

PRODUCING NOVEL NON-PLANT BIOMASS FEEDSTOCKS AND BIO-BASED PRODUCTS THROUGH UPCYCLING AND THE CASCADING USE OF BREWERY SIDE-STREAMS

## Demo site at a large brewery in MAHOU SANMIGUEL



An integral solution for the valorisation of all byproducts and side-streams via 2 novel biobased production platforms (insect and microbial) and 5 bio-based products.

- Insect based upgrading of bagasse into 13.5 ton/y of insect protein for drinks.
- Microbial conversion of CO2 and wastewater into 700 kg/y caproic acid for feed.
- Microbial conversion of CO2 into 50 kg/y chlorine for sanitizing products.
- Microbial conversion of biogas into 20 kg/y of ectoine for cosmetic products.
- Microbial conversion of biogas into 482 kg SCP/y for pet food production.

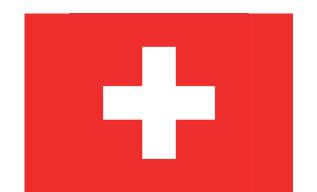














































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