

## Picture-report of the Business Trip Feed Design Lab March 26 and 27, 2019

At 26 March a group of 46 people, 36 different partner companies of Feed Design Lab, started the Business Trip at Grosvenor Farm. This impressive farm has 2100 milking cows in 5 sheds of each 140 meters, all indoor (no grazing). With own feed production, recycling of the sand from the bedding, processing of the manure in liquid and solid fractions. And separate calving location and separate location for rearing calves until first cycle.



Includes a rotor milking parlour to milk 50 cows at the same time. Milk production on average at 12.000 kg per year per cow ( between 8.000 and 16.000 kg). Economical and sustainable optimal production for consumers and neighbours, which are welcome to look at this farm. Grosvenor Farms want to minimise their environmental impact and has one of the lowest carbon footprints for milk and grain production in the UK.



Before dinner at the hotel questions and answers with the chairman of GA Petfood. The 4 building partners offering him a board to remember us.



Enjoyed a very nice dinner at the Thai restaurant in Southport, sponsored by KSE, Dinnissen, van Mourik and SCE.

Visit at the newly built plant of GA Petfood.

Traceability is very important for this plant, with 400 raw materials coming in and 800 recipes to produce. They did a very good job on housekeeping, automation, safety measurements and creating a process without any residue. Remarkable was the emptying of the redler ends with compressed air and mixing before and after grinding. This will bring you a smooth hammermill behaviour, a more equal particle size and it will spare some energy.

The used automation is very advanced; there are a lot of movements everywhere, in large hangars where no personnel is present! Very impressive! With fork lifts without driver and a warehouse to store the produced products, because the petfood is only packed when the customer is demanding for it. Every transporting device has its own air extraction; in this way the plant will stay as long as possible 'dust free'. When something is blocking/obstructing the process or at change of plans with any reason you can think of, it's possible to switch to the next order and restart the original at any moment afterwards.

The output of this petfood plant is very large with a 7-days production!



Have a look at the film made by KSE: <https://youtu.be/ruWr3OJJyFs>