



CHEVRON LUMMUS GLOBAL



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## About Chevron Lummus Global

Chevron Lummus Global (CLG), a joint venture between Chevron U.S.A. Inc. and Lummus Technology, is a leading technology provider for the production of renewable and conventional transportation fuels, premium base oils, and sustainable petrochemicals from a wide range of feedstocks. Powered by cutting-edge catalysts and innovative reactor internals, CLG's portfolio is designed to optimize efficiency and flexibility while minimizing emissions and maximizing economic returns.

CLG's line of hydroprocessing technologies offers comprehensive coverage across the entire spectrum with catalyst systems proven to exceed processing objectives for:

- Renewable Fuels - SAF & RD
- Plastic Py-Oil Hydroprocessing
- Distillate Hydrotreating
- Gas Oil Hydrotreating
- Distillates Hydrocracking
- Premium Lube Base Oils
- Residuum Hydrocracking
- Residue Hydrotreating

**Now providing  
world-class technology  
solutions for renewable  
fuels and circular products**



## CLG Renewable Fuels

Efficiency and sustainability are paramount in today's evolving energy landscape. At CLG, we understand this significance as we specialize in providing innovative solutions and advanced catalysts that drive the production of renewable and circular products. With CLG's expertise and breakthrough catalysts, refineries can unlock the full potential of renewable feedstocks, maximize yields, and enhance their environmental stewardship.



### BIOFUELS ISOCONVERSION

For processing challenging feedstocks into renewable fuel products



### ISOTERRA

All-hydroprocessing route for maximizing yields of renewable diesel or sustainable aviation fuel (SAF)



### PYOIL ISOCONVERSION

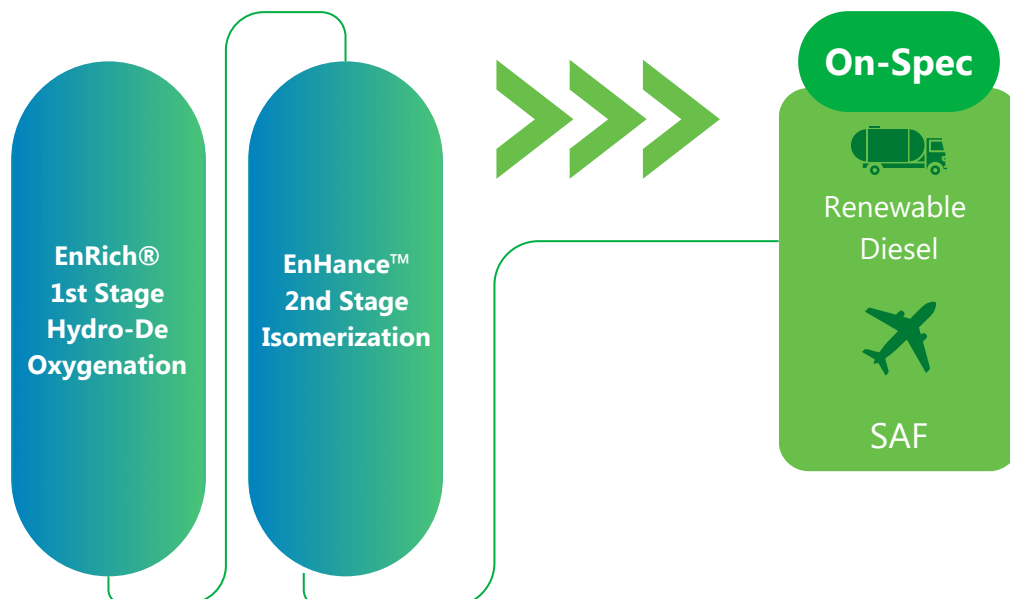
Waste plastics pyrolysis and circular technologies



## ISOTERRA Process

The ISOTERRA process leverages a commercially proven catalyst system that has been used to produce renewable fuels for over a decade. The technology has been successfully applied to revamp existing single-stage hydroprocessing units, resulting in maximum RD yields. To further maximize yields and flexibility in producing Sustainable Aviation Fuel (SAF) or Renewable Diesel (RD), ISOTERRA offers a unique two-stage design that also significantly reduces the carbon footprint of the process. This is made possible through a two-step approach that implements optimized pressure profiles in both the first and second stages, as well as an intermediate separator, minimizing the capital cost of the process and process heat requirements.

The first stage reactor is designed to efficiently hydrotreat lipid feedstocks, ensuring complete oxygen and other impurity removal and optimum carbon retention. Its performance relies on a layered EnRich® guard and hydrotreating catalyst system tailored for each unique application. The second stage of the process isomerizes the hydrotreated lipids to meet the desired renewable fuel specifications. This is achieved through the use of CLG's highly acclaimed EnHance™ isomerization catalysts in a processing environment optimized to maximize renewable fuel yields.



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