Horizon Europe Cluster 5



International Networking Event

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Description of the Organization



- AIMPLAS, Plastics Technology Centre, Valencia (Spain), is a private, non-profit Association.
- + 700 associated companies. +195 highly skilled professionals and 30 years expertise
- AIMPLAS has **state-of-the-art 10,000 m² facilities**, <u>including thermoplastics & thermoset pilot plants</u>, <u>coatings</u>, <u>polymer/nanoparticles</u> synthesis, <u>clean rooms and testing laboratories</u> and training areas.
- AIMPLAS has participated in >100 projects in FP5, FP6, FP7, LIFE+, CIP-EcoInnov., SUDOE, H2020... EU Programmes, coordinating 40% of them.
- Global expertise in the whole plastics/materials value chain:







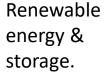


Description of your research interest

• AIMPLAS has a broad expertise in the fields of recycling, plastic blends, reactive extrusion, synthesis and processing of biopolymers and renewable source materials, special assisted processing technologies (microwaves, supercritical CO₂), gases capture and conversion systems, catalyzers, plastronics, materials for Additive Manufacturing, high performance coatings, polymer nanocomposites, functionalization of nanoparticles, multilayer structures and development of plastic products for a broad range of industrial sectors.

























Project Idea

CL5-2022-D3-01-02: Demonstration of innovative materials, supply cycles, recycling technologies to increase the overall circularity of wind energy technology and to reduce the primary use of critical raw materials. (novelty technologies based on direct reuse, mechanical and chemical recycling of wind blades).

CL5-2022-D3-01-06: Novel Agro-Photovoltaic systems (flexible PV panels integrated in farm facilities).

CL5-2022-D3-01-07: Demonstration of innovative rotor, blades and control systems for tidal energy devices (high performance thermoplastic composites for tidal blades).

CL5-2022-D3-01-15: Decarbonising industry with CCUS (CO₂ to chemicals and fuels).

CL5-2022-D3-03-05: Novel Thin Film (TF) technologies targeting high efficiencies (high barrier films and coatings to protect thin film cells).

CL5-2022-D4-01-01: Demand response in energy-efficient residential buildings (technologies based on Joule effect for heating with low energy consumption)

CL5-2022-D5-01-02: Innovative energy storage systems on-board vessels (ZEWT Partnership) (integration of large storage systems).

CL5-2022-D5-01-04: Transformation of the existing fleet towards greener operations through retrofitting (ZEWT Partnership) (Retrofit innovative hydrodynamic improvements (hull, hull management, appendages).









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