

Project 3229

Methane Capture and Power Generation

Netherlands

Selected by Carbon Neutral Britain - project 3229 showcases a prime example of circular and sustainable agriculture in the Netherlands. Located across the most southerly regions of the country, a collective of 30 Dutch farmers are able to capture methane from manure via biogas plants funded through offsetting climate finance. The project not only reduces emissions of this potent greenhouse gas through storage, but also avoids the use of fossil fuels and generates green electricity. As a fully circular process: residual heat is utilized, and the by-product after fermentation is then used as an alternative to chemical fertilizers for plant nutrition.



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



15 LIFE ON LAND



13 CLIMATE ACTION



Carbon Neutral Britain Project 3229 - Methane Capture and Power Generation - is one of Europe's first and leading verified agricultural offsetting projects, involving 30 dairy and agro-pig farms in the Netherlands. By installing biogas systems, the farms are able to avoid disposing manure on local fields, to comply with government-imposed nitrogen absorption limits.

Funding through carbon offsetting ensures greenhouse gas reductions through the installation of biogas plants for these farmers. One of the first in Europe, project 3229 enables businesses to operate in an environmentally sustainable manner while demonstrating that both circular practices, and regulatory compliance, are possible.

In 2025, approximately 70% of greenhouse gas emissions from Dutch agriculture come from livestock farming, primarily due to methane emissions from animal manure. Like CO₂, methane is a greenhouse gas that contributes to global warming, but it is 28 times more potent, retaining significantly more heat.

Via this project, manure is stored airtight as quickly as possible to prevent methane from entering the atmosphere, thus avoiding large greenhouse gas emissions.



Via project 3229, once manure is stored in the biogas plants, a fermentation process is then used to generate electricity, which is fed into the Dutch national power grid, avoiding further fossil fuel combustion for power within the region.

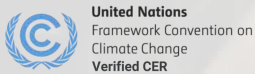
The project is fully circular, connecting livestock farms, arable farming, food industry waste, and biogas production in a closed loop. The digestate (the residual product after fermentation) from the biogas plant is processed and sold as plant food to replace artificial fertilisers.

At its core, the project supports sustainable milk production, with cattle feed primarily sourced from the farm's own land, while pigs are fed corn supplemented with suitable by-products from the beverage and food industries.





Credits Issued from one or more of the International Carbon Offsetting standards:



AAA

Rated Carbon Credit Project

This Project is a Verified Carbon Offsetting Project, selected by Carbon Neutral Britain™, which has undertaken Independent Project Validation and Assurance on quality, outcomes, and performance

As the UK's Leading Carbon Offsetting provider - Carbon Neutral Britain has completed industry leading Independent Project Validation and Assurance for this project, and all projects are supported via the Climate Fund™ portfolio.

Following our mission to provide the Best Value, Biggest Impact, Most Transparency, and Upmost Quality and Assurance of projects supported, validation ensures all projects have a real and lasting impact on Climate Change. This is achieved via three layers of assessment.

First - this, and all projects utilised must be audited and approved via the United Nations CER, Verra, or Gold Standard Mechanisms. As the three largest, and most regulated carbon offsetting standards in the world - this ensures the measurements, and tonnes of CO₂e offset are accurate, and verified by these third parties (with public audits available for each project).

Second - Carbon Neutral Britain selects projects based on the 'secondary' benefits, such as helping to provide education, employment, clean water, energy, or have a positive impact on the local wildlife and ecology (for nature-based projects). Carbon Neutral Britain ensures all projects align with United Nations Sustainable Development Goals - which are listed within this project pack.

Third - all projects are Independently Validated, completing due diligence on the audits completed via the applicable corporate standard.

Above and beyond the requirements of the United Nations CER, Verra, and Gold Standard Mechanisms, Validation Independently Assesses each project, and only AAA Rated Carbon Credit Projects are utilised within the offsetting portfolio's provided by Carbon Neutral Britain. An AAA Project Rating is achieved via the successful completion of the 6 steps below.

1

AUDIT REVIEW - ENHANCED ADDITIONALITY ASSESSMENT

In addition to the additionality assessment completed via the applicable mechanism, enhanced additionality assessments are completed for each project supported.

Enhanced assessment provides further assurance that the offsetting project can only occur as a result of climate finance.

2

AUDIT REVIEW - UNFCCC CRITERIA FOR PROJECT QUALITY

In addition to the audit completed via the applicable mechanism, each project is assessed alongside the IPCC criteria for offsetting project development.

In addition, each project is reviewed alongside the UNFCCC criteria for carbon offset project quality.

3

PROJECT CATEGORY RESTRICTION

Complete assurance over emissions avoidance or capture are required for the highest rating credit.

As a result, projects are selected from a filtered list of project categories, to ensure no REDD or REDD+ (Reducing emissions from deforestation and forest degradation) projects are utilised.

4

SATELLITE, AI AND REMOTE SENSING REVIEW

Independent validation of project development and outcomes are reviewed via satellite, AI, and/or remote sensing - where applicable.

Tree planting and reforestation sites can be remotely tracked and reviewed (alongside surrounding areas), to ensure optimal carbon capture has occurred.

5

DURABILITY AND PERMANENCE ASSESSMENT

Permanence of each project is evaluated to ensure emissions avoidance or capture last for 100 years or more.

Durability is also assessed for direct air capture and enhanced weathering projects, where permanence can be assured for hundreds of years via technological solutions.

6

CONTINUOUS PROJECT MONITORING

The highest credit rating requires continuous monitoring of each project to ensure it will deliver the expected emissions reductions over time.

In addition, continuous monitoring ensures issues and deviations of emissions reporting are addressed throughout the crediting period.