

# Energy rehabilitation of the Fasa-Delicia district in Valladolid.



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| <b>Country</b>               | Spain   |
| <b>Sector</b>                | Building  |
| <b>Year</b>                  | 2017 – 2020   |
| <b>Narrative description</b> | <p>The energy rehabilitation project of the <i>Fasa</i> residential district, funded by Horizon2020, in the Delicias neighborhood of Valladolid, and it is part of the city's Land and Housing Plan 2017 - 2020. The collaboration between the municipality, communities of owners and tenants, and the European REMOURBAN innovation project was key to allow for this this action to be carried out. The chosen neighborhood was built between 60's and 70's to house the workers of a newly settled Fasa factory, currently Renault. The project can count on both local and European public funding, and private one.</p> <p>From 2017 until the end of 2019, 19 owner communities (398 housing), a fourteen-story tower and all common areas will be transformed with criteria of energy efficiency, sustainability and resource use. It is about ensuring the sustainability of the action, facilitating that the neighbors can self-supply and partially cover their energy needs with renewable sources that respect the environment.</p> <p>Among the actions are being developed are solutions for the improvement of the thermal insulation of the facades, the renovation of the existing heating network with a system from renewable sources (by means of biomass boilers, renovation of the distribution network, distribution devices and individualized control), the installation of photovoltaic facades and the renovation of common areas through the installation of LED systems.</p> |
| <b>Responsible authority</b> | Ayuntamiento de Valladolid – Agencia Energética Municipal de Valladolid   |
| <b>Relevant legal basis</b>  | -   |

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| <b>Policy Type</b>                           | Land and housing policy   |
| <b>Governance Level/<br/>Target audience</b> | Local / Fosa-Delicias District of Valladolid. Specifically, 19 communities of owners.   |
| <b>Objectives</b>                            | The objectives are to carry out extensive energy rehabilitation of buildings and to supply them energy from renewable sources. Through all these interventions, the energy efficiency of homes and their comfort conditions are increased.  |
| <b>Summary of reasons for success</b>        | This practice helps to cut down greenhouse gas emissions and improves the efficiency of delivering buildings. The demand for heating is estimated to decrease with 40% and a decrease of total energy demand is expected to be of 40-50%. According to the estimated values, the final energy savings will be 159,830 kWh/year and the proportion of renewable energy production of 27,800 kWh, with an installed capacity of 27,4 kWp. Thanks to the project, 954.36 tons of CO2/year are saved. From a social perspective, this rehabilitation project has exponentially improved the comfort of homes and the quality of life of its occupants. It has allowed a comprehensive urban renewal and an economic injection into a traditionally industrial neighborhood. The project includes direct participation of the neighbors as final beneficiaries of energy, and they participate actively in all phases of the project, being continuously present in the decision-making process and making suggestions for it. |
| <b>Replication potential</b>                 | There is a lot of information about the project, but not a full report. The monitoring and analysis of the results are expected during 2020. Only after that date will the potential for replication be clear. However, the preliminary results are very positive. Regarding the economic aspects, the model is considered to be perfectly replicable for both promoters and financial institutions, in long-term contracts (10-20 years) with economic savings that contribute directly to financing the intervention.   |
| <b>Relevant website</b>                      | <a href="http://es.remourban.eu/">http://es.remourban.eu/</a><br><a href="http://www.valladolidadelante.es/node/12354">http://www.valladolidadelante.es/node/12354</a>  |