

# ThanksCarbon

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## THANKS CARBON

**Established** Oct 07 2021  
**Location** Seoul, South Korea  
**Main Business** Information and Communication Industry  
**Business Item** Development of AI-based MRV Systems for Agriculture  
**Capital stock** \$7,200  
**CEO** Hae won Kim  
**Size of Team** 10

From '27, the emission trading business will expand to seven Asian countries, and with cost reduction through technological development, profits are expected to increase significantly, aiming for **58x growth by '30**.

Expansion to six Asian countries by '27~'28 and cost reduction through technological advancement, profit expansion

■ International emissions trading business.  
 ■ ESG Project

[Unit] USD

Category	2024	2025	2026	2027	2028	2029	2030
Overall Company Growth	3.5M	8.7M	28M	76M	119M	161M	204M
Emissions Trading Business	2.5M	7.5M	25M	73M	115M	157M	199M
ESG Projects	1M	1.2M	3M	3.5M	4M	4.5M	5M

### Product & Service

ThanksCarbon creates reliable and high-quality carbon credits through a systematic and scientific MRV (Measurement, Reporting, and Verification) process.



Our flagship product, the AI-based satellite MRV solution Haimdall, is designed to scientifically and economically verified the implementation of best management practices that reduce agricultural methane emissions.

By leveraging advanced artificial intelligence and satellite technology, we ensure the generation of highly trustworthy carbon credits.

### Strategy

At ThanksCarbon, our business model focuses on generating revenue from the sale of carbon credits produced through certified carbon reduction projects.

We also aim to secure income from corporate ESG (Environmental, Social, and Governance) implementation projects.

Our strategy includes obtaining advanced payments from companies participating as investors in international reduction projects, ensuring a steady revenue stream as these projects yield results.

### Competitiveness



#### Optimizing Satellite Data

Identifies the most effective analysis methods through satellite imagery to accurately monitor carbon reduction efforts.



#### AI-Driven Monitoring

Employs advanced AI technology to detect and analyze elements beyond the capabilities of traditional methods, offering precise and cost-effective insights.



#### Comprehensive Data Collection

Specializes in crop yield prediction and other agricultural impacts by collecting extensive ground truth data on various seeds, soils, and environmental conditions through our own custom-developed application.

Investment Round Seed

Most Recent Investment raised **\$579,000**

# Solarinno

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**Established** Nov 23 2020

**Location** Yuseong District,  
Daejeon, South Korea

**Main Business** Manufacturing / Service

**Business Item** Small Desalination Units /  
R&D Services

**Capital stock** \$123,000

**CEO** Pak, Hunkyun

**Size of Team** 3



Desalinnno



Sosalinnno



Investment Round **Pre-seed**

Revenue

**\$48,000**

Funding

**\$300,000**

## Product & Service



### Desalinnno

Low energy small scale desalinator unit which uses electrostatic force to remove ions in water, without replacing the expensive membrane. The smallest one (Desalinnno 100) may produce 2~5 tons of fresh water per day. It can be applied for the water under 2000ppm salinity.



### Sosalinnno

Low cost, easy to produce desalinator unit, powered by solar heat only. One unit may produce 2~5 liters of potable water per day. It can be applied for high salinity water such as sea water.

## Strategy

- 1 Solarinno employs a flexible business strategy to ensure broad access to clean water technologies. The company can supply Desalinnno units directly to local distributors or partners, or establish joint ventures and technology transfer agreements to enable local production in regions like Africa.
- 2 For Sosalinnno, Solarinno provides the necessary technology and materials for local production and distribution, **empowering communities to produce and maintain their own desalination systems with minimal training and resources.**

## Competitiveness

### Desalinnno

#### Low Energy Usage

Utilizes electrostatic force, reducing energy requirements.

#### No Expensive RO Membrane Replacement

Avoids the high costs associated with reverse osmosis membranes.

#### Applicability in Remote Locations

Suitable for small-scale, remote, and off-grid areas.

#### Local Production

Can be easily produced and maintained locally, fostering community self-sufficiency.

### Sosalinnno

#### No Electricity/Fuel Required

Operates solely on solar heat, eliminating the need for external power sources.

#### Very Low Cost

Made from inexpensive materials and can be assembled with simple hand tools.

#### Ease of Production

Simple training enables local production, making it accessible even in low-resource settings.

#### Adaptability

Effective for personal use in remote, off-grid locations, addressing water scarcity issues directly at the source.

These competitive advantages position Solarinno as a **leader in providing sustainable and accessible desalination solutions for communities worldwide, particularly in areas with limited infrastructure and high water contamination issues**





**Established** Oct 22 2020  
**Location** Gongdeok, Mapo-gu, Seoul, South Korea  
**Main Business** Service Industry  
**Business Item** **Development of Carbon Business**  
**Capital stock** \$3,600  
**CEO** Tichaa Johnson Penn  
**Size of Team** 3



Investment Round  
**Pre-seed**

Revenue  
**\$111,000**



## Product & Service

At EcoLinks, we are dedicated to developing **eco-friendly products** tailored specifically to meet carbon credit requirements.

We actively promote innovative **renewable energy solutions**, including our **Bioethanol Cooking Solution** in Ghana.

These products are designed to address the growing need for sustainable and efficient energy, significantly reducing carbon footprints and enhancing energy access in underserved areas.

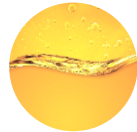
## Strategy

EcoLinks revolves around a **diversified revenue model**. We generate revenue through



### Bioethanol Cookstove Sales

Offering affordable and durable cooking solutions that cater to the needs of local communities.



### Bioethanol Fuel Sales

Ensuring a stable and continuous supply of clean cooking fuel.



### Carbon Credit Sales

Monetizing our environmental impact by selling 15-20% of the carbon credits we generate, thus supporting our sustainable initiatives and providing additional revenue streams

## Competitiveness

EcoLinks **stands out in the competitive landscape** due to several key factors



### Local Expertise

Our team is rich in local knowledge and backgrounds, predominantly comprising Africans who understand the market intricacies.



### Superior Product Quality

Our bioethanol cookstoves are more aesthetic and durable compared to competitors, ensuring long-lasting use.



### Stable Bioethanol Distribution

We offer real-time fuel measurement and tracking capabilities, ensuring a reliable fuel supply.



### Comprehensive Value Chain

We secure bioethanol fuel by covering the entire value chain from production to distribution, making us the only company with such an extensive approach



# TCRK Energy

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## TCRK Energy

Climate Change Response LAB

**Established** June 13 2019  
**Location** Jungwon-gu, Seongnam-si, Gyeonggi-do, South Korea  
**Main Business** Manufacturing  
**Business Item** CCUS and Carbon Neutrality Solutions  
**Capital stock** \$36,000  
**CEO** Lewis Kim  
**Size of Team** 3

## Product & Service

TCRKE is at the forefront of CO<sub>2</sub> abatement, leveraging its advanced technology portfolio to transform CO<sub>2</sub> into valuable products and services.

By partnering with sectors that produce high levels of CO<sub>2</sub> and targeting rapidly growing markets, TCRKE aims to drive both sustainability and economic growth.

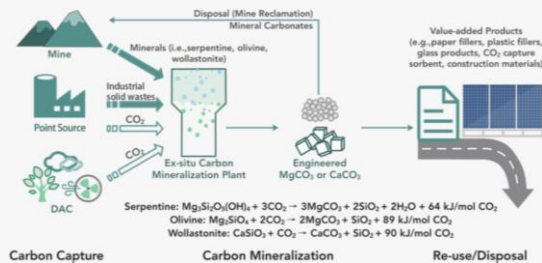
## Strategy

TCRKE has a strategic plan for **global market expansion**. Initially, commercializing Liquid BAKER® technology with coal and cement companies in Turkey, followed by an **expansion into the EU and Africa**.

The company is also focusing on **marine applications** with its **Dry BAKER®** and **Liquid BAKER Lite®** technologies, starting with ferries and cruise ships and eventually moving to other shipping companies in the EU.

For African markets, TCRKE is **developing a special hybrid CO<sub>2</sub> solution** that combines mineralization and bio-fixation, enabling the **production of food and feed through CO<sub>2</sub> capture**.

## CCUS (Carbon Capture Utilization and Storage)



Investment Round  
Pre-seed

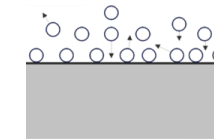


Revenue

**\$90,000**

### Dry BAKER

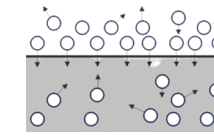
Dry based CO<sub>2</sub> Capturing



Adsorption

### Liquid BAKER

Wet based CO<sub>2</sub> Capturing



Adsorption

### COLD Capturing

TCRKE's cold capturing technology reacts at room temperature both when capturing and at room temperature when regenerating CO<sub>2</sub>, so it consumes less energy and does not require heating or cooling equipment, so the facility is relatively simple and facility investment costs are also dramatically reduced.



### Lightweight Capturing

Lightening of the capturing equipment was achieved through the Liquid BAKER Lite version, which is 80% lighter than existing wet equipment, and dry capturing technology.



## Competitiveness

TCRKE's cold capturing technology is a **game-changer, operating at room temperature for both CO<sub>2</sub> capture and regeneration**. This method reduces energy consumption and eliminates the need for complex heating or cooling equipment, resulting in lower facility investment costs. Additionally, TCRKE's lightweight capturing technology, particularly the Liquid BAKER Lite, is designed to be up to 1/100th the weight of current solutions, making it ideal for use on marine vessels and other transportation applications. This significant weight reduction translates to better efficiency and cost savings in mobile CO<sub>2</sub> capture operations.

TCRKE's innovative technologies and strategic market approach make it a **strong competitor in the CO<sub>2</sub> abatement industry**, offering **energy-efficient, cost-effective, and versatile solutions** for various industrial and transportation needs.



# BLUE GOLD

www.bluegold.co.kr

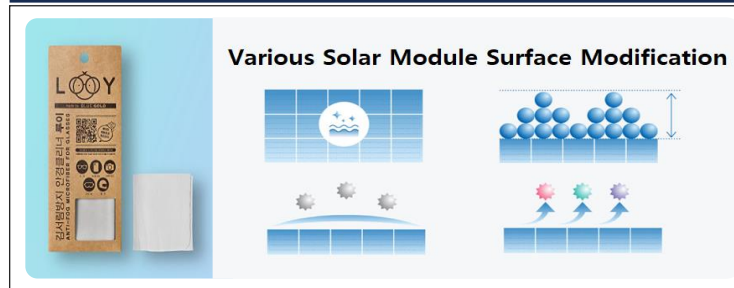
## Overview

- Established in 2014, Bluegold is a chemical venture company specializing in manufacturing nanomaterial-based B2C consumer products with super-hydrophobic and super-hydrophilic technology and B2B products and technology service solutions for solar panels to improve the efficiency and restoration of aged solar panels

## Achievements

- 2014** • OTEC Beijing Start-up Competition 2nd Place  
• IE Business School – Venture Day 1st Place
- 2019** • #1 Market share in EU / HK (Anti-fog product)
- 2021** • Selected as Baby Unicorn Company by the Ministry of SMEs and Startups (Korea)
- 2022** • Exceeded \$8 million in cumulative exports

## Product / Service



- Various Self-cleaning / Anti-fog products, including Anti-fog Microfiber for Glasses (over 7 million sold globally)
- Solar Module Functionality Restoration and Maintenance Management and Service Platform
- Nano Coating Materials and Coating Equipment for Solar Module Surface Modification and Activation

## Key Personnel



### Bright (Bong Hyun) Kim

CEO

Bright Kim studied chemistry at SNU and founded Bluegold based on his experience in the chemical industry and as a VC.

Bluegold is at the forefront of innovation and technological advancement, paving the way to change the world and improve people's lives.



### Heon Hwang

Director

LSU – EngD in Engineering Science  
+20 yrs of Research in Chemistry



### Eric Hwang

Manager

University of Illinois – Ph.D. in CMN +  
6 yrs of global sales/marketing

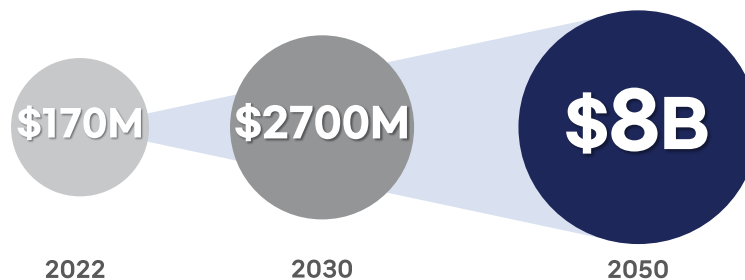
## Funding (USD)

\$2M

- DSC Investment
- Seoul IP
- KNET IP

## Solar Panel Recycling Market Size Forecast

- Based on 2022 installation rate / Solar panel lifespan assumed to be 15 yrs.



## Milestones

- By minimizing the surface contamination of solar panels for a considerable period, the maintenance cost of solar power plants is reduced by more than 50%, and the overall energy production efficiency of solar power plants is improved by more than 5~10%  
**2024** : \$200,000 / **2025** : \$ 1,000,000 / **2026** : \$ 5,000,000 (Target Overseas Export Amount)
- By encouraging the reuse of old solar panels, our business prevents domestic and international environmental pollution caused by prematurely discarded modules and reduces carbon emissions from indiscriminate disposal.

# Beyond Captur

www.beyondcaptur.com



## beyond captur

**Established** Jan 04 2024  
**Location** 5th Floor, 551, Seolleung-ro, Gangnam-gu, Seoul, South Korea  
**Main Business** Engineering Research Technology  
**Business Item** DAC (Direct Air Captur) - Carbon Capture Technology  
**Capital stock** \$14,000  
**Size of Team** 6

## Key Personnel

co-CEO / CTO

**Byoungsu Kim,**

Ph. D in Chem. Eng.  
Electro-Chemistry Expert

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co-CEO / COO

**Sungbong Tae**

Business Development &  
Strategy in CDR market

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## Product & Service

Beyond Captur specializes in innovative, **electric chemical-based carbon capture technology** designed for Direct Air Capture (DAC) and Carbon Capture Utilization and Storage (CCUS).

This cutting-edge technology effectively captures CO<sub>2</sub> from the air, providing a sustainable solution to reduce greenhouse gas emissions.

## Strategy

Beyond Captur is dedicated to developing **large-scale DAC plants** that generate Carbon Dioxide Removal (CDR) credits, a distinct market from the Carbon Credit market and expected to grow significantly.

These credits are marketed to major corporations seeking to offset their carbon footprints. By offering low-cost, efficient carbon capture solutions, Beyond Captur aims to establish a competitive market presence and ensure sustainable cash flow.

The company also emphasizes superior CDR credits, enhanced by Life Cycle Assessment (LCA) to eliminate energy-intensive processes.



Beyond Capture has **successfully secured initial funding** for **prototype** development and validation.

Investment

**\$600k**

Seed Investment

Most Recent  
Investment raised

**\$500k**

Grants

**\$150k**

Government and  
Other agency

# of Potential  
Client

**4**

4 Corporates  
meeting  
2 NDA Signed

Patents

**3**

# of Applications  
(including  
preparation)

Currently developing a **prototype** based on initial results

## Competitiveness

Beyond Captur Co., Ltd. leverages unique electric chemical-based carbon capture technology for CO<sub>2</sub> adsorption.

This approach surpasses traditional liquid or solid carbon capture methods by significantly reducing energy consumption and operating costs. One of the main advantages of Beyond Captur's solution is its **significantly lower operating cost**. By optimizing installation with a modular design, it minimizes capital expenditure.

Beyond Captur's solution is **particularly effective at capturing low-concentration CO<sub>2</sub> emissions and addresses the critical challenge of lowering CO<sub>2</sub> capture costs, setting it apart in the industry.**

## Overview

- Transforming air everywhere
- Destroying airborne viruses, bacteria and VOCs(such as formaldehyde)
- The world's first M/NI nano catalyst technology for the Sustainability

## Achievements

- 2024** Listed at Sharaf DG, UAE  
*\*The biggest retailer in UAE*
- 2023** Selected TIPS and DIPS1000+  
*\*Premium government R&D project*
- 2023** Commendation of Prime Minister  
Presidential economic delegation

## Funding (USD)

**\$4M**

\$150K USD raised seed

Looking for

- Global CVC
- Strategic VC

## Product / Service



- a.wear, our brand, air sanitizer kills airborne viruses, bacteria, VOCs and odors. (not only for PM2.5)
- Existed air purifier can never kills under 0.3 micro meter molecule, but we do.
- AirShield4.0 is modular filter can be applied to Mobility, Appliances, Factory and HVAC for making "Safe-Air"

## Key Personnel



### CEO Dylan Kim

CEO & Founder

2 years, Executive director in India at energy ICT venture.

5 years, COO at energy-saving materials venture.

Representative youth founder of Presidential delegation.

Master's(Mechanic) / Bachelor's(Management)



### Jang-geun Yang

COO

General director of business operation with the sales and marketing experience in LG 15 years



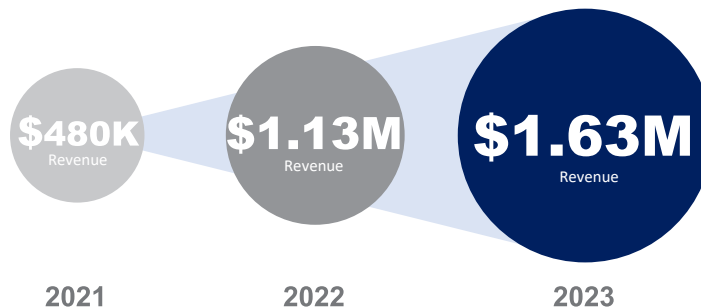
### Hwa-mok Kim

CTO

Tech-based management and photo-semiconductor expert, experience in SeoulSemiconductor 20 years

## Growth

- Revenue (or) User (or) Market



## Milestones

- 1 2024, Listing 2<sup>nd</sup>-Gen product at Crowdfunding for US/Canada market. Portable air sanitizer (Vehicles, Washroom, Baby room and Workspace)
- 2 2024, Expand more retailer starting from Sharaf DG in UAE Distributing 1<sup>st</sup>-Gen product for GCC and MEA expansion
- 3 2025, Launching 3<sup>rd</sup>-Gen product for global expansion Applying AirShield4.0 as B2B model to Mobility/Appliances companies