



Welcome

The 5th year of our 15-year roadmap for industrial algae production is about to start. We have analysed and quantified the achievements of the last 4 years to be able to define the research program for the next 5-years. The Economic model for cultivation has been improved and the first estimations on biorefinery costs have been made.

[Read more and watch AlgaePARC movie](#)



Cost-effective algae production within reach

Profitable algae culturing for bulk products should be feasible within 10 years. Scientists at AlgaePARC developed a new economic model on algae production that includes not only technical parameters on production efficiency, but also socio-economic variables. 'Our first projections, based on 100 hectare production plants, have shown that we may reduce algae production costs by almost 50 percent', says AlgaePARC director

Maria Barbosa.

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Circadian rhythm in algae cells affects cell composition and biomass value

Microalgae have a strong day-night rhythm due to a daylight-synchronized internal clock. Just like in numerous other plants and animals, this biorhythm determines a wide variety of biological processes in the algae cell, including reproduction, growth and cell composition. Understanding algae biorhythms is therefore crucial to further optimize algae culturing and harvest.

[Read more](#)

Please, feel free to forward this newsletter to people that might be interested in updates from AlgaePARC.

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New Professor at Bioprocess Engineering

Prof. Dr. Michel Eppink has been appointed Special Professor at the Department of Bioprocess Engineering from March 2014. He will be responsible for the biorefinery group, currently consisting of about ten coworkers. Eppink's expert knowledge concentrates on mild separation technologies of complex biomolecules such as proteins, lipids and carbohydrates. Such technologies are specifically aimed at maintaining the molecule's structure and functionality.

[Read more](#)



Unusual Research paper

In October 2014 an unusual AlgaePARC research paper entitled '*Design and construction of the microalgal pilot facility AlgaePARC*' was published after minor revisions in the Journal of Algal Research. In the paper the authors describe in detail how to build and run a pilot plant, like AlgaePARC pilot facility, making it a

manual and a blue print for current and future pilot plants.

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