

## Welcome to the 7th edition of the BRICKER newsletter

In this edition, we report on our endeavours since last spring, which saw the finalisation of the works at the Turkish and the Belgian demo site. The work planned at Spanish demo site could not be delivered during the duration of the BRICKER project but the preparatory work and the simulations undertaken offer interesting insights into the retrofitting deployment activities.

BRICKER will end March 2018 and until then, there will be many opportunities to learn more about the BRICKER outcomes and achievements . Two events are prepared to share the BRICKER experience with our stakeholders: **Integrating new technologies to retrofit public buildings – the BRICKER concept** - Conference during the WSED2018 in Wels Austria, and the study tour and inauguration of the retrofitted building in Liège , taking place on 6 March 2018. Furthermore, webinars will be organised to share the results with EE public buildings audiences, an updated brochure with the main achievements and best practices will be made available as will all the other deliverables. Our project website features a specific section displaying images of the interventions at the [Belgian](#) and [Turkish](#) demo sites.

If you are interested visit us on the BRICKER web site and do not forget you to follow [BRICKER on LinkedIn too](#). Best wishes for a merry Christmas and a happy new year!

Juan Ramón de las Cuevas  
Project co-ordinator

## News and interviews

### [Retrofitting public buildings: where public procurement and innovation have to shake hands](#)

In recent years, the word “smart” has started rolling off the tongues and keyboards of policy makers in many areas of our global village.



## Earthquakes, buildings and green energy: Turkey's balancing act



While Turkey is well known as a hot and sunny holiday destination, it also faces low temperatures, which means it has both substantial heating and cooling needs for its building stock. The country also lies in one of the world's most active seismic zones and energy efficiency measures need to be earthquake resistant

## Now it's all coming together to form the BRICKER system

Despite delays due to bad weather conditions over the winter, the works at the Liège demo site have been progressing steadily over the last few months.



### News from the Demo Sites

## Aydin demo works – the end in sight



The works at the university hospital in Aydin are nearing completion as we approach the final leg of BRICKER. Both passive and active systems are progressing steadily and the supplier of the adsorption chiller has recently been Turkey to oversee its installation.

## BRICKER and TRIBE working together to change user habits

By changing their habits, users of public-owned non-residential buildings can reduce overall energy consumption. How does this work with TRIBE and BRICKER?



## Works nearly completed at Liège demo site



Works at the Liège demo site have been continuing with much of the façade refurbishment, wall insulation and piping system now completed.

## Hack, break and innovate—Onur Gunduru's summertime agenda

In August, many of us were soaking up the sun or hiking in the mountains, but BRICKER's Onur Gunduru from Turkey had a different agenda; he was busy hackin' and breakin' by invitation of ENSIA, a Turkish organisation aimed at clustering renewable energy business segments.



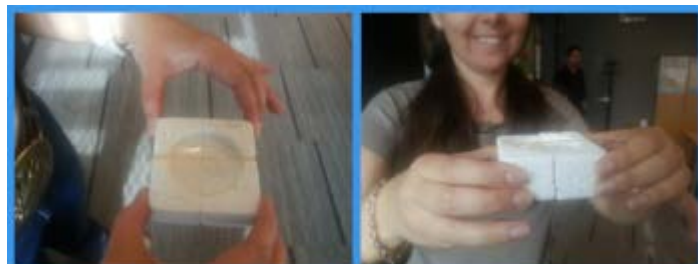
## Selected contractors now working on installation of active and passive systems



The tendering rounds for passive and active systems and delivery processes of the various products have been completed.

## Retrofit Advisor's Corner

### Insulation material used at BRICKER's demo site in Turkey



The insulation material selected for the BRICKER project at Adnan Menderes University Hospital Block A façade is an extenuated silicium based locally produced insulation material and paste called IZOLUX-TERMOJET.

It is a 91% organic product, repelling the water. According to the test result submitted by İTBAK - the representative body of the European Organisation for Technical Assessment (EOTA) in Turkey-, the thermal conductivity of the material for calculations is  $\lambda=0,040$  W/mK at 23°C and 80% humidity. The dry density of the product is 190 kg/m<sup>3</sup> (+/-5%). It is registered as Class A1 for fire resistance (1280°C for 2 cm thickness and 3 cm thickness). The sound insulation capacity for 3 cm thickness is 14 Decibel / 500 Hertz. The product can be used on both external and internal facades building façades. As the material is sprayed to the surfaces, it prevents thermal bridge potential.

## Retrofit advisor's corner: PIR foams with embedded Phase Changing Material



PCMs are materials that can adsorb and store thermal energy while its structural phase changes. The energy is adsorbed when the material changes in state, from solid to liquid, and it is released when the materials changes in state back from liquid to solid.

The thermal energy transfer during phase changes occurs in nearly constant temperatures, otherwise than in other materials used as thermal insulation. **PCMs combined** with traditional insulation material - **PUR foam**, highly improves its thermal behaviour heat storage capacity.

## BRICKER partners in the spotlight

### Onur Enerji



*"We are engineering partners in the BRICKER project. Our aim is to maximise energy efficiency, renewable energy production, ensure compliance with regulations and assist all technical work for a flawless execution in the Turkish demo building and contribute to most of the work packages in the project." - Onur Gunduru*

### Özyeğin University



*"Özyeğin University is an active R&D partner. We participate in all research work packages, focussing on passive systems and collaborating in active system. Our experience includes preparing architectural and engineering projects, structuring the tender documents and participating in tender processes. In BRICKER, Özyeğin University coordinates the local Turkish demo works, liaising with local project partners, contractors, subcontractors and consortium partners." - Yasemin Somuncu*

## Meet us at events

### [BRICKER Final Conference at World Sustainable Energy Days 2018](#)

World  
Sustainable  
Energy Days | 2018

[WSED2018](#) will be the backdrop to BRICKER's final conference set for the morning of 2 March 2018 in Wels, Austria. The BRICKER event will feature as part of the WSED2018 Technology Innovation Conference: Energy and Buildings.

#### Programme topics

- **BRICKER – an overview of a project and a concept: pioneering technologies, high replication potential**
- **Active Technologies: producing energy with zero emissions**
- **Passive Technologies: Envelope retrofitting solutions for lower energy demand**
- **Results in reality: what was achieved?**
- **People, price, politics: overcoming non-technical challenges**

#### Speakers include:

Juan Ramon de las Cuevas, Luc Prieels, Francesco Orioli, Yasemin Somuncu, Jose Pascual Marti Mata, Raymond Charlier, Onur Gunduru, Catherine Pinet

Please register [here](#).

2 March 2018 | Wels, Austria

### [Save the date: Liège demo site study tour and inauguration on 6 mars 2018](#)

Come and see for yourself how BRICKER has retrofitted the Liège demo building during a study tour of the premises. Meet and speak with those at the heart of the project and gain sight on the project's achievements and challenges. And benefit from a great networking cocktail.

More details to follow shortly on the [BRICKER website](#) and [LinkedIn](#)



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