



## ADREM

Adaptable Reactors for Resource- and  
Energy-Efficient Methane Valorisation

SPIRE-05-2015

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 C<sub>2</sub>+ 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:

01/10/2015

### End date:

30/09/2019

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