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- Universidade do Porto (Portugal)
- Ulster University (UK)
- Dublin City University DCU (Ireland)
- CNRS. Délégation Bretagne Pays de la Loire (France)
- LNEG (Portugal)
- UlemCo Ltd Liverpool (UK)
- APRIA SYSTEMS (Spain)
- Auriga Energy Limited (UK)
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ASSOCIATED PARTNERS



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HYLANTIC Project
EAPA_204/2016 – “Atlantic Network for Renewable Generation and Supply of Hydrogen to promote High Energy Efficiency (October 2017 – September 2020)”



HYLANTIC project aims to establish an excellent transnational network to advance the R&D, implementation and commercialization of **renewable hydrogen generation, safe storage and**

efficient and low cost energy systems through innovative fuel cell design and hydrogen combustion engines and their implementation.

environmentally friendly outputs will provide energy efficient solutions

to strategic sectors in the Atlantic Region and benefit regional industries, thus generating positive socio-economic impact.



PROJECT OVERVIEW

The main objective of **HYLANTIC** project is to establish an excellent **TRANSNATIONAL NETWORK** to advance the R&D, implementation and commercialisation of **HYDROGEN** as an energy vector for future power generation in the **ATLANTIC AREA**, thus providing energy efficient solutions to strategic sectors in the Atlantic region such as transport, marine, ultra-low energy building supply, and/or portable and stationary devices.



An international and interdisciplinary team has been assembled which consists of 6 highly specialised R&D groups and 5 SMEs from all COUNTRIES along the ATLANTIC AREA.

Through collaborative research and synergies within the Team, HYLANTIC will address research and innovation for smart and sustainable growth covering sectoral and regional needs.



The project scope includes R&D of new materials and innovative technologies, combined with advanced simulation and optimisation techniques for **HYDROGEN GENERATION** through renewable energy and local waste streams. Also included in the research programme are the design of safe **STORAGE SYSTEMS** and low cost **ENERGY SYSTEMS** through innovative fuel cell and H_2 combustion engines and their **IMPLEMENTATION** in prototypes.

PROJECT STRUCTURE

Beside transversal activities (Coordination, Communication and Capitalization), HYLANTIC project is organized in 4 work packages:



WP4: Renewable Hydrogen Generation



WP5: Innovative and Safe Hydrogen Storage



WP6: Competitive Implementation of Advanced Fuel cell and Hydrogen Internal Combustion Engines for Energy Efficiency



WP7: Socio Economic Impact Assessment and Exploitation Strategies for Utilising the New Whole Approaches

Interactions between workpackages are illustrated in the scheme:

