



SUSTRAINY

Sustainable action Training for Youth



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SUSTRAINY PROJECT



PANORAMA OF SUSTAINABLE BUSINESSES PRACTICES

CREATING SYNERGIES
BETWEEN INDUSTRIES
AND PRODUCERS

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CREATING SYNERGIES BETWEEN INDUSTRIES AND PRODUCERS



Source: Pixabay

Category – Key words	Synergies, Sustainable practice, Industrial symbiosis, optimising, recycling, reducing waste, circular economy
Who?	Best practice: MIGASA Stakeholders: Oil mills, extraction industries, pomace refineries, animal feed sector, biomass companies, cosmetic companies, fertiliser companies, chemical companies.
Location	Spain
Years of implementation	1946 - ongoing
Website	http://www.migasa.com

Abstract

Industrial symbiosis is a business strategy that seeks synergies with geographically close companies by jointly searching for innovative solutions based on maximum efficiency in the use of resources. This strategy can not only be applied at local level, as demonstrated by the fact that waste is currently transported thousands of kilometres for both recovery and disposal, but can also be considered at regional and national level.

Industrial symbiosis involves organisations operating in different sectors of activity cooperating to achieve mutual benefit through the use of by-products, materials, energy and logistics, optimising the use of resources and reducing waste generation. In this respect, trust between actors plays a key role.

The Regional Ministry of Agriculture, Livestock, Fisheries and Sustainable Development participates in the European project SYMBI (Industrial Symbiosis for Regional Sustainable Growth and a Resource Efficient Circular Economy). This includes different good practices such as the valorisation of by-products from olive oil production.

The current form of two-phase olive oil extraction produces olive oil and a secondary product called wet fatty pomace.

The wet fatty pomace is treated in the extraction industries, obtaining: crude olive pomace oil, remains of stones and orujillo.

Olive pulp is obtained from the pomace, which is used to feed animals due to its protein content, and for the production of fertilisers, compost and amendments. The orujillo is also used as biomass and in the composition of fertilisers.

In turn, crude olive pomace oil is refined, obtaining refined pomace oil and refinery pastes used as animal food and cosmetics, and fatty acids used as animal food

Concept Addressed

- Industrial symbiosis is a corporate approach that seeks synergies with nearby companies by working together to find innovative solutions that maximize resource efficiency.
- Synergy refers to the idea that the combined worth and performance of two companies is greater than the sum of their individual parts. The result of two companies merging to increase efficiency or scale is known as a synergy merger.



Relevance

Fulfilling its environmental commitment, MIGASA's facilities include a fatty acid distillation plant in Mengíbar (Jaén). This plant is equipped with the most modern technologies and a quality management system that make it an international benchmark in these types of products.

The distilled fatty acids are used as animal food as a fatty support of vegetable origin, in the pharmaceutical and cosmetic industry as a support for obtaining detergents, soaps and ointments, and in the chemical industry as a complement to varnishes, paints and polymers.

Eventually accreditation

Migasa is the winner of 'International Trajectory' at the XIV Alas Awards. Valorization of by-products from olive oil production.

Tips to implement

- Create a culture based on the Importance of the reuse of waste produced by the food industry, for the double benefit of the company itself and the environment.
- First of all, you should define which sub-products are generated as a consequence of the production of the main feed/product. Once it is clear which sub-products are generated, an investigation should be made as to what other products and materials can be created. After studying if this is profitable for the company in economic terms, a trial period should be started, if this period is satisfactory, it should be officially launched in order to support the environment and fight against climate change.



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