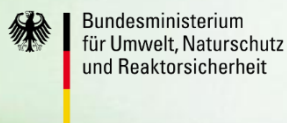


# SusNisia – Feasibility Study and Project Development for Sustainable Circular Economy Structures for Islands in Greece

## Circular Economy Concepts for Greek Islands – Export Initiative for Environmental Technologies

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## Background

Due to the challenges in the implementation of waste management regulations and European standards (e.g. the implementation of the European Landfill Directive) there are hardly any sustainable recycling systems in Greece. Currently, the untreated landfilling of solid wastes generates environmental impacts as well as risk of landfill fires and releases significant CO<sub>2</sub>-emissions. The recycling of wastes and separated collection of organic wastes is incorporated in the Greek National waste management plan.

## Project idea

By means of a feasibility study the basis for a holistic material management system for biogenic residues on islands will be demonstrated on the example of the islands Lesbos and Chios. The study includes assessment of technical and infrastructural components based on German environmental technologies and systemic solutions. Derived on the status quo situation and evaluation against optimizations, the viable options for actions and implementation-oriented concepts will be developed individually for the islands. Herewith the questions of inter-sectoral connection between energy and tourism, bioeconomy, as well as refugee crisis related wastes such as live vest and dinghies will be integrated in the feasibility study. Finally, pilot projects will be developed with the goal for implementation from 2019.

From German side the companies Bekon GmbH, Pyreg GmbH und Palaterra GmbH, as well as the Alps Research Institute GmbH are involved in the project. Besides academic partners as the University of the Aegean and German experts in the fields of circular economy and project development, a variety of stakeholders in the region are involved in all steps of the project.

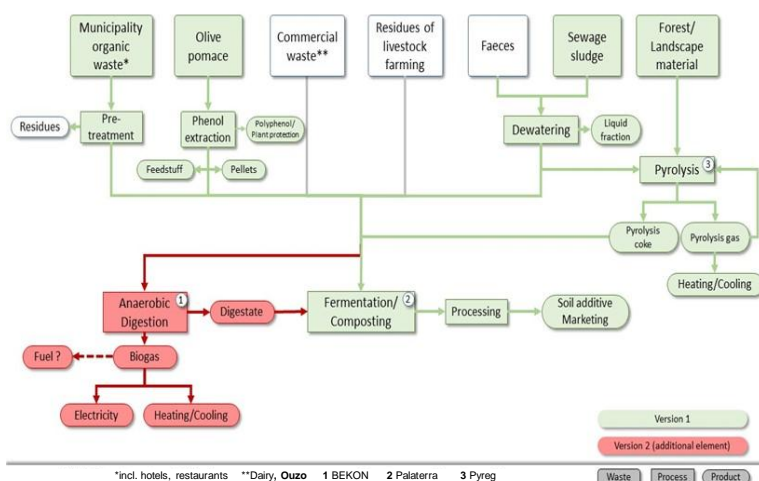


Figure 1: Example for a circular economy concept (IZES gGmbH)

## Objectives

With regard to the goals of the German initiative to promote environmental technologies abroad, the project creates crucial preconditions for continuous sustainable development within the solid waste management sector in the target country. The detailed feasibility study in combination with a concrete pilot project development strengthens the economic positions of German environmental technology companies by acquisition of new markets.

## Work Packages

- AP 1: Status quo analysis
- AP 2: Introduction of options for action
- AP 3: Development of action plans
- AP 4: Integration of bioeconomy aspects
- AP 5: Integration of refugee crisis related wastes
- AP 6: Development of pilot projects