



FACTORY OF THE FUTURE

TOPIC 1: Ultra sound meat processing

ULTRASOUND TECHNOLOGY

- The US induces disruptions in the cell membranes of the meat cells
- Release of intracellular water into the meat matrix
- The US enhances the outflow of free water into the meat environment



TOPIC SUMMARY / OBJECTIVE:

- Ultrasound meat treatment should bring higher efficiency of production process
- Concept of industrial scalability for existing Vafo production site to be created

HOW TO:

- Choose high meat content product from Vafo portfolio with highest expected benefits
- Propose solution (technological concept) and perform pilot testing

DELIVERABLES EXAMPLES:

- Redesigned specific process with key technology changes, key process parameters & benefits
- Sample of final product with report (physico-chemical results, process diagram)



TOPIC 2: Energy cross flows / recuperation in factory

TOPIC SUMMARY / OBJECTIVE:

- Different processes in multi-technology factory need different types of energy with different inflows, outflows and losses.
- How to create one connected system targeting zero losses of used utilities?
- Evaluate this concept for chosen Vafo factory with feasibility assessment

HOW TO:

- Explore different production technologies and their processes
- Choose factory or specific sub-process in the factory and map flows of all utilities used
- What is waste energy from one process can be input to another one: match of them to use maximum of all energy in the system

DELIVERABLES EXAMPLES:

- Feasibility study with identification of key technical upgrades & projected benefits (KPI's, cost impact) for chosen factory or process
- Concept of energy super efficient factory which could be used when designing next Vafo plants design



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