

## Key figures

**Location:** Halle Zoersel, Belgium.

**Heat pump:** 2 units of 17.4 kW each.

Thermal solar collectors

- 20 panels SLK-F 3.0 x 1.0

- 5 panels: absorption surface: 53 m<sup>2</sup>.

**Ice buffer vessels:** capacity 6 x 10,000 L.

**Buffer tank hot water:** 750 L.

## Attention points

- (sub) Contractors are clearly not familiar with new / more specialized techniques, so a good cooperation with the supplier is necessary.
- There are not (yet) many suppliers of these techniques (like an ice buffer system coupled with a heat pump). This lack of competition has an influence on the price.
- The solar collectors are a standard product, so limited adjusting options are available. Panels also have a large delivery time.
- Ice buffer vessels take up more surface area than originally thought.

- The works started in July 2021 and 12 months of works are foreseen.

At the moment the provisional delivery is foreseen in September 2022. So there will be still some time for monitoring the installation (project Solarise finishes in March 2023).

## Contact

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## Useful links

<https://www.zoersel.be/wonen-en-omgeving/werken/bouwprojecten/bouwprojecten-uitvoering/nieuwe-dorpszaal-halle>

# Interreg

## 2 Seas Mers Zeeën

### SOLARISE

European Regional Development Fund



## Zoersel - Solar heat on a historic building



Low-Carbon  
technologies



[www.interregsolarise.eu](http://www.interregsolarise.eu)

TOTAL PROJECT  
BUDGET:

4,18 M €

INCLUDING AN  
ERDF BUDGET OF:

2,51 M €



**Interreg**   
2 Seas Mers Zeeën  
**SOLARISE**  
European Regional Development Fund



## Budget

€ 256,000 (excluding costs for building renovation and new hall) of total partner budget € 443,000.

## Goal

The municipality of Zoersel is building a new village hall in one of its suburbs. This new village hall borders a historic public building: 'The Pastorium'. Due to the integration of this historic building into the construction of the new village hall and the simultaneous renovation of this historic building, Zoersel wants to create a sustainable complex, by combining a heat pump with an ice buffer, solar collectors and solar roof tiles.

## Description

The intention of Zoersel is to reduce energy consumption/CO<sub>2</sub> -emissions from this historic building. Today however, with the techniques currently available, it is not easy to collect solar power on a historically valuable building without visual impact, affecting its heritage value. Together with the other partners and extra funds Zoersel hopes to complete this project by using innovative solar thermic roof tiles, to be a source of inspiration for other municipalities (cross-border) and to contribute to the further development of solar energy use.

The pastorium will be equipped with solar roof tiles, to collect solar heat. The solar collectors on the new village hall also collect solar heat. The combination of both solar collectors and an ice water buffer system will serve as source for a water-to-water heat pump. The control system of the heat pump will automatically choose the optimum source for hot water production to supply low temperature heat release.

