



# + RECYCALYSE -

New sustainable and recyclable catalytic materials  
for proton exchange membrane electrolyzers



DANISH  
TECHNOLOGICAL  
INSTITUTE

 Sustainable  
INNOVATIONS

 TECHNISCHE UNIVERSITÄT  
BERGAKADEMIE FREIBERG  
The University of Resources. Since 1765.

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ACCUREC<sup>®</sup>  
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 Danish Power Systems<sup>™</sup>

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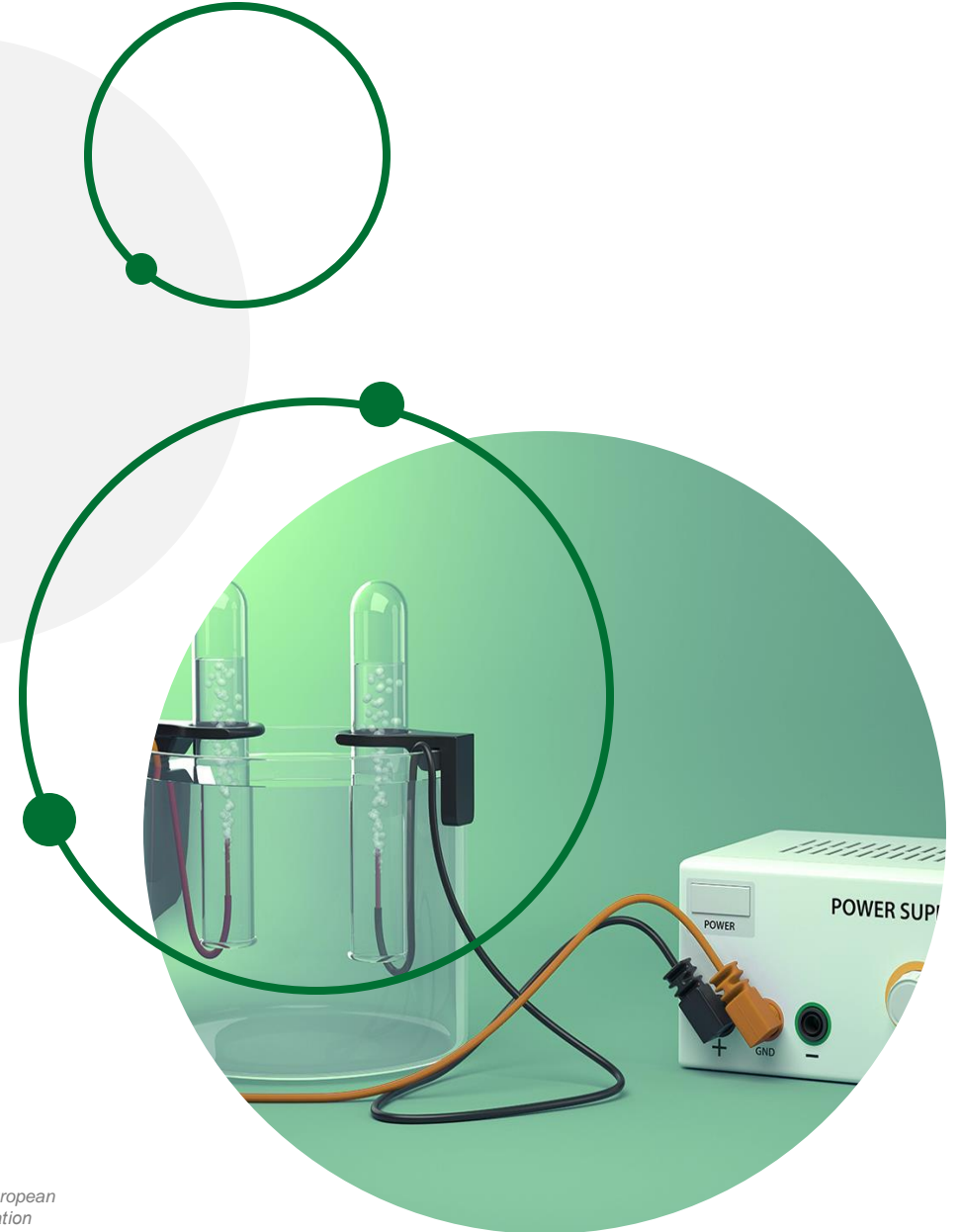
 Fraunhofer  
ICT

 *u<sup>b</sup>*  
UNIVERSITÄT  
BREMEN

# OBJECTIVES

RECYCALYSE will mainly focus on two objectives:

1. Develop and manufacture highly active sustainable oxygen evolution catalysts that will reduce or eliminate the use of Critical Raw Materials, thus decreasing CO<sub>2</sub> emissions and reducing cost.
2. Establish a recycling scheme for proton exchange membrane electrolyzers catalysts, electrodes and overall systems. By implementing the recovered elements in the new developed catalysts, dependence on materials import in Europe is reduced or avoided, thus reaching a full circular economy.



# IMPACTS

Leading improved  
levelised cost of  
(renewable) energy

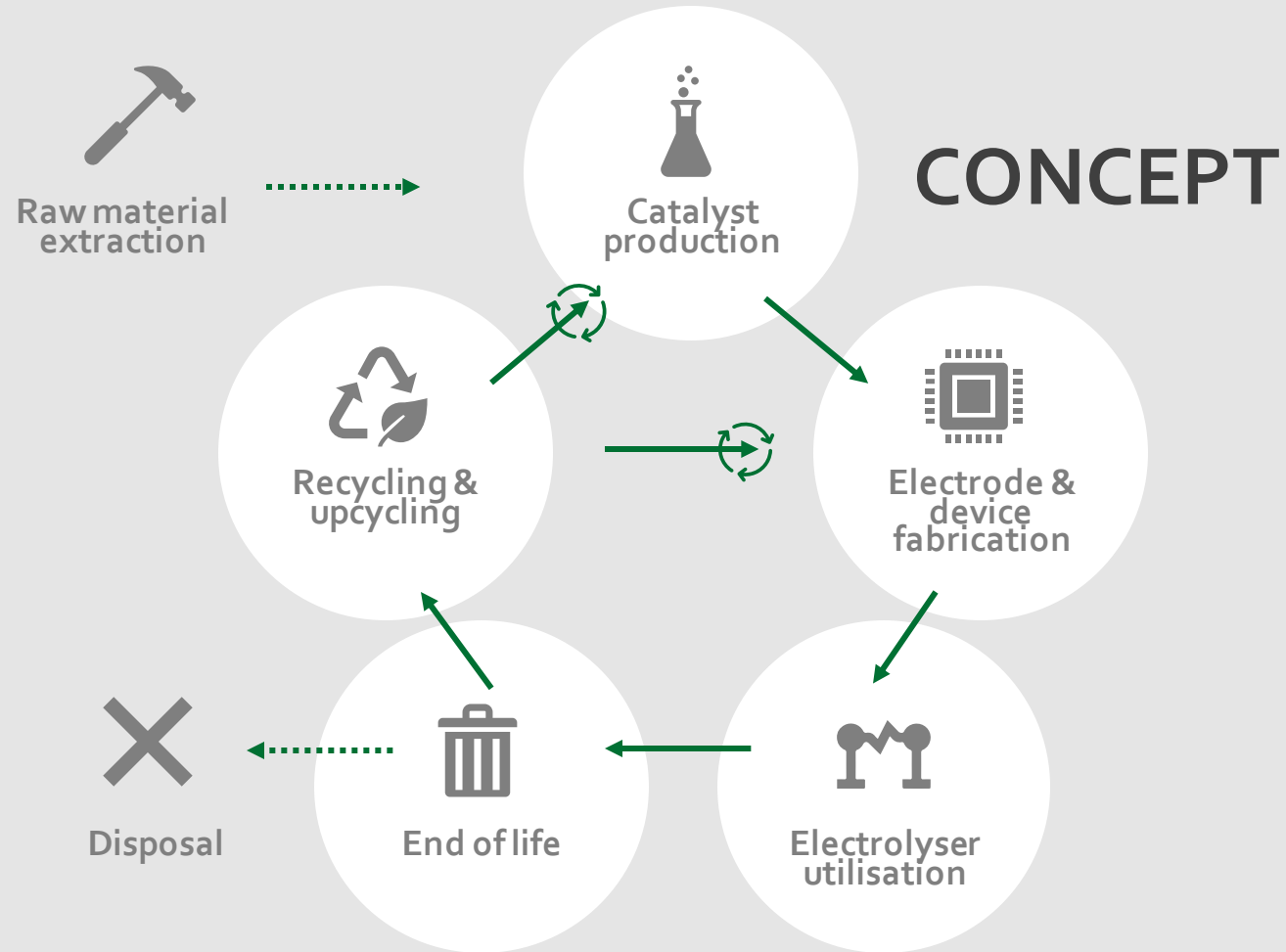


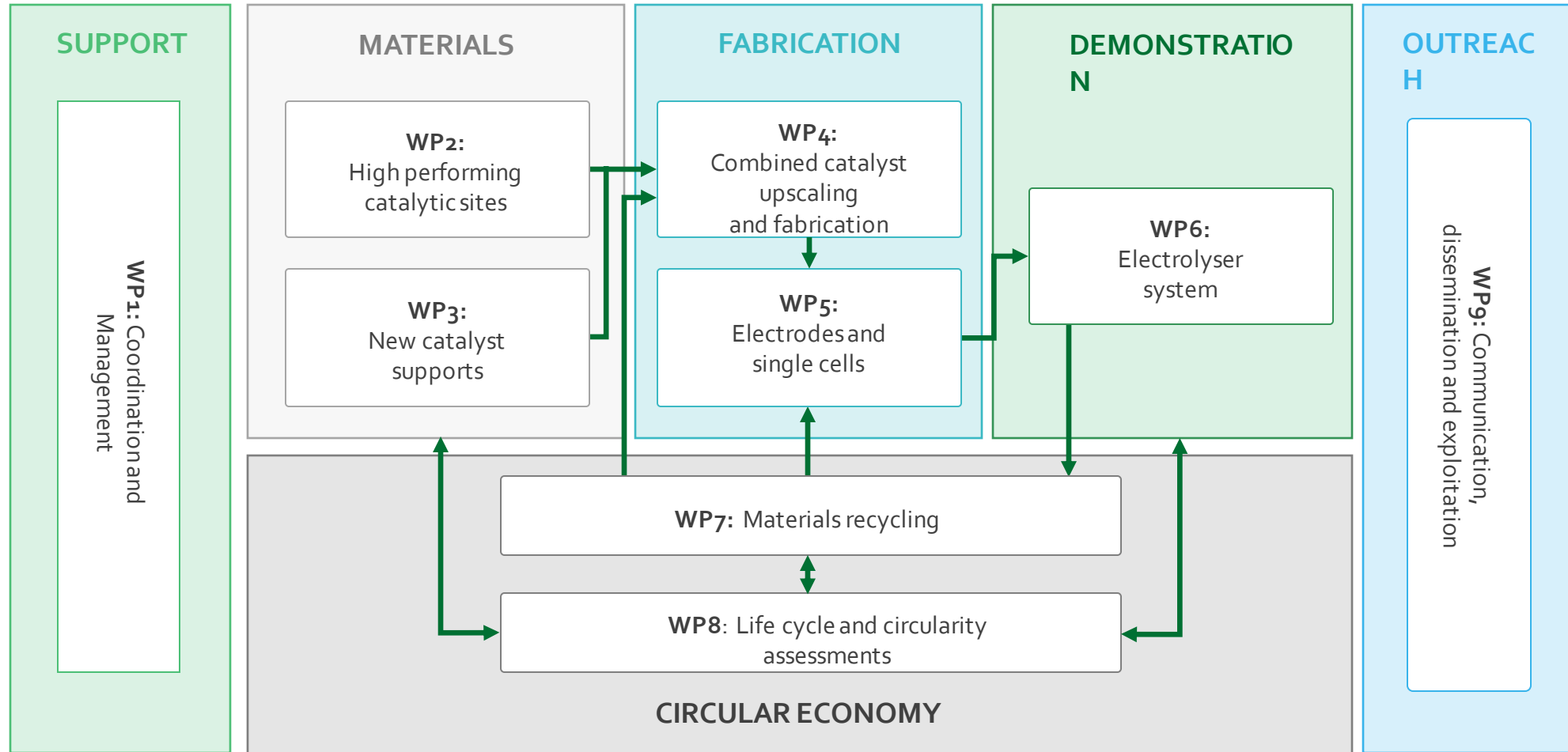
Improvement of EU energy storage  
competitiveness



Enabling reduced  
CO<sub>2</sub> emissions









[WWW.RECYCALYSE.EU](http://WWW.RECYCALYSE.EU)

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