Sustainable Biofuel Production for the Maritime Industry

2030

This project develops an AI-enabled model for sustainable biofuel production from biomass and plant waste, aligning with zero-waste principles. The platform will digitally classify biomass, match feedstocks with optimal technologies, and apply digital twin models for forecasting and optimization. By enhancing energy efficiency, minimizing environmental impact, and valorizing byproducts like biogas and biochar, the project provides a national roadmap to maximize biofuel production and support circular economy practices.

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