

# SDE – Waste up-cycling for green H<sub>2</sub> and green chemicals

**Objective:** Understanding and developing of the SDE technology

To reach the goals on green H<sub>2</sub> costs, we take advantage on the use of SO<sub>2</sub> to modify the reactions

## Energy consumption

- Reduced by more than 50% → Lower costs

## Added Value

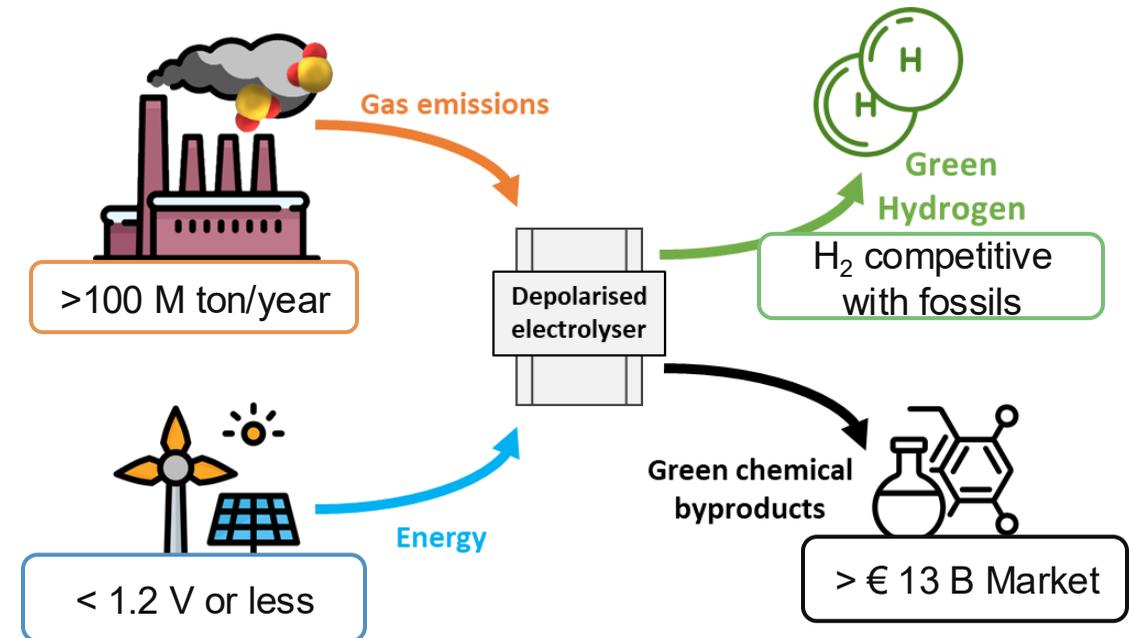
- New reactions produce H<sub>2</sub>SO<sub>4</sub> as a valuable by-product

## Integrate

- Emissions treatment and fuel production in one single-step device

## Current SoA of SDE

- **TRL 2 - 3**
- >100 hours of operational testing
- Industry grade sulphuric acid



## What's next in SDE?

- Integration with realistic industry scenarios
- Coupling with RES
- Component development for improved efficiency