

Innovative technology scale-up for the control and automation of codigestion in WWTPs to produce green energy on demand

## objectives

The main objective is the scale-up to real real-scale the technology to produce in-demand biogas from sewage sludge and agri-food and manure waste through upgrading existing demo-scale application and its demonstration and replication in real digesters in WWTPs



Adjustment of 98% between target and simulated biogas and 90% between target and produced one

Upgrade of the existing tool, enhancing robustness, accessibility and stability for real-scale application

Increase 192% waste treated, reaching 85,191 t treated



Valorization of agri-food waste and manure in the framework of circular economy Increase of 14% biogas produced with same organic matter to produce a total of 22,111 kWh/y

Reduce yearly emission of GHG up to 24,343 tCO<sub>2</sub>-eq, 8,977 kg SO<sub>4</sub> and 6,465 kg NO<sub>x</sub>

Coordinator









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