PHOTOBIOREACTOR HELENA

Devices that reduce carbon dioxide emissions using green algae.

From the Czech Republic, we build plants that reduce carbon dioxide emissions using green algae, which we then process. Our facilities can capture tons of CO2 per year. Individual plants differ in their capacity to capture carbon dioxide. However, they always capture more than the equivalent CO2 needed to generate the electricity that powers the reactor.

Unique selling points:

- Artificial intelligence creates optimal conditions for the growth of unicellular algae.
- During the growth phase, up to 25,000 litres of air per hour enter the reactor.
- Under specific conditions, the reactor is capable of capturing up to 90% of the CO2 entering the reactor.

Product

Bioreactor

Technology readiness

Development

Proof of concept

▶ Prototype

First implementation

Extensive implementation

2/2023

B2B

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