



Press Release

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Consortium to develop Next-Gen Biofoundries to replace fossil chemicals with microalgae solutions

To scale microalgae-based green chemicals to industrial levels NeoCarbons (NC), De Dietrich (DD) and France PBR (FPBR) create a consortium integrating complementary expertise in high productivity microalgae farming equipment (NC) and advanced engineering plus expertise in downstream production for the fine chemicals industries (DD). (FPBR) will contribute its experience in Algae Production and photobioreactors construction and operation. A first phase will focus on nutraceutical, pharmaceutical, and dermo cosmetic ingredients.

NeoCarbons SA, De Dietrich, and France PBR announce the signing of a Memorandum of Understanding (MoU) to co-develop innovative, integrated industrial solutions serving markets for high-value natural molecules. The association between De Dietrich and NeoCarbons fills the existing gap in the green and circular economy value chain, drawing on the specialized expertise of France PBR as an independent technical contributor. A second phase will target substitutes for bio-chemical products currently derived from fossil resources.

This partnership brings together three complementary areas of expertise:

- NeoCarbons: developer of a patented industrial photosynthesis reactor technology for microalgae cultivation. These reactors, true microscopic biochemical factories, recycle CO₂ to form valuable carbon chains. The reactor complies with pharmaceutical Good Manufacturing Practices (GMP) and is designed for pharmaceutical, nutraceutical, and dermo-cosmetic markets, with longer-term applications in food, animal nutrition, green chemistry, and biofuels.
- De Dietrich: a global leader in the design and supply of process systems, equipment, and solutions for the pharmaceutical, food, chemical, and green chemistry industries. Combined with its extraction and purification process



solutions, De Dietrich paves the way for natural, green, and circular biochemical solutions for its customers.

- France PBR: designer and manufacturer of photobioreactors for the industrial production of microalgae. France PBR develops systems integrating mechanical design, process control, and proprietary software supervision. Their expertise covers analysis, unit sizing, performance optimization, and industrial scale up.

The objective of this collaboration is to build and validate, by 2026, a semi-industrial 1 m³ reactor, representing the first step toward the deployment of modular biorefineries capable of converting CO₂ into ingredients such as peptides, pigments, lipids, and other biomolecules of interest. These solutions will contribute to replacing fossil-derived chemicals (fertilizers, pesticides, plastics, fuels) with natural alternatives.

Quotes

Jérôme Lamoureux, Group Innovation Leader, De Dietrich: *“This alliance demonstrates that industrial photosynthesis can become a cornerstone of green chemistry and the circular economy. It strengthens our ability to support our customers in implementing circular production processes.”*

Clément Péch , Chief Executive Officer, France PBR: *“These advances enable France PBR to expand its photobioreactor range by integrating multiple lighting options, reinforcing the modularity of our systems and their adaptation to the specific needs of each project.”*

Jean-Louis Roux-Dit-Buisson, Chief Executive Officer, NeoCarbons: *“We are building an integrated value chain capable of developing, equipping, and operating future microalgae biorefineries. We are already inviting industrial players, green ingredient producers and/or microalgae producers wishing to test or host this technology, to contact us.”*



De Dietrich



Call for Collaboration

NeoCarbons SA, De Dietrich, and France PBR are opening their co-development initiative to industrial players or operators from fine chemicals, dermo-cosmetics, nutraceuticals, pharmaceuticals, and bioenergy sectors wishing to integrate industrial photosynthesis projects, including:

- Testing the technology on their own microalgae strains and/or CO₂ effluents
- Hosting a pilot or industrial demonstrator
- Co-developing low-carbon, microalgae-based ingredients or processes

Contact: contact@neocarbons.com or via <https://www.neocarbons.com/contact-us/>

About

NeoCarbons SA: owner of a patented internal illumination photobioreactor technology enabling competitive conversion of CO₂ into valuable molecules via microalgae. <https://www.neocarbons.com/>

De Dietrich: global leader in industrial process solutions and equipment supply for fine chemicals. <https://www.dedietrich.com>

France PBR: laboratory, engineering office, and manufacturer of photobioreactors for macro- and microalgae production. <https://france-pbr.com/>

Axess Impact (Geneva) , whom we warmly thank, played a facilitating role in bringing NeoCarbons and De Dietrich together around a shared vision: accelerating the emergence of industrial solutions for a circular CO₂ economy and building trust in impact-driven solutions. <https://axessimpact.green/>

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