

REZBUILD Project continues to develop advanced technologies for a more sustainable building sector in Europe

- The partners of the European initiative, focused on the development of an innovative renovation ecosystem for Near Zero Energy Building (NZEB), have gathered in the Italian city of Venice-Mestre to share the main progresses made since the project kicked off
- A participatory workshop was organized with the local communities of the demo site of Martellago with the aim of advancing the participatory and public acceptance processes, which are an essential part of the project.

Two years after the [REZBUILD Project](#), backed by Horizon2020 European programme, kicked off, the leading consortium of the initiative gathered in the Italian city of Venice-Mestre in order to analyse the main advances achieved by the partners in the development of advanced technologies aimed to create an innovative renovation ecosystem for Near Zero Energy Building (NZEB) in Europe, contributing to the reduction of emissions and the Energy Transition.

Between the 5th and 7th of November, the consortium members had the chance of exchanging knowledge, addressing the main challenges arisen within the initiative and discussing the next steps to pursue goals such as optimize the execution time of the construction works and boost rehabilitation processes using BIM technologies.

The meeting started with a welcome made by OVERDI, REZBUILD's Project coordinator. The firm was also in charge of introducing the agenda of the three day event.

After that different presentations were carried out in order to review the main achievements, opportunities and weaknesses detected in the different work packages that integrate the initiative (from WP7 to WP10).

Project management, replicability, impact assessment, exploitation, IPR, standardization, dissemination, communication, social assessment and ethics were some of the topics highlighted on the first session where, in addition of OVERDI, ZABALA and SINTEF partners shared with the rest of the experts present at the event their insights.

The first day concluded with a technical workshop focused on the tasks developed by work packages 1, 2, 3 and 5. In this section, state of the art technologies, KPI's calculations and BIM libraries were some of the main issues arisen.

The second day of the meeting started with the review of the WP4 led by VIAS. In addition, two different technical workshops addressing cost-effective technology packages, retrofitting plans, contracts and permissions were celebrated during the morning session. But the leading role of this second day was for the presentations regarding the three multiscale demo sites created for testing the developments and technologies of the REZBUILD project.

The consortium meeting was closed with a third and final day which included a presentation regarding WP6, a workshop focused on the definition of a profitability analysis and investment model and a panel of discussion where the different partners made their conclusions.

Among the conclusions obtained during these technical sessions partners agreed the perform based on a common baseline addressing KPIs for all demo sites. Once the detailed requirements have been processed per each demo site.

At the same time, an update energy simulation data base has been established with real data obtained from demo sites monitoring systems and innovative technologies developed.

The progresses made in the project have also allow to advance in the discussion about an overall decision making methodology focused on future exploitation of decision making tool considering the future deployment beyond project, that is foreseen has a great impact in the value chain of the building sector.

Additionally, in the last workshop the discussion was focused on the Agile Project Management tool feasibility considering both offline and online platform needs. Beta version will be tested previously in demos before refurbishment works start.

Meeting in the city council with the local communities

The second day of the meeting also included a visit to the Martellago demo site, which consists in a social building built in 1970 where REZBUILD partners will renovate 2/4 residential apartments.

The visit to Martellago testing zone also permitted to reinforce links with local communities through the celebration of a workshop that boosted interaction with the different agents involved in refurbishment and promoted the exchange of points of view.

In order to have all the stakeholder's views a participatory workshop was organized with the local communities that live in the neighborhood with the aim of advancing the participatory and public acceptance processes, which are an essential part of the project.

They showed their interest in improving energy efficiency and in their homes, where energy bills are very high due to the humidity problems they have at the moment.

The meeting took place at the Martellago City Council and was attended by the mayor of the town and the technicians of the local institutions.

The demo sites are residential buildings located in Madrid (Spain), Oslo (Norway) and Martellago (Italy) and have been chosen to cover 3 of the most usual residential building typologies in Europe and represent the most prevalent European climates (North-Continental, Central-Atlantic and South-Mediterranean).

The demo has no buildings surrounding it and a relevant amount of windows, making it a suitable site for demonstrating the efficiency of PV Glass. Insulation and HVAC systems performance for hot humid climate will also be demonstrated. Due to its use, lighting refurbishment will also be paramount. The goal of the refurbishment is the reduction of more than 60% in consumption and cost of energy, improving comfort.

The REZBUILD Project, that started in 2017 and will continue until September 2021, is driven by a consortium led by Officinae Verdi Group (Italy). The initiative is also integrated by Vias y Construcciones (Spain), CARTIF (Spain), ESTIA (France), Comunidad de Madrid (Spain), Saint-Gobain Placo Iberica (Spain), ONYX Solar (Spain), SINTEF (Norway), OBOS (Norway), University of Nottingham (United Kingdom), Rimond (Italy), and ZABALA Innovation Consulting.

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