

The use of algae serves as an effective means to mitigate air pollution, as algae generate around 50% of the Earth's oxygen via photosynthesis [8]. Microalgae bioenergy presents an opportunity to diversify energy sources, diminish ...

The U.S Department of Energy Bioenergy Technologies Office, in partnership with the Algae Foundation and NREL, on July 21 announced the grand champion and top four winning teams of the 2023 - 2025 U.S. DOE AlgaePrize Competition.

Microalgae are becoming increasingly identified as a novel solution for the production of clean electricity. The chapter discusses their twin function as biological solar panels and biochemical factories, being highly capable of ...

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SEDC Energy (SEDCE) is collaborating with Sulzer Chemtech to deploy its proprietary BioFlux technology at Sarawak's upcoming Sustainable Aviation Fuel (SAF) pilot plant. The facility will ...

Exploiting different agricultural biomass and exploring various biomass conversion techniques, biorefinery generates bioenergy in a strategic way which eventually fits in a circular bioeconomy.

The experiment was conducted in a randomized block design with 12 treatments, including a control and various biostimulants alone (Rizos®, Onix®, Bioevolution®, Meli-x®, Biomax® Azum) or combined with algae extracts ...

Engineered algae offer a scalable, sustainable, and chemically versatile platform for producing biolubricants tailored to industrial needs. With their high lipid yields, CO₂ utilization, and engineerable fatty acid profiles, algae present a long-term ...

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However, not all these bioenergy technologies are equally efficient or scalable. Finding the best bioenergy technologies for producing sustainable fuels is important in today's world. This study ...

The U.S Department of Energy (DOE) Bioenergy Technologies Office (BETO), in partnership with the Algae



Algae bioenergy

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