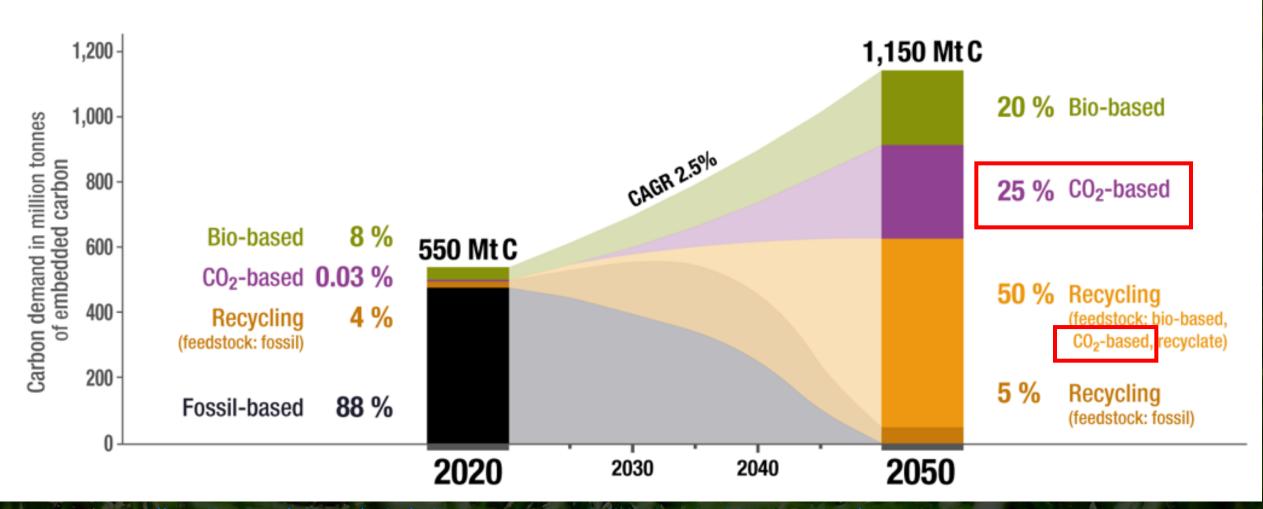


Our technology is at the spearhead of the emerging CO₂ economy





Source: Nova Institute https://renewable-carbon.eu/publications/product/explorative-scenario-carbon-embedded-in-chemicals-and-derived-materials-png/



How CO2BIOCLEAN works conceptually



CO, Capturing

- CO₂ is captured e.g. from bio-gas plants or from industrial emissions
- CO₂ capturing is done together with partners it is not core CO2BioClean technology

H₂ enabled CO₂ Conversion to biopolymers

- IP protected 3-step-process: Pre-culure fermentation harvets.
- After pre-culture of bacteria conversion takes place in a fermentation reactor. In 3rd step biopolymers are separated from bacteria

AGRICULTURE & BIOREMEDIATION FIBERS / TEXILE APPLICATIONS PACKAGING

Use in applications

- CO2BioClean has know-how to modify polymers towards the needs of specific applications
- Furthermore CO2BioClean can support manufacturers replacing conventional plastics with biopolymers

COSMETICS - inkl. packaging co2bioclean.com



We focus on four segments of the huge plastics market



Regulation push / Market pull

Cosmetics – incl. packaging

\$1B



Market pull / Regulation push

Packaging

\$75B



Market pull / Image issues

Fibers / Textile applications

\$50B



Process efficiency, Regulation push

Agriculture & Bioremediation

\$5B

\$650B

Annual plastics sales

\$195B
Technically
applicable to
CO2BioClean

Not all applications can be technically manufactured with PHA, e.g. high temperature applications, outdoor tubes, foams, ...

Our application development pipeline is starting to fill-up





Cosmetics – incl. packaging





Test





Packaging



COSMETIC VALLEY

LAM-

SHELLWORKS



invited





In progress







Agriculture & Bioremediation

Fibers / Textile applications







In progress





planned



Opportunistic





co2bioclean.com 18.12.2024

Key aspects from our Business Plan



Business Unit Portfolio Strategy

Direct Sales

PENETRATION

- One 1250 KTA site
- **End-to-end successful business** for showcasing
- Premium segment: 53€/ kg

CORE BUSINESS SUPPORT

- **Complete solution**
- Sales expertise to support licensing customers
- **Engineering Support for** tailor-made developments and scaling up

Consulting

Licencing

CORE BUSINESS

Long-term sustainable revenues and profits



Our team understands biotech AND customer value chains

Management team



CEO & Co-Founder



CTO & Co-founder

Advisors/Experts



COO



Advisor

Molecular Biotechnology as

Our Investors



Hessen Kapital

European Innovation

Ghazan Global

Hessen Kapital III (EFRE)

EIC Fund

Core team



Biotechnology

and Molecular Bioscience



Fermentation & Process Design



Extraction & Spinning



Communication Manager



co2bioclean.com 18.12.2024

Thank you. We are looking forward to speaking to you!





WE CONVERT CARBON EMISSIONS INTO NATURAL BIOPOLYMERS

Ms. Anusriha Shanmugam
CO2BioClean GmbH
Mergenthaleralle 73-75
65670 Eschborn – Germany
Phone: +49 (0)1575 202 2782
anusriha.shanmugam@co2bioclean.com
www.co2bioclean.com