



CommONEnergy



RE-CONCEPTUALIZE SHOPPING MALLS
from consumerism to energy conservation

Edito

CommONEnergy gathers since 2013 23 partners from ten EU countries to transform shopping centres into beacons of energy efficiency. In less than a year, the project will come to an end, but in the meantime, many results and activities are of added value for mall owners, architects, energy managers, policy-makers, tenants, customers and more. Being complex and very peculiar buildings, shopping centres should be specifically considered in EU Directives (e.g. EPBD, EED) and relative national legislative frameworks. CommONEnergy is preparing a position paper on the matter available early 2017.

October started with a General Assembly in Madrid and an inspiring workshop in Valladolid, where we visited Mercado del Val, one of our demo-case where deep renovation measures are applied, and where we had crucial open and fruitful discussions with our advisory board and stakeholders representing the 11 CommONEnergy reference buildings. We collected important feedbacks to finalise the cost-effective deep retrofiting solution-sets included in a repository to become public in the coming months.

We are now again fully focused in delivering CommONEnergy's solution-sets, finalising their implementation and commissioning in the demo-cases.

Deep retrofiting measures are achievable and simulation results confirm they are also viable processes, in particular considering the nature of shopping centres, being constantly renovated to improve the customers' experience.

As final outlook from our investigation, by drastically reducing energy needs, shopping centres could play an important role in integrated urban scale energy system, becoming some kind of energy hubs in demand/response and RES-integrated smart grids.

Considering the high replication potential and exploitable co-benefits of shopping centres' energy retrofiting, we are happy to share the results with a broad community and hope you will find them useful.

We wish you a fruitful reading,

Roberto Lollini, EURAC, project coordinator.

Highlights



[Awards] Deadline extended to participate to the Sustainable Building Challenge, a competition for shopping centers: send your expressions of interest before end of November!

The [Sustainable Building Challenge](#) is the first competition for sustainable European retail buildings. Addressed to recently refurbished centres, it will award in September 2017 best practices, provide useful examples for future renovations and improve the sustainability of commercial buildings. The winner will receive the Shopping Centre Sustainability Award, which will stand as a "label" for the highest level of sustainability in European shopping centres. Submission of Expressions of Interest should be done by the end of November 2016. The full rules and the Expression of Interest are [available on the website](#).



Reopening of Modena and Grosseto

The Italian demo case of [Modena](#), where innovative solutions were installed (integrated solutions for HVAC and refrigeration, artificial and natural lighting, insulation, completed with an iBEMS management system), reopened mid-September. The supermarket's retrofitting was included in an overall neighbourhood requalification and allowed reducing energy demand and the operating costs, increasing comfort and creating new jobs. The other Italian case of [Grosseto](#), where the focus was put on electrical mobility and storage integration, opens this week. Two parking lots are dedicated to electrical-cars and a charger station. The installation uses: - Efficient new prototype batteries with a quick charging time (<1h for the total charge) and a modular assembly for volume applications; - Last generation charging-stations, fast type; - A control system to optimise the adjustment of the energy flows. The activity does not end with the implementation of the intervention: the operation will be monitored for one year and the data collected will be used for the development of this solution. Meanwhile, last touches are being put in Trondheim and Valladolid.

Tool



Economic assessment tool

An economic assessment tool is now available! It allows estimating the energy saving potential and economic benefits of retrofitting shopping centers. The tool targets managers and owners and allows entering relevant information about their centre. It provides quick information on the energy consumption and options to reduce energy demand, CO2-emissions, environmental impacts and provides an economic assessment of the investments. It can be applied for shopping centres located in the EU and Norway. Several retrofitting solutions show areas of improvement potential in the shopping centres, benefits and potential energy savings. However, the tool does not replace a detailed analysis of the building by an expert. A detailed analysis was assessed in [CommONEnergy](#) for several shopping centre buildings.

Going deeper

[Brochures and posters] CommONEnergy explained in short

Few new documents allow to dive into the project: two posters in Italian present the demo cases of [Modena](#) and [Grosseto](#), and another one, in English, the [Trondheim](#) demo case and the systemic retrofitting approach.

The project brochure was updated and is available in English, Italian, French, Spanish and German.

[Events] MAPIC 2016, the international retail property market

CommONEnergy will be at [MAPIC 2016](#), November 16-18 in Cannes. We will be located in the Trends Hub / Innovation forum, exhibiting amongst other innovative solutions and technologies raising the attractiveness and value of retail property, and of course improving sustainability. You will be able to test our tools and discover the latest project technologies.

Come meet us at our stand, located at [Hall -1, P-1.B 8-9](#). Our short conference will be on [Wednesday November 16](#), in the Innovation Forum, on the topic: Deep renovation of shopping centres to improve comfort, reduce costs and increase energy efficiency.

[In the news] CommONEnergy under the spotlight

The project, its results and methodologies are presented in a comprehensive 4-page article written for the EU energy innovation magazine (from page 48), presenting key figures of shopping centres and showcasing how to increase comfort and energy savings with the project solutions and technologies.

The research leading to these results has received funding from the European Community Seventh Framework Programme (FP7/2007-2013) under grant agreement n. 608678.

