MICROALGAE

High efficiency and economically sustainable solutions

The University of Queensland (UQ) technologies, capabilities and economic feasibility studies are addressing the needs of industry through the application and optimisation of microalgae to commercial and industrial processes. Microalgae are photosynthetic organisms that utilise atmospheric carbon dioxide (CO_2) and sunlight to grow. Industrial use of microalgae is a rapidly emerging sector demonstrating unprecedented growth.

Products that can be produced using microalgae include:

- Biofuels including Biodiesel, Methane, Ethanol, Aviation fuel and Hydrogen;
- Livestock and aquaculture feed;
- Food and cosmetic ingredients;
- Pharmaceuticals and nutraceuticals;
- Fertiliser and agriculturally active compounds; and
- Polymer and plastic precursor chemicals.

Further opportunities exist in the use of microalgae for other processes, including:

- Sequestration of atmospheric CO_2; and
- Remediation and desalination of waste and mining water.

IMBcom offers bespoke research services and welcomes enquires from parties interested in exploring microalgae applications to their business.

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