





Solar thermal collector technology

<p>Description</p> <p>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.</p>	<p>Objectives</p> <ul style="list-style-type: none"> To validate the environmental sustainability of the design and the development of the insulation façade construction components and of indoor air distribution system for different climate outdoor conditions to evaluate their feasibility, To develop dissemination and communication programs including scientific explanations and demonstrations addressed to local authorities, SMEs and industry sector. The project will use a multi-channel approach to reach public via television, media and web.
<p>Activities</p> <ul style="list-style-type: none"> Sustainability assessment: <ul style="list-style-type: none"> – Life-Cycle Assessment LCA, Market uptake & sustainable communication: <ul style="list-style-type: none"> – Communication & dissemination plan. 	<p>Challenges</p> <ul style="list-style-type: none"> Input data complex to collect  Technical knowledge required  Legal & legislation barriers  Technology readiness level 
<p>Added values</p> <ul style="list-style-type: none"> - 60% energy consumption, 516 tons CO₂ emission avoided annually, 6 years ROI, 18.900 m² area of retrofiting. A Green Communication plan with company image and marketing visual supports, List of relevant international event for dissemination. 	

