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Algae fuel, algal biofuel, or algal oil is an alternative to liquid fossil fuels that uses algae as its source of energy-rich oils. Also, algae fuels are an alternative to commonly known biofuel sources, such as corn and sugarcane. The occurrence of harmful algal blooms (HABs) in freshwater environments has steadily increased for decades due to shifting climate and eutrophication caused by anthropogenic activity. At present the most promising macroalgae species for biorefinery feedstock are *Laminaria japonica*, *Eucheuma* spp., *Kappaphycus alvarezii*, *Undaria pinnatifida*, and *Gracilaria verrucosa*. For brown algae, only two species, *L. japonica* and *U. pinnatifida*, account for over 40% of the total. 178 Pages. A realistic technology and engineering assessment of algae biofuel production. Energy ..., 2010, Algae For Biofuels And Energy Developments In Applied Phycology.

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