

ZEFFIROS ACTIVITIES

- POLICIES & REGULATIONS REVIEW
- BEST PRACTICES REVIEW
- SPECIFICATIONS SETTING
- VALUE CHAINS DEFINITION
- PILOTS IMPLEMENTATION
- AWARENESS RAISING
- CAPACITY BUILDING
- MODEL BUSINESS PLANNING
- GUIDELINES CONDUCTION
- e-GUIDANCE

www.zeffirosproject.eu



The project is co-funded by the European Union and by National Funds of the participating countries

PROJECT BENEFICIARIES



MUNICIPALITY
OF SERRES



ARISTOTLE UNIVERSITY
OF THESSALONIKI



SLAUGHTERHOUSE MUNICIPALITY
OF STRYMONA O.L.G. S.A.



MUNICIPALITY
OF DOJRAN



MUNICIPAL PRIMARY SCHOOL
"KOCO RACIN" DOJRAN

ZEFFIROS

Zero-waste energy-efficient agricultural communities in the Greece - Republic of North Macedonia cross-border area



Building a biowaste-based circular economy in the Greece - Republic of North Macedonia cross-border area

Cross-border area sustainability

SPECIFICATIONS & QA

Setting specifications for collection, transport and treatment of local bio-waste streams.

Guaranteeing **optimum conditions** for efficient anaerobic digestion and **regulative compliance**.

ZEFFIROS designs QA procedures for:

- Efficient and compliant local bio-waste supply
- Compliant end-to-end treatment of bio-waste streams
- Uninterrupted thermal-electrical energy production
- Certifiable production of digestate by-products

Rural development based on bio-waste

AWARENESS RAISING AND CAPACITY BUILDING

ZEFFIROS **engages the cross-border society** through

- piloting
- public surveys
- public campaign
- open events

ZEFFIROS **trains** local farmers, business owners, municipal staff, civil servants, teachers and other stakeholders

VALUE CHAIN MODELING

ZEFFIROS **identifies complete business value chains around two pilot biogas units** in the CBA.

- It investigates **technical and legal frameworks**
- It sets **operational specifications**
- It articulates **scale-up plans for future public and public/private investments**

PILOTING

ZEFFIROS implements **two small-scale pilot biogas production plants** - one in **Serres** and one in **Dojran** - digesting bio-waste substrates supplied by nearby farms, crops, food processing facilities and a slaughterhouse in Greece.



ZEFFIROS also implements **a pilot on the use of urban compost bins.**

The project offers rural and semi-urban households the opportunity to use neighborhood-based compost bins.

The **ZEFFIROS pilots aim to:**

- verify and showcase **real local value chains**
- indicate **new markets** for digestate fertilizers
- showcase **energy autonomy** aspects
- present working **examples to investors** and local authorities
- demonstrate **social benefits**
- pave the way for **scale-up in the CBA**



Procedures on

- Biogas plant O&M
- Bio-waste streams
- Digestates certification
- Energy management
- Compost management



e-Value Chain

A web-based GIS app locating professionals and other stakeholders in the biogas value chain to promote synergies in the CBA.



e-Guides & Handbooks

Regularly updated e-Learning materials. e-Handbook with international good practices of sustainable use of local bio-waste resource

