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Seal Water adjustment – A technical and mindset combined solution

Arla Food Ingredients

Danmark Protein, a state-of-the-art production site of Arla Food Ingredients Group is developing a broad range of whey-based ingredients that are characterized as specialized proteins having premium quality, primarily manufactured with the novel filtration technologies. Current awareness among the consumers about the benefits of native whey proteins has increased the demands for the development of specialized whey protein ingredients with higher protein content that in turn has elevated the additional water requirements for the processing as well as the load on the Danmark Protein's waste water treatment plant.

To meet the increasing water demands, Danmark Protein has a structured approach, forecasting towards procedures that involves efficient water usage and savings. One of the projects evolved from this system, is related to the seal water conservation from thousands of pumps used in the production process and utilizing the water in further processing.

The project has been tried before, but the complexity and uniqueness of the Danmark Protein's production plant makes it a challenge to find a practical and economically beneficial solution. In order to succeed with the project, it has been necessary to include simple technical equipment, as well as to develop visibility and mindset in our control rooms and maintenance department, with the continuous engagement of company management.