Food production in a Circular Bioeconomy

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Arla Foods

- Products sold in 100+ countries
- 10 bn EUR revenue
- 14 bn kg milk intake
- 19,000 colleagues
- 11,300 owners
- Largest producer of organic dairy products

Owners in 7 countries:
We provide dairy that nourishes body and soul throughout life.

Milk, yogurt, powder and cooking 45%
Cheese 26%
Butter & spreads 14%
Other 15%
Arla’s sustainability journey
Broadening the scope in terms of impacts as well as value chain

1990 Legal compliance
2000 Continuous improvements
2010 Environmental Footprint
2020 Beyond Footprint
Arla Foods’ Environmental Strategy 2020 – status

-30% CO2e per kg milk at farm level

-25% CO2e operation, transport, packaging

-50% food waste

100% packaging recyclable

100% responsible soy

50% renewable energy

Energy & water efficiency (3% per year)

Zero waste to landfill

100% sustainable cocoa & palm oil
Sustainable Dairy Farming Strategy 2020

**ANIMAL WELFARE**
Cows are treated with care

**GOOD RELATIONS**
Farms are attractive places to work and natural partners for their communities

**CLIMATE IMPACT**
Emissions from farming are continually reduced

**INTERACTION WITH NATURE**
Farms are working as one with their environment
Greenhouse gases at farm level

Goal for 2020

Total carbon footprint per kg milk from Arla farms will be reduced by 30% compared to 1990.

Achievements

- **23%** Reduced CF 1990 - 2015
- **4,533** Carbon assessments
- **394** Energy assessments
- **358** Farm workshops on climate and efficiency

‘We were forever having to replace bulbs in our previous lighting but the LEDs have a very long life and are hugely energy efficient.’
CLIMATE IMPACT
Continually reduce emissions from farming

REDUCE CARBON FOOTPRINT
Carbon footprint is reduced by 30% per kg milk 1990–2020

PROMOTE CARBON CAPTURE
Develop reliable methods for monitoring and promoting carbon capture at farm level

GREEN ENERGY
Arla farms are overall net producers of green electricity
Environmental impact for Arla Foods total production
Most significant environmental impact categories (EP&L 2014)

- Greenhouse gases [Mt CO2e]
- Non-renewable energy [10 000 TJ primary energy]
- Air emissions (NH3) [1000 t PM2.5e]
- Eutrophication [1000 km2 UES]
- Land occupation [1000 km2]

*including purchased dairy products
Carbon Footprint of milk at farm level in Denmark 2012
1.18 kg CO2e per kg milk (Dalgaard et al., 2016)

Feed production stands for about 40% of milk’s carbon footprint.
Our principles towards sustainability

from Fossil to Renewable

Circular Economy

Cooperation in the value chain
Professorship in Sustainable Dairy Production

Why is it important to Arla

• Sustainability is high on the agenda for Arla – not least at farm level

• We have environmental and sustainability strategies

• Investing in a professorship in order to support Arla’s activities and fulfil strategies
Thank you!

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