



# Advanced Membranes for biogas upgrading and high added value compounds recovery - BIOVALUE

**BIOVALUE project will use membranes - advanced nano-structured functional materials - for driving environmental-friendly and less energivorous separation processes valorizing waste as required by circular economy dictates.**

Bio-digester gas streams contain valuable products such as bio-methane and VFA whose recovery has important advantages for the environment protection, energy saving and waste valorization.

BIOVALUE focuses on the development of a membrane-based innovative process for the treatment of biogas produced by a real bio-digester. Advanced membrane units will valorize the biogas by separating its various components, i.e., bio-methane, VFA, water, etc.

Membrane operations are nano-based key enabling technologies, based on advanced functional materials, capable to selectively separate small molecules. This confers to the membrane a specific functionality that, coupled to its configuration (very thin layer), leads to continuous separations more effective and economic.

Call: M-ERA.NET Call 2018  
Call Topic: Functional materials  
Acronym: BIOVALUE  
Duration: 36 months  
Start date: 01 Apr 2019  
Estimated Project Cost: € 1.296.238  
Contact: Ing. Giuseppe Barbieri (CNR-ITM)



## Partners



## Local funding bodies



M-ERA.NET 2 has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 685451.