of ≈214,522 litres of diesel .	≈398 litres of diesel per tonne CO ₂ .



CSRD REPORTING

EU legislation, driving a circular economy, addresses critical water and pollution challenges while unlocking the potential of carbon and climate benefits.





CSRD REPORTING (2026 REVISION)

EU legislation, driving a circular economy, addresses critical intent and Stop-the-Clock updates. These measures ensure that sustainability reporting remains a priority while providing businesses with the necessary time to adapt to new standards.

Wave	Company Type	Criteria	Original Reporting	Updated Reporting	Key Notes
Wave 1	Large PIEs	>500 employees, listed/credit/insurance	2025 (for 2024)	2025 (for 2024)	No delay; immediate compliance required
Wave 2	Other Large Undertakings	≥2 of: >250 employees, €50M turnover, €25M assets	2026 (for 2025)	2028 (for 2027)	Two year delay; use time to prepare systems
Wave 3	Listed SMEs, Small Institutions	Listed SMEs, small credit /insurance entities	2027 (for 2026)	2029 (for 2028)	Two year delay; simplified ESRS applies
Wave 4	NonEU Undertakings	€150M EU turnover + EU subsidiary / branch	2029 (for 2028)	2029 (for 2028)	No delay; group level reporting required

TAILWINDS

Carbon Credits

Going forward, as we integrate the Revive Warrior Program, our clients will gain new opportunities to enhance sustainability and financial efficiency, including:

- Carbon savings through the reuse of tanks and key components with each cycle of the Revive Program—projected to reduce up to 25 tonnes of carbon per Revive.
- The potential to offset and trade carbon credits linked to the extended life cycles offered by the Revive Warrior Program, exceeding 30 years.
- Emerging opportunities in certain territories to offset corporation tax using carbon credits generated through the Revive Program.

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The Right to Recycle

The EU is moving to introduce legislation to compel manufacturers to lengthen the working life cycles of all manufactured goods. The Revive Warrior Program is designed and built to meet these requirements.



View more info:
acrcarbon.org



View more info:
europeanlawinstitute.eu



REVIVE ECO PARK

The Home of Sustainability

Revive Eco Park will provide a sustainable off-grid manufacturing facility for our products. Located at the centre-point of the Mid-Tipperary Decarbonising Zone, within the National Bioeconomy Campus at Lisheen Mine, powered by wind and solar energy this site has been purpose-built by Revive. The Park will feature purpose-built, manufacturing sites designed to host a community of like-minded businesses and organisations.

With the first unit planned to be fully operational in early 2025; Revive Eco Park will act as a catalyst for local job creation, showcasing the region as a prominent exporter of Irish products to a global audience.

Utilising the power of Ireland's largest inland wind farm and with the development of an on-site* solar farm; Revive Eco Park will stand as a testament to our unwavering commitment towards environmental responsibility.

Delivering complete energy independence, when completed the park's six sites are designed to operate **entirely off-grid**. Join us in redefining the future of business – where innovation meets responsibility.



MID-TIPPERARY DECARBONISING ZONE

A Collaborative Approach

Ireland's Mid-Tipperary Decarbonising Zone (DZ) stands as a collaborative testament to tackling climate change. Launched in 2021, it weaves a tapestry of community engagement, multifaceted solutions, and ambitious goals.

The DZ champions collaboration, working directly with locals, businesses, and stakeholders to create effective climate action plans. Its reach extends far beyond single sectors, tackling emissions across residential, commercial, transport, and agricultural spheres. Renewable energy takes centre stage, with the DZ actively promoting wind, and other clean sources to power Tipperary's future.

The rewards are clear. Cleaner air, improved energy security, and a thriving green-jobs market. Residents will enjoy a higher quality of life, while the region's commitment to environmental stewardship attracts businesses.

Preparation is key. The DZ stands ready, armed with a detailed Local Area Profile and Baseline Emissions Inventory. The Draft Tipperary County Council Climate Action Plan 2024-2029 outlines specific projects aimed at renewable energy production for commercial and industrial output.

The Mid-Tipperary Decarbonising Zone presents not just a project, but a blueprint for a future where collaboration, innovation, and environmental responsibility reign.



SITE MASTERPLAN



ECO PARK
Launched 2025



SOLAR FARM
Proposed Site



WIND FARM
Existing Site



BIO REFINERY
Existing Site





ENERGY & SUSTAINABILITY CONSULTANT

We welcome Barry O'Donovan as Revive's Energy and Sustainability Consultant. Barry brings a wealth of experience and expertise, dedicated to reducing energy consumption and enhancing sustainable practices.

Barry O'Donovan – Revive's Energy and Sustainability Consultant

Barry brings a wealth of experience and expertise, dedicated to reducing energy consumption and enhancing sustainable practices at Revive.

A passionate and enthusiastic environmental scientist with many years' experience across all areas of environmental sustainability. As an Energy and Sustainability Consultant at Rowan Engineering Consultants, Barry has played a key role in conducting decarbonisation assessments, managing energy systems, and implementing corporate sustainability strategies. His focus on practical advice has helped businesses reduce operating costs, utility consumption, waste generation, and carbon emissions through a measured and verified approach.

Barry has served as the Resource Efficiency Manager at ABP Food Group, where he successfully led various environmental and sustainability projects across the organisation. His work focused on resource efficiency, energy, water and waste management, and corporate responsibility. Barry's extensive knowledge of sustainability policies, standards, and trends, along with his strong connections in the environmental sector, make him a valuable asset to The Revive Group and our growing network of partners.

Barry is committed to driving eco-friendly initiatives that align with The Revive Group's mission to maximise sustainability across Revive Eco Park, our manufacturing processes, and our facilities.





FREQUENTLY ASKED QUESTIONS

What is the cumulative impact (carbon and whole-life cost savings) delivered across all of your customers?

While we don't currently provide a cumulative figure across all customers, we can give you an idea of the significant impact of a single unit. Our Revive Warrior vehicle saves 121 tonnes of CO₂ over its first 10 years compared to a conventional vehicle. Over three more 10-year life-cycles, this saving increases to 424 tonnes of CO₂. These figures demonstrate the scale of the savings that can be achieved.

How are carbon savings calculated?

Our calculations are comprehensive and take into account the entire life cycle. We consider as many parts as possible, the carbon footprint of transporting materials to our site, distributing the finished product, the operational use (such as diesel consumption), and the vehicle's end-of-life treatment.

Are your carbon savings third-party verified?

Yes, our carbon savings are verified by a third-party consultant who uses the GHG Protocol carbon accounting methodology.

Do you measure other sustainability impacts?

Yes, we include waste reduction in our calculations. We'll also be assessing and incorporating the CO₂ reductions from our water recycling systems, along with the environmental benefits of reduced water consumption, once we have data from active operational units.

What's next on Revive's circularity journey?

As a group are focused on analysing real-world data from all aspects of the Revive Warrior's performance. This will allow us to more accurately evaluate the CO₂ emission savings and identify other components that can be refurbished, further improving our circularity.

How can Revive help us meet our Scope 3 targets?

Our business model aligns seamlessly with the EU's Net Zero plans, and we are confident that for our customers, there is no better option than Revive when it comes to meeting Scope 3 targets and goals.

By reusing a significant amount of an old truck's parts, we drastically reduce the need for new materials and minimise waste. This circular economy approach leads to a substantial drop in the carbon emissions associated with making new materials and dealing with old units at the end of their life.



FREQUENTLY ASKED QUESTIONS

What makes the Revive Warrior different from other sewer cleaning units?

Unlike any other sewer cleaning unit, the Revive Warrior is built to be reborn. Its robust 8mm steel tank and reinforced, galvanised detachable subframe are designed for multiple life cycles.

Through the Revive Warrior Program, the backend is upgraded, reconditioned, and remounted onto a new chassis, extending the Warrior's service life for decades.

What are the financial benefits of the Revive Program?

The Revive Program can positively impact your financial reporting. The unit's Backend, which makes up a significant portion of the total cost, can be depreciated over its longer estimated useful life of 20 to 30 years. This is a longer period than the standard 8-to-10-year depreciation rate for the chassis. This approach would allow your business to benefit from a rise in reported earnings (EBIT) and an increase in the company's balance sheet asset value.

Is the Revive Warrior a cost-effective choice?

The Revive Warrior is competitively priced within its class, and you can achieve significant savings through our Revive Warrior Program.

If you provide a suitable 'end-of-life' unit to be revived, you'll receive a 25-30% discount for each new life cycle.

If you don't have a unit to provide, you can still purchase a revived unit at a 15% discount. After that, you can still achieve a 25-30% discount for each cycle within the program.

What are the key environmental and business advantages?

Embracing the Revive Program champions sustainability by recycling key components. The extended lifecycle, lasting over 30 years, can generate carbon credits that can be offset and traded, and in certain territories, can be used to offset corporation tax liabilities. Furthermore, by anticipating upcoming EU regulations that aim to extend product lifecycles, the Revive Program perfectly positions your business for a sustainable future.

