we proudly present the fourth E2VENT newsletter. The aim of this newsletter is to provide you with an overview of the progress of the E2VENT project. The project has reached a milestone of 30 months and it is at this point that we would like, once again, to share with you the latest news on the advances that were made in the past months as well as elaborate on our plans for the upcoming period.



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



Value chain requirements &









December 2016





March 2015

START



Project website. Communication and dissemination plan.



MILESTONE Design of the components of E2VENT system.

August 2016

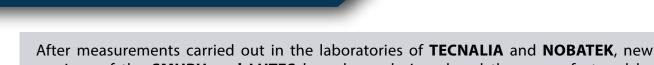


February 2017 Prototype first feedback and validation for the construction for pilot buildings.



November 2017

END



versions of the SMHRU and LHTES have been designed and then manufactured by **ELVAL** at month 26. The systems were then shipped to Anglet in order to be assembled and installed on the test bench.

THE TEST BENCH

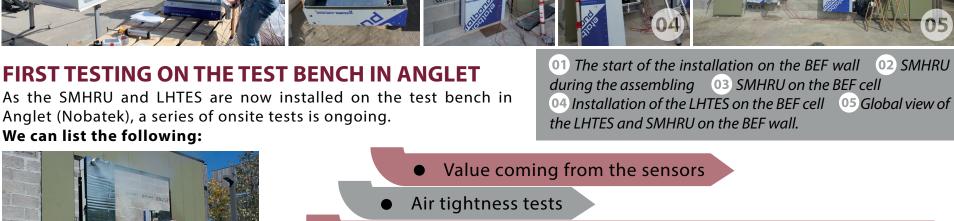
The test bench located in Anglet, France in Nobatek's facility, allows installing the systems on a 2,6 m high and 2,7 m width wall associated to a cell that is fully equipped with HVAC systems and measurements, allowing to assess

the energy performance of those systems on the associated zone. Another cell with an identical wall has been renovated with an ETICS and serves as a business reference. The performance of the two renovations will be compared. effectively from one circuit to another while ensuring air tightness. A series of onsite tests is now being carried out (acoustic, thermal measurements, quality of the signals and others)



Forced piloting of the ventilators and dampers by the use of the

Automatic piloting of the ventilators and dampers based



GUI of the BEMS



with an XML list easy to implement.

corresponding buttons.

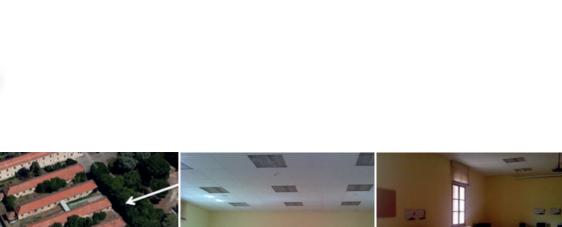
on the piloting algorithm implemented in the BEMS The next step is to install the mineral wool board to insulate the cell and to place the anchorings, profiles and cladding for the

Control system is visual and changes are made through the means of selectors and text fields. These graphics are customised for each demo site. The elements are configured

CONTROL AND VISUALIZATION OF PARAMETERS

DEMO-SITE PROGRESS

For the graphs tab, there is the chance to select a range of time and then consult values of variables, daily KPIs and monthly KPIs, also with options to save the data of the time interval related to the LHTES, SMHRU and weather only by using the



Computer Room

Two dwellings:

The dates for the refurbishment procedures have been set on July and are expected to be finished at the first week of September due to the summer holidays when the university is closed.

Preparation of the site

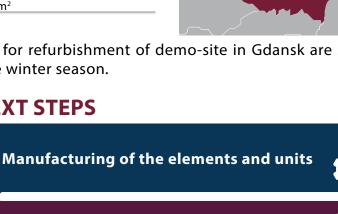
Dwelling n°2 (Ground Floor) 32m²



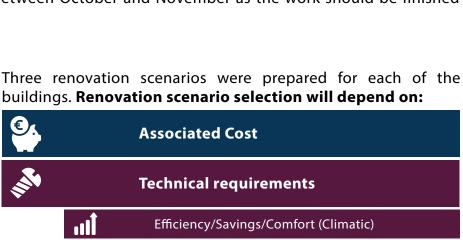
THE NEXT STEPS

(01)

(02)

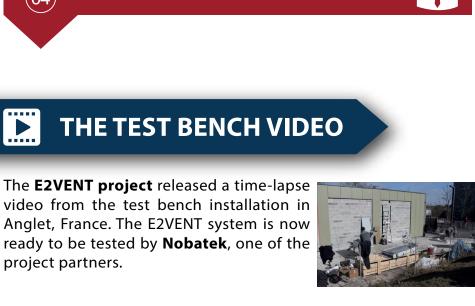






Structural **Construction works** (03)**Regulations/Normative**







UNIVERSITY OF

RINA CONSULTING

picharchitects

tecnalia

YOU CAN FIND US ALSO ON:

www.e2vent.eu



UNIVERSIDAD DE BURGOS

UPCOMING EVENTS

from over 40 countries are members of the PLEA.

obatek CCC

TECHNOLOGY CARTIF



EUROPEAN ALUMINIUM



The E2VENT project was presented by Bernard Gilmont from EUROPEAN ALUMINIUM during a speaking slot at the EU Sustainable Energy Week 2017 which took place 19th-25th June 2017 in Brussels. Sessions organised by the European Commission and energy stakeholders debate new policy developments, best practices and sustainable energy ideas, while networking events forge alliances.

acciona

Infraestructuras





TECHNOLOGY

FASADA



The **E2VENT** project was presented by **Petra Colantonio from FENIX TNT** during the **Workshop of the Partnership** in Public and Private Sector in HORIZON 2020. The event was organised by the Technology centre CAS in Prague, the Czech Republic and took place on 24th May 2017. The aim of the workshop was to inform about results made during the programs PPP Factories of the Future, Energy-efficient Buildings and SPIRE a Photonics.

programme for 2014, 2015 and 2016.

for residential building renovation"

LCC AND LCA CONFERENCE

E2VENT project there.

E2VENT PROJECT PART OF THE EEB PPP PROJECT REVIEW 2017

The E2VENT project was published by Picharchitects in the "Journal of façade design and engineering" Conference of Istanbul. Article is called: "E2VENT – design and integration of an adaptable module

JOURNAL OF FAÇADE DESIGN AND ENGINEERING

BUILDING FAIRS – BRNO, CZECH REPUBLIC

INTERNATIONAL CONFERENCE ON BUILDING ENVELOPE SYSTEMS AND TECHNOLOGIES Paolo Basso from Rina Consulting presented a paper related to the E2VENT project during the International Conference on Building Envelope Systems and Technologies (ICBEST), which took place 15th-18th May 2017 in Istanbul.

We are proud that the E2VENT project is one of the 155 energy efficient H2020 and FP7 projects presented in the 6th edition of the **EeB PPP Project Review 2017.** This yearly publication presents the progress and results of 110 co-funded projects within the EeB PPP under the 7th framework programme (FP7) for 2010, 2011, 2012 and 2013 and 45 co-funded projects under the HORIZON 2020

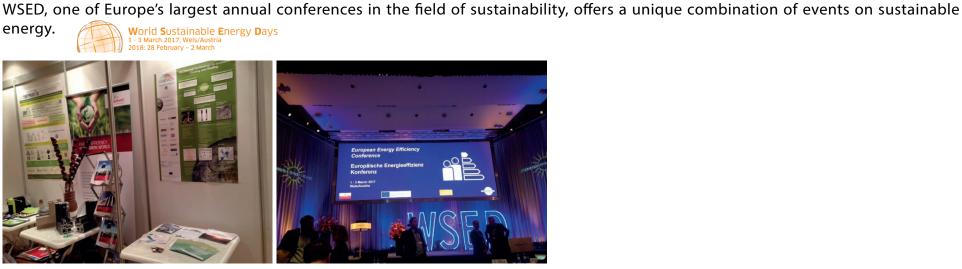
The E2VENT project was exhibited by FENIX TNT at the Building Fairs in Brno, Czech Republic. The event took place on the 26th-29th

The E2VENT project was presented by ACCIONA during the LCC and LCA conference which took place 14th March 2017 in Madrid,

Jornada sobre ANÁLISIS DEL CICLO DE VIDA Y DECLARACIONES AMBIENTALES DE PRODUCTO. ¿DÓNDE ESTAMOS Y HACIA DÓNDE VAMOS?



Spain. The Conference is dedicated to the analysis of the life cycle and environmental product declarations.











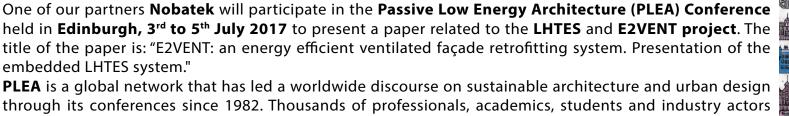
BURGOS - SPAIN Block 3 Two Rooms: Lecture Room 102 m²







PARTNERS



PASSIVE LOW ENERGY ARCHITECTURE CONFERENCE

WORKSHOP of the PARTNERSHIP in PUBLIC AND PRIVATE SECTOR in HORIZON 2020

The presentation was dedicated to the design of the E2VENT and its integration with the building system.







