

URBIOFIN – FROM URBAN WASTE TO BIOPRODUCTS

The URBIOFIN project offers a new model for Organic Municipal Solid Waste management, based on the Urban Biorefinery concept. URBIOFIN is a **modular** and **flexible, zero-waste urban biorefinery**, designed for municipalities from 250,000 inhabitants and above.

THE USER GROUP

Municipalities and waste management operators who want to **advance the sustainability** of their operations, **prepare** for future legislation and **add value to their business** while transforming waste into added-value marketable products.



BUSINESS SCENARIOS

We are living in a time where resource production can barely keep up with global demand. **Efficiency and innovation** are key for the success of each business. Here, URBIOFIN can be your solution to boost the **circular economy** by considering waste as a resource. Through this new model of biorefinery the organic fraction of municipal **waste is transformed into new sustainable products such as bio-based chemicals and agricultural bioproducts**. URBIOFIN biorefineries are **modular, flexible and adaptable**, so you can choose to implement one, or several, URBIOFIN technologies, according to your needs and performance. The model can also be scaled later based on the environmental and economic benefits you look to achieve.

YOUR BENEFIT

By monetizing the organic fraction of your MSW and generating new revenues from the process, it allows you to **reduce waste management and treatment costs**.

TARGET CARBON EMISSIONS REDUCTION

An estimated 1.6 billion tonnes of carbon dioxide-equivalent (CO₂-equivalent) greenhouse gas emissions were generated from solid waste management in 2016. This is about 5% of global emissions (World Bank 2018a; Hausfather 2017). Without improvements in the sector, solid waste-related emissions are anticipated to increase to 2.6 billion tonnes of CO₂-equivalent by 2050. More than 80 countries committed to reduce emissions through the historic 2017 Paris Agreement. Improving waste management is one way of contributing to this effort.

MARKET FORECAST - BIOETHANOL

One of the final products of the URBIOFIN technology is **bioethanol**. It is the largest biofuel with an estimated production of 150 billion litres in 2020. With a **50% market growth** over the last 7 years, the product is still highly demanded because novel industries discovered the molecule also as useful platform to **produce value-added chemicals**.