

## SUSTAINABLE SOLUTIONS FOR RECYCLING OF END-OF-LIFE HYDROGEN TECHNOLOGIES



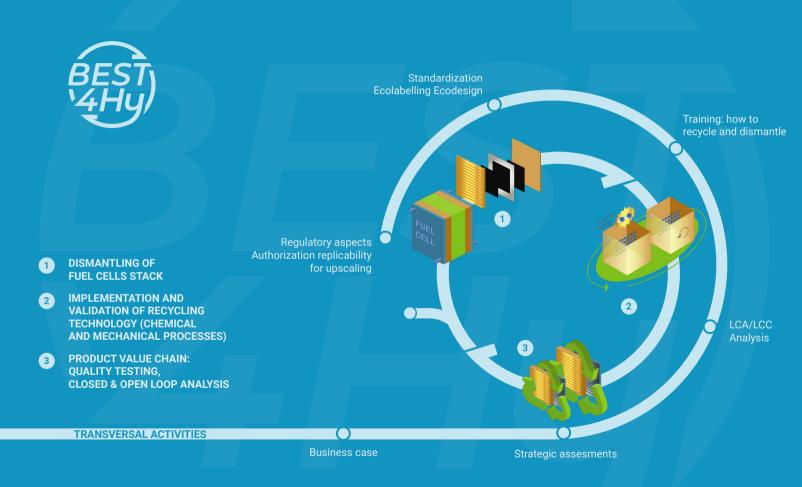
This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (now Clean Hydrogen Partnership) under Grant Agreement No 101007216. This Joint Undertaking receives support from the European Union's Horizon 2020 Research and Innovation program, Hydrogen Europe and Hydrogen Europe Research. BEST4Hy focuses on the development and validation of existing and novel recycling processes for 2 key FCH products: PEMFC and SOFC. An international partnership developing technologies for the recovery of critical raw materials from hydrogen technologies.

## **KEY ELEMENTS**

BEST4Hy overall objective is to bring to TRL5 recycling technologies adapted specifically for PEMFC and SOFC which would ensure the maximization of recycling of critical raw materials including Platinum Group Materials (PGMs), rare earth elements, cobalt and nickel.

The End of Life (EoL) strategy supported is accompanied by LCC and LCA evaluations to ensure it delivers the best (cost effective and low environmental impact) material for closed loop and open loop recycling.

Materials are evaluated for quality and performance in remanufactured PEMFC & stacks and SOFC, so to deliver a concrete validation of the circularity potential within the hydrogen device industry.



## **HIGHLIGHTS**



Recycled critical raw materials in SOFC cells manufacturing.



lonomer in the manufacturing of PEMs stacks.



Platinum in the manufacturing of PEMs stacks.





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