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INVESTIGATE - CREATE - MOVE FORWARD
with renewable solutions!

About us

Title: Investigating the application of forward osmosis and downstream processing for resource recovery of wastewater

Acronym: FORWARD-WATER

Total budget: 190,000 euro

Duration: 36 months

Start date: 24/12/2019

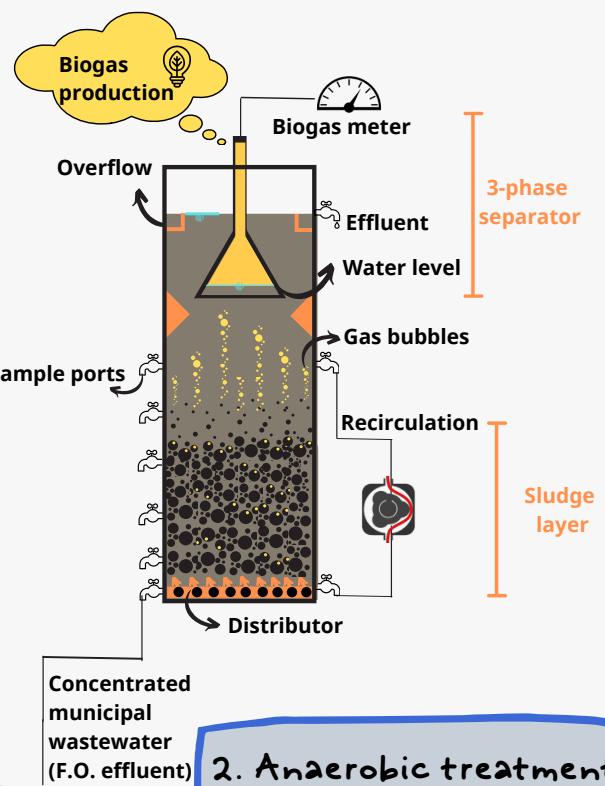
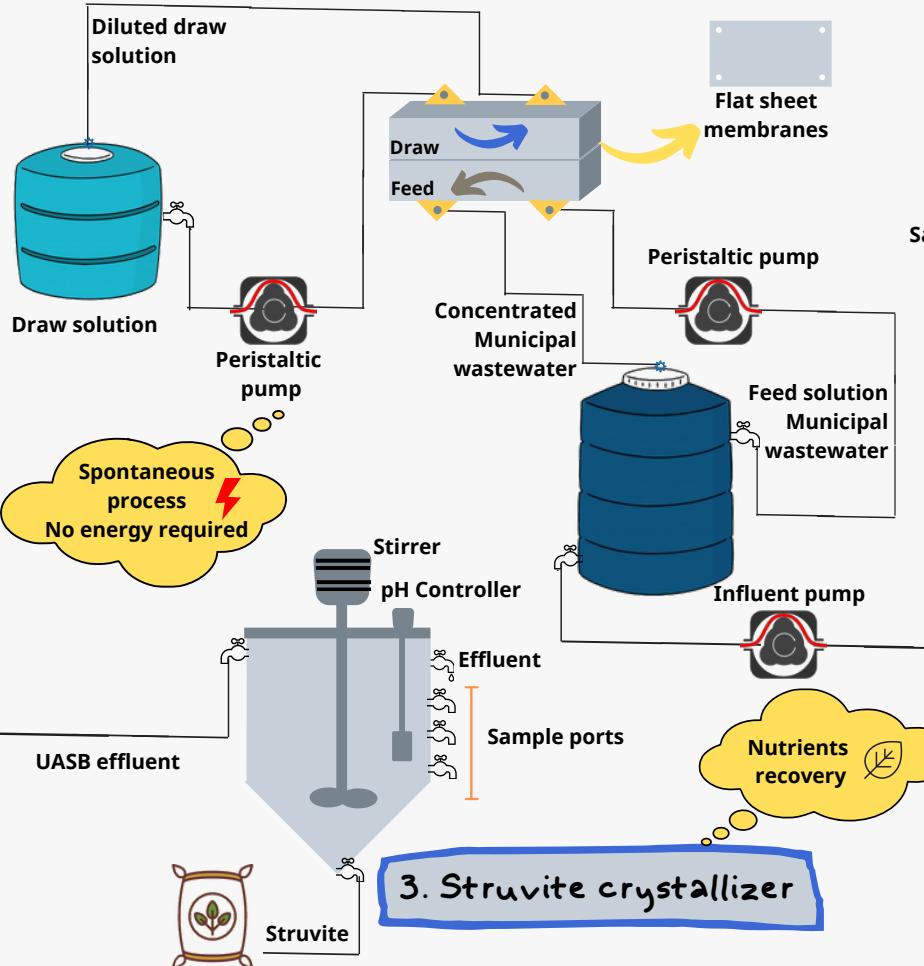
FORWARD-WATER will develop and implement a revolutionary process for treating wastewater, which consists of pre-concentration using the spontaneously occurring FO process followed by suitable downstream processes to recover energy and materials. These processes consist of anaerobic treatment to recover energy and chemical precipitation to recover nutrients.



<https://www.forwardwater.gr/>



1. Pre-concentration of sewage with FORWARD OSMOSIS system



2. Anaerobic treatment of concentrated wastewater with a UASB reactor

Our goals

- Draw solution optimization
- Membrane selection
- Minimize membrane fouling
- Maximize membrane flux
- Maximize energy recovery
- Accomplish nutrients recovery
- Evaluate (economically and environmentally) the FO and downstream processes

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