



SPIRE-05-2015

ADREM

Full Title: Adaptable Reactors for Resource- and Energy-Efficient Methane Valorisation

Aim:

In ADREM, leading industries and university groups in process intensification, catalytic reactor engineering and process control team up to address the domain of resource- and energy-efficient valorisation of variable methane feedstocks to C2+ hydrocarbons.

Concept: In order to converge to the optimal design, the project will utilize the unique integral, four-domain process intensification (PI) methodology, pioneered by the consortium. This is the only approach able to deliver a fully intensified equipment/process. The key feature is the systematic, simultaneous addressing of the four domains: spatial, thermodynamic, functional and temporal.

Start date: 1 October, 2015

End date: 30 September, 2019