



Biofuels from Algae: Chapter 12. Scale-Up and Commercialization of Algal Cultivation and Biofuel Production

Man Kee Lam, Keat Teong Lee

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Algae are currently being considered as a versatile feedstock for biofuel production because of their fast growth rate and high biomass productivity. Algae could simultaneously act as a carbon sink and water purifier if their cultivation were coupled with flue gas and wastewater treatment, respectively. Hence, an understanding of the overall supply chains for algal biofuel production is exceptionally important to determine whether it is worthwhile to scale up and commercialize algal cultivation for biofuel production. In this chapter, various aspects and constraints associated with the commercialization of algal biofuels are deliberated in detail, especially from the perspective of life-cycle energy balance. In addition, discussions on the economic assessments of algal biofuels are included in this chapter to provide an overview of the current state of algal biofuels in the fuel market. Potential algal biofuel conversion technologies, such as transesterification, starch hydrolysis and fermentation, pyrolysis, and hydrothermal liquefaction are also presented.

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