

# Innovationspotenzial Von Biokraftstoff Aus Algen: Einschätzung Der Technischen Realisierungsmöglichkeiten - Stefan Ponsold

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To reduce the global fossil fuel consumption and to protect further environmental damages, the natural grown materials become a huge importance in our global economy. They can be divided in first generation and second generation biofuels. First generation biofuels have an inefficient CO<sub>2</sub> emissions to output ratio. In fact they currently need mineral-oil for their production. Second generation biofuels have nearly the same energy efficiency with much lower environmental damages. Producing a second generation biofuel, for example from algae, most of the needed process energy can be produced by the process itself. CO<sub>2</sub> outputs will be recycled by using it as an input product. To get a high biofuel yield from algae, light availability and intensity must be optimized to the current algae-species. Therefore biofuel reactors need to be optimized for a homogeneous light saturation. To estimate the innovation potential of biofuels from algae nine different assessment techniques were used. The result is, that there is no main method for biofuel production from algae on an industrial scale. It depends on consumer requirements, location and the technology. Author: Ponsold, Stefan Publisher: GRIN Verlag Illustration: N Language: GER Title: Innovationspotenzial von Biokraftstoff aus Algen: Einschätzung der technischen Realisierungsmöglichkeiten Pages: 00028 (Encrypted PDF) On Sale: 2009-01-01 SKU-13/ISBN: 9783640361434 Category: Business & Economics : General

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