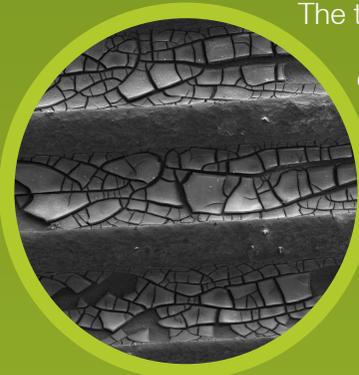


## CURRENT FOCUS



Trials are underway with alumina-coated stainless steel micro-reactors. The coatings are very thin, at approximately 100 nm.

The coatings on these micro-reactors are being optimised for each step of biofuel production.

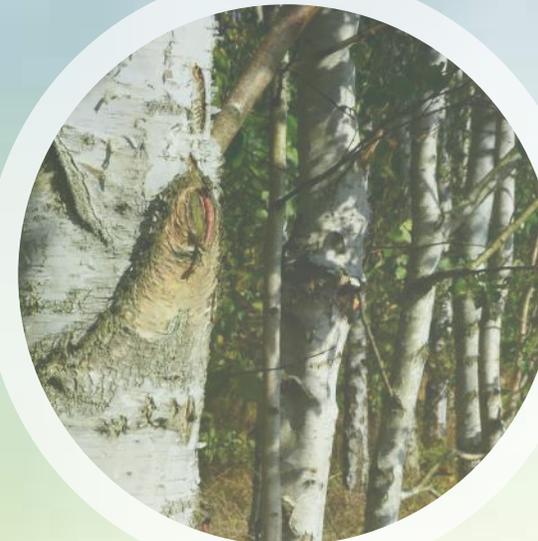


The temperature and duration of calcination is being optimised for coatings on the BIOGO micro-reactors.

Catalysts being developed include nanocatalysts with magnetic cores to assist in their recovery.



# BIOGO



## EFFICIENT BIOFUEL CONVERSION

Using nanocatalysts and micro-reactors to improve biofuel production

## EVENTS

BIOGO will be presented at the following events by Professor Gunther Kolb, Project Coordinator

Hypac Expo  
Nantes, France, 19–20 March 2015

Energy, Science, Technology  
Conference  
Karlsruhe, Germany, 20–22 May 2015

ISO 2015: Innovation in Selective Oxidation  
Kazan, Russia, 30 August–4 September 2015

[www.biogo.eu](http://www.biogo.eu)

## PROJECT OVERVIEW

The BIOGO project intends to create a fully integrated and comprehensive process for the production of biofuels using novel heterogeneous nanocatalysts and sustainable resources. This process will be integrated with the enabling functions of innovative micro-reactor technology developed in the project. BIOGO will exploit the special properties of nanocatalysts to improve process efficiency through intensification and thereby target some of the challenges facing Europe's petro-chemical industry today.



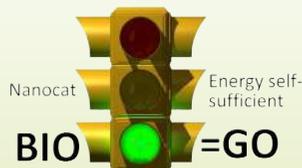
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## PROJECT PARTNERS



## PROJECT FUNDING

Supported by the European Community  
BIOGO is funded under the EC Framework Programme 7 [FP7/2007-2013], grant agreement CP-IP 604296.



## PROJECT GOALS

1

Design, develop and prepare highly advanced nanoscale catalysts at an industrially relevant scale for the conversion of bio resources to liquid fuels.

2

Develop and demonstrate a process that converts renewable bio-oils and bio-gas to synthesis gas for subsequent catalytic transformation into biofuels and chemical platform products.

3

Reduce the dependence on rare earth oxides and precious metals for the catalyst formulations applied throughout the BIOGO project.

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