



SPIRE-05-2015

TERRA

Full Title: Tandem Electrocatalytic Reactor for Energy Resource Efficiency and Process Intensification

Aim:

TERRA aims to develop, from TRL 3 to 5, a tandem electrocatalytic reactor (TER) coupling an oxidation reaction to a reduction one, with thus the great potential advantage of i) saving resources and energy (needed to produce the oxidant and reductants for the two separate reactions), and ii) intensify the process (reduce the nr. of steps, coupling two synthesis processes and especially eliminating those to prepare the oxidation and reduction agents).

Concept: The TER unit may be used in a large field of applications, but will be developed for a specific relevant case: the synthesis of PEF (PolyEthylene Furanoate), a next generation plastic.

Start date:

End date:
