

Vacuum Insulated Panel (VIP)



Description

Retrofitting solutions and services for the enhancement of energy efficiency in public buildings through integration of RES, energy storage systems, nanotechnologies, smart materials and ICT.

Objectives

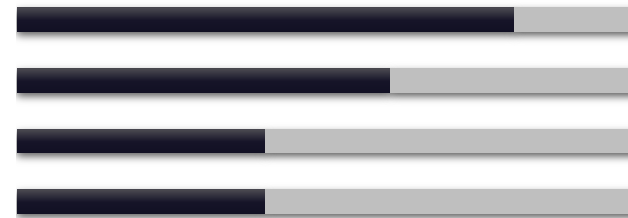
- To validate the environmental sustainability of the development of advanced vacuum insulation for building elements, of façade integration concepts and of VIP Panels, to evaluate their feasibility and improve the sustainability of the developed solutions,
- To develop dissemination activities involving scientific knowledge and communication programs focused on local authorities, SMEs and industry sector. The project will implement a multi-channel approach to reach public via television, media and web.

Activities

- Sustainability assessment:
 - Life-Cycle Assessment LCA,
- Market uptake & sustainable communication:
 - Communication & dissemination plan.

Challenges

- Input data complex to collect
- Technical knowledge required
- Legal & legislation barriers
- Technology readiness level



Added values

- - 60% energy consumption, 516 tons CO₂ emission avoided annually,
- 6 years ROI, 18.900 m² area of retrofitting.
- A Green Communication plan with company image and marketing visual supports,
- List of relevant international event for dissemination.

