

TREATMENT OF BYPRODUCTS

OLIVE OIL WASTE

VEGETABLE WATER & OLIVE POMACE



SMALLOPS OFFERS AN **INNOVATIVE TREATMENT** FOR **POMACE OIL PRODUCERS** AND **OIL MILLS**, ALLOWING **MORE EFFICIENT USE** OF OLIVE POMACE AND **GENERATING NEW INCOME** IN A **SUSTAINABLE WAY**

We have developed a technology that allows us to **valorize both vegetable water and olive pomace**. Thanks to our technology, we are able to valorize alperujo by transforming it into **nanoparticles, called OPS**. OPS have a high potential to be used in different environmental applications. In addition to nanoparticles, our technology enables the **production of biogas exclusively from these byproducts**.

OPS APPLICATIONS



BIOGAS



WATER
TREATMENT



TREATMENT OF GAS
STREAMS



FERTILIZER



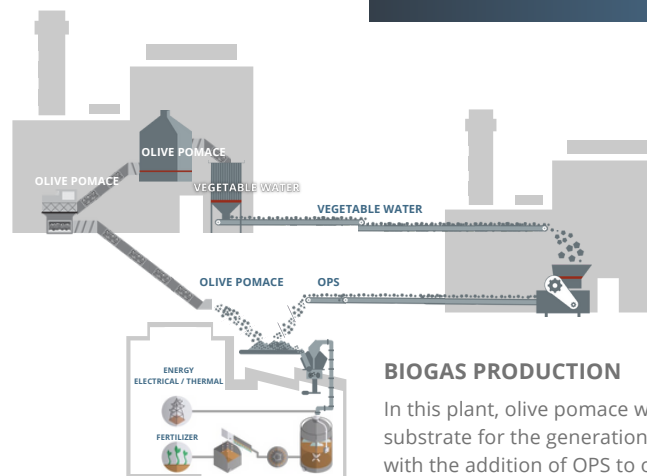
NEW
MATERIALS



SIMPLE EXAMPLE OF THE PROPOSED SOLUTION

POMACE OIL PRODUCERS - OLIVE MILLS

They will be the ones who supply the olive pomace for the OPS and biogas production partnership plant.



VALUATION OF VEGETABLE WATER

In this phase, the vegetable water is valued, producing the OPS for its subsequent application in the digester and its sale.

BIOGAS PRODUCTION

In this plant, olive pomace will be used as a substrate for the generation of biogas together with the addition of OPS to optimize the process.

BENEFITS OF THE PROCESS

It offers an **on-site solution** to manage olive pomace, **eliminating transportation costs**, producing **OPS** and **improving the energy efficiency** of the process.

It resolves the accumulation of alperujo, produces iron nanoparticles (OPS) for sale or self-consumption in biogas production, improves the quality of biogas and reduces operating costs.