

Key figures

Location: Middelburg.

Size: 23 kWp.

Annual energy production: System total peak power of 23,460 watt. With this installation we have an production of approximus 21,000 kWp.

Energy use: On site within the concerthal, practice rooms, foyer and artist foyer.

Technology: 68 PV panels type Jinko solar 345 Wp 28 cells (All Black).

Battery: Alpha ESS model T 30 energy storage system. The battery provides 35 kW energy.

Attention points

- It is important to seek collaboration at an early stage with experts in the field of old building structures and energy calculations so that an estimate can be made of costs, benefits and payback times and the extra comfort you gain.
- Take into account in an early stage in the process the consequences for example for (fire) safety and insurance issues.
- Application of PV at important locations in the historic city center serve as an example for other organizations and private owners.

- Tip. Check in an early stage whether a combination of techniques is possible.

Contact

City of Middelburg, The Netherlands

Ronald de Bruijn

r.de.bruijn@middelburg.nl

Niels Hazenoot

n.hazenoot@middelburg.nl

Useful links

www.middelburg.nl/solarise

Interreg



EUROPEAN UNION

2 Seas Mers Zeeën

SOLARISE

European Regional Development Fund



Middelburg - Solar on historic buildings: Zeeland Concert Hall



www.interregsolarise.eu



TOTAL PROJECT BUDGET:

4,18 M €

INCLUDING AN ERDF BUDGET OF:

2,51 M €



Interreg
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SOLARISE
European Regional Development Fund





Budget

€ 93,000 of total partner budget € 599,000.

Goal

The City of Middelburg aims to be energy-neutral by 2050. This goal can be achieved by saving energy and by generating energy from sustainable sources such as solar energy.

The use of roofs for the utilisation of solar energy has the highest priority in historic Middelburg. Despite all efforts, it is difficult to use enough roofs. This is due to the large number of monumental buildings in the town centre and the protected townscape, which is subject to strict regulations.

Description

The Zeeland Concert Hall in Middelburg is housed in an old 18th-century warehouse and has been a very important link in Zeeland's musical life for over a century. Numerous concerts and other activities are organised there.

Over the years, the building has not only served as a concert hall, but during the First World War it was used as a reception centre for Belgian refugees. Later, it even served as a shelter for military personnel and as a warehouse.

68 solar panels are installed on the roof of Zeeland Concert Hall. Energy is mainly used in the evening hours and in the autumn and winter season when the sun is not shining. A battery for storage is provided here and the monitoring takes place in close cooperation with KU Leuven technology campus in Ghent.

