

Key figures

Location: Middelkerke (Belgium).

Size: 8.68 kWp solar PV and 6 kWh battery.

Annual energy production: 8,000 kWh.

Energy use – building next door and maybe charging points, public lighting or other possibilities.

Technology: 28 PV-panels, 2 converters and 2 batteries.

Attention points

- In March 2021, the installation started to be monitored in order to measure its effectiveness, in close collaboration with KU Leuven.
- It is not easy in Flanders to get permission from The Real Estate Heritage authority to realize something on historically important buildings. The solar panels were eventually placed on an adjacent roof that is not visible from the street. The site is protected as heritage and “protected village view”.
- A charging station for cars in a residential area has little added value. People can charge in their own driveway and will not use the public charging station.

Contact

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Useful links

www.middelkerke.be/solarise

Interreg

2 Seas Mers Zeeën

SOLARISE

European Regional Development Fund



Middelkerke - Pilot on Heritage building



Low-Carbon
technologies



www.interregsolarise.eu

TOTAL PROJECT
BUDGET:

4,18 M €

INCLUDING AN
ERDF BUDGET OF:

2,51 M €



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Description

28 PV panels on the shed of the 'Groenhage' heritage mill in Leffinge (Middelkerke) produce enough renewable energy to cover the needs of the site itself. The miller's house was renovated and became a community centre for small social and/or cultural events and gatherings. This centre can now use the sustainable energy from the adjacent stable.

If not all the renewable energy produced is consumed, it can be used for charging points for electric vehicles or bicycles or even street lighting. For the latter, the municipality is in negotiations with Fluvius, the electric distribution system organisation, who is also responsible for public lighting.

An initial monitoring report shows that connecting public lighting is not going to be easy. The project is too small-scale for this and the costs of opening the street's pavement do not outweigh the potential benefit. Providing a charging station is possible, but then only one third of the charging station will work on renewable energy.

The municipality of Middelkerke is now looking at the option to start up a system with battery charging. With this, the municipality wishes to provide the lifeguard station with electricity in the summer and to provide the public broadcasting system with power. The public broadcasting system or lifeguard stations are no longer feasible within the time period of the solarise project.

Budget

€ 70,000 of total partner budget € 179,000..

Goal

Use solar energy on a historic site.

