



# GELCLAD

Highly efficient cladding eco-panels with improved nano-insulation properties project, has received funding from the European Union's Horizon 2020 research and innovation programme, under the EEB-01-2016 topic of the H2020-EEB-2016-2017 call.

**CONSORTIUM CONSISTS OF 12 PARTNERS FROM 5 COUNTRIES (PORTUGAL, SPAIN, UNITED KINGDOM, GERMANY, SLOVENIA).**

**PROJECT NUMBER**  
723425

**TOTAL FINANCING**  
4 792M.€

## **BENEFICIARY PARTNERS OF GELCLAD PROJECT**

Instituto Pedro Nunes (PT)  
Navodnik Kemijski Inzeniring (SI)  
Brunel University London (GB)  
Tecnaro (DE)  
Vannplastic (GB)  
Laboratório Nacional de Engenharia Civil (PT)  
Active Aerogels (PT)  
Slovenski Gradbeni Grozd (SI)  
Cosnrucciones Garcia Rama (ES)  
Fraunhofer (DE)  
Building Research Establishment (GB)  
JUB Kemicna Industrija (SI)

## **What we want to achieve?**

1. Supply the market with a novel and improved external insulation solution.
2. Bring to the market a high performance solution at acceptable costs.
3. Provide the market with an innovative and durable cladding solution.
4. Address the market with a realistic answer for a faster and easier retrofit plan.
5. Bring the state of the art nanotechnologies and smart materials into the real economy.
6. Reinforce the sustainability focus of the insulation market.
7. Answer the major european renovation plan with a versatile external insulation solution.
8. Promote the certification of the insulation market.

The novel GELCLAD H2020 project aims at creating a novel cost-effective, durable, industrialised and easy to install composite insulation cladding system, based on a single structured panel with excellent insulation properties.

GELCLAD panels will be designed with a wood-polymer biocomposite (ecoWPC) skin and aerogel core, presenting a unique constructive solution while incorporating, in one final off the shelf cladding product, an advanced insulation material able to answer the needs of new generation of energy efficient buildings.

Complementary, the novel cladding system can be set with passive pre-programed materials, able to respond dynamically to ambient stimuli and control the air flow inside the building facade structure.

The GELCLAD system aims to reach the market with a new smart, multifunctional and eco-friendly cladding solution, alternative to traditional products.

**The foreseen main impacts of the novel GELCLAD system will be 20% lower embodied energy when compared with traditional panels and bring to the market a new lasting cladding system (with up to 50 years of useful life), devoted to urban refurbishment and able to reduce installation and maintenance costs.**

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723425