

# No waste!

## Turning processing waste into valuable proteins

For many years, remains of poultry processing were seen as waste, but today intestines, fat, feathers, bones and blood represent a valuable contribution in creating extra income from poultry production. Recycling has become a magic word.

Before 2015, Myronivsky Hliboproduct (MHP), the largest Ukrainian and second-largest European poultry production company, considered processing animal by-products as waste and treated them as such. A few years ago, it installed a fully integrated rendering facility with which they, before the Russian invasion, generated additional profits. These profits were possible due to the improved quality of their products and stepping up to the premium quality segment of key products: meat and bone meal and fat. Meanwhile, a sharp rise in prices for vegetable proteins and oils supported an increase in the price for animal proteins and fats. This makes rendering important for the company. Vitalii Adamchuk, Technical Director of MHP's Poultry Department, says that the company constantly focuses on improving processes by optimising, reconstructing, and modernising equipment and production lines in order to reduce costs. It does so in close collaboration with the rendering division of Mavitec Group from Heerhugowaard in the Netherlands.

### High yields

MHP's management is aware of their responsibility for the environment and the economy of the whole operation. Adamchuk states: 'We have to take care of poultry production and processing as well as the requirement for quality feed.' 'In the market there is', according to Maxime Guzev, Head of MHP's Processing Products Export Department, 'a widely held opinion that the quality requirements for pet food (dogs, cats) are not fundamentally different from the requirements for the nutrition of young children. This forces the company to perform for the best.' One of the key problems, however, is delivery time. 'To get super-premium quality feed, it is very important to minimise the time from receiving the waste to delivering the finished product.' Adamchuk proudly states: 'At MHP, this time lapse is a maximum of six hours, which no company





## Converting biomass into renewable energy

Rising energy prices are leading to increased interest in converting biomass into renewable energy and creating additional revenue streams. Mavitec developed an innovative technology that converts various kinds of manure into green gas and high-value EcoChar, a valuable by-product of the gasification process. Gasification ensures a smaller environmental carbon footprint and will be one of the answers to future energy needs. Gasification is a new way of solving manure issues and offers a lot of advantages such as volume reduction, production of renewable energy and reduction of CO<sub>2</sub>. The produced heat can be used as energy or hot air and the valuable by-product EcoChar can be used as soil improver.



in the world can match. This allows us to get premium yields, which means that rendering in some cases yields higher margins than ready-made chicken.' That is why rendering is not waste handling but nutrient management, contributing to the desired circular economy.

**For large and small operations**

Mavitec is a Dutch designer and producer of high-quality recycling technology for

the rendering industry. It turns non-edible by-products from the meat industry into high-quality proteins and oils for use in pet food, animal feed, and in the oleochemical and/or the pharmaceutical industry. Maco van Heumen, CEO of Mavitec Group: 'The way of processing determines the value of the end products. We provide solutions for high-end processing companies but also for small abattoirs.' <<<

Vitalii Adamchuk, Technical Director of MHP's Poultry Department.



**No company in the world can match this**