

Profitable conversion of by products

Solution for residual handling

Sanovo Solutions presents an innovative and original way of handling eggshells and cardboard egg trays from the egg product industry. These materials, earlier considered as cost-intensive by-products, can now be processed into a sellable product and process energy.

In this unique process a mixture of eggshells and egg trays is combusted under controlled conditions. The combustion develops heat that can be used for e.g. steam production widely used in the egg product industry. Moreover, the combustion residual constitutes burnt limestone or quicklime, a commodity chemical widely used e.g. in the building sector. Due to the very high purity of the starting material – the eggshells – and the composition of the egg trays, the burnt limestone is of a quality exceeding or comparable to commercial limestone qualities.

The advantages of this completely new way of considering eggshells and egg trays are numerous. Most importantly:

- The consumption of fossil fuels, such as oil or natural gas, can be completely substituted
- Energy from the process is CO₂ neutral
- Transport and disposal costs of eggshells and egg trays are eliminated
- The risk of disease spreading from eggshells and egg trays is eliminated, as none of these materials leave the production facility
- Burnt limestone has a significant market value and is used everywhere.

The elements of the complete turnkey plant delivered by Sanovo Solutions include the following treatment steps and units:

- Shredding of cardboard trays for easy handling.
- Pneumatic transport system for shredded egg trays.
- Storage and transport facilities for eggshells and shredded trays into the combustion unit.
- Combustion unit coupled to a boiler unit for steam or hot water production.
- Storage facilities for the combustion residue - burnt limestone.

If you are in the egg product business this will solve your residuals problem for good!



Problematic residuals...



... turned into a raw material for energy and chemical production.



Combusted under controlled conditions...



... resulting in the commodity chemical burnt limestone.