



## Report on Energy Day № 2 on Tuesday May 9, 2023 at Feed Design Lab

With 30 people interested in energy saving in the feed factory, we started with sandwiches at 1 pm after the walk-in. Trudy van Megen opened the day and after a short round of introductions, Arie Janssen of Vitelia Voeders had the floor. His presentation entitled “After MJA’s energy efficiency, Vitelia opted for ISO 50001”, gave an overview of the process and experiences with energy saving at Vitelia Voeders. We all have the same problem, let’s share more how to handle this was also his opinion. The questions and discussion that followed were mainly practical in nature: The Innovation Team is more effective because you work in a multidisciplinary way. With ISO 50001 and an independent chairman of the Energy Team, there is structure and both are necessary for progress and results. Constantly changing laws and regulations are part of the quality system and you don’t want to do too much or too little energy monitoring: it is important to properly analyze the measured data and then act.

The 2nd speaker was Erik Kuiper from For Farmers with his presentation: “Biogas, go circular”. The biogas that comes from the manure of 5 dairy farms near the factory in Deventer is used there. This process is circular, also produces fewer emissions and less leaching into the groundwater, and has social support! Financially it is not yet attractive. If the quality of the gas can be converted to Green Gas (currently still very expensive) and farmers in agricultural concentration areas can jointly create a hub, or if this generates Carbon Credits, it may be financially more attractive. It is important to use daily fresh cattle manure. Pig manure was not included in this project.

After a quick coffee break, Bert Mannes and Stephan Tollenaar of Van Mourik Group gave a duo presentation on “Experiences at animal feed companies with energy consumption”, in which experience and data expertise could effectively complement each other. By explaining the design of an energy scan and by showing an extensive example, the discussion got off to a good start. Here again practical questions such as what does the hardware and software cost to measure a part, but also that good measurement requires the right approach and knowledge.

Sharing experiences of a successful energy-saving measure by participants was requested in advance. The contribution of Voergroep Zuid was expressed by 2 trainees using 3 PowerPoint sheets. Monitoring together with the operators already yields good savings on an annual basis. At Arvesta, good savings have already been achieved with attention to a smaller energy user in the factory. In the discussion it turned out that estimating the idle load can better be replaced with actually measuring the idle load, for better calculations. At the AR Group, the mono roll has led to 15% energy savings for BOA and press after 1 year of testing. With the same pellet quality, they see improved capacity and less wear, the investment is of course a point. Vitelia Voeders indicates that it

is important to immediately include the staff in the process, awareness and thinking along is essential. Triott indicates that some obvious actions such as turning off a machine when it is not used for a while and optimizing your chain transport are not obvious everywhere. The principle of Spilled Grinding can save energy and also benefit the animal. Van Aarsen indicates that when pelleting, removing the rolls from the press at rest can also yield 5%.

Process technologist Eric Vissers explained what the Energy team with experts could do for feed mills.

After that, each participant indicated what they thought of this 2nd Energy Day, what need for knowledge in this area they see and whether the E-team is a good idea. In general, the E-team is a good idea, expansion with a fresh-looking young person is welcome. Sharing information is essential and that is a thorny issue for some potential users of the E-team. We are all in the same boat and we all have to save energy!

In a next Energy Day there is a need for more practical experiences to share, how do you measure properly, properly analyze the data that is already available and apply actions from it. In addition to the rapid savings, attention is also paid to the next major steps in saving: what can be done with hydrogen; effect skipping pelleting proces for the chain. Also take water and waste savings with you right away!

This 2nd Energy Day is experienced positively, many ideas and experiences from practice, networking. Schedule more time for discussion next time. Starting the day earlier is better than running late at the end of the day.