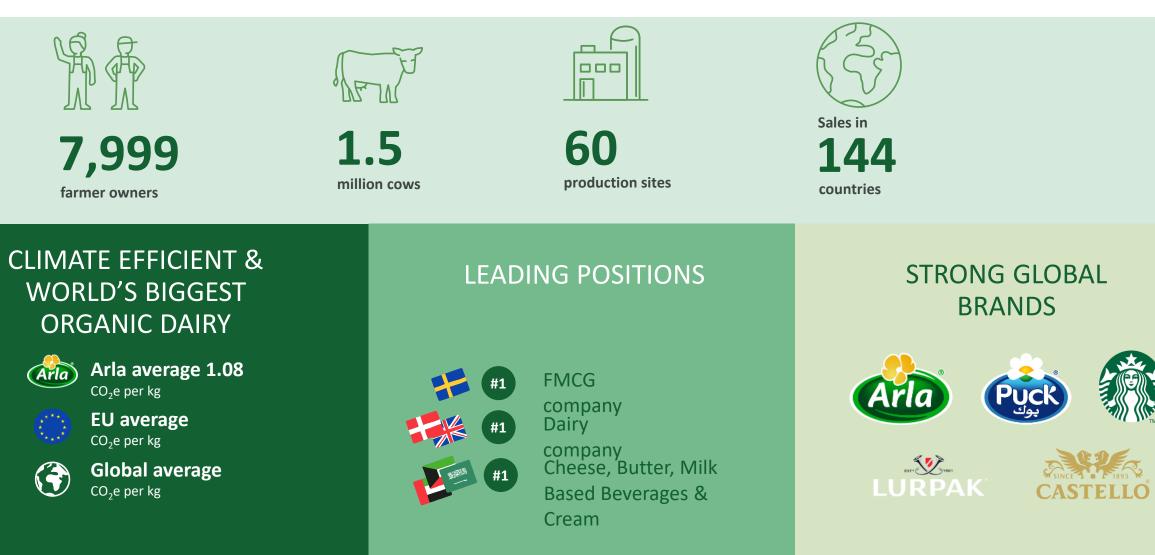
## **Sustainable Dairy production**

Kenneth Byskov Sustainability Manager DK-Agri 18-06-2024

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## ARLA FOODS IS A LEADING DAIRY COOPERATIVE WITH A GLOBAL FOOTPRINT





# OUR VISION IS TO EMPOWER STRONGER PEOPLE AND ENABLE A STRONGER PLANET THROUGH ALL THAT WE DO

### Enabling a **STRONGER PLANET** by improving the environment for future generations

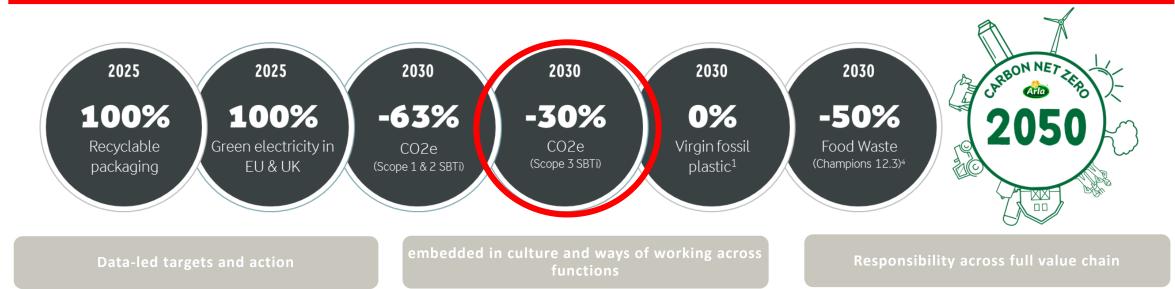


## Empowering STRONGER PEOPLE

by increasing access to healthy dairy nutrition & inspiring good food habits

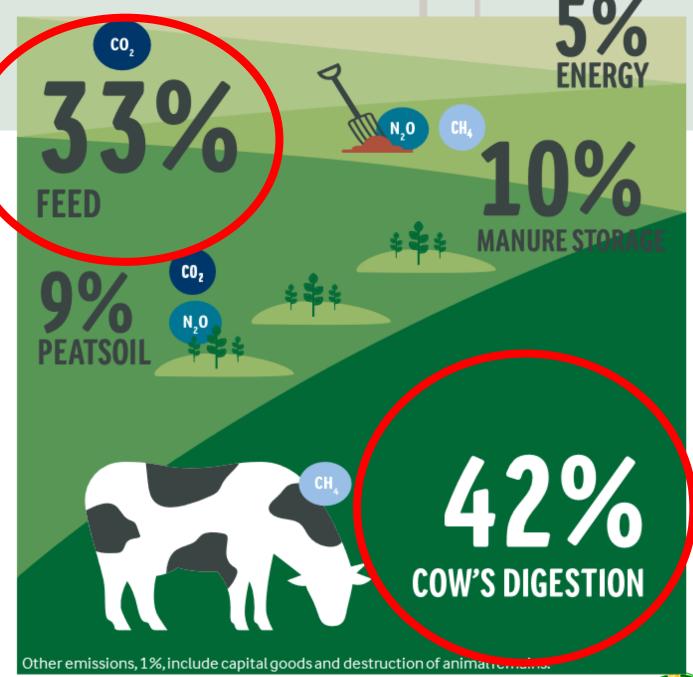


Future26 sustainability ambition: prove that nutritious, sustainable, 1.5°C-aligned dairy is possible



## FOCUS FEED AND COW'S DIGESTION

## 75% of CO<sub>2</sub>e from Feed and Cow's Digestion





### THE BIG 5: THESE FIVE LEVERS WILL GET US ONE THIRD OF THE WAY

Climate Check shows that the Big 5 are the main drivers of differences in performance. Big 5 are good for both climate and the bottom line.

### **FEED EFFICIENCY**

More milk per feed input

PROTEIN EFFECEENCY

(kg DM/kg FPCM)





(% N eff./cow)

ANIMAL ROBUSTNESS longer life expectancy



### **FERTILISER USE**

Reduce nitrogen surplus from feed production



(Kg total N/ha)

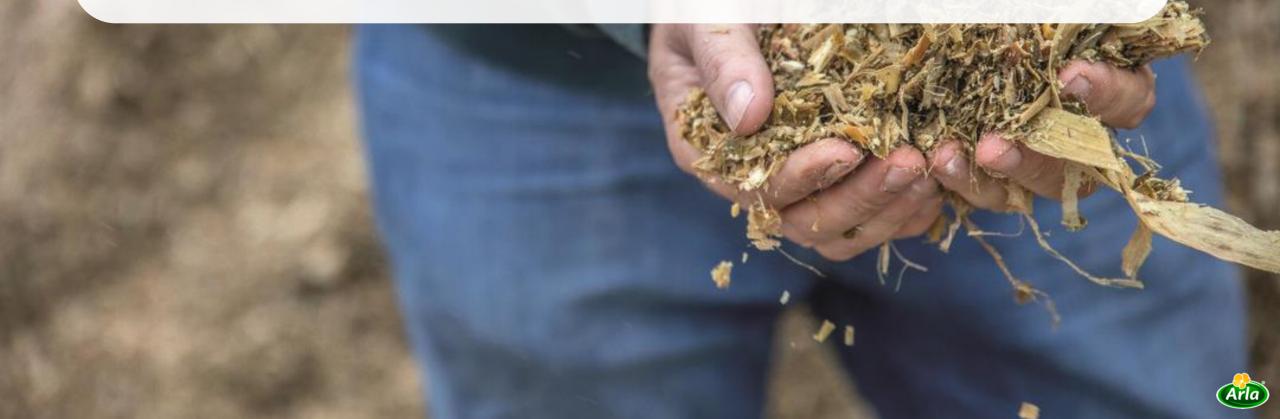
### LAND USE

Efficient use of land for milk production





# **Climate check**



#### ANIMALS > COWS: HOUSING AND GRAZING

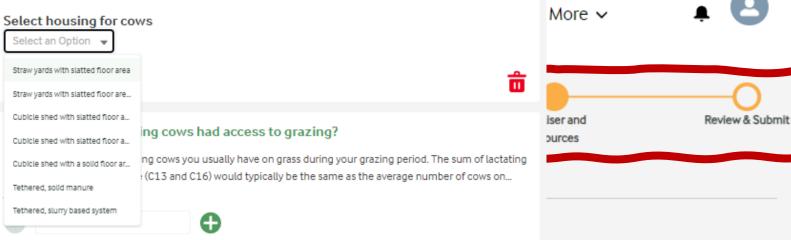
### CLIMATE CHI





### ANIMALS

Please select the nousing system for both lactating and dry cows. Click on the current housing system in the drop-down list. (More choices can then be added by repeating this process.) Other questions can then be filled in. C27 is automatically summed by the IT tool.



#### C16 How many dry cows had access to grazing?

Please state how many dry cows you usually have on grass during your grazing period. The sum of lactating cows and dry cows on pasture (C13 and C16) would typically be the same as the average number of cows on farm (C6).



#### C19 How many cows were housed in straw yards?

Please enter housing data for both lactating and dry cows.

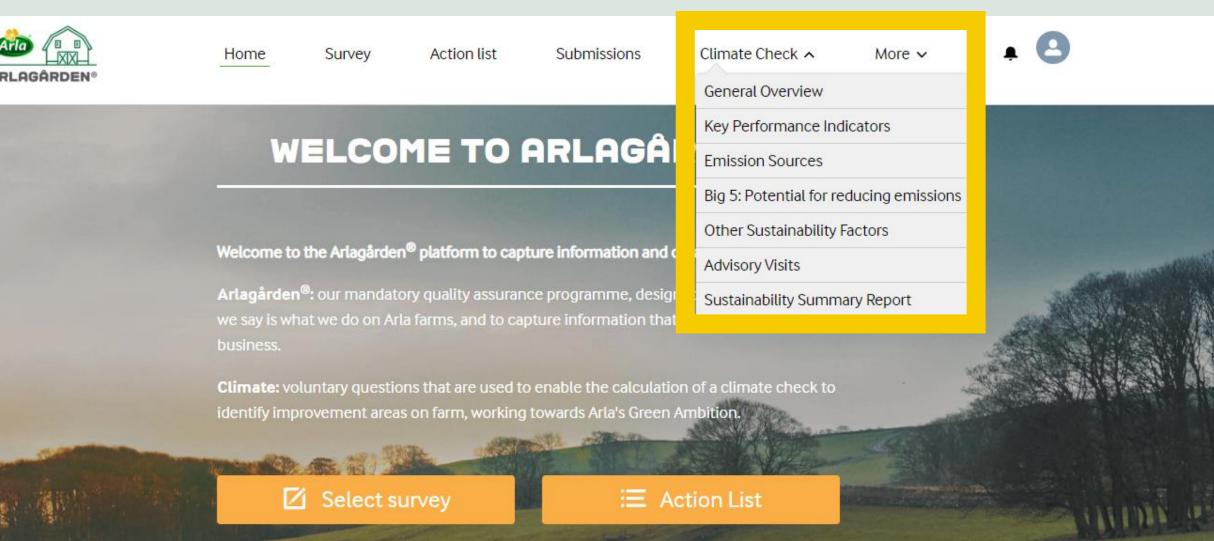
C27 Sum of all housing for dairy cows. C27 is automatically summed by the IT tool.

0

0

0

## CLIMATE CHECK PLATFORM



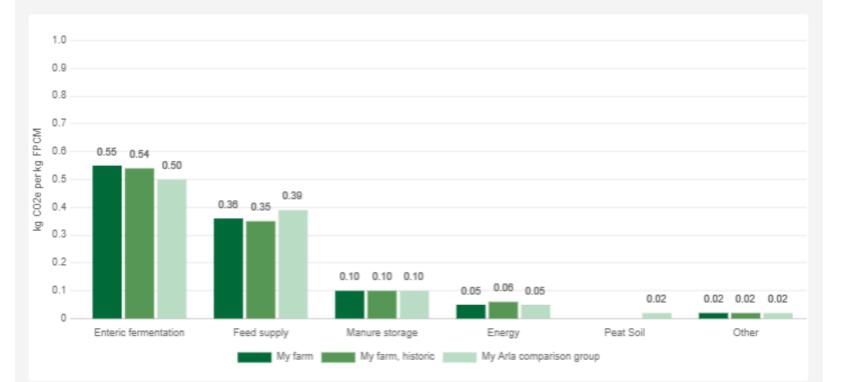
#### CARBON FOOTPRINT

Please see the total carbon footprint per kg FPCM for your farm below.

	kg CO2e per kg FPCM without peat soil	Kg CO2e per kg FPCM, peat soil
My farm	1.09 🔺 1.87%	
My farm, historic	1.07	
My Arla comparison group	1.07	0.02

#### DETAILED CARBON FOOTPRINT

Below is a general overview of CO2e emissions by source. For a detailed view, please visit Emission sources



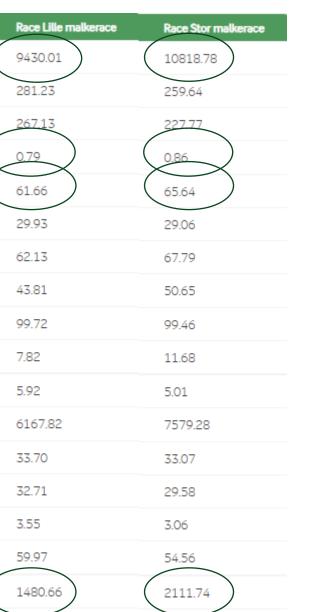


## BENCHMARKING ON BIG5

KPI	Unit	My farm at present	My Arla comparison group			
			My Arla Group Thresholds 🕤	Improve performance by:	Results in a change to your footprint of:	
Feed efficiency	kg DM per kg FPCM	1.17	0.94 1.15	-0.10	-0.039kg CO <sub>2</sub> e	
Protein efficiency	%, N-efficiency, cows	26	23 28	1	-0.005kg CO <sub>2</sub> e	
Animal Robustness	%, Mortality, cows	5.0	25 6.4	-1.0	-0.004kg CO <sub>2</sub> e	
Fertiliser use	kg gross N/ha	128	220 371	-10	-0.009kg CO <sub>2</sub> e	
Land use	m <sup>2</sup> per kg FPCM	1.74	100 1.39	-0.10	-0.026kg CO <sub>2</sub> e	



	КРІ	Unit
Herd level	Milk production delivered to dairy	kg FPCM per cow
	Cows	Number
	Heifers	Number
	Feed efficiency	kg DM per kg FPCM
	Roughage share	% of DM
	N efficiency, herd level	96
	Homegrown feed	% of DM
	Homegrown protein	% of N
	Herd energy supply	% of requirement
	Soy use	g dm soy / kg fpcm
Cows	Animal Robustness	%, Mortality, cows
	Feed use	kg DM per cow
	Protein efficiency	%, N-efficiency, cows
	Percent of cows grazing	% lactating cows grazing
	Daily cows grazing hours	hours per day (lactating cows)
	Days cows are grazing	days per year (lactating cows)
Heifers	Feed use	kg DM per heifer
	Heifers per cow	Heifers per cow
	Age at first calving	Months



0.89

25.05

1.00

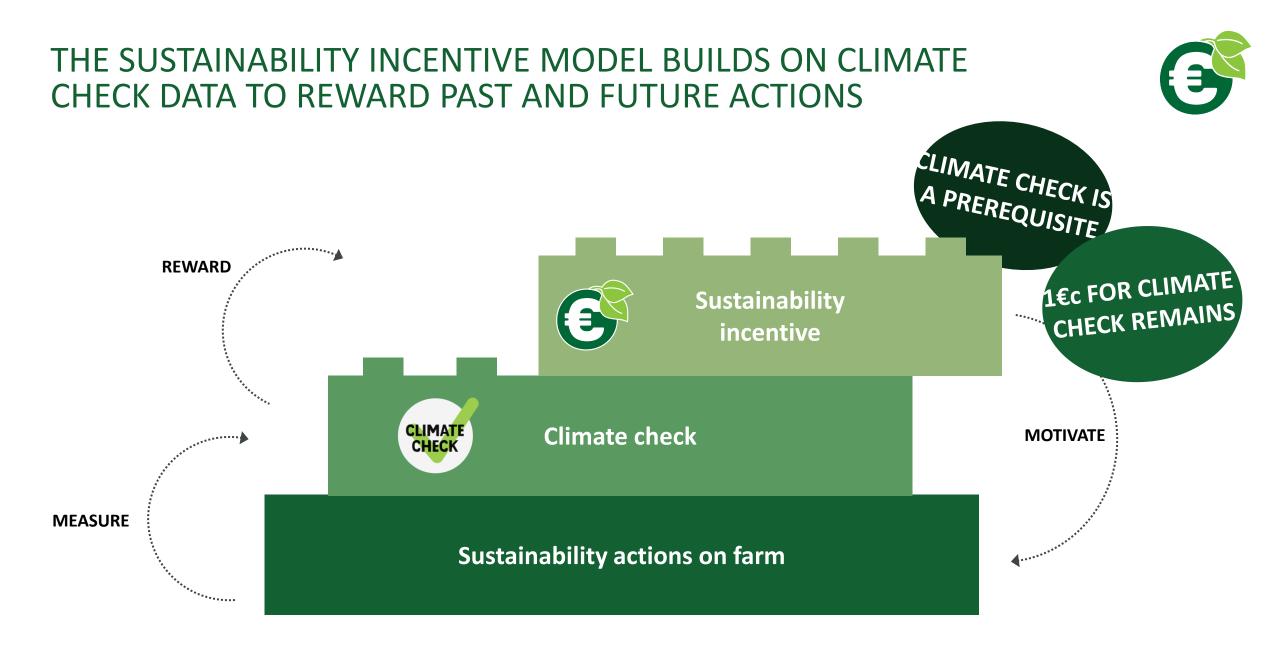
23.89





We introduced a point-based in 2023 Sustainability incentive model To reward past and future actions









DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Levers farmers can use to reduce their Greenhouse Gas emissions and drive progress towards 2030

reduction targets



\*Requires direct Land Use Change (DLUC) and carbon sequestration to be included in the Science Based Target and the 2015 baseline to be updated accordingly

**SCIENCE** BASED **TARGETS &** ROADMAPS -30%

## THE ACTIONS THAT HAVE THE MOST POSITIVE IMPACT ON SUSTAINABILITY WILL LEAD TO THE MOST POINTS







# EACH POINT LEADS TO 0.03 EUROCENT KG/MILK ON THE MILK PRICE – MORE LEVERS WILL BE ADDED



## 100 POINTS IN THE FUTURE: 100 POINTS = 3 EUROCENT

**POINTS AVAILABLE FROM 2023:** 

80 POINTS =

**2.40 EUROCENT** 

**FUTURE LEVERS** 



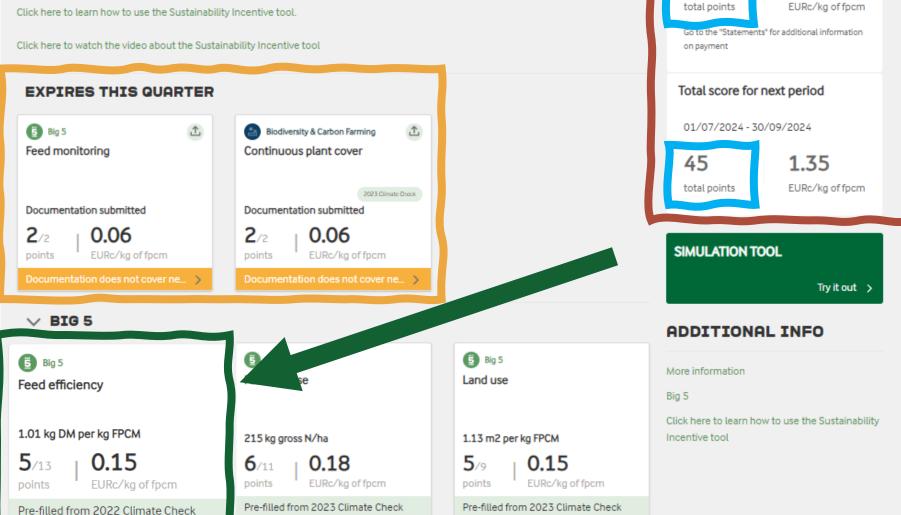


#### INCENTIVE LEVERS

Below you can find sustainability incentive overview. Monetary value of the points is only indicative and states value in EURc for 1 kg of FPCM (fat and protein corrected milk). Your actual payment will be defined based on fat and protein content of your delivered milk and exchange rate. First sustainability incentive payment will happen in August 2023 for milk delivered in July 2023.

The majority of the SIM points come directly from the Climate Check. For some levers you have the opportunity to collect additional points by uploading documentation confirming that you meet the requirements for these levers. In the SIM Guide you will find information and details about the required documentation. Carefully read the documentation requirements for the area before uploading documents here in the IT tool. Click here for the SIM guide.







#### SUMMARY

49

Summary of all levers

Total score for current period

1.47

01/04/2024 - 30/06/2024

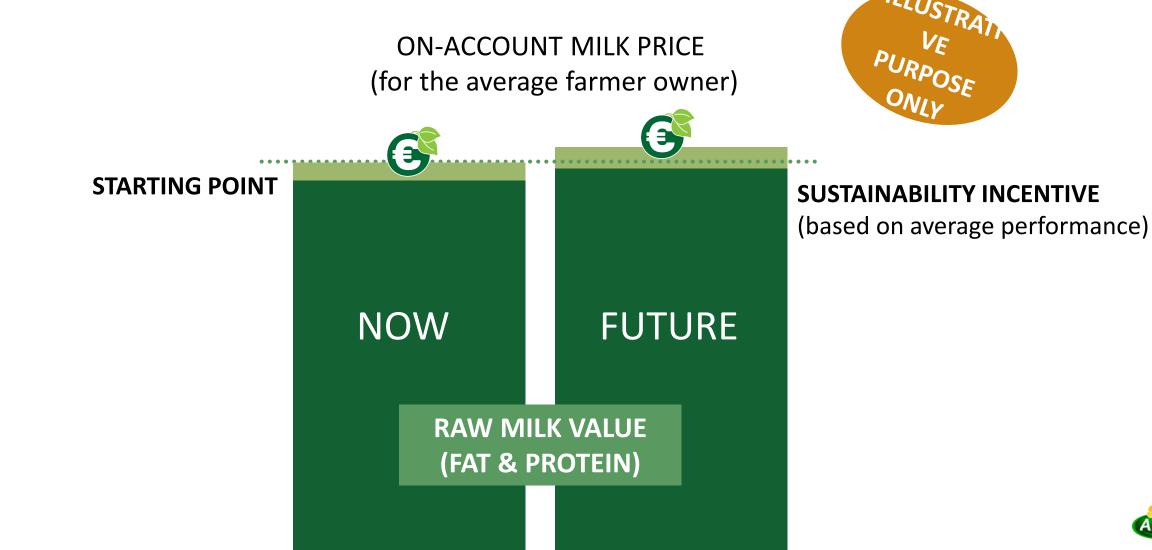
### **MILKPRICE CALCULATION WITH INCENTIVES**

					and the second second second
		CONVENTIONAL		ORGANIC	
		01.05.24	01.06.24	01.05.24	01.06.24
Butterfat price, GBP	BF 4,20 * 4,93 + P 3,40 * 4,43 + Vol (-1,60)	4.93	4.98	6.15	6.27
Protein price, GBP		4.43	4.48	5.54	5.64
Deduction for milk collection costs, pence		-1.60	-1.60	-1.60	-1.60
Raw milk value ppkg		34.16	34.57	43.06	43.89
Best Quality		1.37	1.38	1.72	1.76
Climate check		0.86	0.86	0.86	0.86
Sustainability Incentive		1.43	1.43	1.43	1.43
ONE Milk collection & volume bonus		0.32	0.32	0.32	0.32
Basic cost		-0.16	-0.16	-0.16	-0.16
On account price ppkg		37.97	38.40	47.23	48.09



# OVER TIME, THE COMMERCIALISATION OF SUSTAINABILITY ACTION WILL HELP BRING NEW MONEY INTO ARLA





1.12 ⇒ 1.08 kg CO<sub>2</sub>e/kg FPCM incl. Peatland in 2023

# **THANK YOU!**

# **ANY QUESTIONS?**