

CO-FOUNDER NEEDED

We empower small-scale green ammonia production via

sorption-based solutions



AMMISORB



THE PROBLEM

Ammonia is vital for food production, but current fossil-based, large-scale synthesis causes 1.5% of global CO_2 emissions and is unsuited for small-scale, renewable-driven plants due to inefficient and costly separation.

OUR SOLUTION

Ammisorb is a separation device tailored for small-scale green ammonia plants, boosting efficiency from 70% to 99%, cutting costs by up to 11%, and enabling flexible, low-pressure processes powered by renewables.

PATENT STATUS

Yes, European patent application submitted in Apr 2025.

FINANCIAL OVERVIEW

- Business model & Pricing: Revenue comes from selling Ammisorb units with recurring sales through maintenance and sorbent renewal; pricing follows a cost-plus/valuebased approach, starting at ~€70,000 per tonne/day of NH₃ and decreasing with scale.
- Commercialization: Pilot demonstrations with 3 ammonia system integrators start in Q2 2026, aiming for first commercial launch in 2027.

MILESTONES ACHIEVED

- TRL4 is achieved. TRL5 will be reached in Q2 2026.
- Three letters of intent and 9 letters of interest.
- Over 0,8 MEUR were secured through soft funding programs within 2 years.

TARGET MARKET & CUSTOMERS

Our target customers are companies developing small-scale green ammonia plants, where Ammisorb units are a critical component.

CO-FOUNDER PROFILE WE ARE LOOKING FOR Must-have qualifications/background

- Business background
- Experience in the chemical industry (able to understand the technology at intermediate level)
- Previous experience with startups

Nice-to-have qualifications/background

· Experience in the ammonia industry.

Personal fit

· Getting things done attitude and respectful.

TASKS & RESPONSIBILITIES (FIRST 3 MONTHS)

- Team & Funding: Map potential funding opportunities and align with co-founders.
- Strategy & Planning: Build a startup plan, including actions, costs, and pricing models.
- Market & Customers: Conduct market research, update pitch deck, and test commercial hypotheses with customers.

ACADEMIC BACKGROUND OF CURRENT CO-FOUNDERS

Anastasiia Karabanova – PhD (DTU Energy), founder

Jasraunaq Singh – MSc Sust Eng (DTU), cofounder

Emmelina Viktoria Frick - MSc Chem Eng (Lund University)

Georgios Karasakalidis - MSc Sust Eng (DTU)

PHYSICAL ADDRESS

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ABOUT OPEN ENTREPRENEURSHIP