

PRODUCTION OF BIOFUELS AND BIOBASED COMPOUNDS IN URBAN BIOREFINERIES: A STRATEGY TO MANAGE WASTE IN WALLONIA?

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“Urban biorefining” is an original concept aiming at using urban wastes (household wastes, municipal wastes, industrial liquid and/or solid residues and side-products, etc.), mainly of vegetal origin, for the production of an array of biofuels and bioproducts.

This “urban biorefining” concept fits particularly with the economic, geographic and politic contexts and constraints of the Walloon Region (south part of Belgium). Indeed, Walloon Region is a very small territory (area of about 6,504 sq mi) with a temperate climate. Supply feedstock, mainly arising from forestry and agriculture, are thus rather restricted, submitted to importation, and subjected to non-standardized quality.

Several examples of our regional strategy, still available on an industrial scale, are herein proposed and detailed.