

CASE REPORT

CONTROL SYSTEM FOR PHOTOBIOREACTORS

This project is implemented through the CENTRAL EUROPE Programme co-financed by the ERDF.



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Summary

>Of the technology and its application area(s).

One of the most important challenges in the actual socio-economic situation is to produce sufficient quantities of biofuels, which can limit the consumption of fossil fuels and lower greenhouse gasses emissions, without competing with food production. One of few options for producing sufficient quantities of biofuels is the use of algae biomass. Algae can growth continuously 5–10 times faster than traditional crops, with no lands suitable for plant raising competition. The production rate per area unit is 20–50 higher than other plants. The actual production of algae biomass with already developed technology is still negligible the production costs are 5–10 times to high and algae biofuel are still non-competitive. Because of the great potential of algal technologies many development groups were established around the world in the last five years with the focus on economically efficient and scalable solutions for algae biomass production.









