

## BIOENPRO4TO

**Smart solution for smart communities: Bioenergy and sustainable products (output) derived from the integrated valorisation of urban waste (fusu), industrial waste, biomass and waste water (input) through intelligent functional modules**

The project is focused on **Bioenergy and Products (Outputs) resulting from the exploitation of its Residual Materials (Inputs), such as Urban Waste (FORSU: 79 / Kg year x person) and Industrial, Biomasses, Sludge and Wastewater.**

New Functional Modules will be developed, on an "Intelligent Architecture", which activate surprising synergies between the "Operational Pillars" in terms of feasibility, solidity and application flexibility; **sustainable solutions, developed by BioEnPro4TO, will be addressed to Smart Cities and Communities** in general; the priority will be on medium and small communities.

The Bioenpro4to objective is **to realize models and demonstrators, with "Living Labs", to develop and implement the Virtuous Strategies of Circular Bioeconomy** (scalable at the level of Territories, Sites and/or Buildings) with tendential guidelines of: "Self Sustain"; Zero Emissions (CO2 eq.); Zero Wastes; Best Value.

BioEnPro4TO is a project funded under the Technological Platform of "Bioeconomy" by the Piedmont Region with the European Regional Development Fund (FESR) 2014/2020

### FUNDED PROJECTS PROJECT SHEET



Politecnico  
di Torino  
Department of Environment,  
Land and Infrastructure  
Engineering

#### PROJECT DURATION

36 months  
(from 13/05/2019 to 13/05/2022)

#### WEBSITE AND SOCIAL MEDIA

[www.bioenpro4to.it](http://www.bioenpro4to.it)



#### PARTNERS

- SEA MARCONI TECHNOLOGIES SAS (Coordinator)
- UNIVERSITÀ DI TORINO
- SANTER REPLY SPA
- CIDIU SPA
- SMAT SPA
- BARRICALLA SPA
- SAN CARLO SRL
- OMPECO SRL
- STEP SOLUTIONS SRL
- CIDIU SERVIZI SPA
- Politecnico di Torino (DISAT and DIATI)

#### FUNDING INSTRUMENT

Fondo Europeo di Sviluppo Regionale (FESR)

#### BUDGET

Total Funding: **5.688.313,74 €**

#### POLITO and DIATI's role:

For Politecnico di Torino, the project involves DISAT and DIATI departments.  
Scientific manager for DIATI:  
Prof. **Luca Ridolfi**