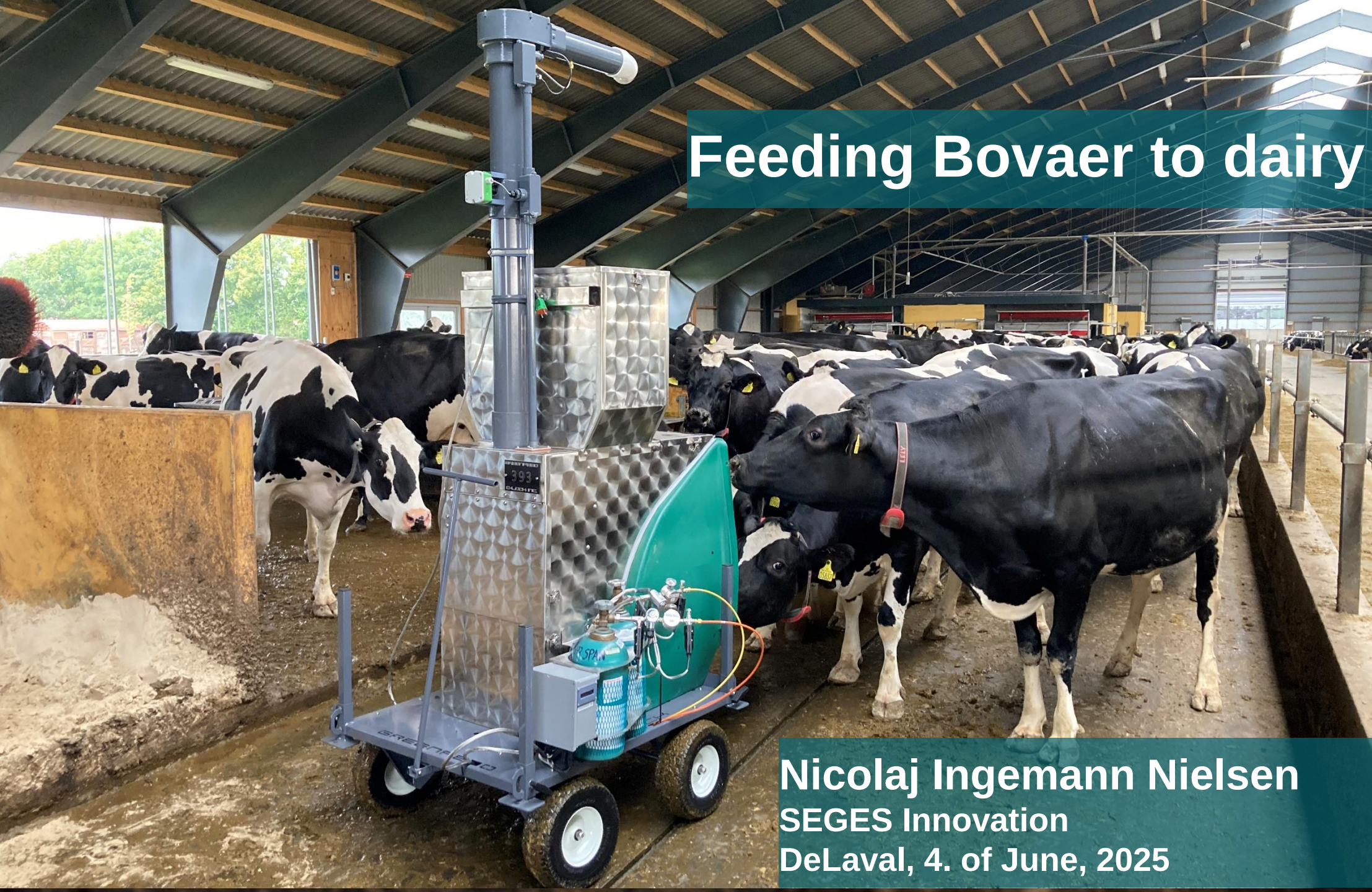


Feeding Bovaer to dairy cows



Nicolaj Ingemann Nielsen
SEGES Innovation
DeLaval, 4. of June, 2025

SEGES
INNOVATION



New Methane Prediction Model for Lactating Dairy Cows in NorFor

Advancing Enteric Methane Estimation

NorFor has developed a new methane prediction model for lactating dairy cows based on Nordic studies and studies from other countries to enhance accuracy in estimating enteric methane production. This improved model provides dairy advisors, nutritionists and farmers a science-based and more precise tool for evaluating and reducing methane emissions at the farm level.

Data

The dataset used to develop and evaluate the new NorFor methane prediction model included 124 treatment means from 41 studies (publication years 2013–2024) across Sweden, Denmark, Norway, and other countries (e.g. the Netherlands, Finland, France, Germany). Methane was measured using respiration chambers or GreenFeed. The data covers lactating dairy cows (Holstein, Swedish Red, Norwegian Red) fed preserved forages indoors.

Model

The new NorFor enteric methane equation for lactating cows improves accuracy by incorporating more feed-

Latest news

12/03/2025

New Methane Prediction Model for Lactating Dairy Cows in NorFor

18/02/2025

The old API for retrieving and updating data from NorFor will close on 1st of July 2025

29/10/2024

Danish Climate Law puts pressure on the dairy sector



- 0,17 mio tons CO₂e in 2025 (6%)
- 1,0 mio tons CO₂e in 2030 (35%)

Danish Climate Law from January 2025



Increased fat level in the diet all year

OR

Bovaer for 80 days

Purpose with test of Bovaer®



- Can we mix and feed ~**1.5 gram 3NOP/cow/day** ?
- How much can it reduce methane in commercial herds ?
- Does Bovaer affect the feed intake or milk production ?
- Is the effect of Bovaer consistent across farms ?



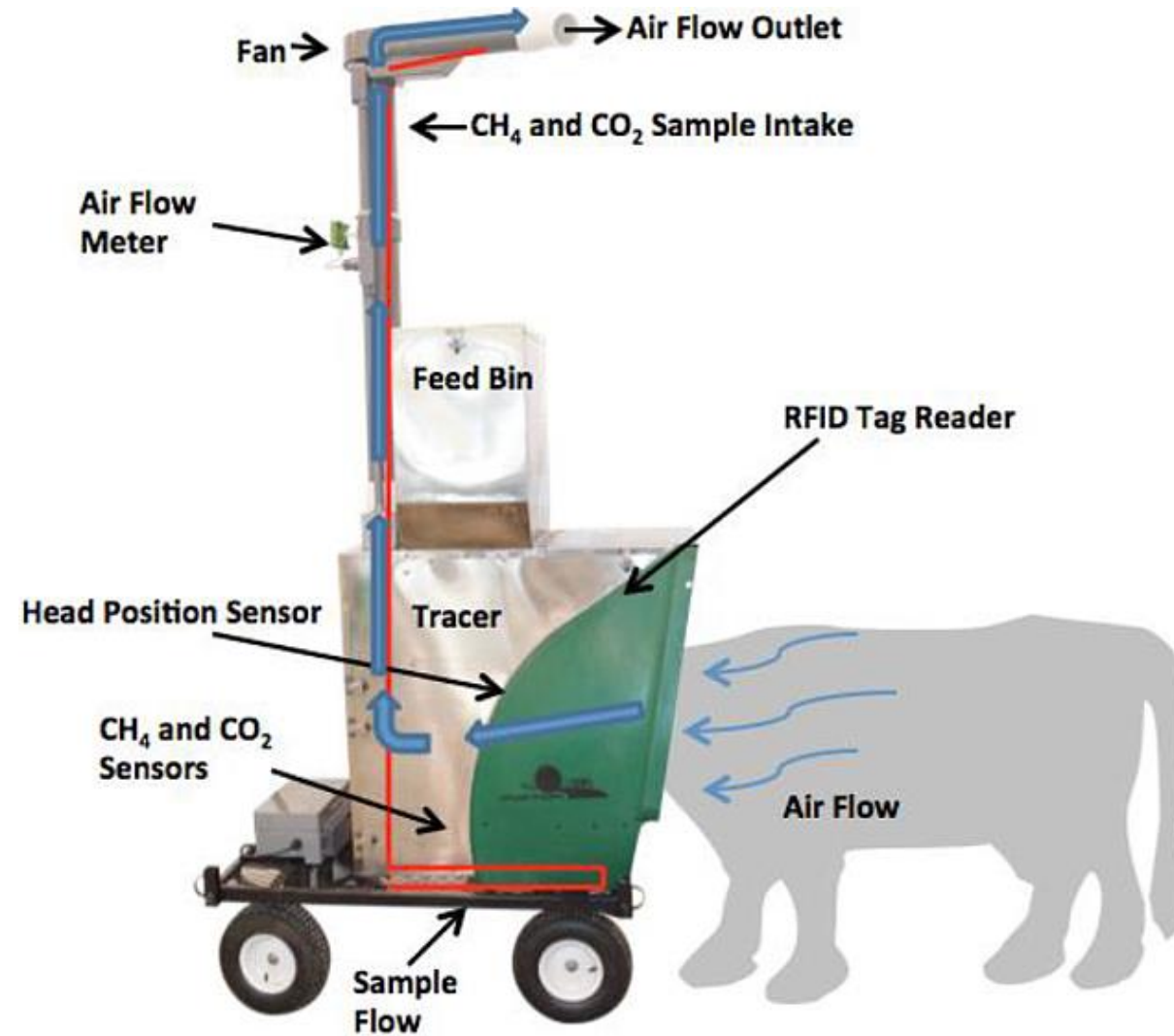
Bovaer mixed in minerals and fed via TMR or PMR (60 mg/kg DM)



1,5 g 3NOP/cow/day



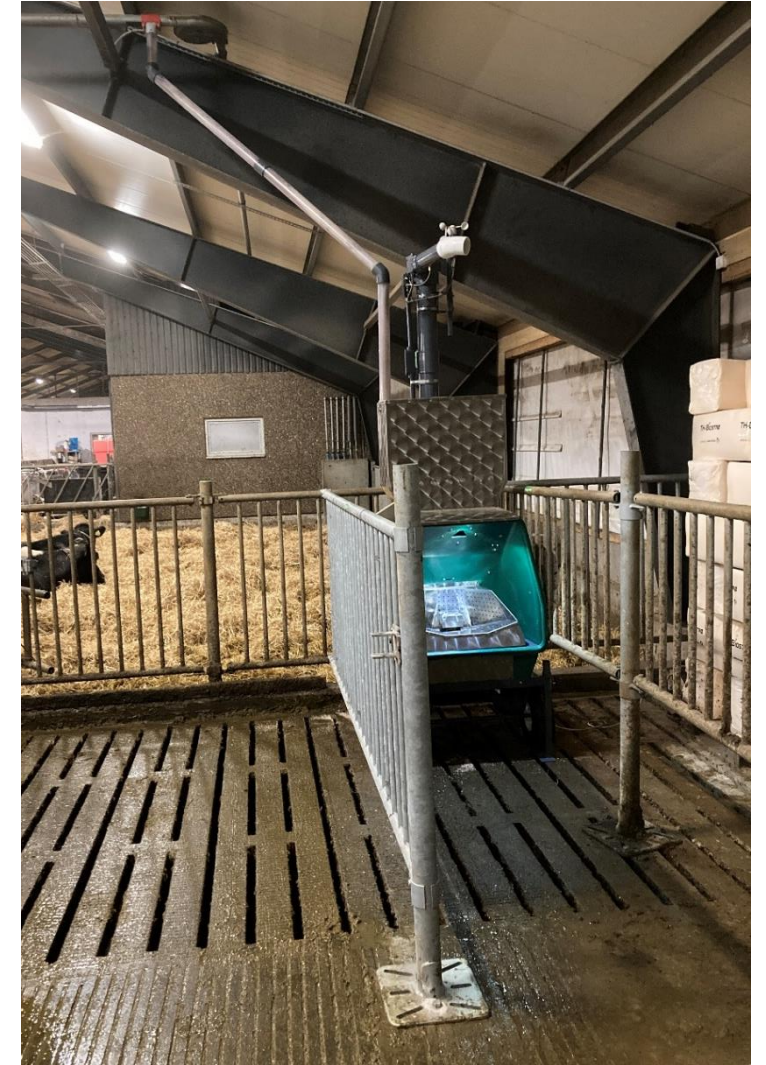
GreenFeed



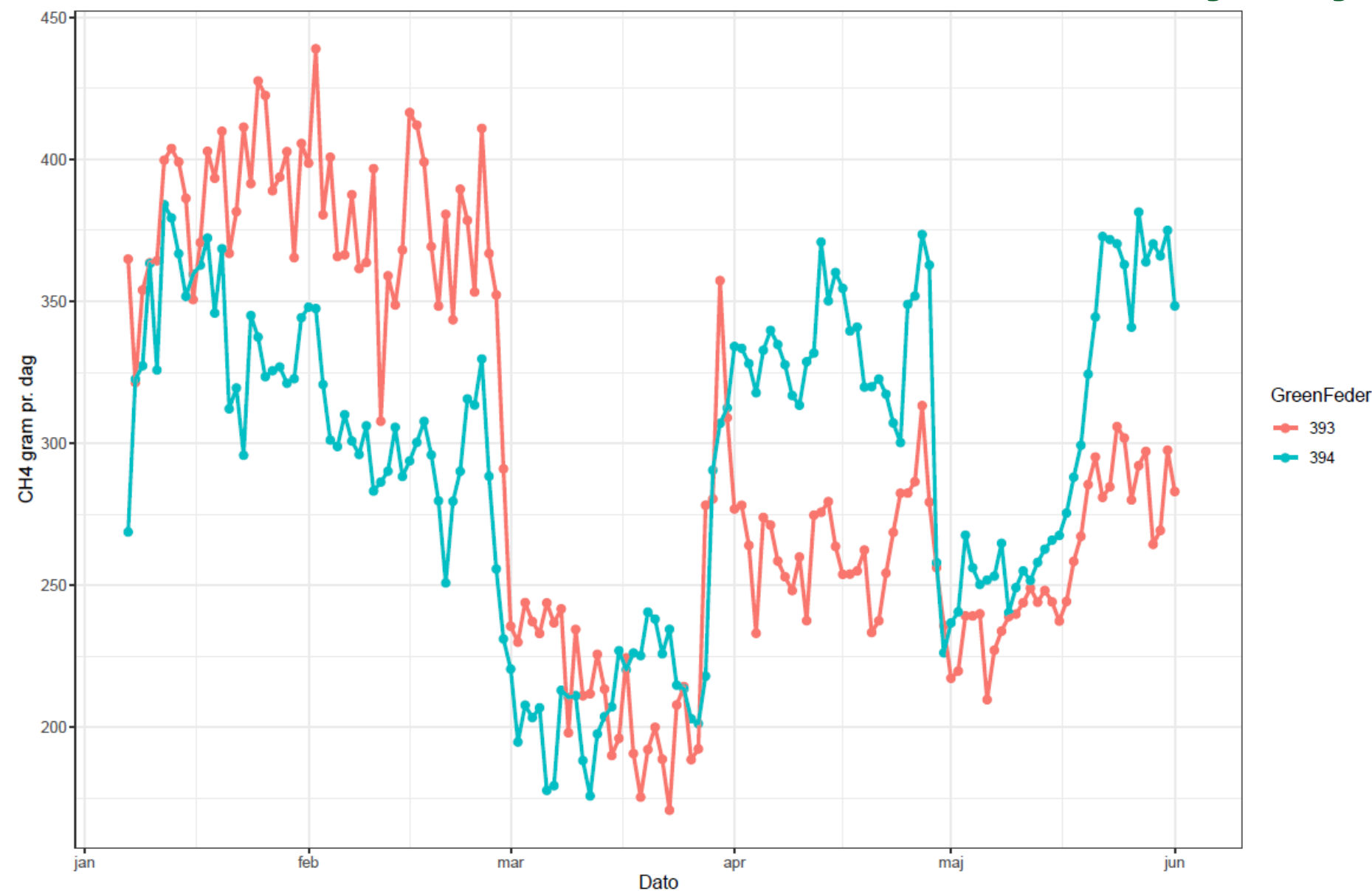
Installation of GreenFeed units in cubicles



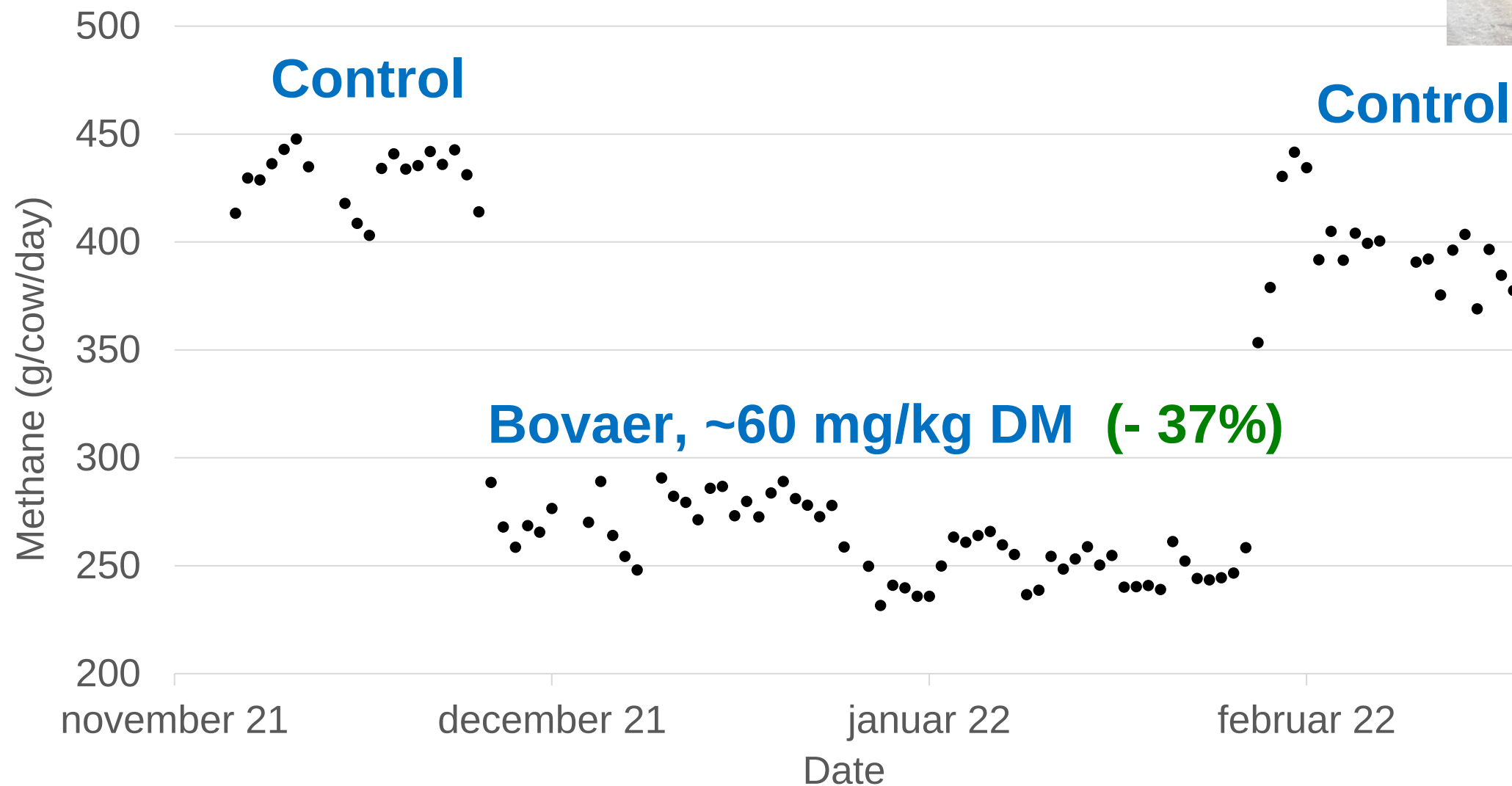
Installation of GreenFeed on slatted floors



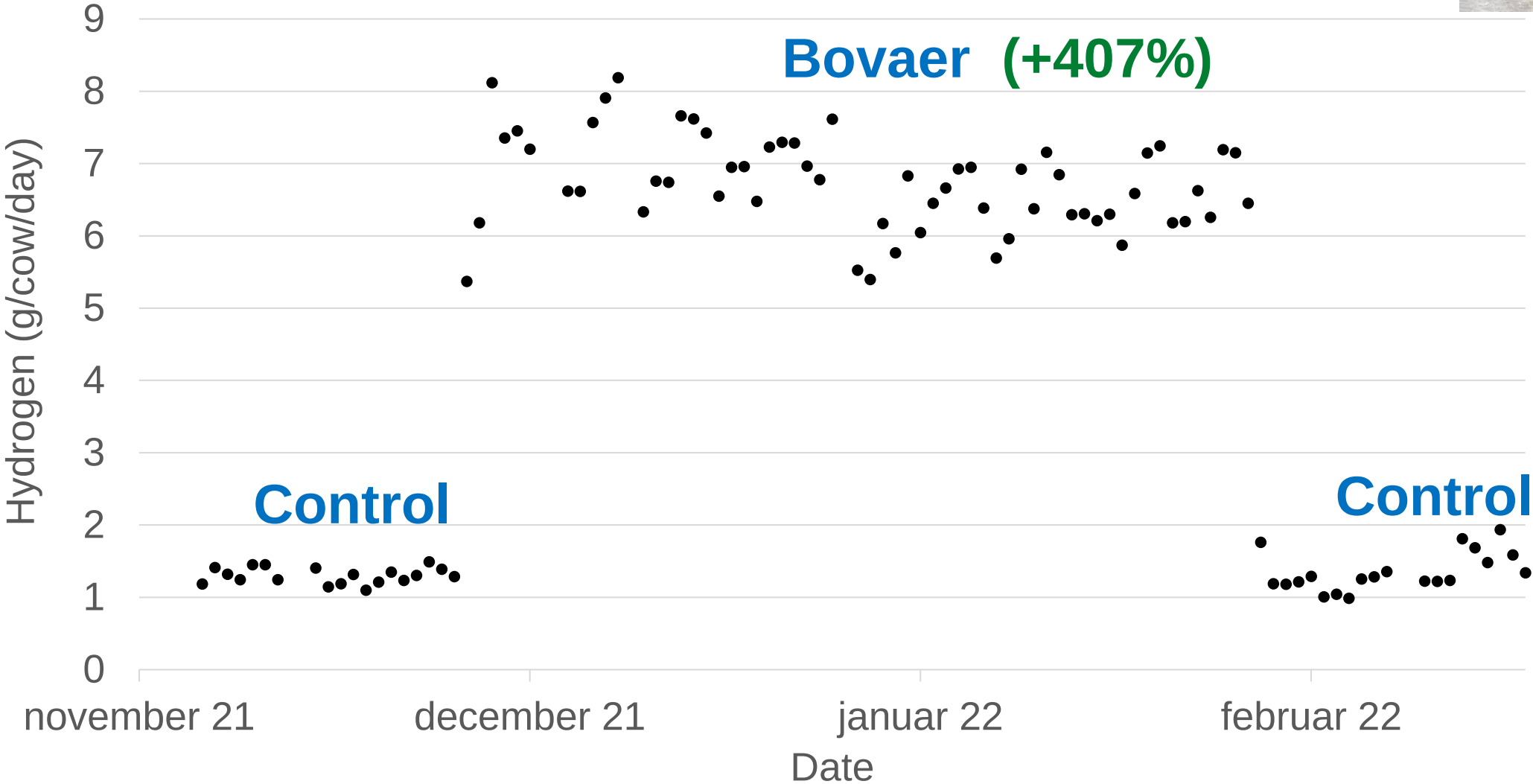
Overview of data from each GreenFeed every day



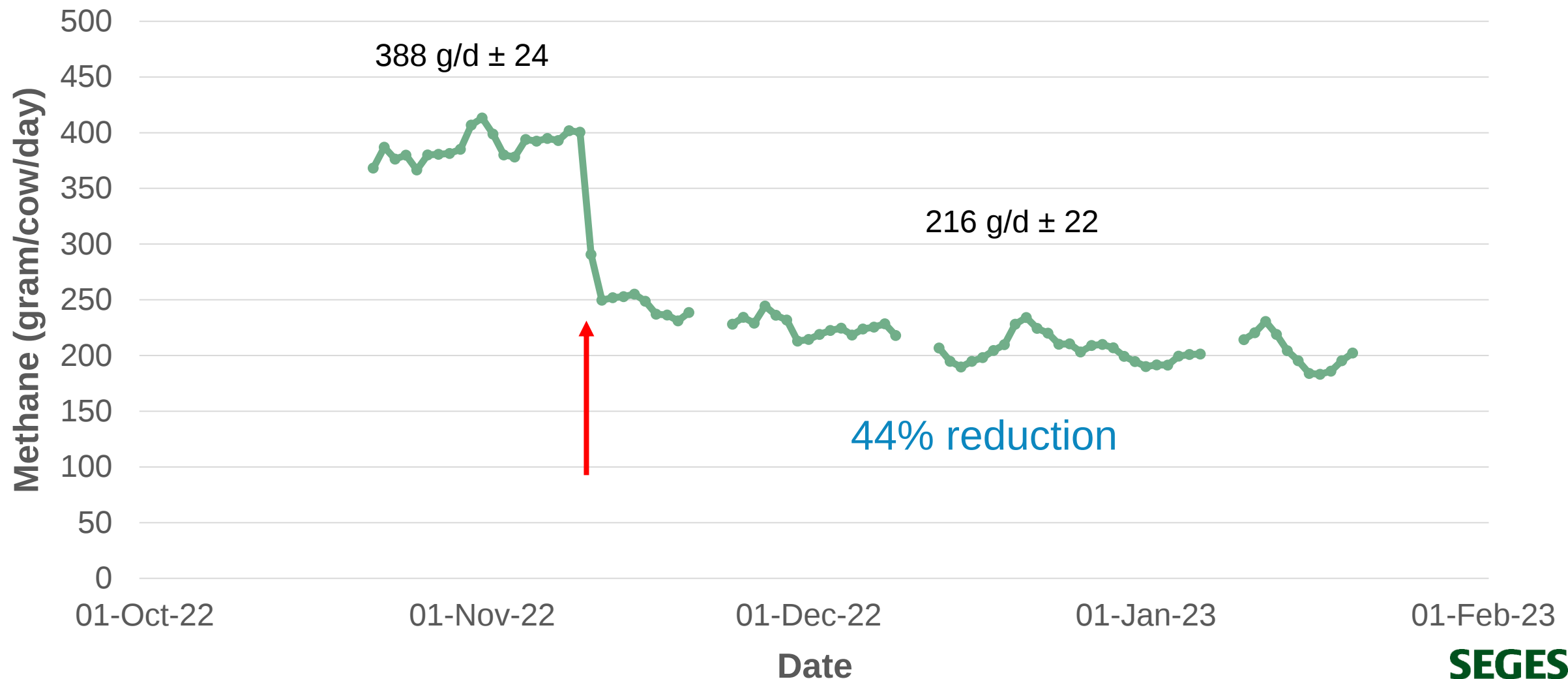
Methane (n=36 red cows)



Hydrogen (n=36 red cows)



Effect of Bovaer on enteric methane production (n=57 Holstein cows)



DMI and ECM-yield is not affected

Arla test in 13 herds, 60 mg 3NOP/kg DM, 4 months of Bovaer

	Control	Bovaer
DMI (kg/d)	23,6	23,8
ECM (kg/d)	36,6	36,4
Milk fat (%)	4,79	4,79
Milk protein (%)	3,82	3,85

Brask., 2023



Animal Welfare issues ?

11. NOVEMBER 2023 09:11

SKREVET AF: LANDBRUGSAVISEN.DK

Forskere kritiserer regeringens plan for metanreducerende foder til køer



**DYRENES
BESKYTTELSE**

REGERINGENS KLIMAFIX RISIKERER AT GÅ UD OVER KØERNE

Ingen har undersøgt, hvad det metanreducerende tilsætningsstof Bovaer reelt gør ved køerne. Derfor er regeringens plan om at støtte brugen af stoffet utidig og problematisk, mener Dyrenes Beskyttelse

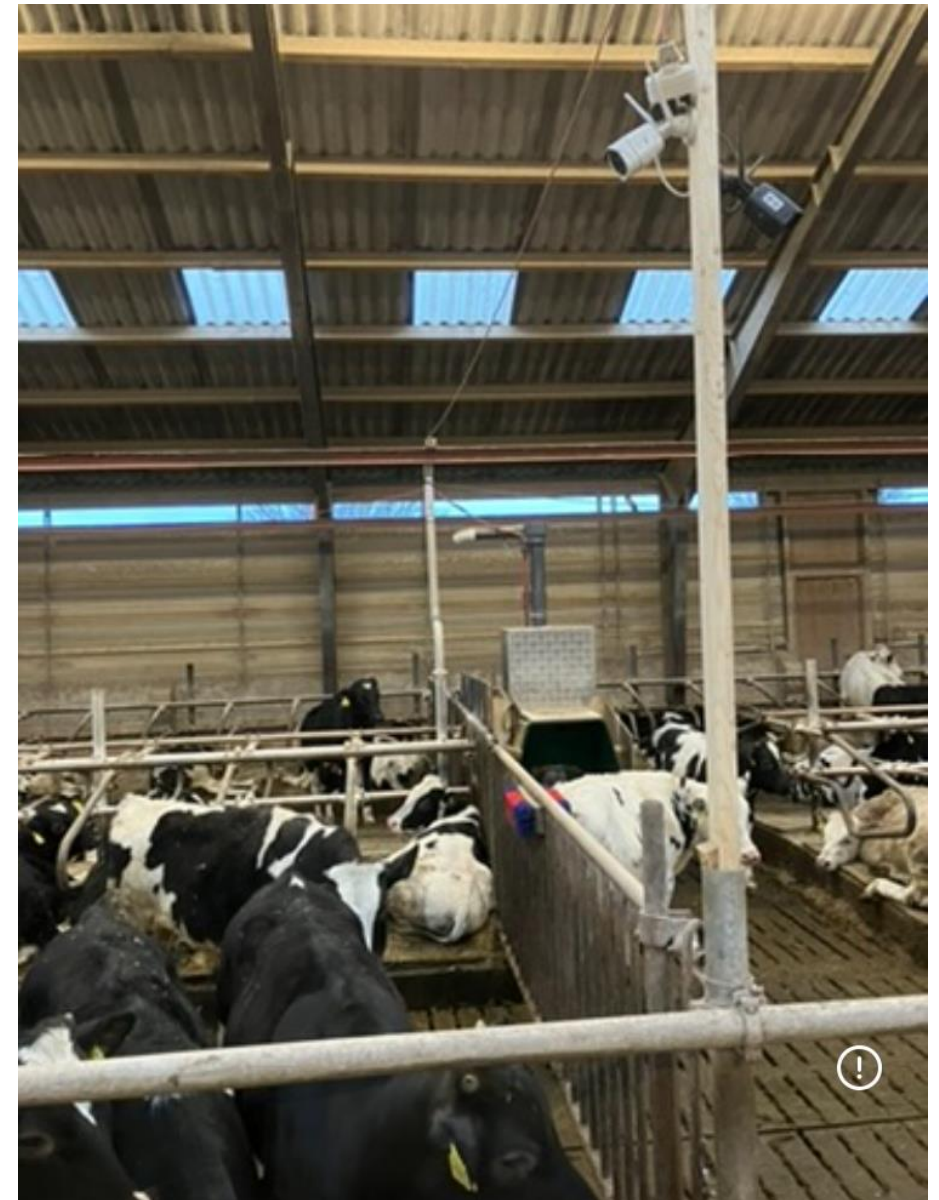
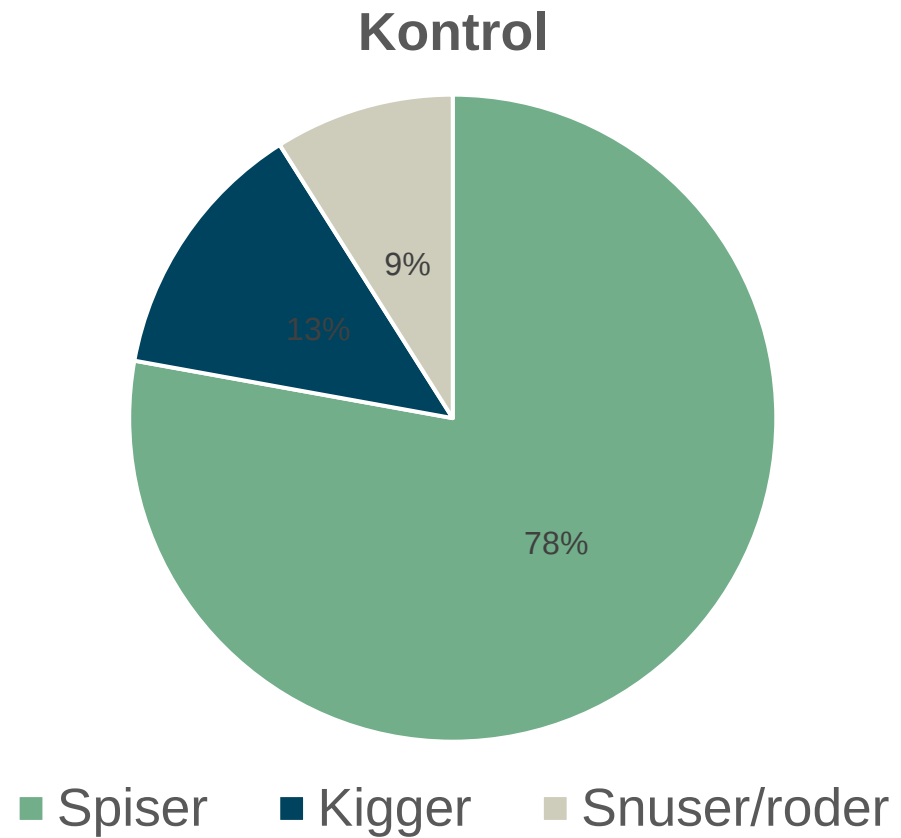
Pressemeddelelse | 2. november 2023

- Der står i sort på hvidt i landbrugsaftalen, at de her tiltag ikke må have nogen negative velfærdsmæssige konsekvenser, men vi ved meget lidt om, hvorvidt det er tilfældet, siger professor i dyrevelfærd på Aarhus Universitet Margit Bak Jensen til Information.

Bull calves for meat production

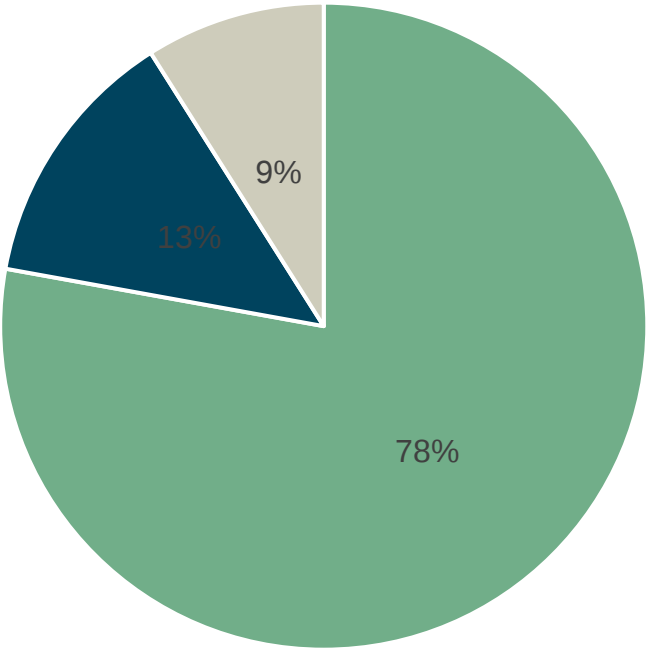


Eating behavior



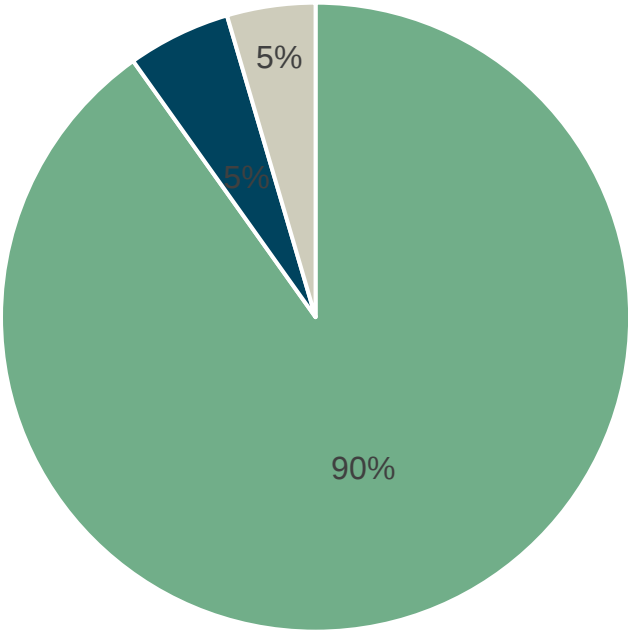
Eating behavior

Kontrol



■ Spiser ■ Kigger ■ Snuser/roder

Bovaer



■ Spiser ■ Kigger ■ Snuser/roder

Trial with 'New product' in Sweden





ncn@seges.dk Tlf: 30 92 17 25