



SUSTRAINY

Sustainable action Training for Youth



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SUSTRAINY PROJECT



PANORAMA OF SUSTAINABLE BUSINESSES PRACTICES

LOW CARBON
DAIRY
PRODUCTION

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Low Carbon Dairy Production



Picture from Aquaservice

Category – Key words	Dairy farming, fight against climate change, renewable energy, sustainable development goals, affordable and clean energy, responsible consumption and production, partnerships for the goals
Who?	Arla - farming and dairy company. Associated farmers and supply chain
Location	Viby, Denmark and associated farms in north Europe
Years of implementation	2005 - ongoing
Website	https://www.arla.com/



Abstract

Arla is one of the world's largest dairy producers. They felt a sense of responsibility to contribute to a better future for generations to come by reducing their impact on the environment. They stated as an aim to reach Carbon Net Zero in all their operations globally, from physical factories to trucks on the road, by 2050.

Their action is focused on 2 main aspects:

- Reducing CO₂e: They have taken important steps to reducing CO₂e emissions from farms, and focus on sustainability when modernising or building new dairies. The CO₂e reduction from Arla's operations, including packaging and transport, has been 25 percent from 2005 to 2020.
- Switching to renewable energy: In 2020, 31% of their power came from renewable energy sources (market-based), and they have switched entirely from fossil fuels to renewable fuels for all their trucks in Sweden. Their carbon Net Zero project includes the use of wind turbines, solar panels and even biogas from waste incineration as substitutes to fossil fuels.
- Carbon Neutral organic products in the Netherlands: they have reduced greenhouse gas emissions as much as they can compensate for the rest of emissions by planting trees and protecting rainforest.

Concept Addressed

The main concept addressed is the fight against climate change and the transformation of the models of production to reach a low impact production. The main project, Carbon Net Zero by 2050, is associated to a medium-term science-based target of 30% reduction in CO₂e from 2015 to 2030 which includes:

- 30% absolute reduction in greenhouse emissions
- 30% reduction in greenhouse emissions per kg of raw milk

The Carbon Net Zero operations belong to global action from this company toward sustainability, including actions for a stronger planet: sustainable packaging, minimizing food waste, protecting nature and sustainable dairy farming, as well as action for stronger people: health and nutrition, supporting communities, caring for people and working on food habits.



Relevance

Added value of the action

This action is focused on a specific goal of reduction of CO2e emissions, with significant actions made in different aspects of the production to achieve this goal, for higher results. It shows that concrete actions on the ground, such as changing the fuel of truck, can have an important impact in terms of reduction of CO2e emissions.

Their work towards achieving carbon net zero operations, supports SDGs, and in particular:

- No. 7 - Affordable & Clean Energy by switching to renewable sources of energy across the value chain.
- No. 12 - Responsible Consumption & Production by achieving a Carbon Net Zero supply chain by 2050 and reducing CO2 by 30% by 2030 from 2015.
- No. 17 - Partnership for the Goals by working with suppliers and local partners across the supply chain

Challenges to be able to apply and / or improve this type of circular action

- Be aware of energy consumption and CO2e emission
- Have a global picture of environmental impact
- Be able to fix global objectives with associated concrete actions
- Engage an important community of farmers and workers all along the productive chain in the action
- Report results

Eventually accreditation

Arla is itself a label for dairy products



Tips to implement

The best tip given by Arla on sustainable action would be to fix achievable goals:

When it comes to reducing CO₂e emissions, Arla is realistic, action led, and motivated to improve. They have already cut our CO₂e output significantly, but there is more to do: their goal of reducing total CO₂e emissions by 30% by 2030 has been approved by the Science-Based Target initiative as being aligned with climate science.

Here you have 20 tips to reduce your carbon footprint.

(<https://www.futurelearn.com/info/blog/how-to-reduce-your-carbon-footprint-tips>)

Bibliography

<https://www.arla.com/sustainability/>

