What goes up,
must come down.

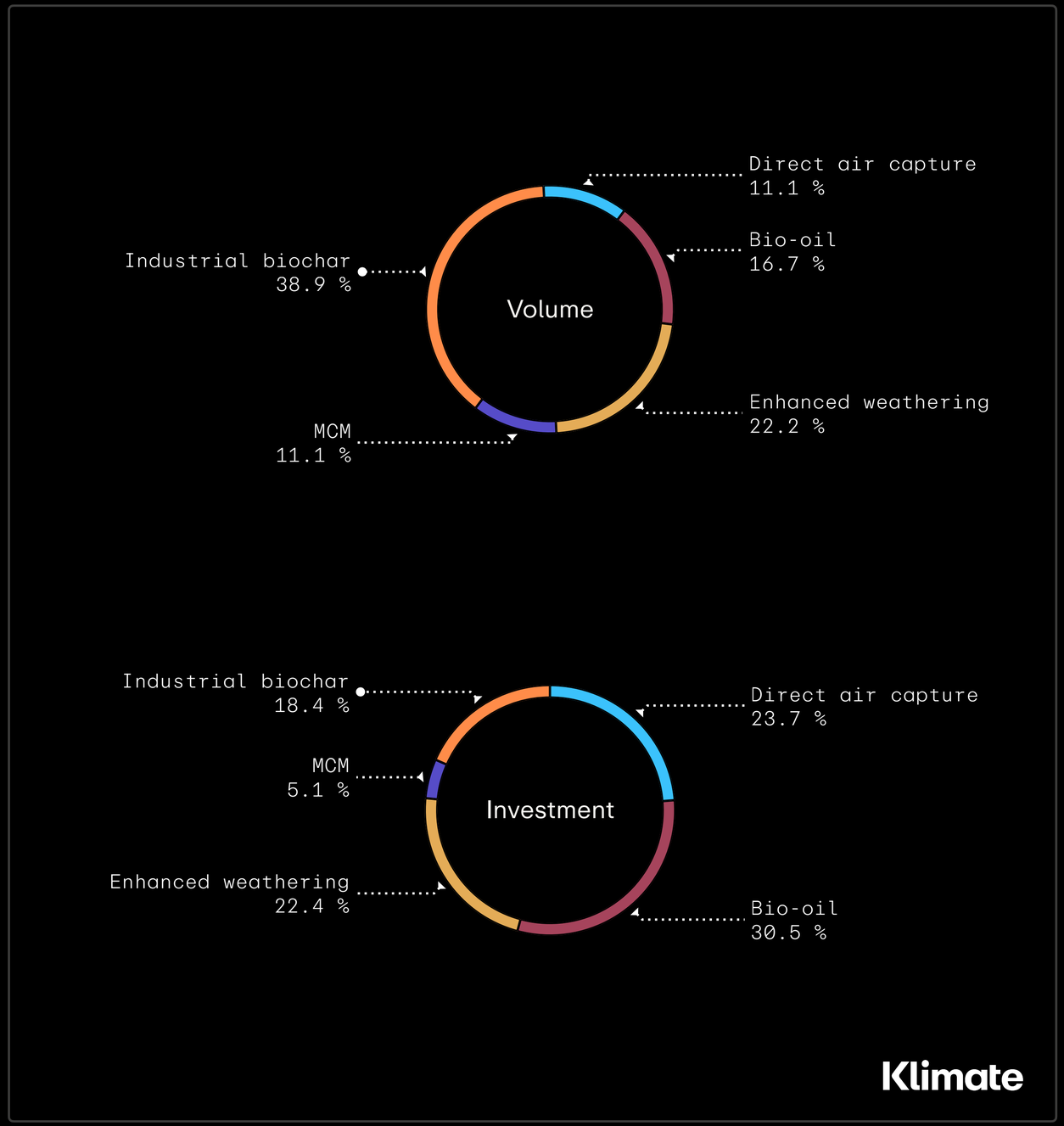
Travalyst
’24 Emissions

Klimate

PORTFOLIO DETAILS

Travalyst ’24 Emissions

Climate Impact	81/100
Co-benefits	52/100



Klimate

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Projects in Travalyst's portfolio

Klimate works with projects across nine different methodologies including both nature-based, hybrid, geochemical, and technical solutions.

KLIMATE PARTNERS WITH PROJECTS ALL ACROSS THE WORLD. EACH DOT DENOTES A SELECTED PROJECT LOCATION.

Klimate

PROJECTS

OCTAVIA CARBON

REMOVAL METHOD

Direct air capture

CERTIFICATION

Puro.earth (In progress)

LOCATION

🇰🇪 Kenya

FOUNDED

2022

Aiming to sequester one megatonne of CO_2 by 2028, Octavia Carbon is the Global South's first Direct Air Capture (DAC) company. They design, build, and deploy modular DAC machines in Kenya.

Octavia's modular DAC components utilise renewable & geothermal energy (> 92% of Kenya's grid), eliminating a major source of operational emissions. However, DAC has limited external environmental benefits and high costs compared to other methods. Captured carbon is stored for millennia, utilising Kenya's geological storage conditions.

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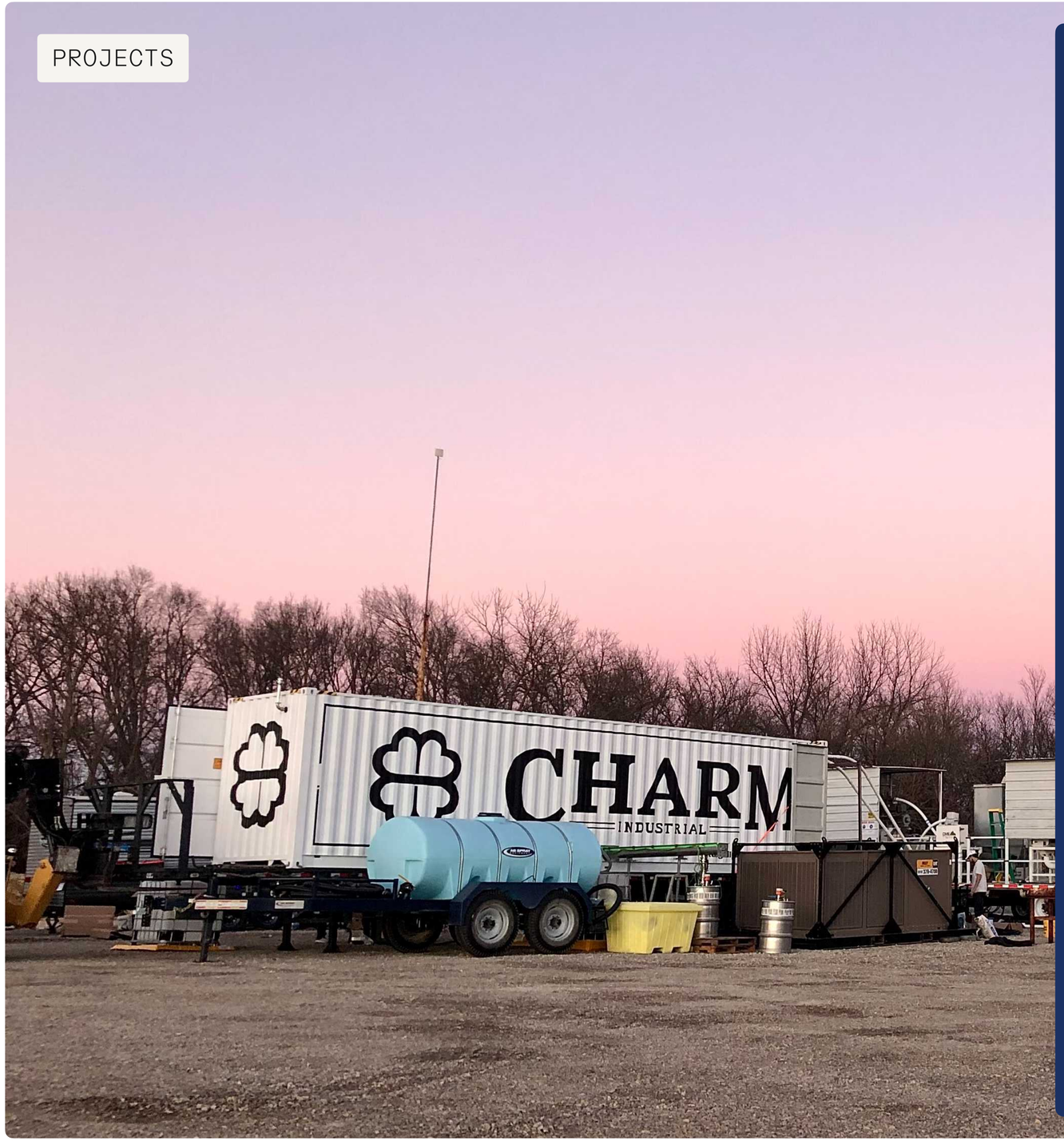
PROJECTS



CHARM INDUSTRIAL

REMOVAL METHOD

Bio-oil

CERTIFICATION

Isometric

LOCATION

🇺🇸 United States

FOUNDED

2018

Charm Industrial sequesters carbon for 1000+ years by injecting their biomass based bio-oil into geological reservoirs. Unlike biochar, which is the solid product of pyrolysis, bio-oil is produced by condensing gases during the fast pyrolysis process. Charm uses moisture rich feedstock to maximize bio-oil production.

While there are limited external environmental benefits and high costs, bio-oil is a highly additional and permanent hybrid (nature/engineered) method.

Charm is certified by Isometric and lists their credits on their registry. There is a large potential for upscaling bio-oil production despite high costs and potential biomass shortages.

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PROJECTS

InPlanet

PROJECT NAME

Aracari

REMOVAL METHOD

Enhanced rock weathering

CERTIFICATION

Isometric (In progress)

LOCATION

🇧🇷 Brazil

FOUNDED

2022

InPlanet durably removes carbon and stores it in soil for tens of thousands of years through enhanced rock weathering.

InPlanet spreads finely ground basalt rocks to accelerate the natural chemical reactions that capture carbon and store it as stable bicarbonate.

InPlanet works hand-in-hand with farmers to restore degraded soils and improve crop health through the substitution of synthetic fertilisers and Aglime with natural rock powder.

Klimate

PROJECTS

andes

REMOVAL METHOD

Microbial carbon mineralization

CERTIFICATION

Gold Standard (In progress)

LOCATION

🇺🇸 United States

FOUNDED

2021

Andes Bio's novel methodology turns CO_2 into minerals by applying microorganisms to agricultural fields in the U.S., locking away carbon for millennia. These microbes help accelerate a reaction between the carbon dissolved in rain water with elements in the soil, like calcium, to create carbonate minerals that sink deeper into the soil. After successive events, the carbonate moves into the water table which then exits into rivers and lakes, which ultimately reaches the oceans.

Despite utilising a novel methodology, Andes had it validated by Earthood, an accredited auditor, and uses a blockchain based registry to ensure transparency and prevent double counting.

Andes is aspiring to reach megaton scale in the coming years and gigatonne scale by 2035.

Read more

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PROJECTS

Bio Logical

REMOVAL METHOD

Industrial biochar

CERTIFICATION

Puro.earth

LOCATION

🇰🇪 Kenya

FOUNDED

2022

Bio-Logical produces biochar from macadamia nut waste in Kenya.

Their first facility will support over 100,000 smallholder farms in the local area.

Biochar can sequester carbon for over 100 years once applied to soil.

It also reduces nutrient leaching, increases soil health, and reduces soil acidity. Bio-Logical uses state-of-the-art MRV technology to monitor the project on a continuous basis.

Read more

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PROJECTS

Carboneers

PROJECT NAME

High Tech Biochar

REMOVAL METHOD

Industrial biochar

CERTIFICATION

Isometric (Pending)

LOCATION

🇮🇳 India

FOUNDED

2025

Carboneers and Terrafront have partnered with smallholder farmers in Assam, India, to produce biochar from paddy straw waste streams, preventing the release of greenhouse gases and removing CO_2 from the atmosphere for at least 1000 years.

Using a centralized process, the high-tech pyrolysis facility has been setup to maximize biochar yield and quality. The process ensures emissions control, efficiency, quality, and operator safety.

The biochar is mixed with manure or compost and is transported back to the farms.

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