

The analysis of macroalgae biomass found around Hawaii for bioethanol production

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Abstract

According to the Hawaii Invasive Species Organization, invasive algae cost the State of Hawaii in excess of \$20 million annually. The primary goal of our research is to provide information that could be used to support invasive marine algae control efforts through the recycling of unused biomass wastes collected during reef clean-ups by producing valuable products such as renewable fuels. A study initiated by HNEI to characterize different species of macroalgae found in the waters around Hawaii that have energy potential, specifically for the production of ethanol. Macroalgae commonly found in the ocean around Hawaii were collected from near shore locations and their potential as biomass feedstock for fermentative ethanol was investigated.

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