

OLIVE MILL WASTEWATER TREATMENT

Innovations and Benefits - The innovative membrane separation technology allows to extract polyphenols from highly polluting oil mill wastewater using solvent- and/or reagent-free processes.

Uses - Treatment of highly polluting olive mill wastewater, the so-called vegetation water. Recovery and recycling of: polyphenolic compound, remaining organic matter, and water. Use of the extracted polyphenols as antioxidant/antibacterial agents in many food products, for their better quality and conservation, and a longer product shelf-life.

Production of demineralized water to be recycled and reused; energy production to power the system.

Past and Present Activities - Activities are in progress with Genelab s.r.l., providing qualified technical consultancy and other services related to membrane processes, and with PhenoFarm s.r.l., a company specialized in marketing products containing polyphenols obtained with the ENEA-patented process.

