

Microalgae

Bioremediation of effluents with microalgae strains



Photo: Leticia Jungmann



Embrapa
Agroenergy

Bioremediation of effluents with microalgae strains

Raw material

Process

End product

Effluent

Bioremediation

Effluent treatment

Microalgae strains capable of promoting the biological reduction of the organic and inorganic loads of effluents, achieving high biomass productivity and assimilating CO₂ emitted by agro-industrial production processes.

Applications

- + Treatment of agro-industrial effluents from palm oil and sugarcane industries for producing oil, sugar and alcohol (POME and vinasse).

Advantages

- + Accordance to the Brazilian environmental legislation (Resolution 430/11 Conama).
- + Biological and low cost treatment.
- + Production of algal biomass that can be used for the production of animal feed, fertilizers or energy.

Stage ► TRL/MRL 4 - Lab scale

Take this
technology
to another
stage



Research
with us
for other
potential
uses



Make this
technology
the basis
of your
incubated
company

Person in charge: LETÍCIA JUNGSMANN CANÇADO

TC214