



BEST4Hy focuses on the **development and validation of existing and novel recycling processes** for two key fuel cell and hydrogen products: proton exchange membrane fuel cells (PEMFC) and solid oxide fuel cells (SOFC).

The project aims **to adapt two existing recycling processes** applied already to other technologies and **to validate a novel dismantling process for PEMFC**. Furthermore, **a novel SOFC recycling technology will be proved**.

At the end of the processes, **the materials will be validated in terms of quality and performance** when re-used in new components and in new stacks, demonstrating the overall efficiency of recycling.

Ambitious targets for recycled content in new stacks/cells have been set and will be validated by fuel cell producers, to prove the viability of higher value, closed loop recycling.

Environmental impact and cost-benefits evaluations on the proposed technologies will be performed.

This will support a **more efficient use of raw materials**, including critical resources, and it will **contribute to improve the end-of-life treatment of the hydrogen technologies** and **to foster a circular economy approach within the sector**.

PROJECT DURATION

36 months

01/01/2021 – 31/12/2023

WEBSITE AND SOCIAL MEDIA

www.best4hy-project.eu



PARTNERS

- Parco Scientifico Tecnologico per l'Ambiente ENVIRONMENT PARK TORINO SPA (Coordinator - IT)
- COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (FR)
- POLITECNICO DI TORINO (IT)
- Hensel Recycling GmbH (DE)
- ELRINGKLINGER AG (DE)
- AKTSIAELTS ELCOGEN (EE)
- RINA CONSULTING SPA (IT)
- UNIVERZA V LJUBLJANI (SI)

FUNDING INSTRUMENT

H2020-JTI-FCH-2020-1

BUDGET

Total: **€ 1.586.015**; € 272.812,50 allocated to POLITO

POLITO and DIATI's role:

Politecnico di Torino is a member of the Consortium.

Three departments are involved: DISAT (coordinator department for the University), DENERG and DIATI.

Scientific manager for DIATI:

Prof. Silvia Fiore



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