





PRIORITY AXIS

Low Carbon Technologies



SOLARISE aims to raise solar awareness and to reduce carbon footprint in the 2 Seas Region.

SOLARISE will potentially provide 184.000 tCO2 reduction over 25 years.



SOLARISE Consortium

12 partenaires - 14 observers

Project budget
4 302 023
ERDF amount
2 581 214

ERDF rate 60%

Start date: **08/02/2018** End date: **30/06/2021**





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Lead partner

KU Leuven – Technology campus Gent

Kamp C

Flux 50

Municipality Zoersel

Fourmies City

City of Heerhugowaard

Brighton & Hove City Council

Enercoop Nord-Pas de Calais
- Picardie

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City of Middelkerke

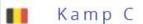
Municipality Middelburg



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City of Heerhugowaard





Brighton & Hove City Council









City of Middelkerke

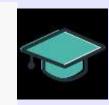




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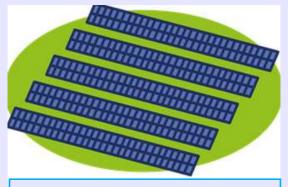


SOLARISE

Main outputs

- Toolkit: Guide package on legislation, market and Innovative technologies
- Feasibility of Potential solar projects (schools, buildings, houses, cinema, swimming pool, solar farm, heritage mill, commercial centre...)
- Solar installations in
 - historical/heritage buildings
 - public infrastructure
 - housing sites.
 - Living Labs
- Campaign for solar power adoption
- Roadmap for Solar power





Near, city- connected Solar farm





Multiple, connected houses



Terranend grant

Enyl-Virgi Acastan (EW)

Pagis performance units

Asserting performance units

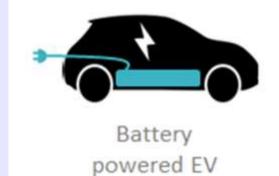
Asserting Terrane Connector

Advantum Therring Connector

Advantum eth ST-56

New panels Electricity & Heat





Pr Ahmed RACHID – LTI- UPJV

BIPV: Building-integrated photovoltaics







Roof Top Type

Balcony Type Curtain Wall Type Sunshade Type Wall Type



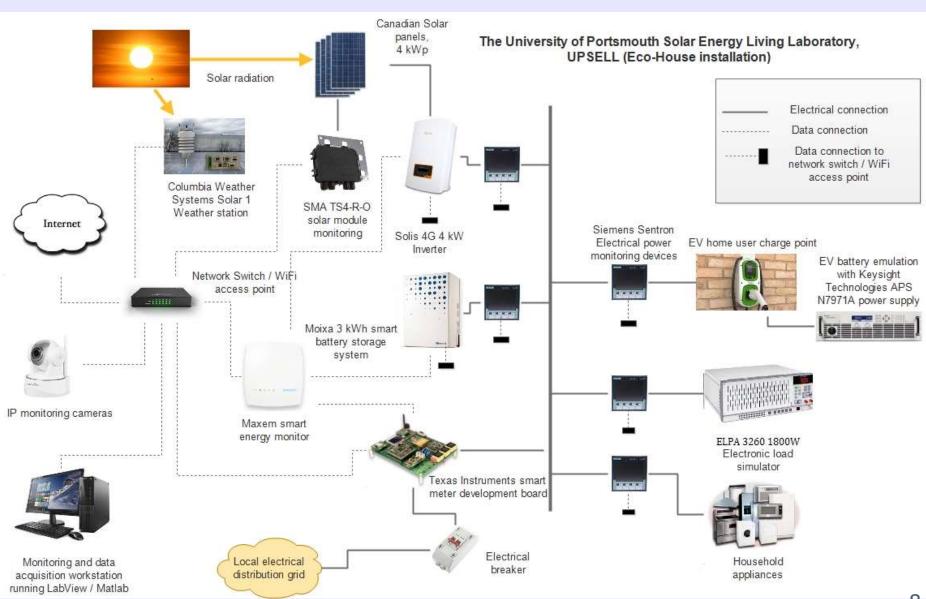


ECO House



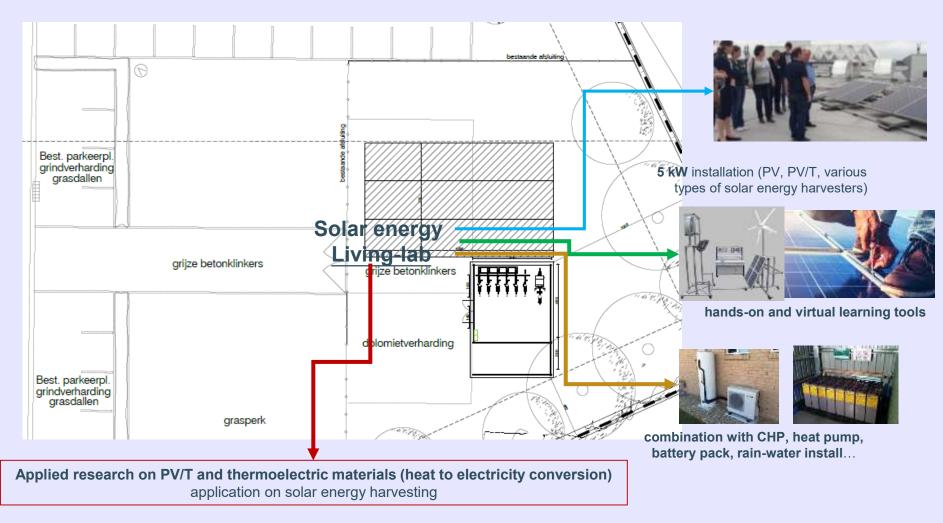


Schematic diagram of UoP (Eco-House installation)





Solar energy - Living Lab' at TC Ghent







Metallic contruction/structure - Living Lab



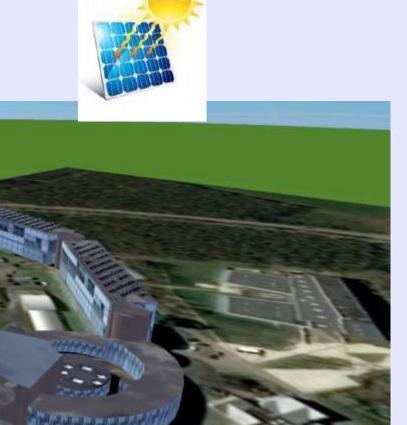


- Solar panels: PV, PV/T; BIPV, CPVT, ...
- Power converters: DC-DC and DC-AC converters with MPPT trackers (+ controller)
- Battery pack (batteries)

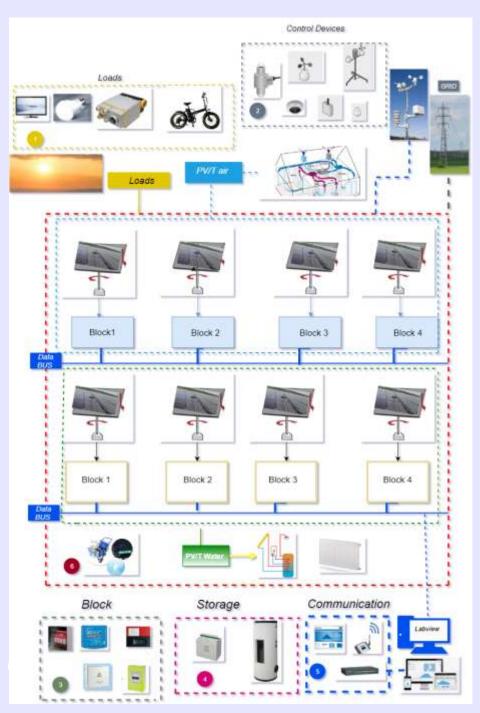
- Battery pack (batteries)
- Hydraulic components: water pump + directional valves (+ controller)
- Sensors
- Home appliances as end-users



Université de Picardie Jules Verne



111 kWp - 122 062 kWh/year









SOLAR ELECTRIC PENDULUM

THE ELECTRIC PENDULUM TRICYCLE is part of a global research project on innovative solutions for urban electric mobility developed at the Laboratory of Innovative Technologies, University of Picardie Jules Verne in Amiens (France). The pendulum device allows overcoming centrifugal forces and a safe higher speed in curves.

Current version



SOLAR PART

Within the SOLARISE project, a mobile photovoltaic solar station prototype with removable structures was designed. It includes 4 flexible solar panels. The structure is retractable by circular translation of solar panels and can be mounted in a modular way on the electric tricycle.

TECHNICAL FEATURES

(CAN BE ADAPTED)

- MOTOR Brushless DC motor, 48V 800W.
- BATTERY LIMON 13515P 48V × 30 Ah
- MAXIMUM SPEED 45 Km/h
- · WEIGHT (WITHOUT DRIVER) SE Kg
- DIMENSIONS (M) 1.68 * 0.72 * 1.57
- SOLAR PART 4 × 65Wp, 560mm x 740 mm

RANGE MEAN VALUE

CAN BE ADAPTED

- WITHOUT SOLAR PANELS 30 km
- WITH BOLAS PANELS 60 km









ENERCOOP

BRIGHTON ENERGY COOPERATIVE Community-Owned Solar for Brighton and Hove Schools

MIDDELKERKE

FOURMIES

LOUIS ARAGON **RUE BOURET A FOURMIES**







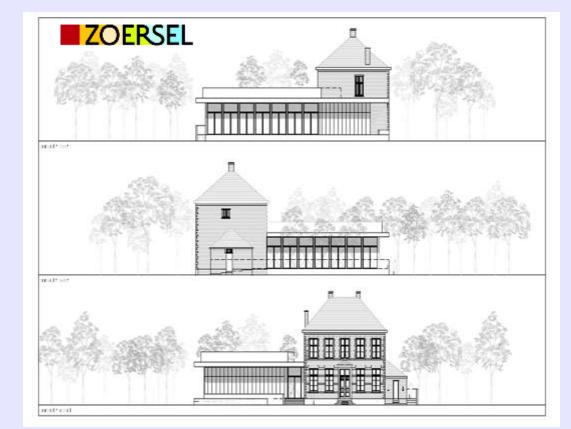
Stad van de Zon (2001-2008)

- +3,000 homes.
- 25,000 PV panels.
- 3.75 MW, reduction CO2 vs. normal: 2,500 tonnes p/yr.
- 3 wind turbines (2,3 MW).



HEERHUGOWAARD







MIDDELBURG





Thank you for your attention