



DIBANET



The increasing reliance on imported diesel fuels, in addition to annual increases in the quantities of organic wastes are threats to the EU and Latin America. DIBANET (Development of Integrated Biomass Approaches Network) aims to combat these threats and help to eliminate diesel imports by developing novel technologies to produce sustainable diesel miscible biofuels (DMBs) from wastes and residues of European and Latin America. The 42 month, € 3.73m FP7 funded research project, coordinated by the Carbolea Research Group at University of Limerick in Ireland, builds on the key, complementary, strengths of European and Latin American researchers and industries to advance this field. Network of experts and researcher includes partners from European (Denmark, Greece, Hungary, Ireland). This enhancement of co-operation will ensure that the whole process, from feedstock to process residues, is engineered for maximum efficiency. DIBANET will lead the way for sustainable large scale biofuel production by 2020, while avoiding land use impacts and resolving the problems of increasing organic waste levels.

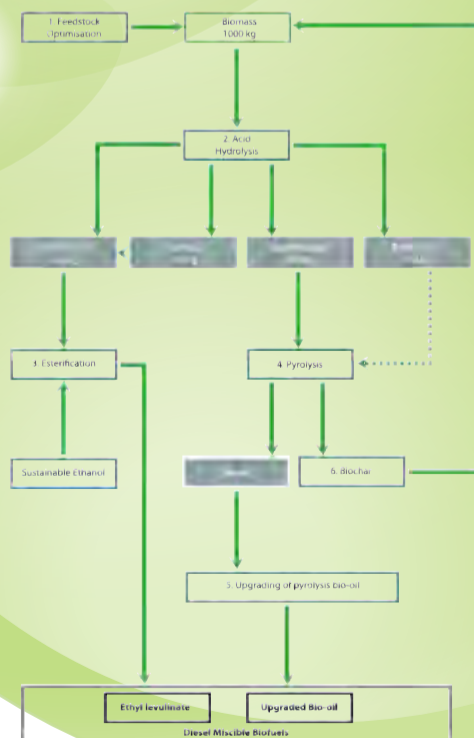
DIBANET aims to:

- Develop technologies to help towards eliminating the need for fossil diesel imports in either region, improving the security of energy supply.
- Advance the art in the production of diesel miscible biofuels (DMBs) from organic wastes and residues.
- Optimise the yields of the diesel miscible biofuels produced from the biorefining of biomass and wastes.
- Improve the energy balance and the total biofuel yields possible from a feedstock by sustainably utilising the residues in pyrolysis processes to produce bio-oil that will be upgraded to DMBs.
- Reduce the energy and chemical costs involved in producing of diesel miscible biofuels.
- Select key biomass feedstocks for conversion to diesel miscible biofuels, analyse these, and develop rapid analytical methods that can be used in an online process.
- Analyse the DMBs produced for their compliance to EN590 requirements and, if non-compliant, suggest means to achieve compliance.

DIBANET will enhance co-operation between the EU & LA in biofuels by:

- Developing a tightly-integrated online network of key players in the EU & LA.
- Organising public meetings between key stakeholders from both regions.
- Training PhD & post-doctoral researchers from the opposite region.
- Develop an inter-regional Technology Transfer Business Plan for the most effective exploitation of the DIBANET technologies. This will consider the combined needs of the EU & LA & the potential for trade.

DIBANET processes, products and their linkages



DIBANET Partners

- University of Limerick www.carbolea.ul.ie
- Aston University www.aston-berg.co.uk
- Centre for Research & Tech Hellas www.certh.gr
- FOSS Analytical www.foss.dk
- Geonardo Ltd. www.geonardo.com
- Centre for Sugarcane Technology www.ctc.com.br
- Federal University of Rio de Janeiro www.ufrj.br
- University of Buenos Aires www.di.fcen.uba.ar/diq/lpc
- YPF SA www.ypf.com
- EMBRAPA SOILS www.cnps.embrapa.br
- Fundacion Chile www.fundacionchile.cl
- University of Campinas www.unicamp.br/unicamp
- Ecosphere Ltd.

