

Finalists, winners and next steps





We help to solve the biggest challenge of climate innovation adoption

Setting up pilot projects or securing initial deals with corporations poses the greatest challenge for startups. Corporations are often hesitant to purchase from startups due to perceived uncertainty.

However, with increasing pressure to decarbonise, there is growing interest in startup solutions, particularly within the climate sector.

Yet, businesses lack effective discovery tools for sourcing "clean solutions." This is where the Innovation Zero Awards come in, bridging the gap and facilitating connections between startups and corporations.





Innovation Zero Awards in Numbers

6 Categories

- 1. Land & Water
- 2. Measurement, Reporting and Verification (MRV)
- 3. Industry
- 4. Transport & Logistics
- 5. Energy & Power
- 6. Built Environment

216 Qualified applications

9 Streams in each category

In each category, we will have a pool of Mature Solutions (Technology Readiness Level 7+) and Promising Solutions (Technology Readiness Level 4-6).

50 Climate expert Judges

60+ Shortlisted candidates
5-6 candidates in each stream of every category

676 Individual assessments

12 Winners



Land and Water // Mature solutions

Company: Cauli Ltd

• Solution: CauliRS

- WINNER
- https://www.wearecauli.com
- Cauli Reuse System (CauliRS) is decarbonising the catering industry by helping customers source and track reusable food and beverage packaging.

Company: Volta Greentech

- · Solution: Lome feed additive
- https://www.voltagreentech.com
- Lome™ is an advanced highperformance feed supplement for livestock.

Company: Rare Earth Global

- Solution: A Sustainable Innovation for Food, Agriculture, Biodiversity and the Built Environment
- www.rareearthglobal.com
- Our first product is a patented hemp seed formulation used in fish feed, which reduces carbon emissions and replaces deforestation-linked soy.

Company: Hydro Volta

- Solution: SonixED
- www.hydrovolta.com
- SonixED is an advanced desalination technology that combines electrodialysis and ultrasound to efficiently remove dissolved solids from water.

Company: BX Technologies

- Solution: The BX platform
- https://www.bx.tech
- Enabling sustainable agriculture and decarbonising the food supply chain through Al-driven optimisation of farm data

Company: Materra

- Solution: Future-proof Cotton
- materra.tech
- Materra builds solutions to grow and source future-proof cotton — with the data to prove it.



Land and Water // Promising solutions

Company: ShowerKap Ltd

- Solution: ShowerKap
- www.showerkap.co.uk
- A shower valve system smart enough to nudge people in making better decisions, whilst macro-monitoring use of water in the bathroom.

Company: SAGES

- Solution: SAGES make natural dyes from food waste
- https://www.sageslondon.com
- SAGES create natural, biodegradable, non-polluting and non-toxic dyes derived from food-waste.

Company: DRIFT Energy Ltd

- Solution: DRIFT Energy
- https://drift.energy
- DRIFT creates green hydrogen at sea and delivers it globally on the world's first energy harvesting yacht.

Company: CO2CO Ltd

- Solution: Sustainable materials from decarbonising microalgae
- https://www.co2co.earth
- Using carbonisation we have demonstrated the ability to develop sustainable materials such as biobitumen from microalgae.

Company: Hydrogen Refinery

- Solution: Upgrading waste and biogas to hydrogen, ammonia and synthetic fuels
- www.h2refinery.co.uk
- Hydrogen Refinery (H2R) is bringing to market the world-leading and patent protected Plasma Electrolysis System (PES)

Company: Moree

- Solution Reusable Smart Packaging System
- https://www.getmoree.com
- We help food brands ditch single use packaging through our smart reusable packaging.



Measurement, Reporting and Verification (MRV) // Mature solutions

Company: Angara Global LTD

- Solution: DecarbonX
- https://angaraglobal.com
- DecarbonX, a set of Decarbonization— Centered Maintenance solutions that helps reduce the impact of fouling within heat exchangers.

Company: Net0

- Solution: Net0 Profitable Decarbonization Platfrom
- net0.com
- Net0 is a world-leading Al-driven profitable decarbonisation platform

Company: Kamma

- Solution: Back Book Climate Risk Analytics
- kammadata.com
- Using leading-edge address matching and modelling, Kamma's property-level data analysis on the climate risks and opportunities

Company: InQube Innoventures

- Solution: GreenQube
- www.inqube.biz
- End-to-end digitization and MRV backbone for Farmer decision support



Company: SatVu

- Solution: SatVu The World's Thermometer
- 2.https://www.satellitevu.com
- 3.SatVu captures the highest resolution thermal data from space for a safer and more sustainable Farth.



Measurement, Reporting and Verification (MRV) // Promising solutions

Company: GHGBlaze

- Solution: GHGBlaze
- https://ghgblaze.com
- GHGBlaze is the first specialised blockchain-based platform for extractive commodity producers and traders to measure and manage emissions across the value chain.

Company: CircKit

- Solution: CircKit
- https://circkit.com
- An Al/ML-powered Circular design ToolKit (D/SaaS) and Product Life Cycle Management suite (PLM) for professionals in the fashion and clothing industry.

Company: Endava

- Solution: Carbon Intensity of Digital Services
- https://www.endava.com
- Determining the carbon-footprint of digital services, such as of an ecommerce or banking service.

Company: yaiLab

- Solution: Battery analytics and degradation monitoring and forecasting
- https://yailab.com
- Al-powered software that can estimate and predict battery health and degradation for real-world use cases.

Company: ATMO Technologies

- Solution: Project financing for Insetting
- www.atmo.earth
- ATMO is derisking insetting finance and accelerates decarbonisation of supply chains.



Company: ZapienSolar

- Solution: Al Smart Prism Solar Roof Tile
- zapiensolar.com
- We are developing 4 sided glass top
 Prism oblong/sqaure shaped roof tiles,
 ingeniously designed to capture sunlight
 from every conceivable angle



Industry // Mature solutions

Company: Multiverse Computing

- Solution: Singularity
- www.multiversecomputing.com
- Singularity is a platform delivering our own quantum/quantum-inspired solutions to companies to solve Optimization and Al problems

WINNER

Company: Brill Power

- Solution: BESA BP6 X1 Battery Intelligence Platform
- https://brillpower.com
- •Brill Power's Battery Intelligence Platform brings transformational advances in longevity, performance, cost and sustainability to electric vehicles and stationary energy storage.

Company: Net0

- Solution: Net0 Profitable
 Decarbonization Platfrom
- net0.com
- Net0 is a world-leading Al-driven profitable decarbonisation platform

Company: Heidelberg Materials UK

- Solution: Bay Hydrogen Hub
- https://www.heidelbergmaterials.co.uk/e
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- This project seeks to employ company knowledge to demonstrate the use of hydrogen as fuel in asphalt production in the world's first trial of its kind.

Company: In2Tec

- Solution: ReUSE® and ReCYLE™
- www.in2tec.com
- ReUSE® is a comprehensive suite of materials, manufacturing processes, and proprietary design techniques facilitating the production of fully unzippable printed circuit boards



Industry // Promising solutions

Company: Sonichem Technologies

- Solution: Sonichem
- https://sonichem.com
- Sonichem is pioneering an innovative ultrasonic biorefinery technology that transforms forestry by-products into valuable, bio-based chemicals.

Company: Reblade ApS

- Solution: Valkyrie: A flying repair factory for wind turbine blades
- https://reblade.dk
- · We lower the cost of wind energy by a drone-based solution for automated repairs of eroded wind turbine blades

Company: Electrogenos Ltd

- Solution: Ground-breaking alkaline electrolyser stacks
- www.electrogenos.co.uk
- We produce drastically more hydrogen for a lot less CAPEX and less OPEX

Company: Nuada

- Solution: Nuada's MOF-based VPSA Carbon Capture solution WINNER
- https://nuadaCO2.com
- Nuada builds energy-efficient filtration machines that capture CO2 from industrial off-gases to decarbonise hard-to-abate sectors.

Company: SAGES

- Solution: SAGES make natural dyes from food waste
- https://www.sageslondon.com
- SAGES create natural, biodegradable, non-polluting and non-toxic dyes derived from food-waste.

Company: Immaterial Ltd

- Solution: Lowest Cost Carbon Capture Monolithic MOFs
- https://nuadaCO2.com
- •We have created a technology for producing advanced materials, integrated with conventional engineering designs to deliver carbon capture systems



Transport & Logistics // Mature solutions

Company: Hubl Logistics Ltd

- Solution: CoolRun System
- www.coolrun.co.uk
- CoolRun revolutionises temperaturecontrolled logistics, replacing traditional chiller units with modular, tracked, insulated containers with zero refrigeration emissions

Company: FLIT

- Solution: FLIT M2 Folding Ebike
- https://flit.bike
- The FLIT M2 is a folding ebike designed for urban commuters that is small enough to fit in a train luggage rack

Company: Sunswap Ltd

- · Solution: Sunswap Endurance
- www.sunswap.co.uk
- Sunswap Endurance is a purpose-built, zero direct emission transport refrigeration unit powered by batteries and solar panels.

Company: InQube Innoventures Limited

- · Solution: GreenQube
- www.inqube.biz
- End-to-end digitization and MRV backbone

Company: Trojan Energy Limited

- Solution: Trojan Energy Charging System
- www.trojan.energy
- A system for on-street residential charging, that minimises street clutter and leaves no residual presence when no car is charging

Company: Heidelberg Materials UK

- Solution: CarbonLock BioAsphalt
- •https://www.heidelbergmaterials.co.uk/en
- Heidelberg Materials UK developed bioasphalt, reducing carbon emissions by 25% by incorporating a biogenic binder in place of traditional bitumen binder.



Transport & Logistics // Promising solutions

Company: water stuff & sun GmbH

- Solution: H2 battery (SFEERS) Energy Storage System
- https://www.waterstuffandsun.com
- SFEERS are tennis ball-sized spherical carbon fibre tanks for gaseous hydrogen with a microvalve system that regulates the hydrogen

Company: Flux Aviation

- Solution: FLUX-75
- https://www.fluxaviation.com
- FLUX-75 is an electric propulsion system designed for light training aircraft.



Company: Optimal Cities Ltd

- Solution: Optimal Cities
- https://optimalcities.com
- Optimal Cities is the World's City Planning Companion, leveraging GeoAl and satellite intelligence to enable urban planners, developers and authorities to make cities that heal.

Company: Avioxx Limited

- Solution: The Avioxx Process
- https://www.avioxx.co.uk
- The Avioxx Process is an innovative engineering solution to lower the environmental and economic costs of producing aviation fuel from household municipal waste.

Company: FLIMAX Ltd

- Solution: FLIMAX battery-electric aircraft
- www.flimax.ltd
- FLIMAX is an electric aircraft company that plans to be a major player in the zero-carbon aircraft revolution.



Energy and Power // Mature solutions

Company: Naked Energy Ltd

- Solution: Virtu
- https://nakedenergy.com
- Naked Energy manufactures two solar thermal collectors (VirtuHOT and VirtuPVT) which are the highest energy density solar appliances on the market.

Company: Rendesco Ltd.

- Solution: Rendesco Ground Source Heat Networks
- https://www.rendesco.com
- Funded, heat-pump-based heat networks which provide commercial and domestic developments with low-cost, low-carbon heating, cooling, and domestic hot water as a service

Company: GeoPura

- Solution: HPU hydrogen-powered generator
- www.geopura.com
- GeoPura HPU technology harnesses green hydrogen to provide zeroemission electricity, augmenting the grid where the local supply is insufficient

Company: Kensa Group

- Networked Ground Source Heat Pumps
- https://www.kensaheatpumps.com
- Networked Ground Source Heat Pumps ease the transition to low-carbon heating at a scale akin to the gas grid.

Company: Multiverse Computing

- Solution: Singularity
- www.multiversecomputing.com
- Singularity is a platform delivering our own quantum/quantum-inspired solutions to companies to solve Optimization and AI problems



Energy and Power // Promising solutions

Company: RFC Power Ltd

- Solution: Manganese flow battery
- www.rfcpower.com
- RFC Power's manganese flow battery uses low cost, widely available materials to deliver the long duration energy storage solution required by a net-zero energy system.

Company: VOLTQUANT

- · Solution: Grid Search Platform
- www.voltguant.com
- VOLTQUANT aims to reduce the 15-year delay in connecting net-zero projects to the grid, facilitating a quicker transition to clean energy.

Company: Hydrogen Refinery

- Solution: Upgrading waste and biogas to hydrogen, ammonia and synthetic fuels
- www.h2refinery.co.uk
- Hydrogen Refinery (H2R) is bringing to market the world-leading and patent protected Plasma Electrolysis System (PES)

Company: Carbon Re

- Solution: Delta Zero
- https://carbonre.com
- Delta Zero® is an Al-powered optimization software solution designed for the cement industry.

Company: Camfridge Ltd.

- Solution: Netzero Magnetic Cooling
- https://camfridge.com
- Magnetic cooling technology that helps cut the carbon intensity of cooling to meet NetZero goals, whilst reducing costs and enhancing sales



Built Environment // Mature solutions

Company: Naked Energy Ltd

- Solution: Virtu
- https://nakedenergy.com
- Naked Energy manufactures two solar thermal collectors (VirtuHOT and VirtuPVT) which are the highest energy density solar appliances on the market.



Company: ZED PODS Limited

- Solution: The UK's truly affordable, zerocarbon, high-quality modular housing solution
- www.zedpods.com
- Our solution addresses social inequality in housing and contributes to climate change mitigation through its zero operational carbon design

Company: Rendesco Ltd.

- Solution: Rendesco Ground Source Heat Networks
- https://www.rendesco.com
- Funded, heat-pump-based heat networks which provide commercial and domestic developments with low-cost, low-carbon heating, cooling, and domestic hot water as a service

Company: Kensa Group

- Solution: Networked Ground Source Heat Pumps
- https://www.kensaheatpumps.com
- Networked Ground Source Heat Pumps ease the transition to low-carbon heating at a scale akin to the gas grid.

Company: Adaptavate

- Solution: Breathaboard
- https://adaptavate.com
- Breathaboard is a bio-based, carbon sequestering alternative to plasterboard.



Built Environment // Promising solutions

Company: Optimal Cities Ltd

- Solution: Optimal Cities
- https://optimalcities.com
- Optimal Cities is the World's City Planning Companion, leveraging GeoAl and satellite intelligence to enable urban planners, developers and authorities to make cities that heal.

Company: VOLTQUANT

- Solution: Grid Search Platform
- www.voltquant.com
- VOLTQUANT aims to reduce the 15-year delay in connecting net-zero projects to the grid, facilitating a quicker transition to clean energy.

Company: Seratech

- Solution: Seratech
- https://www.seratechcement.com
- Seratech's technology focuses on decarbonising cement and creating building materials made from CO2 emissions in a circular process.

Company: Natural Building Systems

- Solution: ADEPT®
- https://naturalbuildingsystems.com
- ADEPT combines low embodied-carbon materials with modern construction methods to transform the industry.

Company: Carbon Re

- Solution: Delta Zero
- https://carbonre.com
- Delta Zero® is an Al-powered optimization software solution designed for the cement industry.



Next Steps

Catalogue of green solutions

Our online database of green solutions will be available year-round, equipped with search and filter functions for seamless navigation. Serving as a vital discovery tool for sustainable procurement managers, it will feature prominently the Innovation Zero Awards applicants. Listing in the catalogue will be free for developers of climate-friendly green solutions.

Going global

Innovation Zero Awards
can be extended to other regions,
e.g. the Middle East and/or the US

New formats

We intend to experiment with new formats to help connect climate innovators, sustainable corporate buyers and investors. From matchmaking sessions, roadshows and trade missions to technology challenges and targeted panels, we're open to experimentation. If you're interested in collaborating, let's chat!



Thank you!

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