

D1-1 Report on technical modification/innovation

Algetech Industrier AS has selected the photobioreactor (PBR) technology from IGV GmbH, which is one of the most advanced and acknowledged within the sector. However, mass production of microalgae in large-scale PBR is still a very new industry and there is a potential for technology improvement. Based on recent publications and in addition to Algetech experience, some elements have been considered of priority, such as the distribution of sunlight and artificial light to optimise the production effectiveness of the PBR and also the reduction of shear stress due to high circulation velocity and pumping technology. Algetech has now together with its collaborator GAVITA built two 100 litres PBRs to verify these topics.

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