

R&D of high-efficiency atmospheric CO2 enrichment system for practical use of DACCU (Planet Savers, Inc.)



City	Year of Establishment	Founder
Shibuya, Tokyo	2023	Kei Ikegami Kenta Iyoki

Partner VC	Latest round of Fundraising	Valuation
JAFCO	Seed	JPY 1.2 Billion

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○ Business Plan

A startup originating from the University of Tokyo and Japan's first Direct Air Capture (DAC) company, with the mission of 'halting climate change and leaving a beautiful Earth for the next generation' and the vision of 'capturing 1 gigaton (1 billion tons) of CO₂ annually by 2050 and becoming a frontier runner in solving climate change.

○ Research Outline

To reduce the cost of DACCU (DAC and Carbon Utilization) to a practical level, we are developing a DACCU system consisting of:

- 1) an innovative CO2 adsorbent based on zeolite, and
- 2) a CO2 recovery, separation, and concentration unit optimized for this adsorbent.

In particular, this research and development effort aims to complete a prototype of the initial DACCU system model (commercial first unit) capable of recovering, separating, and concentrating 500 kg to 1 ton of CO2 per day. The goal is to demonstrate the potential to reduce concentration costs to approximately \$400 per ton of CO2 for the commercial first unit and to \$100 per ton of CO2 for mass-produced units.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Energy & Infrastructure	STS 2024～2026 FY	JPY 500 million	-