

# LIGNOFLAG

Commercial flagship plant for bio-ethanol production involving a bio-based value chain built on lignocellulosic feedstock



<http://www.lignoflag-project.eu>

## Summary

### Type of Action:

Innovation Action – Flagship

## Objectives

- Build and operate a commercial flagship production plant for biochemical lignocellulose conversion to cellulosic ethanol with a yearly production capacity of up to 60.000 tonnes/year.
- Focus innovation on the whole value chain from raw material to product for successful market entry of lignocellulosic ethanol.
- Implement a highly innovative technology based on Clariant's patent portfolio.
- Optimized and integrated use of coproducts for energy or materials enabling the replacement of fossil alternatives.
- Shorten time to market and successfully penetrate market with 2nd generation bioethanol made in the EU.
- Develop EU's economy smart, sustainable and inclusive, especially in rural areas.
- Produce cellulosic ethanol at large scale with maximum greenhouse gas emission savings and ensure to reach sustainable practice and usage of agricultural residues and co-products.

## Expected impacts

**Value Chain:** VC1 – lignocellulose

- Creation of a new market for cellulosic ethanol production
- Mobilization of a so far underutilized renewable feedstock
- Boost to local economies through creation of green jobs, taxation and new business opportunities, predominantly in the agricultural and rural area.
- Collaboration within and linking of the agricultural, logistics, energy and chemical sector.
- Economic advantages and additional business opportunities for all actors along the supply chain, especially the agricultural sector
- Proof of commercial production of cellulosic ethanol and thus creation of a new, competitive and sustainable source of domestic renewable energy for the EU.
- Realizing the objectives of Horizon 2020 and other EU policies, by accelerating the implementation and deployment of cellulosic ethanol production plants in Europe.

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- Clariant Produkte Deutschland GmbH (Germany)
- Fliegl Agrartechnik (Germany)
- ExportHungary (Hungary)
- Energieinstitut an der JKU Linz (Austria)
- Bayerische Forschungsallianz (Germany)
- IBB Netzwerk (Germany)

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