

Start of the EU-funded project MACBETH (Membranes And Catalysts Beyond Economic and Technological Hurdles).

Now things are getting big - innovative membrane reactor on its way being on an industrial scale. The largest EU-funded project coordinated by Evonik to date, started with Enzymicals AG as an associated partner. The aim is to develop new processes for catalytic synthesis with corresponding separation systems in a single, highly efficient catalytic membrane reactor.

The newly founded project consortium consists of 24 partners from ten different countries. It networks all competencies from catalysis, membranes, supports, reactors, engineering, modeling to the perspective of the end user. In individual sub-projects, the concept of the new reactor is now being transferred to various chemical reactions and implemented. These include hydroformylation for specialty chemicals, hydrogen generation for the transport / power generation sector, propane dehydrogenation for large-volume chemicals and bio-catalytic oil splitting for biotechnologically manufactured products.

As part of the project, Enzymicals AG focuses on the application of this process technology for the enzymatic production of fatty acids. CEO Dr. Ulf Menyès “We are proud to be part of the MACBETH consortium and thus to apply catalytic membrane reactor technology to industrial biotechnology. This will enable us to build smaller and safer production plants and to flexibly build up the production capacities we need on site.”

For more information visit the website: www.macbeth-project.eu



Bild: Key data of the EU-Project MACBETH.