we are sharing with you the fifth newsletter of the E2VENT project. The aim of this newsletter is to provide you with a summary of the progress achieved so far in the E2VENT project as well as inform you about our plans for the next period of the project.



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



Value chain requirements & specifications.











START January 2015



refurbishment. MILESTONE







room) with high internal heat loads which imply a need of air renewal and cooling. The renovation design corresponds to the installation of 3 SMHRU units and 2 LHTES units for a total ventilated façade to be installed of 250 m².



Computer Room











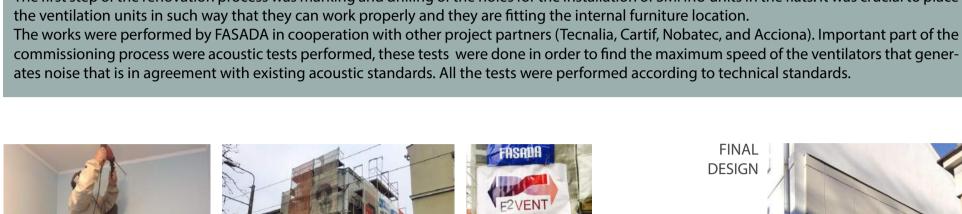








The second building, in Gdansk, needed to be renovated because of its low energy Dwelling n°2 (Ground Floor) performance and low air quality inside the flats that was confirmed by monitoring. 32m² E2VENT solutions were demonstrated on two flats. The elements composing the design were two SMHRU (Smart Heat Recovery Unit) allowing air renewal to ensure Dwelling n°7 (First Floor) better indoor air quality while limiting thermal losses thanks to the double flux heat exchanger, two BEM (Building Energy Management) systems, that allow the



INSTALLATION PROCESS







smart piloting of the HVAC, the ventilated façade (40 m²) of Etalbond panels, fixed

The SMHRU and ventilated façades were manufactured in Greece in ELVAL while the BEM system was manufactured and calibrated by CARTIF in Spain. Then all the

> **FINAL DESIGN**

on vertical T-profiles on VARIO brackets, and ETICS façade (120 m²).

components were sent directly to Gdańsk to FASADA premise.



09:30 - 10:00 10:00 - 10:15

10:15 - 10:45

10:45 - 11:30

11:30 - 12:00

12:00 – 12:30

12:30 - 13:00

13:00 - 13:30

Registration free within the BUDMA Fair at e2vent.eu/budma-workshop

FIRST E2VENT WORKSHOP

E2VENT PROJECT: Demo sites presentation Energy Performance of Buildings Directive and Renovation of the EU Building Stock

E2VENT PROJECT: General presentation

E2VENT PROJECT: Business opportunity

Intellectual Property Rights protection for

OPEN UP NEW POSSIBILITIES

Registration and coffee

Welcome and opening

Coffee break

innovation

13:30 – 14:00 Practical view of the manufacturer **ELVAL COLOUR: Angelos Zografos** and trends in ventilated façade systems 14:00 - 14:30 **Panel Discussion** NSPIRATION • KNOWLEDGE • BUSINESS

In the "Who We Are" video all partners introduced themselves as a company and they explained their role in the project. The video was created by FENIX TNT during the meeting in Anglet, France. You can all E2VENT videos, including this one, on our Youtube channel called "E2VENT project".

NEW E2VENT VIDEO

CLICK HERE

NEW E2VENT VIDEO

Burgos. These respondents were mainly students and teachers who spend several hours each day in a building that is used as a demo site for the E2VENT system, thus they are able to share their experience with the air quality and conditions in the

E2VENT final video

"Who We Are"

WHO WE ARE?

SOCIAL ACCEPTANCE QUESTIONNAIRE For each new product is essential to find social acceptance in society. For this purpose, a questionnaire was created and distributed to dozens of respondents at the University of

TNT will present the final video at BUDMA fair in Poland and share it also on the E2VENT YouTube channel "E2VENT project".

A video capturing the installation of the E2VENT system was filmed by FENIX TNT during the last General Assembly meeting in Burgos in October 2017. The upcoming promo video will consist of the installation process in Burgos and also from Gdansk, where the installation was filmed by FASADA. The video will also provide detailed information about the E2VENT product from several interviews with partners of the project. FENIX

ELVAL COLOUR

obatek CCC

ECHNOLOGY CARTIF



acciona

UNIVERSITY OF Hull



RIA

picharchitects



BUILDING

tecnalia)

YOU CAN FIND US ALSO ON:

www.e2vent.eu



PAST EVENTS

accessibility for maintenance.

global competitiveness.

CONGRESO INTERNACIONAL
DE ENVOLVENTES ARQUITECTÓNICAS

E2VENT presented at 3rd ALUMinnov' conference

EKOinnovation Forum in Krtiny, Czech Republic

the aluminium value chain. This year's conference was focused on the building sector and was an ideal opportunity for Bernard Gilmont to present the E2VENT project. The presentation triggered debate with journalists and an architect who stressed the importance of

The E2VENT project was presented by European Aluminium during the 3rd ALUMinnov' conference in Paris on 12th December 2017. ALUMinnov´ is an initiative from Aluminium France, the cluster of French aluminium associations, aiming at promoting innovation across

The E2VENT project was presented by FENIX TNT at the EKOinnovation Forum on 30th November in Krtiny, Czech Republic. The forum aimed to accelerate the emergence of modern solutions into everyday life. Participants were provided with an interesting discussion of current and future trends in this area and introduced modern sustainable technologies that can provide European Union countries with



Info day Horizon 2020 in Prague





The E2VENT consortium met on 31st October 2017 and 1st November in Burgos, Spain. The meeting was mainly dedicated to installing the E2VENT system, but it was also a chance to meet again with the all project partners, discuss and evaluate the project's progress and plan the next steps.

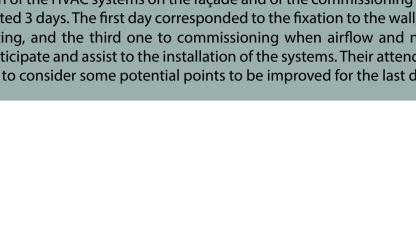
extensive article was published in a September issue of this journal and information about technology, demo-site, and also about the impact of the project.

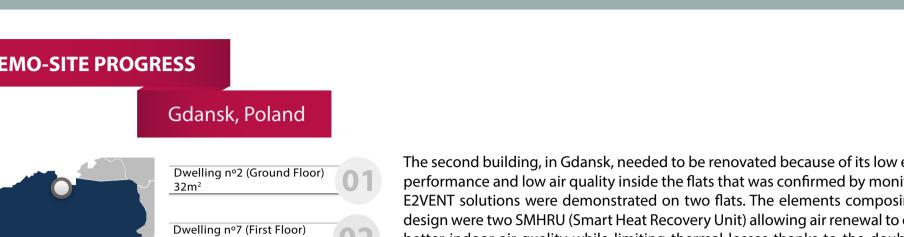
included

FENIX TNT wrote an article which introduces the E2VENT project to readers of a Czech magazine "Materialy pro stavbu" ("Building Materials"). This

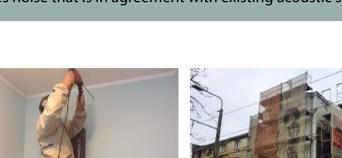
Cluster projects The E2VENT project is now connected with other "cluster" projects supported by European Commission which have a similar goals, ideas, or technology. Clustering with other projects allows project teams to better establish co-operation and share their experience. E2VENT

The first step of the renovation consisted of the installation of the HVAC systems on the façade and of the commissioning regarding their correct functioning. This phase started the 30th of October and lasted 3 days. The first day corresponded to the fixation to the wall, the second one to the settings and functioning tests especially regarding piloting, and the third one to commissioning when airflow and noise levels were measured. All partners of the E2VENT consortium joined to participate and assist to the installation of the systems. Their attendance allowed not only to see the finalization of 3 years of development, but also to consider some potential points to be improved for the last design.





The first step of the renovation process was marking and drilling of the holes for the installation of SMHRU units in the flats. It was crucial to place











FENIX TNT: Barbora Blaskovicova

computer lab.

PARTNERS

under grant agreement No 637261

E2VENT project at Building Fairs in Brno

the further detais at the E2VENT website and social media.

The public workshop in the Czech Republic for E2VENT project is planned in May 2018 in Technology Centre CAS in Prague, Czech

Public Workshop In Prague

UPCOMING EVENTS

Public Workshop in Burgos



The E2VENT project will be presented by FENIX TNT at the Building Fairs in Brno, Czech Republic in April 2018. Fairs in Brno are well known for a unique presentation of all aspects of housing and house constructions, building management services, technical solutions and equipment. We will inform you about

of the E2VENT solution.



Spain. The E2VENT project as a whole will be introduced by NOBATEK during the workshop called "Accelerating building refurbishment in Europe thanks to innovative solutions: challenges and

potential routes to overcome them", while CARTIF and TECNALIA will focus on the individual parts



Article about the E2VENT system on Elval Colour website One of the project partners, **Elval Colour**, published an article focused on the E2VENT system on their website. The article includes

information about Elval's role in the project, introduction of the whole system, and demo sites.

Article about the E2VENT project in the "Building Materials" magazine

Article "New Way for Building Renovation" in Energy & Research journal An Article about the E2VENT project called "New Way for Building Renovation" was published in Innovative Energy & Research journal on 29th August 2017. The article was written by FENIX TNT, published by Omics International and includes information about the

E2VENT published at BuildUp portal

E2VENT system itself, its technology, use, and outcomes. cluster projects are now listed at the project website.

The latest news about the E2VENT project were shared at **BuildUp portal** which is focused on energy efficiency in buildings in Europe. The article was published on 3rd July 2017 and included information about the project progress and test bench in Anglet, France. This dissemination material reflects only the author's view and the European Commission is not responsible for any use that may be made of the information it contains.

September 2015 December 2016 November 2017 August 2016 **END** March 2015 February 2017 June 2018 Design of the Project website. Prototype first components of Communication and feedback and dissemination plan. E2VENT system. validation for the construction for pilot buildings. **DEMO-SITE PROGRESS** Burgos, Spain Entering its final phase, the E2VENT project demonstration on pilots started with the Lecture Room renovation of the first pilot site in Burgos, Spain. The building is in the University of 102 m² Burgos, partner of the project. It is composed of two rooms (computer lab and class-

DEMO-SITE PROGRESS