





Carbon credits certification for the Voluntary Carbon Market



Sister companies working together for a sustainable future

Globally leading certification system for climate friendly and climate neutral coffee.



The world's leading certification system for sustainability and GHG emissions





Certification system for high-quality carbon credits

Sustainability & Climate Protection!

5 for



Leading edge consultancy in renewable energy, sustainability and climate protection



Risk assessments and verifications of Deforestation-free supply chains, via remote sensing



Zero emissions targets are being adopted by many companies



Unilever aims to achieve zero carbon emissions across its operations by 2030 through significant emission reduction and offsetting through carbon credits. Unilever pilots SAP blockchain tech for deforestation-free palm oil: 'This will be transformational for smallholder inclusion'

At Nutella[®], in conjunction with our partners, NGOs and other institutions, we are deeply committed to selecting only quality ingredients that respect our commitment to sustainability, both social and environmental.

NESTLÉ'S NET ZERO ROADMAP



Our approach to sourcing palm oil that is sustainable and deforestation-free

Starbucks announces multidecade aspiration to become resource positive

FERRERO

Ferrero targets nature net-gain and 'fully transparent' supply chain under new palm oil strategy

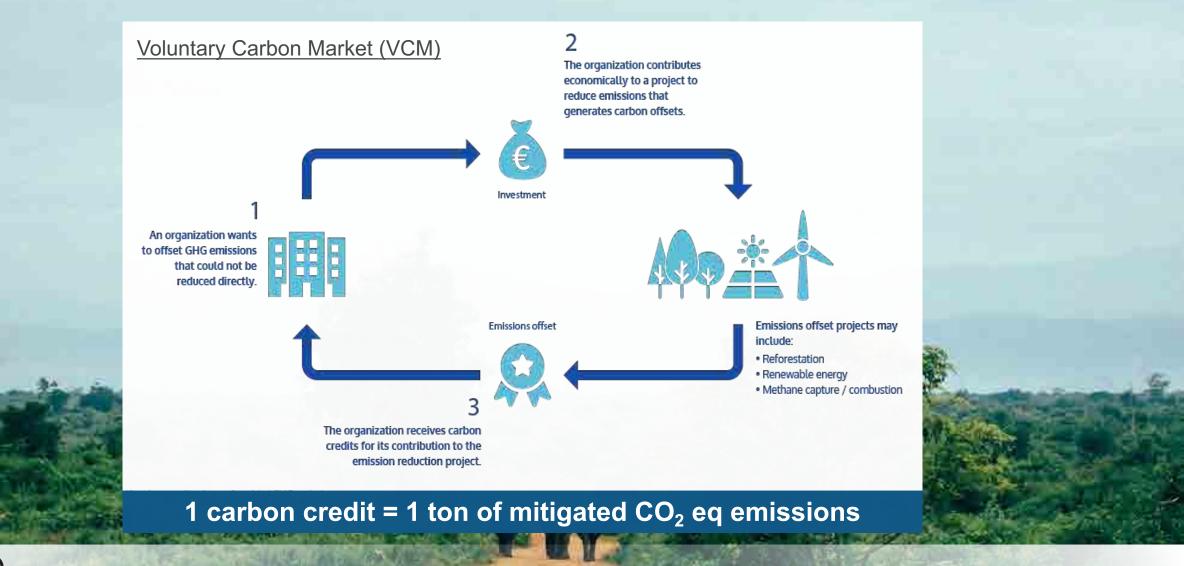
Ferrero's climate goals receive Science Based Targets validation



Pepsico Pledges Net-Zero Emissions By 2040



Carbon offsetting - main policy instrument to combat climate change





Basic requirements and CCP for the certification of high quality carbon credits



Additionality

The GHG emissions mitigation is not occurring in the absence of the incentive created by carbon credits' revenue



No double counting

GHG emissions mitigation is only counted once towards achieving reduction targets



Permanence

The GHG emissions mitigation is permanent, and in case of risk - fully compensated



Robust independent validation and verification

The offsetting project undergoes independent third-party validation and verification



Reliable quantification of emission reductions and removals

The GHG emissions mitigation is robustly quantified, based on conservative approaches, completeness, and sound scientific methods.



Co-benefits

The offsetting project is going beyond GHG emissions mitigation, contributing to SDGs, biodiversity enhancement, and bringing positive social impact.

Green-washing free carbon offsetting should meet those requirements!





Examples of activities that generate carbon credits for the VCM



Nature-based

- Soil carbon accumulation
- Carbon farming
- Reforestation & afforestation
- Sustainable forest management and restoration of forest ecosystems
- Rewetting and/or restoration of peatland
- Blue Carbon (mangroves restoration)

· . .



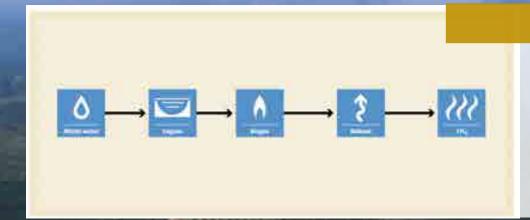
Tech-based

- Methane capture from Palm Oil wastewater
- Co composting of EFBs
- Energy efficiency
- Renewable energy
- Solar PV installation for health care in remote areas
- CCU & CCS

. . .

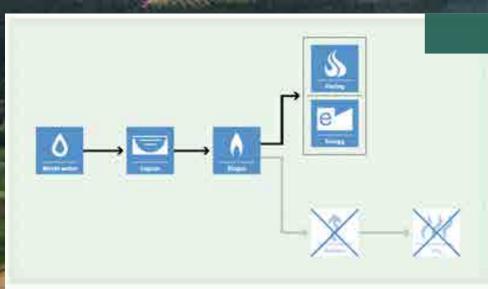


Methane capture - Technology applicable in the the project



Baseline Scenario

- Treatment of discharged POME is happening in open anaerobic lagoons.
- Methane (CH₄) from the decay of organic matter in wastewater or sludge is emitted into the atmosphere.

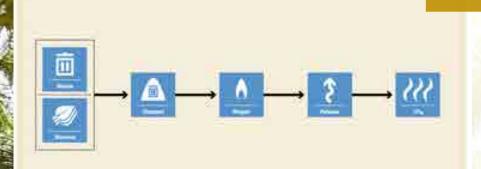


Project Scenario

- CH₄ is captured due to the introduction of new of wastewater or sludge treatment system, and the GHG emission avoided.
- Project installs covered lagoon or anaerobic digester
- Biogas electricity generation or/and biogas flaring.

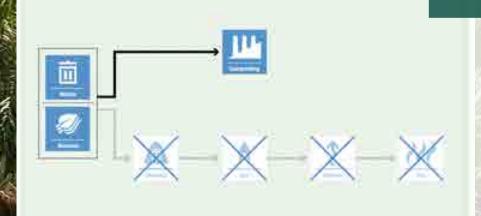


Co-Composting of EFB – Technology applicable in the the project



Baseline Scenario

EFB and other organic matter are left to decay (e.g. mulching) and CH₄ is emitted to the atmosphere.



Project Scenario

- Controlled biological treatment of EFBs through aerobic treatment by composting and proper soil application of the compost to plantations
 - CH₄ emissions are avoided through composting.
 - The use of compost reduces inorganic fertilizers.



Nature-based pilot projects (I)



Soil carbon accumulation in agriculture

- Aim: permanently removing carbon and storing it in agricultural soils
- How: implementing advanced agricultural practices to enhancement of soil health (e.g., regenerative agriculture/carbon farming)

SDGs











- Aim: Increasing/restoring soil carbon stock
- How: using biochar as soil amendment
- Biochar is a carbon-rich material made from biomass feedstock (e.g., woody residues) through pyrolysis

SDGs











Nature-based pilot projects (II)



Restoration of peatlands

- Aim: restoration of peatlands and restoration of carbon sink
- How: through rewetting of drained peatlands or through sustainable water management
- Peatlands are one of the largest natural terrestrial carbon sinks with a great potential for climate change mitigation





Restoration of forest ecosystem services

- Aim: restoration of degraded or overexploited forests to restore ecosystem services and the well-being of local communities.
- How: through sustainable forestry management

SDGs









Technology-based pilot projects



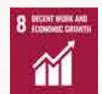
Electrification of remote areas

- Aim: providing renewable energy to public buildings and health care structures in remote areas of underdeveloped countries
- How: installing solar panels and providing renewable electricity

SDGs













Carbon Capture Utilization and Storage (CCU & CCS)

- Aim: capturing CO2 and utilizing it or storing it in the geologic formation such as oil/gas reservoirs, saline aquifers, or unmineable coal seams.
- Example: capturing CO2 within the constructional building blocks by up-taking it during the concrete curing process.

SDGs







How can Meo Carbon Solutions support?

Supporting the certification of carbon credits

- Addressed to *project developers* who have an offsetting project idea
- Project feasibility study
- Support in preparing **certification documents** (PDD, concept note, etc)
- Interaction with ClimatePal





- 1. Feasibility study and check on requirements and CCP
- 2. Development of an ad-hoc methodology
- 3. GHG emission calculation and carbon credits estimate
- 4. Support throughout the certification procedure

Trading carbon credits

- Addressed to clients interested in offsetting their emissions (offsetters)
 - Transparent transaction of credits in standards registries (retirement)
- High-quality carbon credits, in line with THE INTEGRITY COUNCIL Integrity Council for the VCM

Compensation certificate reporting company name, amount of carbon credits purchased and transaction unique serial number

Do you have a project idea to be certified? Contact us!





A quick certification is possible thanks to the interaction between MCS ClimatePal. Transparency is ensured by a third party verification



Indipendent consultancy service

- GHG accounting
- Sustainability consultancy
- Project management

Carbon trading platform

MEO acts as reseller

Support to project developers in:

- → Setting projects' framework
- Development of certification documents
- Marketing of the ClimatePal credits



Standard for offsetting projects certification

- High-quality carbon credits
- Co-benefits

Registry*
For transparent certification

* Accounts for project developers and resellers



MCS support activities to ClimatePal certification steps

→ Opening an account in → Support in marketing → Conduction of the → Support in **Feasibility Study** the ClimatePal registry **Monitoring Report** and selling of issued credits through the and support in its further development → Calculation of the administration MEO trading platform GHG baseline, → Review of **Verification Report** → Support in the project emissions and → Development and carbon credits submission of the prepared by VVB retirement of sold generation **Project Design** carbon credits **Document** to ClimatePal Proposal Step 3 - Third- Verification 5 – Issuance Preparation stage Post certification stage of project Idea of carbon credits of PDD party validation → Development of the → Support addressing → Support in the **Project Concept** the public comments issuance of generated Note and submission carbon credits → Review of Validation of it to ClimatePal Report prepared by → Marketing of carbon (VVB) credits

→ MCS supports project developers in making the certification procedure easy, smooth and transparent





We are looking forward to hearing about your project ideas!



Dr. Claudia Bulgheroni Email: bulgheroni@meo-carbon.com Hohenzollernring 72, 50672 Cologne