



# PROJECT LIFE ZAESS

## Demonstration of a low cost and environmentally friendly Zinc-Air Energy Storage System for renewable energy integration

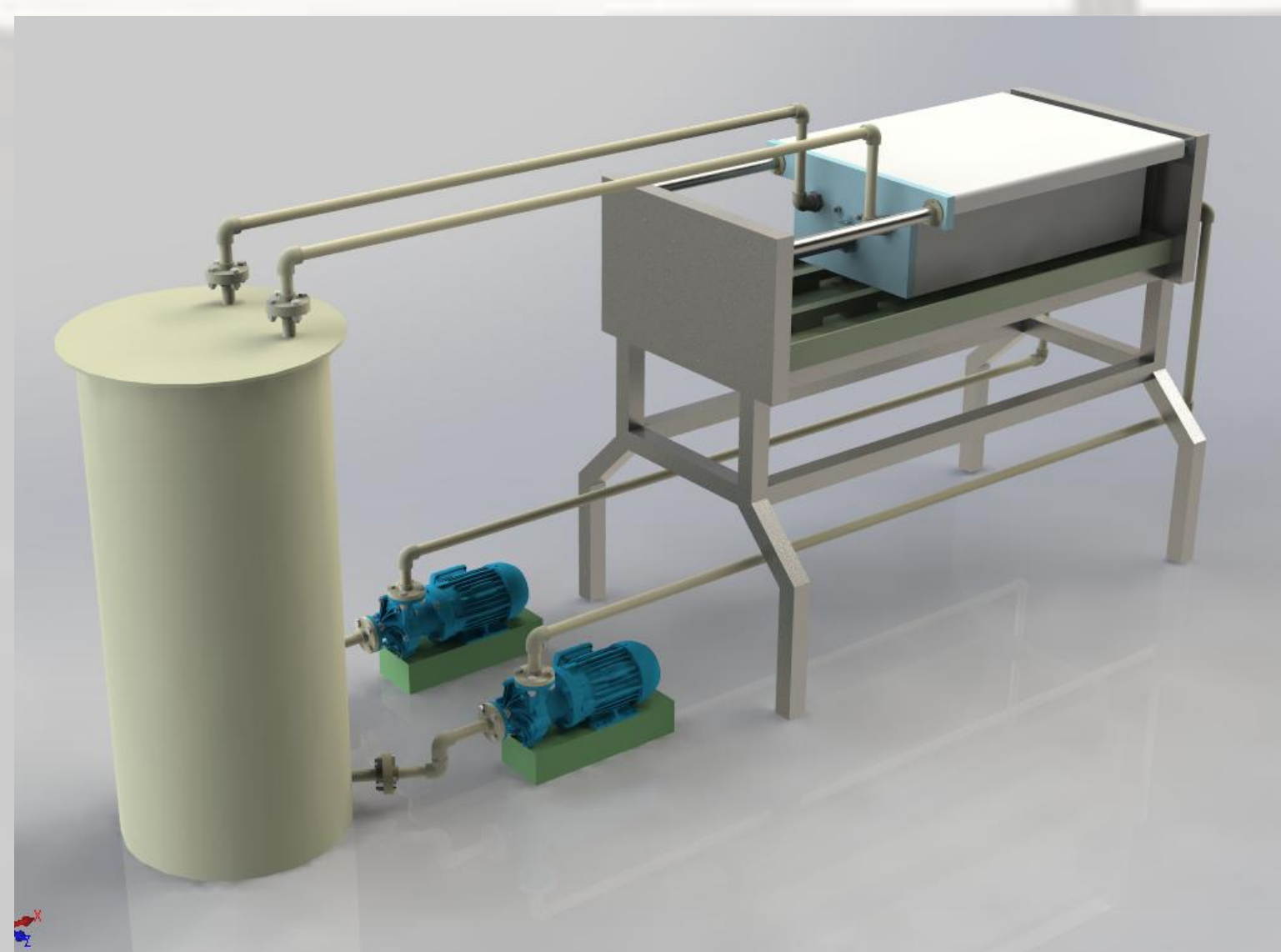


The LIFE ZAESS project aims to demonstrate an energy storage technology for increasing the share of intermittent renewable energies in the European energy mix and reducing CO<sub>2</sub> emissions thereby

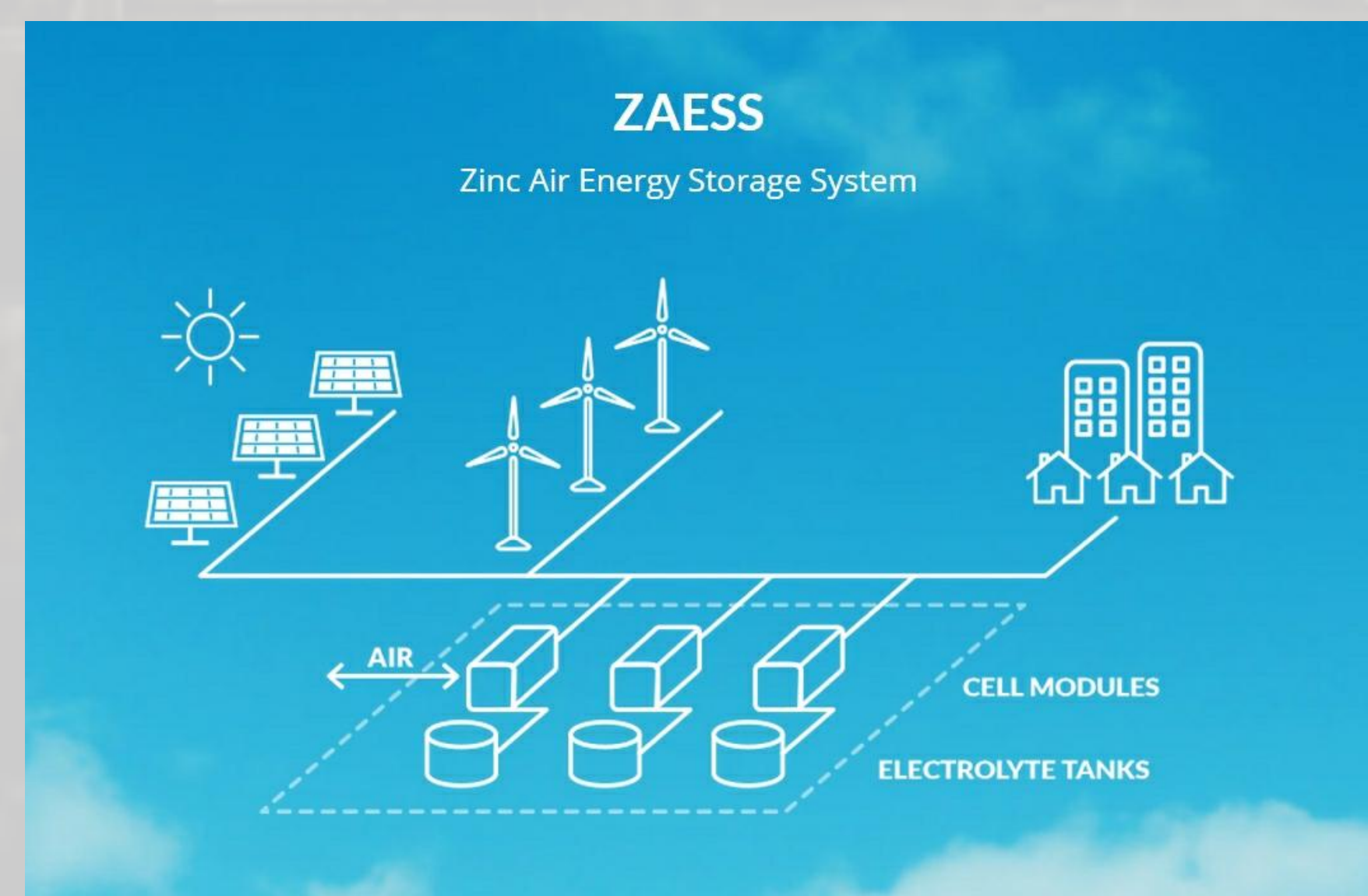
### Main objectives of the project

- To construct a demo scale **pilot plant** based on the novel rechargeable Zinc-Air battery technology to assess its **scalability** towards grid-scale facilities
- To gather technical, economic and environmental performance indicators to evaluate the **overall performance** of the technology
- To assess the **environmental impact** associated to the construction and operation of this type of energy storage facilities
- To study the **legal and regulatory framework** for the deployment of large scale energy storage facilities in order to overcome possible barriers for future renewable energy market penetration
- To disseminate the **benefits** of renewable **energy storage** for the reduction of CO<sub>2</sub> emissions

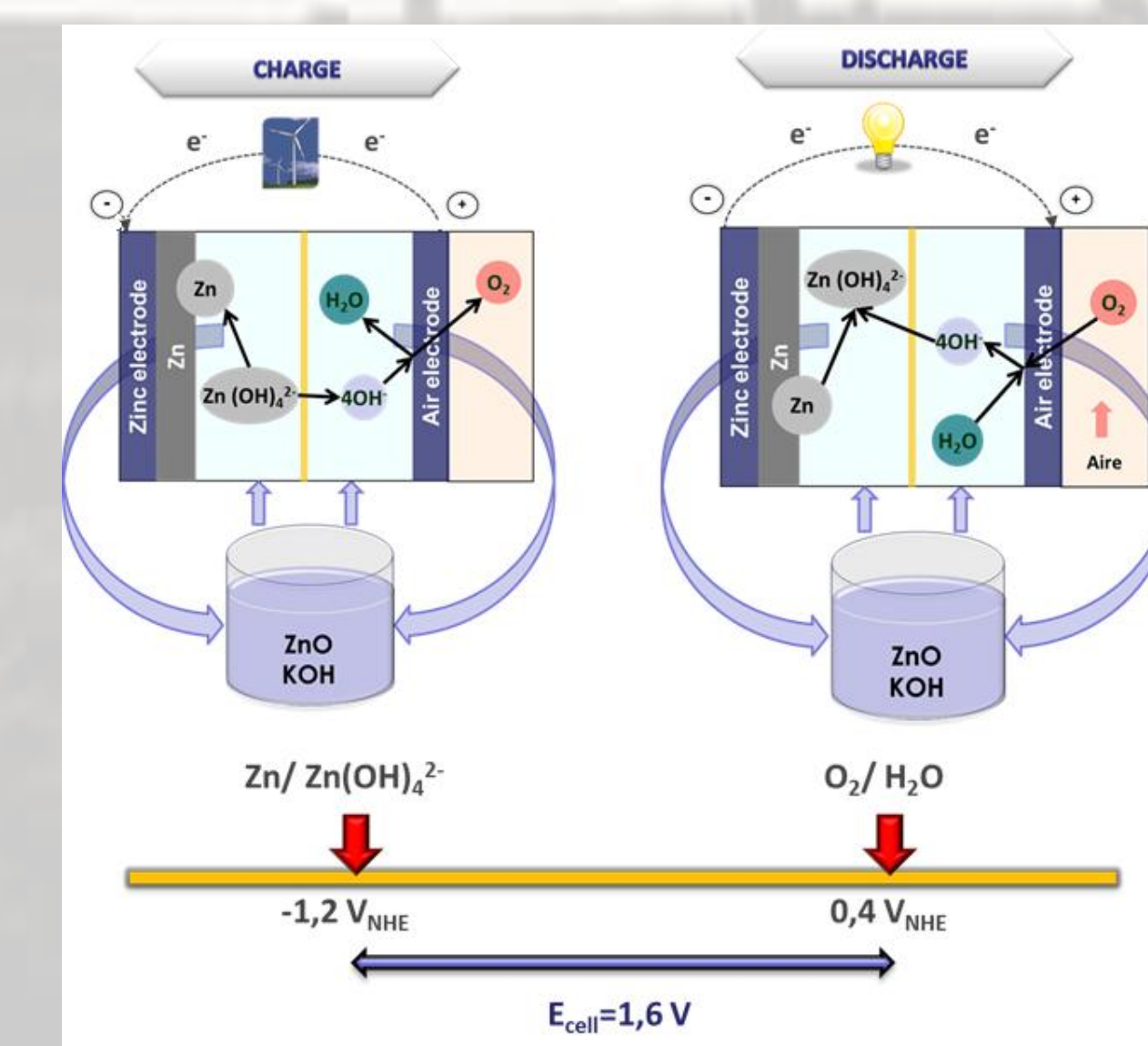
The most important result of the project will be the **techno-economic validation** of Zinc-Air technology for grid scale renewable energy storage and associated reductions in greenhouse gas emissions



Pilot plant of the Zinc-Air energy storage system



Energy storage system for the integration of renewables



Detail of the chemical process