



Biofuels from Algae: Chapter 10. Applications of Spent Biomass

By A. Catarina Guedes, Helena M. Amaro, Isabel Sousa-Pinto, F. Xavier Malcata

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There are several difficulties in developing algal biofuels that can fully replace fossil fuels; the main challenges relate to lower environmental impact (including the possibility of CO₂ sequestering and wastewater treatment) and economic feasibility. To date, most studies have focused on selection of species, coupled with optimization of cultivation, biomass harvest and fuel extraction; efforts on enhancing environmental benefits and upgrading spent biomass are thus in order. Industry should indeed adopt an integrated strategy inspired by algal-based biorefineries – toward maximizing the economic return of all products present in algal biomass, by recovering high value compounds prior to biofuel manufacture, and using the remainder for aquaculture/land animal feed and production of other biofuels via supplementary fermentation.

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