

Advanced biofuels – road to sustainable value

DRIVING NEW BIOPRODUCT STREAMS BY MASTERING THE COMPLETE VALUE CHAIN

The EU's decarbonisation targets can create a transportation biofuels market of EUR 30 billion by 2030. Are you grasping the opportunity of advanced biofuels to build more sustainable future?

UNTAPPED POTENTIAL

Global megatrends such as bioeconomy, resource efficiency and climate change are pushing for the change towards biobased markets in various industries. The EU's 'Renewable Energy Directive' requires all EU countries to ensure that at least 10% of their transport fuels come from renewable sources by 2020.

Advanced biofuels have been high on industrial companies' agendas for several years. Investments in R&D, pilot projects and development initiatives have also generated some commercial scale production, but a lot of potential is still untapped.

Advanced biofuels are fully compatible with the current fossil fuels distribution network and benefit from low CO₂ emission. They are produced from lignocellulosic feedstocks.

CLIENT ISSUES

While the opportunities for advanced biofuels are lucrative, there are challenges – both market and technology related - that companies are facing. These include:

Market concerns:

- Political uncertainty, market opportunities subject to direction of EU legislation, unharmonisation of country-based biofuel policy mechanisms
- Changes in oil price
- Raw material availability, inadequate sourcing chain

Technology readiness:

- Technologies are mostly in the industrial demo phase – commercialisation requires significant investments
- Commercial technologies are expensive

YOUR TRUSTED PARTNER

Our global team of specialised experts know the biofuel market and technologies and deliver innovative and practical solutions to enable our clients to achieve sustainable value from advanced biofuels. Pöyry has been closely involved with biofuel techniques for 10 years and reviewed dozens of technologies over the years. We have also delivered the world's first biorefinery producing wood-based renewable diesel.

PÖYRY'S SERVICES FOR ADVANCED TRANSPORTATION BIOFUELS

Pöyry is a one-stop-shop for all advanced biofuel related services. Our services cover the whole required biofuel chain from forest industry, chemicals and energy expertise to project implementation.

Market opportunity related services:

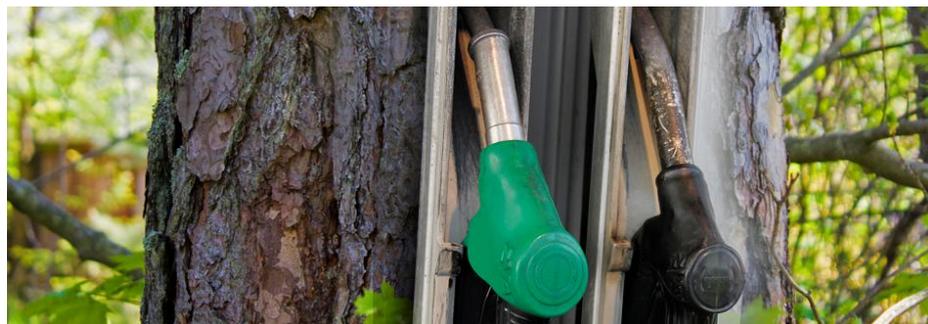
- Market insights and strategies for raw material and products

Technology related services:

- Technology readiness assessments
- Technology commercialisation roadmaps and engineering services from pilot plants to full scale
- Operational support

KEY BENEFITS

1. A deep understanding of the whole value chain from feedstock to markets to ensure profitable business and investment
2. Technology-independent and fact-based view for building a successful business
3. One-stop-shop - one partner with deep expertise in forest and chemical industries as well as energy sector to develop and implement a solid business case, taking into account multi-faceted problems to be solved providing a holistic view



MASTERING THE WHOLE VALUE CHAIN IS A PREREQUISITE FOR PROFITABLE BIOPRODUCT BUSINESS.