



# **Biohydrogen: Chapter 14. Scale-up and Commercial Applications of Biohydrogen Production Processes**

*Biswarup Sen, Chen-Yeon Chu, Chiu-Yue Lin*

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Extensive researches in the past have shown substantial improvement and development in both the yield and the volumetric production rates of biohydrogen. Yet, for commercial-scale applications that are cost-effective, biohydrogen yields and production rates must outdo significantly the existing accomplishments. Until now, there have been no reports of a commercial-scale biohydrogen production system in the world. This chapter deals with technoeconomic evaluation, fundamentals of scale-up, and pilot-scale studies to help in the setup of a commercial-scale system. The scale-up process with the key component of kinetics and hydrodynamics of a fermenter is further supported by data mining of reported pilot-scale systems.

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