



An European urban transition project towards more sustainable cities through innovative solutions, in the fields of mobility, energy and digital.

Smart City

Global project

Coordination: Cartif
European grant: 18 M€
30 partners, 6 countries
Period: Dec.2016 - Nov.2021
Demonstrators: Nantes, Hamburg, Helsinki

@mysmartlife_EU
<https://mysmartlife.eu/>

Nantes demonstrator site

Coordination: Nantes Métropole
European grant: 4,5 M€
10 partners

Coordinator:
benoit.cuvelier@nantesmetropole.fr

metropole.nantes.fr/mysmartlife

Energy



Action leader
ENGIE

Contact
natacha.javalet@engie.com

ACTION OVERVIEW



Retrofitting of individual houses

This action has been implemented by ENGIE in November 2019. A deliverable (D2.4) has been written and described in detail this action. The deliverable is available at: <https://mysmartlife.eu/publications-media/public-deliverables/>

► OBJECTIVES

- › To contribute to the widespread implementation of energy renovations
- › To decrease the energy consumptions and the greenhouse gas emissions of the renovated houses
- › To evaluate the impact of the retrofitting works on the energy efficiency of the targeted houses

► IMPLEMENTATION



CHALLENGES

In light of the climate challenges, energy management and the development of RES are becoming two important levers for reducing greenhouse gas emissions, and notably in the residential field.

A number of dwellings, particularly in individual houses, still leaks a lot of energy. Indeed, the investment costs for energy renovation works are sometimes very high. Thus, it is necessary to support owners of individual houses in their energy renovation project, in particular, to enable them to go further in their approach and to achieve the maximum possible energy savings.

SOLUTION

Engie proposed in this action a complete support for the voluntary owners, from the energy audit until the end of the works, the objective being to allow a renovation integrating at the same time "traditional" works (insulation, replacement of windows, replacement of the boiler...) but also renewable energies with the installation of hybrid solar panels.

The complete offer included an energy audit, support with administrative procedures, planning, and execution of the work. The project was made viable thanks to a grant from the mySMARTLife project, and any other financial support that the owner could benefit from. In the end, one owner committed to an ambitious energy renovation program, including hybrid solar panels, and 32 others chose more partial work.

MONITORING

The energy consumption of the renovated houses will be analysed by Engie, using the invoices, to determine the impact and energy savings of the works.

The main performance indicators (KPIs) are energy consumption for both heating and domestic hot water production, the electricity consumption of the housing, and the energy production of the hybrid solar panels.

These indicators will be aggregated with those of all the actions of the Nantes-based mySMARTLife demonstrator in order to give a consolidated result of the overall impact of the project.

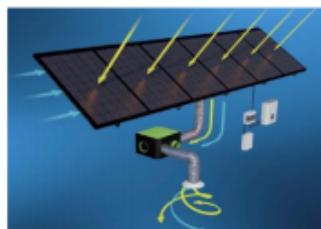
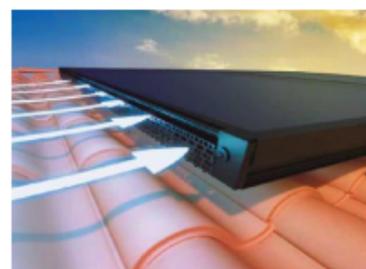
► BENEFITS

Environmental

- › Increase in the number of high energy performance renovations in the territory
- › Lower energy consumptions on Nantes Metropole area
- › Decrease in greenhouse gas emissions

Users and inhabitants

- › Gain in thermal comfort
- › Lower energy bills
- › Valuation of the renovated houses



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2 cours du Champ-de-Mars
Nantes 44 923 CEDEX 09
Tél. : 02 40 99 48 48

metropole.nantes.fr