

Marine Algae Industrialization Consortium (MAGIC)

marine microalgae: a multi-product platform for sustainability



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Supported by:



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ENERGY



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Department of
Agriculture

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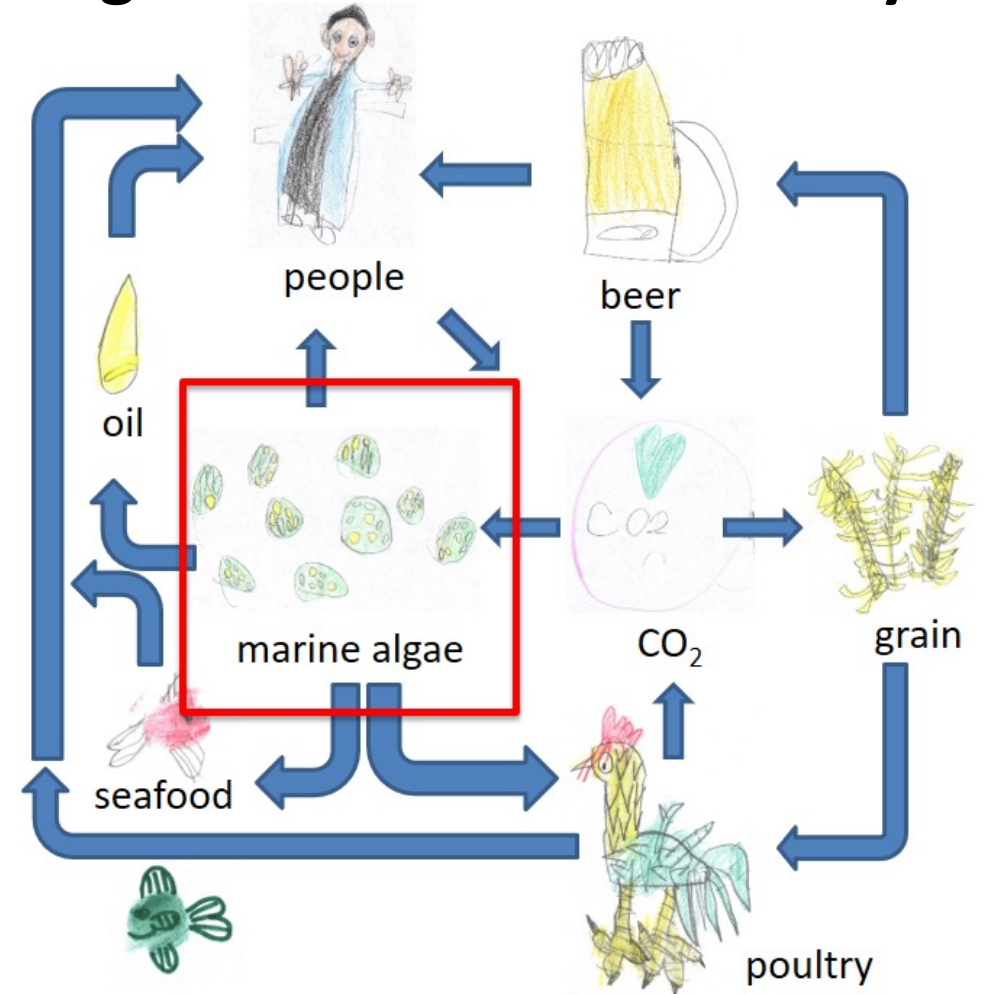
forging a sustainable future

MAGIC^{***}

The Marine Algae Industrialization Consortium (MAGIC) is a group of public and private organizations that

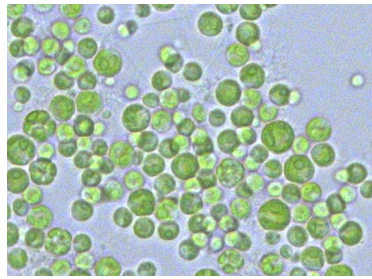
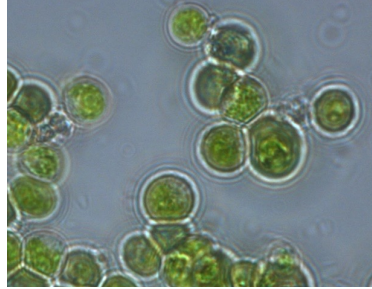
- Leverages unique expertise across organizations
- Develops solutions, grounded in enhanced sustainability, for urgent global challenges
- Worked with marine microalgae for decades
- Leads numerous projects from strains to cultivation to products to market and sustainability analyses

Marine microalgae can be the engine of a circular economy



forging a sustainable future

Cultivation at commercially relevant scales



- Numerous marine microalgae strains grown outdoors at >10,000 L scale
- High prod. >25 g DW/m²/d
- Generation of suitable quantities of biomass for product assessment



Conversion of algae oil to fuel product(s)

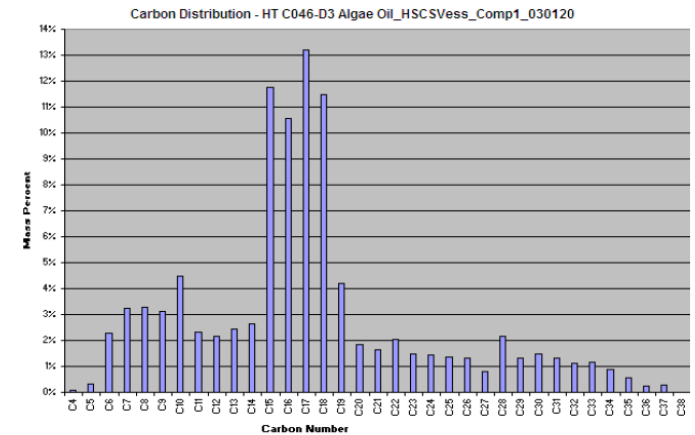
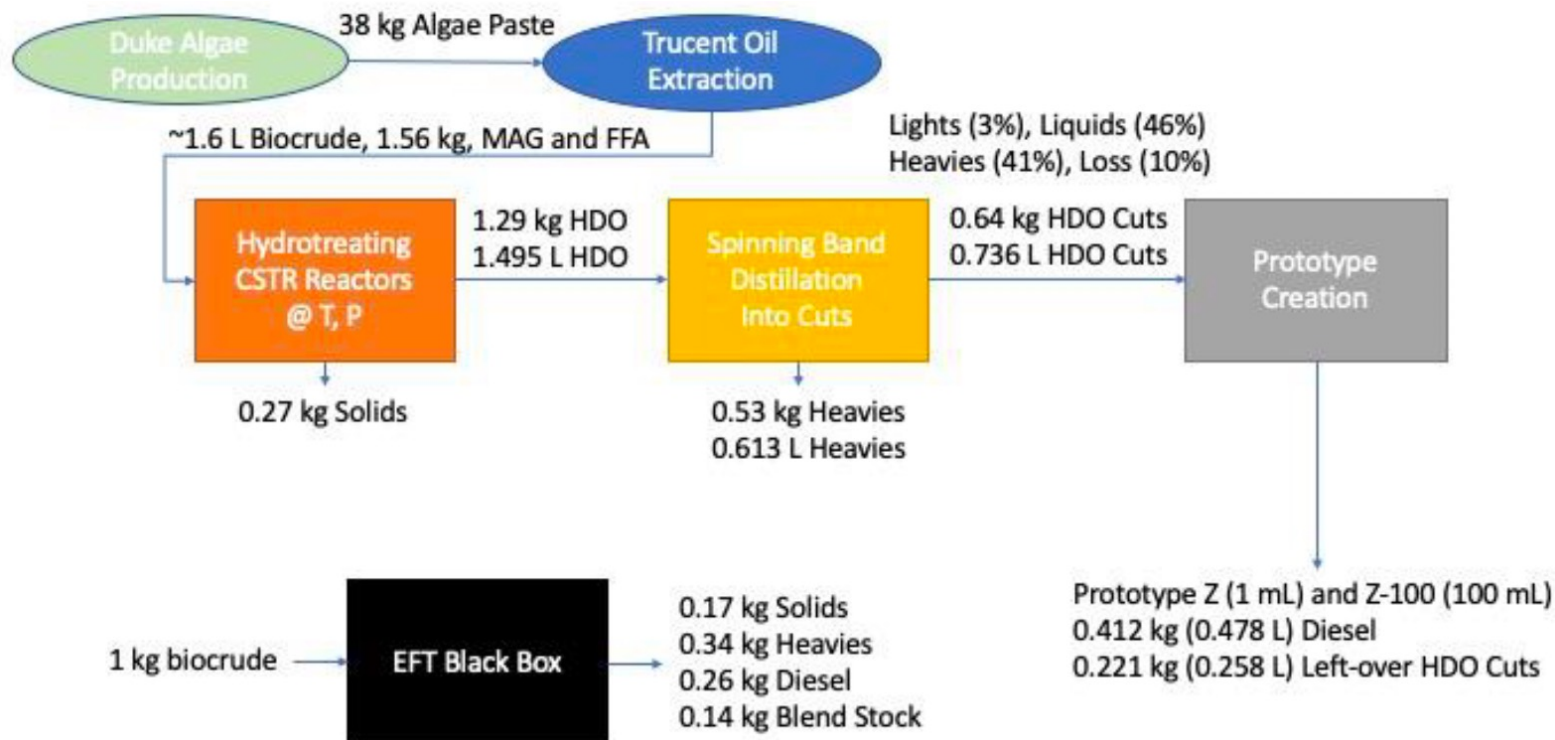


Table 2
Carbon Distribution in HDO Product by Range

Hydrocarbon Type	Carbon Range	% Mass	Isomer Mass %	Normal Mass %
Light Hydrocarbons	C4-C14	25.92	14.78	11.13
Classic HDO Products	C15-C20	47.01	14.34	32.67
Larger MW Material	C21+	26.64	17.92	8.72
Total		99.57	47.05	52.95



Numerous fractions of algae oil can be used for biopetrol or other products