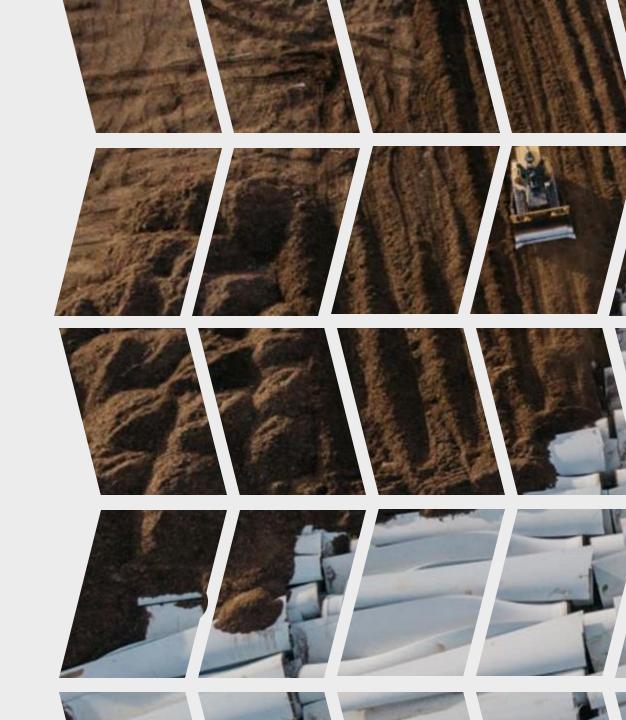
### **Confidential document**



Fund raising – Teaser *Feb 2024* 



#### Extracthive's vision

Extracthive has developed the PHYre® technology, which recycles carbon fibers composites to produce affordable high-performance fibers with an outstanding environmental impact







## Key investment considerations

The carbon Fiber Reinforced polymer (CFRP), a composite material that supports the energy transition, is growing at a fast pace but is desperately in need of recycling solutions. Hence, the market for recycled fiber is expected to grow by 14% annually.

Strong market fundamentals



- PHYre® technology, developed by Extracthive, allows for the recycling of a wide variety of carbon fiber waste materials. Contrary to competitor, it does produce high-quality recycled fibers at a competitive price, with a 10 times lower carbon footprint than virgin fiber.
- High quality and low impact product



- After two patents and seven years of technical and commercial development with CFRP consumer industries, the industrial site is secured in a chemical complex operated by Arkema is ready to welcome the first 30-ton/y plant. In 2025 and to be easily scaled up to 1,000 tones in 2026.
- Technology ready (TRL 7) for industrialization



Extracthive industrial units account for **only ¼ the CAPEX** of a new investment in virgin carbon fiber production. The Phyre fiber will compete with virgin fibers manufactured by historic players, thereby targeting high-volume, high-growth markets (aerospace, automotive, etc.)

Low capital intensity process



The 1,000t/y standard unit will generate c.€17m of revenues and EBITDA of +€4m by 2028.
The technology is scalable internationally, with an ambition to build12 units worldwide by 2035 generating c.€200m revenues.

Clear value proposition to get international



**REQUEST: €8m Series A round** to go-ahead on a 30t/y pilot to in an Arkema facility. This derisking phase will pave the way toward a fully industrialized 1,000t/y facility that will require only €6-9m more equity for a start in 2027

€3m non dilutive "France 2030" award in Dec-2023: Extracthive is the only selected player for the ADEME call for projects for composite recycling



# Growing volumes of Composites and Fibers wastes, facing lack of adequate treatment and recycling solutions, end up in landfill, a very unsustainable solution



Carbon fiber production emits 40 tons of CO<sub>2</sub> equivalent per ton of fiber produced



PHYre solvolisis process ensures a **90% reduction of CO<sub>2</sub>** issued vs. Virgin CFRP and limits also the water use and footprint (2LCAs from CEA and Quantis)



A material that is widely used in many sectors (aeronautics, hydrogen storage, wind power, leisure, automotive...), where supply is expected to fall short of demand by 30% by 2026



€230kin annual revenue already secured from 4 customers on the future pilot



Inadequate treatment solutions, with almost 85 % of waste landfilled or incinerated. By 2050, the aeronautics sector alone will have produced 500k tons of composite waste.



Production cost at less than €20/kg. Extracthive offers a viable and circular alternative to landfill



Existing recycling solutions do not allow for the production of high quality fibers and are indeed downcycling



2 patents filed and 5 validated PoCs. **Solvolysis process does not distort the fibers.** Ready to go at scale by 2026

The carbon fiber market is waiting for a recycled fiber that keeps its mechanical properties while offering a circular model with a much better environmental footprint.

Source: ADEME empreinte database, Composite World 30/11/2022, Sana Kazilbash - Engineering.com 13/01/2022, E. Pakdel et al. Resources - Conservation and Recycling, 2021, 16, 15340



#### Disclaimer

The document (hereafter the "Profile") presents selected information on a Company (hereafter "EXTRACTHIVE") collected from its shareholders (hereafter the "Shareholders") and management, or publicly available.

While the information included herein is believed to be accurate and reliable, in delivering this document, IMPAKT ADVISOR makes no representations or warranties, expressed or implied, as to the accuracy or completeness of such information.

The Profile is being provided on a confidential basis by IMPAKT ADVISOR on behalf of the Shareholders solely for use by the recipient in considering its interest in EXTRACTHIVE. Therefore, the Profile may not be reproduced or shared with a third party without the prior consent of IMPAKT ADVISOR.

Any further inquiries should be directed to:

Julien LAURENT
Impakt Advisor - co-founder
julien@impakt-advisor.com
+33 6 31 01 99 51

Arnaud de LAROCHE
Impakt Advisor - co-founder
arnaud@impakt-advisor.com
+33 7 82 50 83 15

