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Press Release

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Driving the circular economy: Bilfinger spearheads Cirttec's pioneering tire recycling plant as system integrator

- **Bilfinger leads EPCm services for Europe's largest end-of-life tire pyrolysis recycling plant**
- **Seamless integration of unique Cirttec technology for optimal efficiency**
- **End-of-life tires transformed into valuable chemicals and biofuels, creating annual CO₂ emissions savings equivalent to ca. 3% of the emissions from the chemical industry of the Netherlands**

Delfzijl, the Netherlands. Bilfinger has been awarded with comprehensive Engineering, Procurement, and Construction management (EPCm) services for a groundbreaking tire recycling facility in Delfzijl, the Netherlands, by UK-based technology company [Cirttec](#). Utilizing Cirttec's proprietary technology, their first commercial-scale plant will transform end-of-life tires into valuable resources, such as chemicals and biofuels, through pyrolysis. This method not only diverts waste from incineration and export out of Europe, but also produces high-quality recycled materials and renewable fuels.

[Bilfinger Engineering & Maintenance \(E&M\) Belgium/Netherlands](#) has been entrusted with finalizing and implementing the facility's design while seamlessly integrating Cirttec's technology into the whole plant architecture. The industrial services provider's long-standing experience as an independent system integrator, especially in energy transition contexts, coupled with decades of expertise in the gas and chemicals industries, ensures the highest standards of performance and energy efficiency for the plant. Based on this experience, Bilfinger furthermore provides Cirttec with in-house consulting in, for example, safety and regulatory compliance aspects throughout all stages of the implementation. Offering both the integrated consulting services and all the necessary engineering services from a single source, Bilfinger ensures the highest efficiency for the customer.

"We are delighted to collaborate with Cirttec to scale out their operations by turning their plant design into a first-class facility. Our expertise in engineering and system integration will ensure this landmark plant operates at peak efficiency, contributing significantly to the sustainability and



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resource conservation in the Netherlands and across Europe,” says Kevin Pieterse, Vice President Engineering at Bilfinger E&M BeNe.

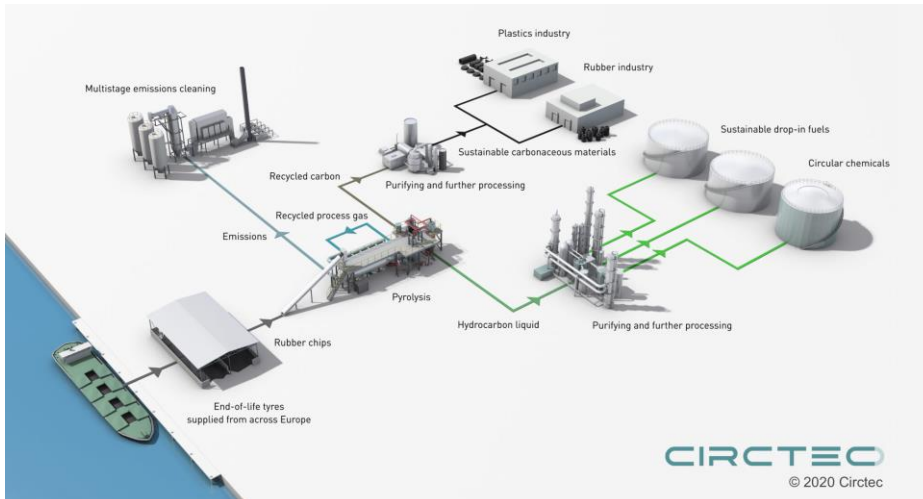
The Delfzijl plant will operate on a closed-loop system, powered by the gases produced during the recycling process. End-of-life tires, destined for incineration and export for disposal overseas, will be converted into rubber chips and processed through Cirttec’s proprietary CIFR™ pyrolysis system – a process that thermally decomposes waste in an oxygen-free environment, extracting hydrocarbon liquids, gases, and solid char. Post-pyrolysis, the outputs are separated; gases and liquids are cooled, condensed, and refined into Cirttec’s HUPA™ – a sustainable marine fuel – and circular naphtha, which can be used as recycled petrochemical feedstock in eco-friendly plastics and chemical production. Additionally, the solid char is purified and processed into recovered carbon black for reuse in the production of plastics and rubber products, completing the recycling loop.

“Cirttec selected Bilfinger as their EPCm partner carefully, because of Bilfinger’s sectoral expertise in industrial projects in the circular economy and renewable energy spaces, and their commitment to delivering well-run projects within agreed timescales,” says Allen Timpany, CEO of Cirttec.

Upon completion, the Delfzijl facility will be Europe’s largest of its kind, with a capacity to process 200,000 tons of waste tires annually. This capacity represents approximately 5% of the 3.6 million tons of end-of-life tires generated in Europe each year, creating CO₂ emissions savings through displacement of fossil fuel use equivalent to circa 3% of the emissions from the entire chemical industry sector of the Netherlands.



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Infographic: 3D model of the future tire recycling plant



Left to right: Marcel Papenhove, Senior Director Business Development & Sales at Bilfinger Engineering BeNe; Mick Modderman, International Business Development Manager at Bilfinger Engineering BeNe; Allen Timpany, CEO of Circtec; Kevin Pieterse, Vice President Engineering at Bilfinger E&M BeNe; Wouter van den Ham, Director Engineering at Bilfinger Engineering BeNe



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Bilfinger is an international industrial services provider. The aim of the Group's activities is to increase the efficiency and sustainability of customers in the process industry and to establish itself as the number one partner in the market for this purpose. Bilfinger's comprehensive portfolio covers the entire value chain from consulting, engineering, manufacturing, assembly, maintenance and plant expansion to turnarounds and digital applications.

The company delivers its services in two service lines: Engineering & Maintenance and Technologies. Bilfinger is primarily active in Europe, North America and the Middle East. Process industry customers come from sectors that include energy, chemicals & petrochemicals, pharma & biopharma and oil & gas. With its ~30,000 employees, Bilfinger upholds the highest standards of safety and quality and generated revenue of €4.5 billion in financial year 2023. To achieve its goals, Bilfinger has identified two strategic thrusts: repositioning itself as a leader in increasing efficiency and sustainability, and driving operational excellence to improve the organizational performance.

You can find additional information, photographs and videos at

