

Do you want to know more about the OptEEemAL Platform and understand how it can help you find YOUR best retrofitting solution?

We offer trainings and consultations to show you how the OptEEemAL Platform works and how it can help you get the job done. The trainings are organised in cooperation with our demo site partners in Lund, San Sebastián and Trento and will present the OptEEemAL project and its benefits to all stakeholders and potential users.

You will be guided through the IPD implementation and trained on how to collect your input data, use the platform and make YOUR district retrofitting project work.

For more information on our OptEEemAL Energy Efficiency and Technical Trainings, please contact our Coordinator or Communication and Dissemination Secretariat.



THE SOLUTION FOR DESIGNING YOUR ENERGY EFFICIENT DISTRICT RETROFITTING PROJECT!

Be part of the official OptEEemAL Trainings!


For dates and registration details, please check our website:

 www.opteemal-project.eu

OPTIMISED ENERGY EFFICIENT DESIGN
PLATFORM FOR REFURBISHMENT
AT DISTRICT LEVEL

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 OptEEemAL project



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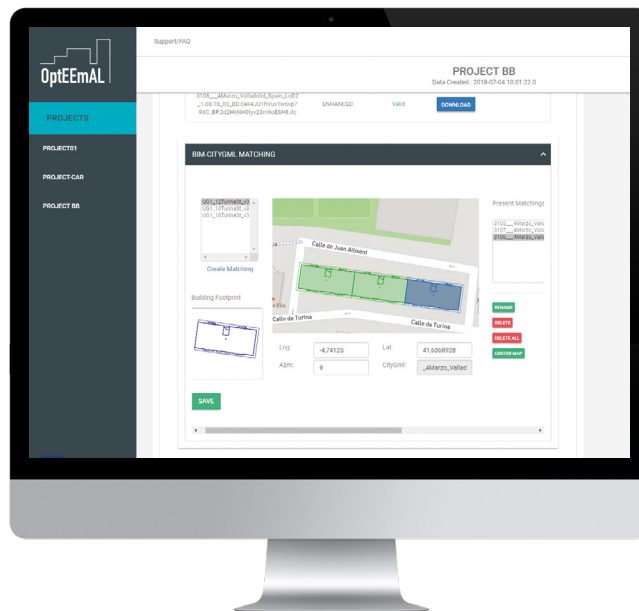
OptEEmAL explained: an integrated solution to design your energy efficient district retrofitting project

OptEEmAL is a project funded under the European Union's Horizon 2020 research and innovation programme, which is developing an **Optimised Energy Efficient Design Platform** that reduces uncertainties and allows for automatic and accurate calculation of the best possible scenarios for district retrofitting projects.

Our main objective is being achieved through a mix of development and testing activities, including:

- Developing a **holistic and automated services platform**, integrating interoperable modules and tools for diagnosis and generating optimised district energy retrofitting scenarios according to user preferences.
- Reinforcing the **commitment of all involved stakeholders** through an Integrated Project Delivery approach allowing them to articulate their needs through a collaborative and value-based process.
- Creating an integrated ontology-based **District Data Model** containing key information on energy, comfort, environment, economic, social well-being and urban morphology.
- Cataloguing **Energy Conservation Measures** including technical, operational, maintenance and cost information providing valuable and consistent outputs for design, district operation and maintenance stages.
- Developing a **bio-inspired optimisation module** based on evolutionary computing that automates the decision-making process for an optimal energy efficient retrofitting plan at district level.
- **Externally connecting the OptEEmAL Platform** to relevant entities (i.e. existing BIM and CityGML tools) enabling the calculation of indicators to generate and optimise the retrofitting scenarios.
- Strategic **dissemination, training, exploitation and market deployment** of the project's developments and results.

Our Impact



The **OptEEmAL Platform** will provide stakeholders with an optimised, integrated and systemic design for their retrofitting projects of buildings and entire districts. This leads to the following impacts:

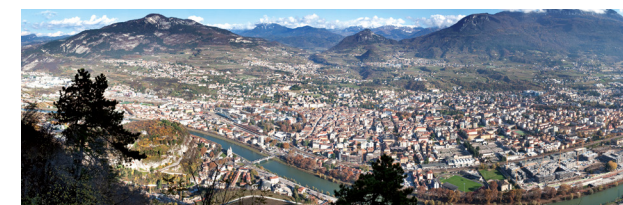
- **High economic impact** through the reduction of costs by 19% during the design phase compared to business-as-usual. Promotion of holistic solutions reduces costs of the operational phase by 25% and leads to a higher return on investment.
- **Greater market competitiveness** through the utilisation of energy efficient solutions in a holistic integration and the improvement of the contractual processes.
- **Boost of the European construction sector** through the creation of new jobs and strengthening SMEs in the sector.
- **Promotion of social impacts** by involving the inhabitants in the decision-making process. This ensures that their expectations are met and increases user acceptance of the activities carried out, ultimately leading to an improvement of social well-being.
- **Dissemination of new knowledge at professional level** through specific information channels and trainings targeting relevant stakeholders and user groups.

Our Demo Sites: See which cities are already using the OptEEmAL Platform to implement retrofitting projects at district level!



San Sebastián, ES – Smart City Expert

Fomento San Sebastián is the municipal company dedicated to the economic and social development and promotion of the city. As coordinator of smart activities, it is currently implementing different projects in energy efficiency, sustainable mobility and ICT for the transition to a smart city.



Trento, IT – Leadership in Energy and Environmental Design

This culturally rich district is creating innovative marketing infrastructures through the development of sustainable projects by supporting innovation and the development of specialised production chains in the field of sustainable buildings, renewable energy sources and intelligent territorial management technology.



Lund, SE – Integrated Urban Solutions

With a 100% fossil-fuel free district heating network which supplies almost 90% of the heat demand for buildings in the city, Lund promotes citizen participation and resident involvement to select the best choice of energy efficient living and respective measures to holistically improve the urban environment.