

Energy efficiency through buildings retrofitting



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

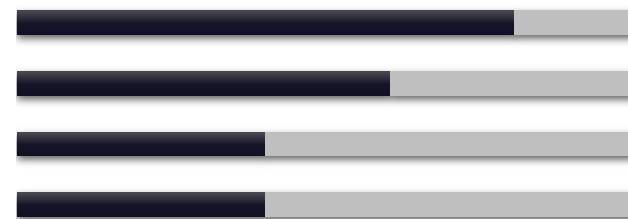
- To validate the environmental sustainability of all the technologies developed during the project and to evaluate their feasibility and the improvement in sustainability provided by these new solutions to determinate the main KPIs,
- To develop dissemination activities involving scientific knowledge 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,
 - Exergy analysis,
- 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.

