

# Petrogenium.

## Bio Fuels

## HEFA Integration & Logistics

The integration of new process units in an existing refinery complex by via a brownfield project is extremely challenging and is fraught with risks. However, when considering the integration of a HEFA plant into an existing refinery site the complexity and risks are significantly higher than for a project for a typical refinery process plant. This is mainly since the HEFA is a sub complex within the refinery that is made up of separate units that are supplied and licensed by different technology suppliers.



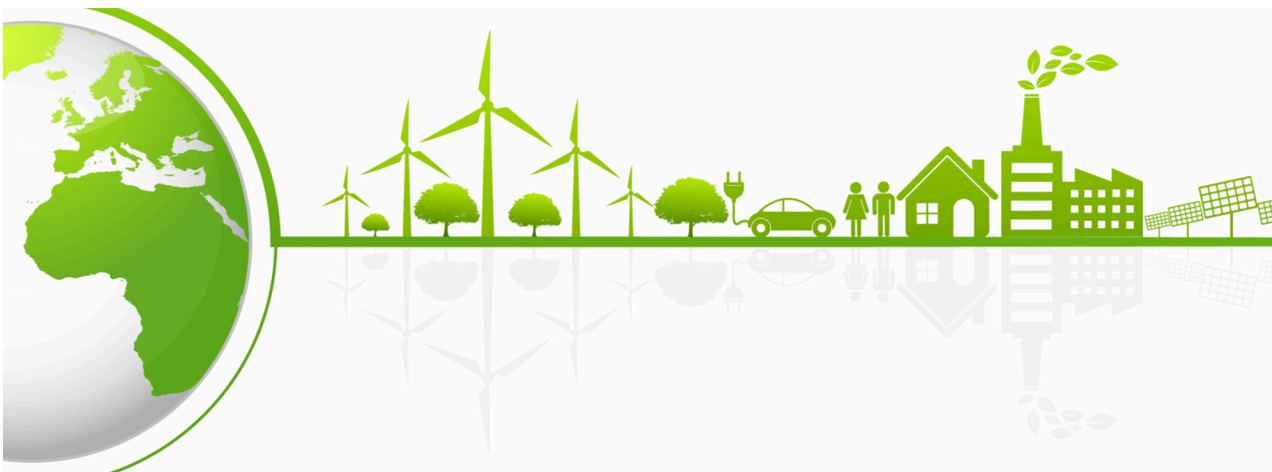
**Petrogenium.** offers Bio Fuels, supply chain and Logistic integration support to clients that assists in managing the pitfalls of HEFA unit integration in brownfield and greenfield projects. A comprehensive project integration plan is more effective the earlier it is implemented during the development of a project. A wholistic approach is required that would facilitate the effective collaboration of the various disciplines and process unit design teams therefore producing a cohesive and well integrated overall design and implementation of a project

Support is available to clients in the following forms:

- Concept design and development coordination  
Concept design reviews
- Project integration strategy advice and development
- Integration reviews for brownfield and greenfield projects in various phases of development.
- Problems solving and alignment support for existing brownfield or greenfield projects in various phases of development
- Feedstock, intermediate and product logistic design and development

HEFA project integration reviews consists of the following focus areas amongst others:

- Raw pre-treated feedstock storage, quality and handling.
- Pre-treated feedstock storage, quality and handling.
- Operational elements such as feedstock grade switching, feedstock segregation and HEFA complex slops management.
- Compliance of the HEFA complex and sub-units to local legislation, regulations and company/international standards.
- Process design alignment and integration of the various HEFA complex sub-units.
- Process design alignment and integration of the various refinery units and utility systems.
- Design clash identification and resolution advice
- Final product Quality Management, segregation, assurance and off specification handling within the HEFA complex.
- HEFA complex feedstock, product and byproduct stream measuring and mass balance.
- Integration of HEFA complex product and byproduct streams into the refinery complex. This includes
- Product Quality, process safety and process design.
- Other aspects to be listed on receipt and review of project scope.



### Why select Petrogenium.?

Every step of the way, you can lean with confidence on the 30-year world-class experience and hands-on know-how of our consultants in energy efficiency technologies and refinery operations.

### Because Experience Matters

### Contact Petrogenium.:

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