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HORIZON 2020 RESEARCH PROJECT This project is supported by the European Comission under the Energy Theme of the Horizon 2020 for research and Technological development.

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Energy Efficient Ventilated Façades

Energy Efficient Ventilated Façades for Optimal Adaptability and Heat Exchange enabling low energy architectural concepts for the refurbishment of existing buildings.





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PROBLEM

Existing residential buildings built before existence of any legal requirements for energy efficiency, are predominantly of low energy performance and subsequently in need of refurbishment work.

Within the existing European building stock approximately 34% of the multi-storey residential buildings was built in the 60's and 70's. With the aim to bring a significant impact, these buildings have been identified as a target of the E2VENT project, and can be characterized by:



E2VENT SOLUTION

Combining energy efficiency and

Call EeB2014-Topic2-H2020: Adaptable envelopes integra-ted in building refurbishment projects.

E2vent is 42 months research project funded by European Commission under the Energy Theme of the Horizon 2020 for research and Technological development.

www.e2vent.eu



FASADA

Background: Pich Architects has collaborated on several research and development projects within the H2020 frame, participating on the state-of-art development of construction systems and elements for the energy efficiency, together with technological centers, universities, material manufac

E2VENT PROJECT

Focus on developing an energy efficient ventilated façade system for the refurbishment of existing residential multi-storey buildings, i.e. a modular adaptable system embedding heat exchange and heat storage units to reach optimum energy performance.



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In the **E2vent project**, **Pich Architects**, together with **Acciona**, were responsible for the development of specific solutions of the system application in the pilot projects, ensuring simple, smart and flexible manufacturability and aplicability on the construction site, as well as the acceptance by the architectural sector and wide public.

> turers, consultants, engineers and local administrations proceeding from locations distributed all over Europe. providing different points of view to the effort to comply with the ambitious goals of the European Commission related to the continuous progress of the construction sector.

