

Eco2Protein: Converting Industrial CO₂ Emissions into Valuable Products

Eco2Protein's technology transforms industrial CO₂ into ethanol fuel and protein-rich aquafeed. This allows heavy industries to reduce emissions, comply with regulations, and generate new revenue.

The Problem

Industrial CO₂ emissions continue fueling global warming, while surging demand for protein depletes ocean ecosystems. This dual crisis destabilizes the environment and food supply.

The Solution

Eco2Protein's platform uses microbes to convert industrial CO₂ and hydrogen into ethanol and protein biomass, providing emitters a cost-effective path to decarbonization while generating revenue from co-products.

Market Opportunity

Eco2Protein addresses two fast-growing markets. The primary focus is the \$100B+ global ethanol market, driven by demand for low-carbon fuels, sustainable aviation fuel (SAF), and renewable chemicals. Their ethanol is produced directly from industrial CO₂ emissions, offering a carbon-negative alternative with strong ESG and regulatory advantages. As a secondary product, they produce protein-rich biomass (over 70% protein) for the aquafeed market, valued at \$122B in 2022 and projected to exceed \$260B by 2030. Their B2B model involves co-producing ethanol on-site with industrial emitters (e.g., refineries), with revenue-sharing agreements.

Leadership Team

Hila Givon – CEO & Co-Founder

A specialist in oil and gas innovation, CEO of ISROG oil and gas innovation. She brings over 20 years of experience in the O&G including roles as VP at a company acquired by Microsoft and investment manager at AIG's venture capital arm.

Dr. Roni Cohen – CTO

A biotechnology leader with over 20 years of experience in microbial fermentation and CO₂ bioconversion. Previously CEO of Alagene Ltd. and VP of Business Development at HyLabs, bringing deep expertise in applied microbiology and synthetic biology.

Dr. Alon Karpol – Co-Founder

Ph.D. in Microbiology from the Weizmann Institute of Science, General Manager of White Dog Labs Israel and CEO of CelDezyner, leading R&D in probiotics and anaerobic fermentation with expertise in microbial systems.

Eco2Protein has completed a successful proof of concept (POC) and is now deploying its technology at scale. The company is seeking strategic partners and investment opportunities to accelerate growth and impact.