ecohydro

ECONOMIC MANUFACTURING PROCESS OF RECYCLABLE COMPOSITE MATERIALS FOR DURABLE HYDROGEN STORAGE

DEVELOP SUSTAINABLE, EFFICIENT SOLUTIONS FOR HYDROGEN STORAGE

ECOHYDRO aims to develop advanced, sustainable hydrogen storage solutions that cater to the growing need for efficient, safe, and environmentally responsible hydrogen storage. The project focuses on circular economy principles and cost reduction over the entire lifecycle of hydrogen storage technologies.

AMBITIONS

DEVELOP
recyclable composite materials for hydrogen storage tanks.

INCREASE
the service life and safety of hydrogen tanks with integrated sensor systems for in-situ monitoring.

ENSURE
energy-efficient manufacturing with reduced whole-lifecycle costs.

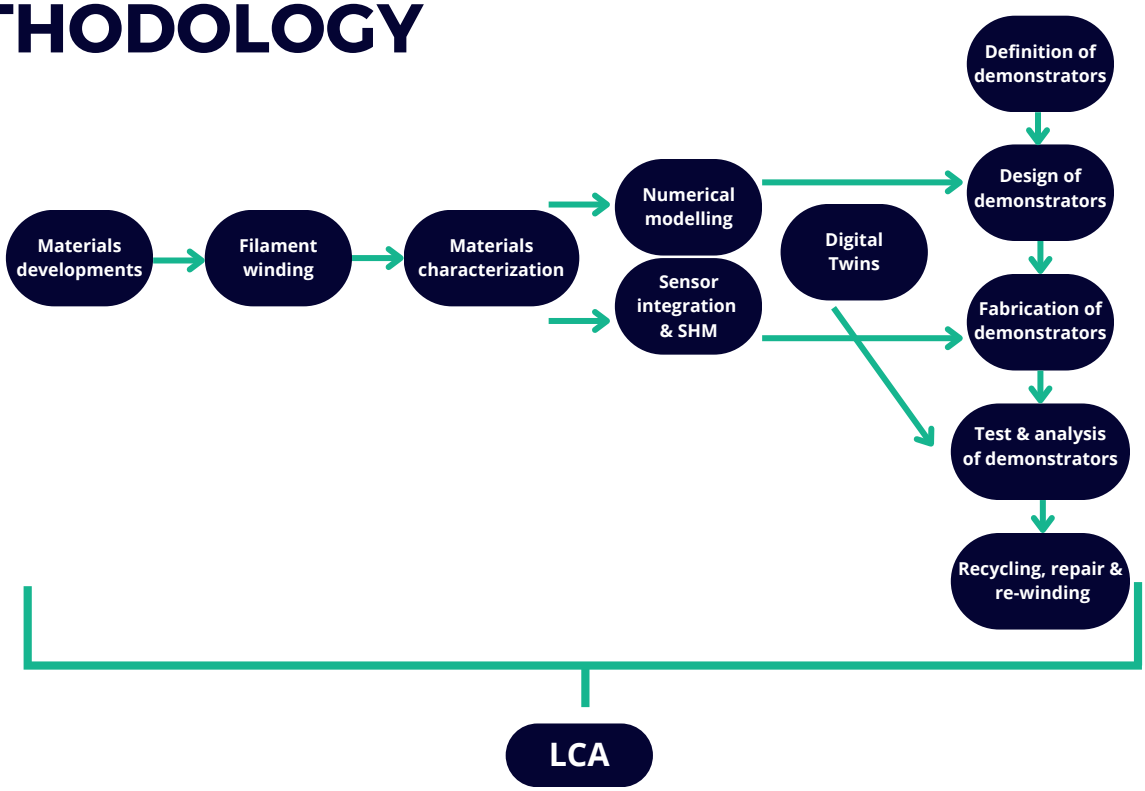
PROMOTE
circular economy practices by reusing materials in the hydrogen storage process.

15 PARTNERS | **2024 2027** DURATION | **9.6** MILLIONS €

PARTNERS

CANOE, Politechnika Wrocławska, AIRBUS, Institut Mines-Télécom, KU LEUVEN, FEV, MAHYTEC, Promat, LUXEMBOURG HAESAERTS FOR HYDROGEN, ARKEMA, BASALTEX The thread of stone, LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY LIST, MATERIALS DESIGN & PROCESSING, ELECTRA, TEMSA

METHODOLOGY



Specific ECOHYDRO methodology through multiple research axes

APPLICATIONS

HEAVY ROAD TRANSPORT
compressed hydrogen gas storage for trucks and buses.

AVIATION
cryogenic liquid hydrogen storage.

ABOVEGROUND STATION
compressed hydrogen gas storage.

TUBE TRAILER
compressed hydrogen gas storage for road transport.

CONTACT

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ECO HYDRO - EU Project

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