

Europe-wide replication of best renovation practices

The demonstration of cost-efficient and replicable renovation models lies at the heart of the European Innovation Partnership for Smart Cities and Communities. **EUGUGLE** – with its six pilot cities – is able to provide a wide pool of experiences, to be disseminated through **'My Smart City District'** campaign Europe-wide. The campaign will maximise the replication potential of the developed renovation models and foster knowledge transfers amongst smart cities.

Sharing EUGUGLE's expertise

The EUGUGLE **'My Smart City District'** campaign is an integral and essential part of the project, as it is the main channel through which the cumulated experiences of six pilot cities can be shared with others. In practice, EU-GUGLE will organise trainings, workshops, study tours and dissemination events allowing stakeholders from other districts and cities to learn about the renovation strategies implemented in the project. An online helpdesk is also available for stakeholders willing to learn more about any aspect of the project, at any time of the project.

'My Smart City District' campaign is an open and continuous process that runs in parallel to the renovation works. This approach allows constant knowledge transfers between EUGUGLE pilot cities and other districts and cities interested in sustainable renovation throughout Europe. Input from other cities or other smart cities initiatives will be crucial to the development of 'smart renovation strategies' with high replication potential. The associated cities of Gaziantep (TR) and Gothenburg (SE) will pave the way by testing the solutions of the other partners into their own renovation strategies.

Building a European replication cluster

In order to allow others to follow in its footsteps and to structure knowledge transfers, **'My Smart City District'** campaign acts as a network of cities that have expressed interest in the results of the project. These cities have committed to study the technical and economic feasibility reports and integrate findings into their own master plans, which they can submit to others for review in turn. This network is intended to grow overtime, hence accelerating the deployment of integrated district-scale solutions for sustainable renovation.

'My Smart City District' Campaign

'My Smart City District' campaign brings together municipalities interested in using EUGUGLE as a source of inspiration for the design of their own renovation strategies. Participating cities are kept informed of the progress achieved in the project and have an opportunity to take part in knowledge sharing activities with EUGUGLE pilot cities.

Join the campaign!

Find out more at www.eu-gugle.eu

Consortium



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EU-GUGLE stands for "European cities serving as Green Urban Gate towards Leadership in sustainable Energy" and is funded under the 7th Framework Programme for Research and Technological Innovation. It is co-ordinated by CENER, Spain's National Centre for Renewable Energies.



Sustainable renovation models for smarter cities

Demonstrating cost-efficient integrated renovation for districts

www.eu-gugle.eu

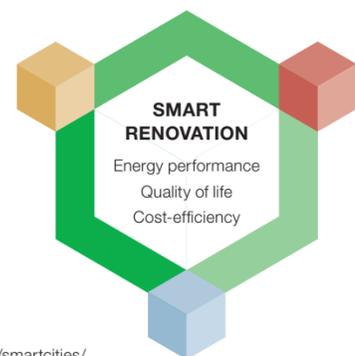


Smart renovation for energy efficient cities

Cities are responsible for 70% of Europe's energy consumption, with buildings being responsible for 40% of the total. In this context, reducing the energy consumption of buildings is essential if Europe is to meet its energy targets for 2020. Whilst being crucial to the sustainability of European cities, building renovation is a complicated process involving several technical, financial and social constraints. It is for this reason that integrated strategies are needed.

In order to address this challenge the EU has launched the European Innovation Partnership for Smart Cities and Communities, which aims to promote best practices and accelerate the market deployment of cost-efficient solutions for sustainable renovation.¹ In this framework, the EUGUGLE project aims to demonstrate the feasibility of nearly-zero energy building renovation models in view of triggering large-scale, Europe-wide replication in smart cities and communities by 2020. Over the 5 years of the projects, the cities of Vienna (AT), Aachen (DE), Milan (IT), Sestao (ES), Tampere (FI) and Bratislava (SK) will work together to share latest research results relevant to smart renovation of groups of buildings at district level, and use this knowledge to renovate 226,000m² of living space. By implementing a balanced mix of technical, socio-economic and financial solutions that are adapted to local needs, the participating cities aim to achieve 40-80% primary energy savings per pilot district, whilst increasing their share of renewable energy sources by 25%. Gothenburg (SE) and Gaziantep (TR) will take part in the 5-year project as associated cities and will be expected to start smart renovation activities during the project's lifetime.

EUGUGLE stands for "EUropean Cities serving as Green Urban Gate towards Leadership in Sustainable Energy". It is one of the first and most ambitious projects within the European Innovation Partnership for Smart Cities and Communities. The project adopts an integrated approach to renovation that not only includes the implementation of energy efficient technologies, but also emphasises cost-efficiency and interactions between all involved players. The objective is to cover all aspects of the process, such as best practices in urban planning, innovative financing schemes, and public awareness actions. More than a technological showcase, the main output will be the integration of the results into comprehensive 'smart renovation strategies' that will be easily transposable to other municipalities.



¹ <http://ec.europa.eu/eip/smartcities/>



SE GOTHENBURG

As an **associated city**, Gothenburg will closely follow the progress made in the EUGUGLE pilot cities and design a strategy for adapting those solutions to its **district of Hammarkullen**, a suburban area of public-owned buildings from the 60s and 70s.

Renovating 226,000 m² of living space

% Primary energy savings target

FI TAMPERE



District: Tammela
Surface to be renovated: 30,000m²
Type of buildings: Apartment blocks mainly from the 70s, largely owned by private households.
Primary energy savings target: up to 50%

AT VIENNA



District: Penzing
Surface to be renovated: 52,500m²
Type of buildings: Residential buildings from the 50s and 70s, including social housing.
Primary energy savings target: up to 61%

SK BRATISLAVA



District: Petržalka
Surface to be renovated: ≈ 43,000m²
Type of buildings: Apartment blocks from the 70s, largely owned by private households.
Primary energy savings target: up to 47%

TR GAZIANTEP

Taking part in the project as an **associated city**, Gaziantep intends to build on the experiences cumulated in EUGUGLE to reduce its own CO₂ emissions and energy consumption by 20% by 2023, in line with its recently adopted **Climate Change Action Plan**.

DE AACHEN

District: Aachen-North
Surface to be renovated: ≈ 41,000 m²
Type of buildings: Both recent (70s) and historical buildings (20s-30s), including social housing and private houses.
Primary energy savings target: up to 65%



IT MILAN

District: Zona 4
Surface to be renovated: ≈ 35,000m²
Type of buildings: Apartment blocks from the 70s owned by a semi-public social housing company, and a public school.
Primary energy savings target: up to 82%



ES SESTAO

District: ARI Txabarri/EI Sol
Surface to be renovated: ≈ 24,500m²
Type of buildings: Public and private buildings from the 20s in post-industrial areas.
Primary energy savings target: up to 56%

