

Singapore Stanford Partnership Programme

MS Project MS08-03

Development of algae-based processes for the recycling of biodiesel production wastes

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Biodiesel production is rapidly expanding worldwide for various economic and strategic reasons. Unfortunately, the production of these pro-claimed “green fuels” is not environmentally benign, one particular issue being the release of huge amounts of glycerin-based wastes. This project will explore the possibility of using algae-based processes for the treatment of glycerin wastes from biodiesel production. Because algae can also produce oils suitable for biodiesel synthesis, an algae-based treatment could enhance production yields while reducing pollution loads. This project will be conducted in collaboration with Alpha Synovate Pte. Ltd and include critical literature review, conceptual development and experimental work.