Green diesel

Green diesel production from palm oil with nickel based catalysts

Photo: Diogo Nakai

Embrapa
Agroenergy

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Raw material	Process	End product
Palm oil	Oil hydrogenation	Green diesel

A process for producing renewable diesel - green diesel - from palm oil, using nickel-based catalysts. In this process, hydrocarbons similar to those in petroleum diesel are formed through reactions that involve the hydrogenation of oil, which provides the mixture with greater oxidative stability.

Applications

+ Biofuel industry.
+ Green diesel and biokerosene production from vegetable oils.

Advantages

+ Higher oxidative stability.
+ Diesel production from renewable raw material.
+ Alternative for the use of palm oil in the fuel chain.
+ Possibility of using acid oils in the hydrocarbon production process.

Stage ► TRL/MRL 3 - Lab scale

Take this technology to another stage

1 Codevelop — Research with us for other potential uses

2 Incubate — Make this technology the basis of your incubated company

+ Information
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