

Light to Store chemical Energy in reduced Graphene Oxide for electricity generation

PROJECT PRESENTATION



involves **10** partners **LESGO** (from research and industry) from 6 countries

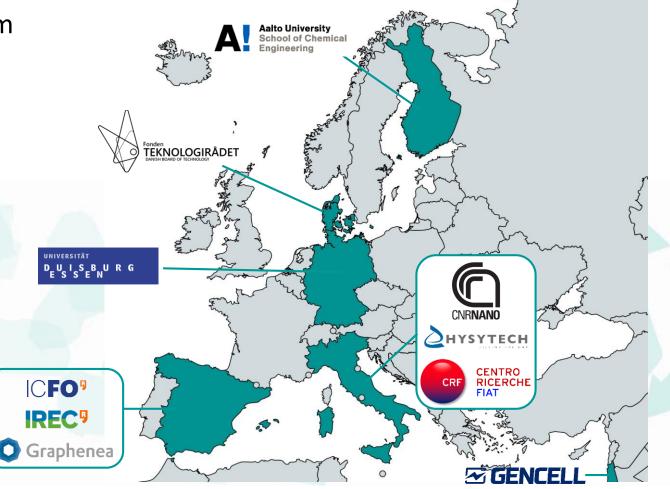


November 1 2020

October 30 2023



4,193,488.75 €





Mission & Vision

Set the foundations for a predictable zero-emissions electricity generation where the only raw materials needed are water and graphite.



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Cost-effective energy storage with no negative impact for the environment by the circular character of the solution proposed.



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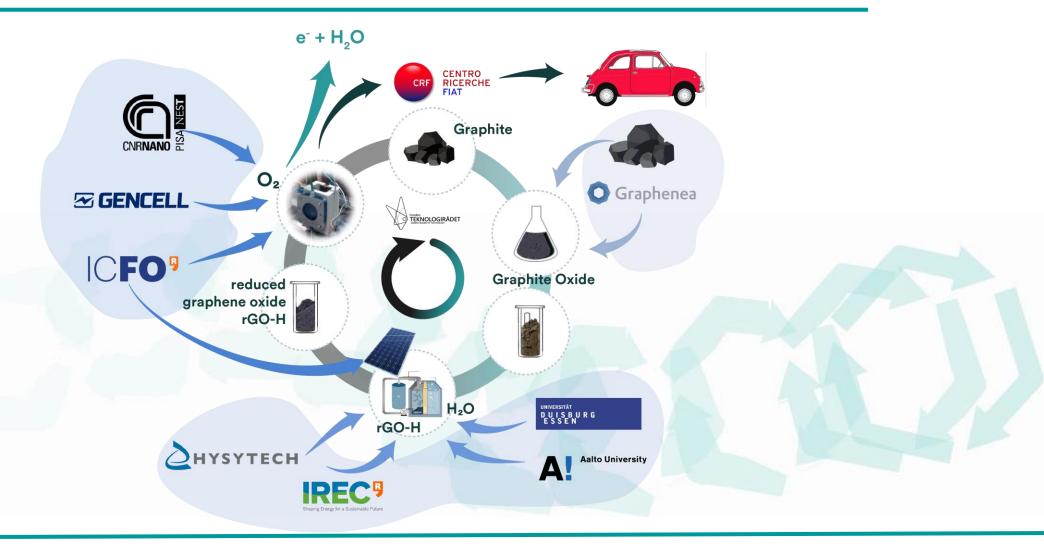
Widespread implementation of a hybrid rGO-H/battery technology as a means of powering Electric Vehicles.







Mission & Vision





- Design, develop, and fabricate electrode and storage matrix materials necessary to enable large scale, safe, and cost-efficient hydrogen storage in hydrogenated reduced graphene oxide (rGO-H).
- Determine the conditions under which solar energy could be harnessed to promote C-H bond formation in rGO-H and demonstrate the feasibility of this approach.
- Demonstrate the generation of electricity from hydrogen stored in rGO-H using a commercial alkaline fuel cell and assess the feasibility of its incorporation into an electric vehicle.
- Build a coherent, innovative, and societally responsive ecosystem for the widespread use of LESGO's, findings and concepts by expanding engagement with scientists, researchers and wider communities of stakeholders.

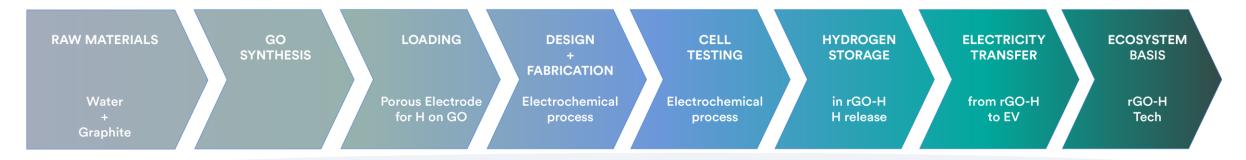








































THANK YOU





















