

HYTECHCYCLING project introduction

2nd Workshop Madrid, 20th of March 2018

Summary

- Nowadays, the development of the FCH technologies isn't take into account their recycling and dismantling, nor their possible re-uses inside a future context of commercialization.
- Some critical materials that are used are:
 - PEMFC and PEMWE: Platinum group materials as Iridium, Platinum or Ruthenium.
 - SOFC: Rare-Earth compounds as Lanthanum and Yttrium.
 - Alkaline electrolysers: **Platinum** and **Asbestos**
- A lack of strategies around the End of Life of this technologies exists. There is also an absence in the reuse of this products.
- There is a markets for business models derivate from material saving and recycled raw materials.



FOUNDATION FOR THE DEVOLOPMENT OF NEW HYDROGEN TECHNOLOGIE







Project introduction

MAIN OBJECTIVE

HyTechCycling aims to deliver reference documentation and studies about existing and new recycling and dismantling technologies and strategies applied to FCH technologies, paving the way for future demonstration actions and advances in legislation and business models.

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- First European project related with FCH technologies recycling.
- Involves the hole FCH technologies life's cycle.



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4 April 2018

HyTechCycling in numbers



Work Packages

WP 1. Project Management & Coordination.

WP 2. Regulatory analysis, critical materials and components identification and mapping of recycling technologies.

WP 3. New strategies and technologies.

WP 4. LCA for FCH technologies considering new strategies & technologies in the phase of recycling and dismantling.

WP 5. Harmonization of procedures considering all actors involved in lifetime of FCH products.

WP 6. New business model and implementation roadmap.

WP 7. Dissemination & Exploitation.





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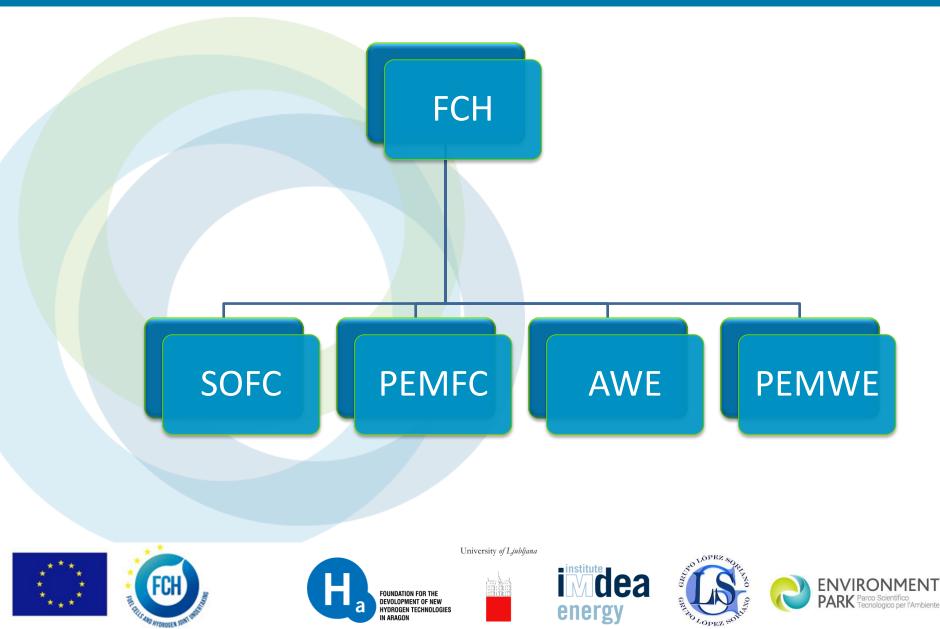






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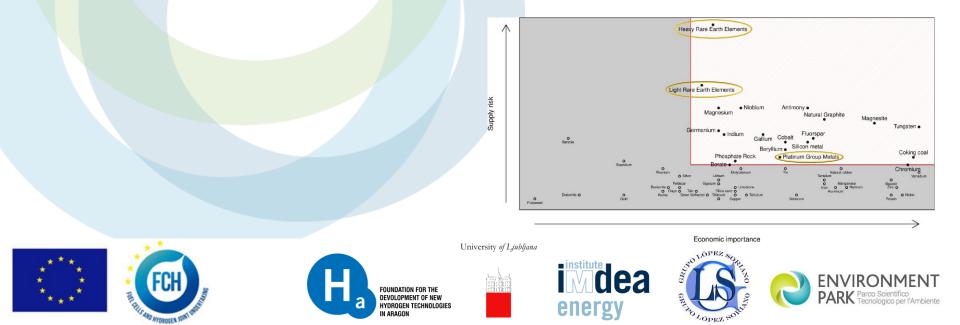
Technologies analysed



Project introduction

IDENTIFYING THE PRESENT. LOOKING TO THE FUTURE:

- Identification and characterization of critical materials.
- Current End-of-Life technologies and strategies.
- Regulatory framework and barriers.
- Needs and challenges in the End-of-Life.



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Thank you for your attention.

More info: www.hytechcycling.eu