

Cominbel ensures high energy efficiency by choosing CORE advanced services

CHALLENGE

Cominbel processes animal by-products to provide valuable, high-quality raw materials for the production of animal feed, pet food, oleo chemistry, biodiesel and fertilisers.

Cominbel has continued focus on quality, sustainability and innovation of their production process. In line with their main goals, they wanted to:

- Reduce energy consumption
- Reduce fat in meal
- Improve throughput and capacity

SOLUTION

During discussions with CORE, Cominbel's operation manager quickly understood that CORE's Advanced Process Control (APC) would provide the optimization and control needed at the rendering line. Convinced of its benefits, Cominbel ordered the APC package.

In order to ensure a stable process and to save energy, automated advanced controllers from CORE were implemented on one high temperature cooker and on two fat presses. CORE APC optimized plant performance and stabilized plant operations by minimizing the fluctuations of key process variables.

RESULTS

After adding CORE APC to their operation, Cominbel in Bavegem achieved:

- **4%** increase in throughput
- **7%** decrease in energy usage
- **2 pp.** fat reduction in meal, a decrease from 14% to less than 12%
- **32%** decrease in moisture variations

Industry

- Mixed bone and fats line

Process optimized

- Dry Rendering
- Cat 3
- 1 cooker
- 2 presses

Country

- Belgium

Company

- Cominbel, Bavegem



Reduce your carbon footprint!

"Thanks to the CORE controllers, energy savings and quality improvements are quick wins and attributes to the environment".

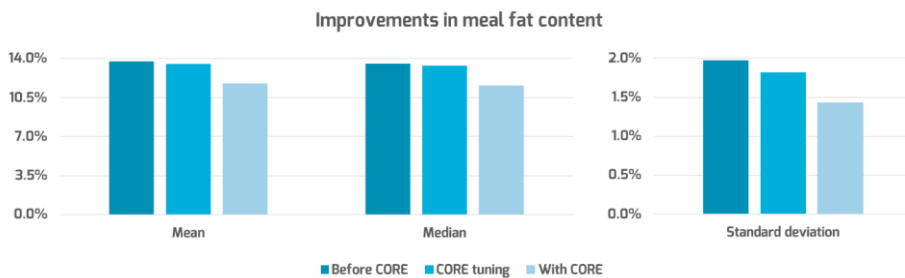
- Jan Van Loocke
Operations Manager Rendering

STORY DETAILS

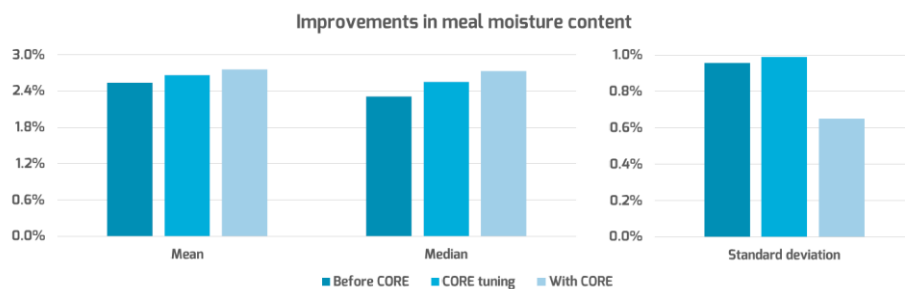
The following presents some of the results obtained using the CORE controllers for the cooker and two presses at Cominbel.

Process data	Feed speed	Raw material tonnage	Total steam usage	Steam usage per material
Relative improvement	+ 3.8 %	+ 3.8 %	- 3.6 %	- 7.1 %

The table above shows the improvements obtained in both throughput and thermal energy efficiency after implementation of CORE APC.



The graph above represents the progression in fat improvements throughout the project.



The graph above shows the gradual improvements in moisture throughout the project.

About CORE A/S

The DNA of CORE is about stable sustainable savings. We are focused on optimizing your energy efficiency, yield, product quality, capacity, reducing the level of your investment and increasing your profit. We deliver the world's most sophisticated advanced self-learning controllers, which within a few years have spread across the globe based on the significant savings CORE has provided, especially to the industry for animal by-products and fish processing.

A partnership with Haarslev Industries was established in 2016.

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CORE BUSINESS VALUES

Advanced Process Control

- Improved stability
- Consistent quality of the final product
- Higher throughput, capacity and yield
- Reduced energy costs
- Reduced maintenance

CORE SERVICES AVAILABLE

CORE's optimization package

- Remote support
- Controller monitoring
- Optimization
- Visualization
- On-site visits
- Examination reports