

Project Title	Integrated management and exploitation of multi-dispersed agricultural residues – application to energy production		
Acronym	SYNAGRON	Project Coordinator	Prof. Vagelis G. Papadakis
Organization	SIRMET S.A., Mr GEORGIOS SYRIOPOULOS		



SIRMET S.A. was founded in 1990 in Patras by a team of engineers and scientists with many years of experience in industry and research institutions. Their aim was to create a company that would provide essential support to companies attempting to establish themselves in the Greek market.

SIRMET S.A. has a long history of engagement with industry and public projects, in co-operation with research institutions. The company's customers are located throughout Greece and in other EU countries, where it co-operates with high technology companies, Technological Institutions and Polytechnics. SIRMET provides services to clients of the private and public sector (e.g., waste management operators, government bodies, local authorities, financial investors, institutions) the fields of:

- a) Environmental Engineering (Wastewater and sewage treatment, Treatment of flue gases, Potable water and industrial water treatment/reuse),
- b) Rational use of energy - **Renewable energy sources** (photovoltaics, clean energy production, **biomass, biogas production and usage**),
- c) Industrial engineering.

The company delivers key solutions ensuring success in all project phases: planning/ Implementation/ Design/ Construction/ Operation. Sirmet is member of PRAXIS network, the biggest organization for R&D networking in Greece.

INDICATIVE R&D PROJECTS:

- BIOCATSYS «Purification system for the removal of hydrogen sulphide from biogas by development of a sophisticated cost efficient nanocatalyst».
- AGROWASTE «Energy Production from Anaerobic Treatment of Agroindustrial Waste».
- LEADERA «Energy production from Anaerobic Treatment of Agroindustrial Waste».
- ALTENER «Integrated Regional action Plan for the development and Exploitation os Small Hydropower and Biomass Energy Potential of Western Greece».
- MEDSPA «Recycling and solid waste Composting of Municipals Nafpaktos, Antirion, Rio and Aktaio».
- LIFE «Solid Waste Management and Treatment of MOTOR OIL Corinth Refineries SA».
- ENVIRONMENT «Optimization of ozonation process in industrial wastewater treatment».
- BRITE EURAM «Development of a Flexible Bioprocess for Handling and Recycling: Seasonal Industrial Process Liquid Effluents "FLEXIBLE"».



Fig. 1: Picture of an anaerobic wastewater treatment plant in the milk processing industry that SIRMET is designed, constructed and tested for LA FARM S.A. The unit was delivered in April 2017.



Fig. 2: Picture of an anaerobic wastewater treatment plant in the milk processing industry that SIRMET is constructing for EXARCHOS S.A. (SIRMET has also designed the plant, and will eventually test it). The project is under construction and will be delivered in May 2018.

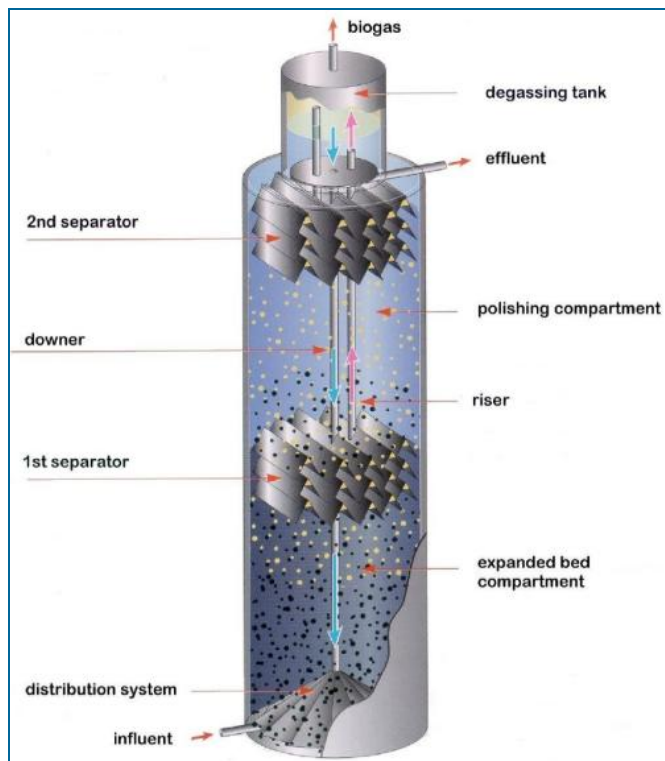


Fig. 3: Schematic representation of an anaerobic paper mill wastewater treatment plant that SIRMET is constructing (SIRMET has also designed the plant, and will eventually test it) for SONOCO ALCORE Hellas S.A. The project is underway and will be delivered in August 2018.