One of the “big five” largest dairy companies in the world, whose products are bought by millions of consumers in Europe, Asia and Africa, and also by many manufacturers, not only of common milk-based foods, such as beverages, cheeses and desserts, but also products for baby food, as well as ingredients and semi-finished products for the food and pharmaceutical industry.

Customer: Dutch dairy industry leader

Commissioning: 2014/2015

Two factors in particular have made this Dutch company strong: their focus on innovations in the field of dairy production and their excellent management of the production sites in the Netherlands, Germany and Belgium which supply and process the milk.

Their understandings of the technological innovations in the sector have enabled them to achieve great results. In addition to ensuring excellence in their milk and consequently in their milk derivative products, they have also achieved significant reductions in energy consumption. One way in which they have done this was by installing a new evaporation system at one of its production sites. This unique system runs on innovative technology which provides a significant reduction in energy costs.
Benefits:

- **Energy savings**, together, all of the components that make up this whey powder production system play a key role in reducing energy costs by an estimated 60%. Such a high level of savings is achieved by coupling the technology of the REEL SuPremE® motors with the FlexiMova® cm inverter.
- **Reliability**, the action of the FlexiMova® cm provides optimum control of the synchronous reluctance motor, reaping maximum benefits from this technology in terms of efficiency.
- **Robustness**, REEL SuPremE® motors are built without the use of permanent magnets, which at the same time ensures reliability, economy of use and long performance life.
- **Environmental sustainability** REEL SuPremE® is made with recyclable materials that are not harmful to the environment; in particular, unlike magnetic motors, no neodymium is use to manufacture them.

Application:

**Whey powder production equipment**

Whey powder is a valuable raw material used in making various products. The whey powder drying system designed by our client involves a technique, that eliminates the use of cooling water for process control. The blower fans used to manage this equipment are run by four REEL SuPremE® motors coupled to the FlexiMova® cm Inverter.

Project data:

REEL SuPremE® 45kW motor
REEL SuPremE® 55kW motor
REEL SuPremE® 75kW motor
REEL SuPremE® 132kW motor
FlexiMova® cm inverter