



# Traceability

CDR credits

## Introduction

When considering investing in Carbon Dioxide Removal (CDR) credits, we recommend that you examine whether the credits have been independently certified and are therefore valid.

In this PDF, we demonstrate how we will document the carbon dioxide (CO<sub>2</sub>) storage process and track the CO<sub>2</sub> from its origin to its final storage, ensuring you have the transparency and documentation you need.

There are several certification bodies on the market. Since January 2026, Bigadan has been working with the certification body Isometric. Isometric sets a range of standards and requirements for documentation throughout the entire value chain – from the origin of the biomass on which the stored CO<sub>2</sub> is based, to how the CO<sub>2</sub> is measured, documented, and permanently stored. The certification helps ensure traceability and transparency across Bigadan's CO<sub>2</sub> storage projects.



## Isometric's Verification Process

Isometric does not support all forms of CO<sub>2</sub> removal. Some of their key selection criteria include scientific measurability, long-term storage of CO<sub>2</sub> (at least 100 years), and scalability maturity, meaning the methods must not have unresolved challenges that prevent large-scale industrial implementation.

Isometric works with independent third parties that verify all suppliers' claims of net-negative emissions in connection with removal certificates. The verification process consists of three stages:

### 1. Initial Evaluation

Before verification begins, all suppliers must declare that their production is net CO<sub>2</sub>-negative and provide documented proof of their productions' CO<sub>2</sub> footprint — such as an Environmental Product Declaration (EPD) or a Life Cycle Assessment (LCA).

### 2. Methodology Compliance Review

Compliance with Isometric's methodologies requirements are audited by independent verifiers trained by Isometric. These auditors visit the production facility, validate data accuracy, and issue an audit report. To maintain independence, verification costs are covered by Isometric rather than the supplier.

### 3. Issuance of CO<sub>2</sub> Removal Certificates

After verifying the volume of carbon removed and stored, CO<sub>2</sub> removal certificates are issued for each metric ton of CO<sub>2</sub> that is permanently stored.

All CO<sub>2</sub> removal certificates are issued and recorded in Isometric's registry to avoid the risk of double counting. Isometric's methodologies are recommended by the ICROA Code of Best Practice and Nasdaq.

### About Isometric

Isometric is the world's leading carbon removal registry, issuing scientifically validated carbon removal credits that enable companies to meet their climate commitments reliably. Companies such as Google, Meta, JPMorganChase, McKinsey, and Microsoft use Isometric to avoid greenwashing and to fight climate change.

## FAQ

### How is it monitored that the CO<sub>2</sub> stays underground?

INEOS follows a comprehensive monitoring program developed in accordance with the requirements of the Danish Energy Agency. This program ensures full control of CO<sub>2</sub> movement underground and enables rapid detection and response should any leakage occur. Monitoring includes pressure and seismic measurements as well as marine environmental surveillance. Additionally, DNV (Det Norske Veritas) acts as an independent third-party verifier to ensure all procedures comply with ISO standards for safe CO<sub>2</sub> storage.

### How do we minimise the risk of leakage from the Esbjerg storage site?

Procedures and control systems are in place to ensure safe CO<sub>2</sub> handling at the Esbjerg facility. Bigadan has inspection access to the site, and INEOS is required to pay CO<sub>2</sub> quotas for any potential emissions. Measuring equipment monitors the CO<sub>2</sub> — including its quality — before it enters intermediate storage, ensuring stable and safe operation and minimising the risk of release due to contamination.

### Is transport-related CO<sub>2</sub> included in the CDR credit accounting?

From our CO<sub>2</sub> liquefaction facility at Kalundborg Bioenergy, approximately 800 truck trips are required annually to transport 25,000 tons of biogenic CO<sub>2</sub> to Esbjerg. Trucks will use biogas fuel to reduce CO<sub>2</sub> impact, and the carbon footprint from transport and related activities will be deducted from the CDR credits.

### Can the CO<sub>2</sub> removal and storage process be manipulated or bypassed?

No. During biogas upgrading for the gas grid, we separate and capture CO<sub>2</sub> while injecting methane into the grid. From 2026, we will purify, compress, and cool the CO<sub>2</sub> to between -17°C and -27°C, converting it into liquid form for safe transport and storage. This results in a net-negative carbon balance for the atmosphere. Isometric's inspectors will also document this process.

**Will there be CO<sub>2</sub> emissions when connecting the plant to the truck?**

Independent inspectors appointed by Isometric will document this process. The connection system is designed for smooth transfer, though minimal CO<sub>2</sub> release can occur when disconnecting the hose. This loss is offset in the CDR credit calculation using a standard value.

Have more questions about the process? Don't hesitate to contact us.

## Kalundborg Bioenergy – A Pioneer in CO<sub>2</sub> Storage

Kalundborg Bioenergy, part of Bigadan, will be one of the first biogas plants to capture and permanently store biogenic CO<sub>2</sub>, beginning in 2026. By implementing Bioenergy with Carbon Capture and Storage (BECCS), the plant will achieve a net-negative CO<sub>2</sub> footprint. Bigadan already has extensive experience capturing CO<sub>2</sub> and supplying it for use across multiple industries.

The plant primarily processes organic residues from Novo Nordisk and Novonosis—by-products from enzyme and insulin production—together with organic waste such as manure.

Converting these biomasses into bioenergy prevents the release of greenhouse gases such as methane and CO<sub>2</sub> while maximising resource efficiency and promoting the circular economy.

The biogenic CO<sub>2</sub> will be transported by bio-CNG trucks to Esbjerg Port and shipped to the Nini Field in the North Sea, where it will be permanently stored in a former oil reservoir as part of Project Greensand, operated by INEOS Energy Denmark.

At Kalundborg Bioenergy, we capture and store biogenic CO<sub>2</sub> permanently, removing it from the carbon cycle through geological storage for hundreds of years—thus contributing to global efforts to reduce greenhouse gases in the atmosphere.

## A Strategic Partner in Green Energy and CO<sub>2</sub> Reduction Since 1982

For more than four decades, Bigadan has driven sustainable change. As owners of the entire value chain, we offer our partners full transparency and traceability.

Our focus is to contribute to a greener footprint across sectors — from heavy transport and industry to the management of complex waste streams.

Learn more at: [www.bigadan.com](http://www.bigadan.com)



## How Can We Support You?

Do you have further questions, or would you like to learn more about what CDR credits can do for your organisation?

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A strategic partner in non-fossil energy and CO<sub>2</sub> reduction since 1980.  
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