

# Petrogenium.

## Renewable Diesel & Biofuels Services

**We assist refiners, biofuels manufacturing assets, investors and top global management consulting firms with independent technology assessment, technical due diligence on routes to renewable diesel (HVO), co-processing in refinery assets, to biofuels, and to advanced biofuels from lignocellulosic biomass and residues.**



As well as separate CVPs on Renewable Resources services, on SAF and on the Chemical Recycling of Wastes, **Petrogenium** offers comprehensive services in Renewable Diesel and (advanced) biofuels to refiners, manufacturing assets, major investors, Greentech funds and top management consulting firms. These include technical advice on renewable diesel, co-processing in refinery assets, and selection of the most promising routes to advanced biofuels.

**Petrogenium** has deep technical expertise and hands-on experience of renewable diesel (HVO) and advanced biofuels from lignocellulosic biomass. We offer services proven on multiple assets and help you make the right choices. For due diligence, we can combine technology assessment with Project Realisation and financial model review/financial due diligence support

### Typical services offered:

**Technology assessment:** Providing technology assessment and technical due diligence, aiding private equity and top management consultancy firms in investment decisions. Analysis of existing processes, advise on improvements and 2nd pair of eyes review on information from technology providers.

**De-risking:** Technology and process design expertise for process development and de-risking  
Accelerating technology maturation: Benefit from our first-hand experience in advanced biofuels technology maturation from lab scale via pilot and demonstration plants to validate and refine new routes before full-scale deployment.

**Conversion Technologies:** Robust techno-economic comparison of routes to advanced biofuels.

**Project Realisation and finance model review:** Project Realisation review and financial model review of Projects.

**Courses:** We offer courses, also at your location, to upskill staff in all aspects of Renewables, Biofuels and e-fuels.

## Benefits

- Accelerate development and commercialisation of biofuels and especially advanced biofuels processes
- Ensure informed technology selection by robust comparisons of competing technologies based on deep knowledge and experience of technology and economic evaluations.
- Reduce uncertainty in investment decisions by independent technology assessment and technical due diligence.
- Benefit from **Petrogenium**.'s multi-disciplinary expertise in biofuels, advanced biofuels, Renewable Refining, refining technologies, and operational excellence and avoid surprises in Project delivery and budget from technology assessment, Project Realisation and Project financial model reviews.

## Recent successfully completed Renewable Diesel and (Advanced) Biofuels studies:

### 2024:

- Techno-economic landscaping on conversion of municipal solid waste to fuels for a large Middle Eastern integrated Oil and Gas company.
- Helpdesk advice for a South East Asian refiner on HVO.

### 2022:

- Renown International Consultancy Firm– technical assessment of a HVO plant in China.
- Trader/Financer, Singapore, technology assessment on a new FAME manufacturing plant in Malaysia.
- European refiner, technology assessment of co-processing biofeeds in refinery units.

### 2021:

- Comprehensive techno-economic benchmarking of a range of biofuels for a large Middle Eastern integrated Oil & Gas Company.

### 2020:

- European Refiner, Feasibility/master planning study to convert a refinery to a green one.
- European Oil & Gas Company, Expert technical advisor in patent appeal case on HVO.

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### 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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