



Increasing sustainability and quality of organic produce

SusOrganic







Introduction

SusOrganic will develop technical solutions, standard operation procedures and guidelines leading to increased product quality that is reliably achieved whilst reducing resource consumption.

What: Technical solutions and guidelines to improve product quality

Why: Consumer awareness and legal standards require high quality and sustainability for successful marketing

Where: throughout the EU

Background

Organic food is expected to be of high quality and produced sustainably regardless of its degree of processing. EC legislation defines organically grown food as high quality food which has to be handled carefully throughout the whole life cycle, but explicit rules only exist for actual agricultural production and additives used in processed food. There is a lack of guidelines for food processing conditions for organic raw materials, along with the environmental footprint of the product.

Main activities

- Development of quality standards and improved product quality
- Processing guidelines and optimised processes for higher product quality and energy efficiency
- Environmental impact (LCA) and economic (LCCA) analysis
- Tests (drying/cooling) using the process settings commonly used
- Optimisation of process settings and control
- Development of on-line non-invasive systems based on optical properties of food matrices
- Establishment of a sound database
- Stakeholder engagement





Expected societal benefits of the project

Seminars and training material for producers of organic food materials and products and the food industries as a whole in the partner countries on improved processing and handling of raw materials and processed produce, which then can be further disseminated throughout the EU, will be held and provided. The producers will be provided with baselines for the environmental impact of their production. Moreover, transferability to other products is expected to be high.

The approach and study developed can be easily applied to existing devices as retrofit; new built devices will be simple and affordable even to very small participants in the market, and therefore contribute to the increase of their livelihoods (lower costs, better environmental performance).



Expected long-term impacts

The outcomes contribute to food security and safety, and resource efficiency in food manufacturing. Producers of organic produce will be assisted to improve the sustainability product quality of their products, and thus, increase their competitiveness.





Coordinator

Barbara Sturm, University of Kassel, Germany

Partners

Michael Bantle, SINTEF Energy Research,

How to reach target groups

At least one training pack for on-farm and off-farm producers of dried and cooled/frozen fruit, vegetable, meat and fish products in each country will be held. Workshops will be carried out on the main aspects of changes in the products throughout processing and their causes.

