

CARBON REMOVAL AT SCALE

Ceal, a carbon dioxide removal (CDR) company is paving the way for a Net-Zero environment. We claim to be the fastest, cheapest and most energy-efficient technology ready to scale. We use circular economy best practices to co-locate with seawater-cooled, thermal power plants, utilizing their existing infrastructure and enabling seamless integration of our proprietary electrochemical catalysis technology with their facilities. Our process is additive- and emission-free, and non-reliant upon the carbon market.

In a highly efficient single-step, Ceal captures and sequesters atmospheric CO₂ dissolved in seawater into industry-essential minerals, while providing soft water for various uses. Thus, enabling substantial new revenues, major cost savings and increased energy efficiency for its customers, all while reducing their environmental impact. Ceal's solution reduces the carbon footprint of the host facility, its marine pollution of hazardous chemicals, and simplifies its operation.

Ceal - more than just carbon dioxide removal. We are healing the world.

OUR LEADERSHIP TEAM



Charlotte Vogt PhD
Co-Founder, Lead Scientist



Mati Shani
Co-Founder, CEO



Shany Hershkovitz
Co-Founder, CTO

THE PROBLEM

Existing carbon dioxide removal methods do not satisfy the **three essential criteria** for a valid **Gigaton-scale** solution:

- **Carbon-negative** footprint
- **Cost-effective** energy process (less than \$100 / tCO₂)
- **Long-term sequestration** (over 100 years)

OUR SOLUTION

Ceal's **Novel** solution, satisfies the three criteria:

- A mere **250 kWh / tCO₂** energy consumption reduces our customers' carbon footprint by over 10%
- Very cheap end-to-end solution of **~\$30 / tCO₂**
- Bi-product minerals **sequester** the **carbon indefinitely** and add an **additional revenue** stream
- Absolutely **0 additives**



PROGRESS OVERVIEW

Foundation: April 2024

Industries: CDR, energy, minerals

TRL: 4-5; successful alpha demonstrator

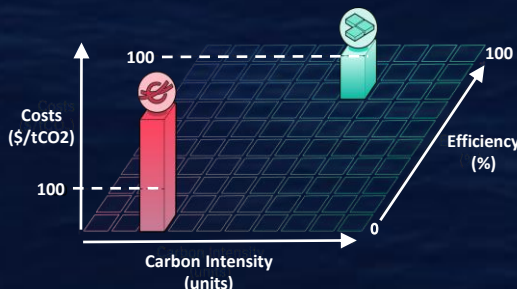
IP: 3 patents

Milestones Reached: Initial pre-seed funding, **Blue Economy** accelerator, **Google Startups for Sustainable Development** program, **EIT Q2Scale** program

Seeking: Additional pre-seed funding to scale technology; recruit core R&D team; secure a Pilot site and customer validation



COMPETITION



Ceal greatly outperforms its competitors in **efficiency**, **Carbon negativity lifecycle**, and **cost**



BENEFITS

- **Energy efficient** – carbon-negative process
- **Gigaton-scale CO₂ removal**
- **Direct, long-term sequestration**
- **Low-cost** CapEx and OpEx
- **Simple integration** to existing facilities
- **Flexible water input** (brine, seawater, freshwater)
- **State-of-the-art accuracy** in integrated Monitoring, Reporting, and Verification