



ECOSTORE

Project ID: 607040

Funded under: [FP7-PEOPLE](#)

Novel Complex Metal Hydrides for Efficient and Compact Storage of Renewable Energy as Hydrogen and Electricity

From 2013-10-01 **to** 2017-12-31, ongoing project

Project details

Total cost: EUR 4 051 541,94	Topic(s): FP7-PEOPLE-2013-ITN - Marie-Curie Action: "Initial Training Networks"
EU contribution: EUR 4 051 541,94	Call for proposal: FP7-PEOPLE-2013-ITN See other projects for this call
Coordinated in: Germany	Funding scheme: MC-ITN - Networks for Initial Training (ITN)

Objective

Finding novel solutions for energy storage is of high societal relevance, since it is a prerequisite for the turnaround from fossil fuels and nuclear power to energy from renewable sources, since these sources mostly are intermittent. Also for providing an ecological friendly mobility, high capacity energy storage solutions are urgently needed. Well trained experts in energy storage are a prerequisite of the necessary technological development. ECOSTORE contributes to these targets by training 12 ESRs and 3 ERs in materials science and use of novel metal hydrides for energy storage – chemical, as hydrogen, and electrochemical, in batteries. The fellows will be trained in scientific skills by pursuing own research projects (leading to a PhD in the case of ESR) as well as in complementary skills, important for their future career in academia or industry, like management of scientific and technical projects, science-public communication and development of their own career and personality. ECOSTORE is an international network of partners each with high reputation in the field of hydrogen and electrochemical storage. 9 European research institutions, 3 European industrial companies, and 2 Associated Partners from Japanese Universities form a network of complementary scientific and techno-economical expertise. Novel borohydride- and nitride based materials may allow for high energy storage densities in terms of both hydrogen and electrochemical processes. For commercial introduction, a prerequisite is the cost efficient large scale production from abundant and relatively cheap raw materials, going from extremely pure chemicals and laboratory-scale to less pure raw materials and industrial scale. ECOSTORE aims at the scientific understanding of materials behaviour in hydrogen as well as in electrochemical processes, and, based on this, at scale-up of cost effective materials production, and at prototype testing to perform a techno-economical evaluation of the developments

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Subjects

[Life Sciences](#)

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