

Going sustainable to rejuvenate the suburbs

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Peripheral areas often face poverty, crime, waste, pollution and decay. A new trend, however, considers suburbs the best places to develop green initiatives and energy efficiency interventions. Many peripheral areas are



becoming laboratories of innovation, hosting initiatives for a sustainable future. Now, a social housing building in Zaragoza, Spain, is piloting the regeneration of a suburb.

This new trend also inspired the theme of "Reporting From the Front," the ongoing Architecture Biennale of Venice 2016. It displays "the work of people that are looking for new fields of action, facing issues like segregation, peripheries, housing shortage, migration, crime, traffic, waste, pollution and participation of communities," said Alejandro Aravena, curator of the international exhibition and winner of the Pritzker Prize (the so-called Nobel Prize of architecture).

An example of this comes from Spain. The Oliver district in Zaragoza is thought of as an area affected by petty crime and drug traffic. It also has high levels of unemployment and illiteracy (15 percent and 30 percent, respectively).

Foreign-born people make up 13.5 percent of the population, which is slightly higher than the rest of the city (11 percent). Most of the residents are African or Romani.

Now, a social housing building is being used as a pilot for the regeneration of this suburb. The complex has been selected as one of the demo sites of the European project <u>BuildHeat</u>, which promotes <u>energy</u> <u>efficiency</u> interventions for urban regeneration.

The building contains 53 social rented dwellings. "The tenants [struggle] to afford the energy bills," explains Paloma Bozman, who works for the Municipal Company of Housing in Zaragoza, and is involved in the BuildHeat project. "It's a building that needs to be improved. Everything is electrical, including the heating system and domestic https://doi.org/10.1007/journal.org/

"Moreover, because of the lack of income to pay for electricity, the



inhabitants of this building resort to other alternatives. They use butane heaters, with all the risks that involves. Or they just deal with cold and hot temperatures," explains Bozman.

The building has not undergone any significant changes since it was erected in 1990. The dwellings are spread over five blocks, each with five floors, including a basement and the ground floor.

The renovation will include a photovoltaic façade and the installation of a heat pump on every balcony, to provide heating, cooling and hot water to each home. The pumps will be powered by solar energy. The insulation of the homes will also be improved. The building's performance will be monitored from the start of the project and for up to one year after the changes have been implemented.

One of the main challenges of this urban project is ensuring the engagement of all neighbours to gain their confidence. "They receive us well and all agree to cooperate. The main reason for this is that we present the project with the social worker," explains Bozman.

"They were quite surprised and interested in the innovative concept of [using] renewable energy and of course concerned about the economic impact that this action could have on their lives, as they have very limited resources," says Bozman.

Nearly 11 percent of the European Union population – an estimated 54 million people – are unable to adequately heat their homes at an affordable cost, according to a study by the European Commission. The scale of the problem is due to rising energy prices, low income and homes with poor energy efficiency, and it is particularly prevalent in Central Eastern and Southern Europe, the study says.

Architecture and technology has much to do on that. Implementing new



technologies is a key priority in order to increase energy efficiency and lower market prices.

Provided by Youris.com

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