

RE/SOURCED

Renewable Energy Solutions for URban communities based on Circular Economy policies and Dc backbones



This project is made possible by the European Fund for Regional Development through the Urban Innovative Actions programme.

In late 2019, Urban Innovative Actions (UIA) launched its fifth and last project call. From all over Europe, a staggering 222 applications came in. A mere 11 would be selected, the RE/SOURCED project being one of them. UIA finances ambitious, innovative and unconventional ideas that can be tested in a real urban environment.

RE/SOURCED stands for Renewable Energy SOLUTIONS for URban communities based on Circular Economy policies and Dc backbones. The project is being realised at the listed Transfo site in Zvevegem (BEL) at the intersection of three topical themes: renewable energy, circular economy and heritage reconversion.

PROJECT RUN-TIME	01/07/2020 – 30/06/2023
BUDGET	
TOTAL BUDGET	€ 4,998,044
SUBSIDIES	
ERDF	€ 3,998,436
Flemish FIO fund	€ 250,000
Flemish PIO programme	€ 175,000



Transfo Location

A brief history



Transfo is a former power plant dating back to 1912. For 20 years, the 25-acre site has been listed as a monument. Three structural partners – the Zvevegem council, the province of West Flanders and intermunicipal organisation Leiedal – are working together to give Transfo the future it deserves: a reconversion of industrial heritage with a regional, national and indeed international appeal. Transfo, meanwhile, has developed into a multifunctional site boasting (social) housing, offices, a craft brewery, leisure and sports facilities and space for events. In short: the ideal setting for an energising project.

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More at

www.leiedal.be/resourced
www.transfozvevegem.be

Smart grid

Renewable

The ambition of RE/SOURCED is to fully supply Transfo with locally produced renewable energy. The backbone of the future energy system is a local DC power grid, providing a

reduction in both energy and use of materials. The DC grid couples a number of renewable sources (solar panels and a medium-sized wind turbine) to energy storage (battery and hydro-pumped).

Circular

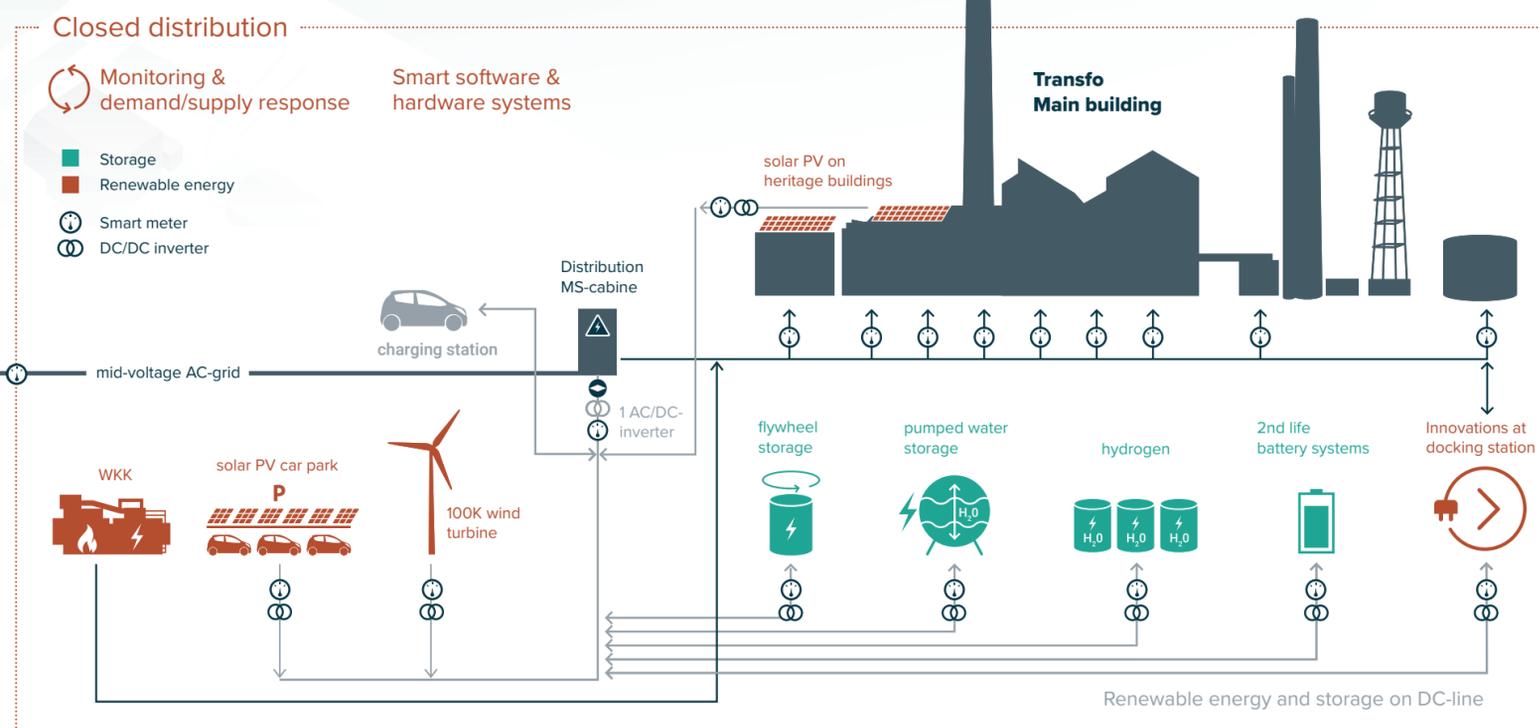
Solar panels and batteries contain precious materials. That's why RE/SOURCED introduces circular economy aspects in the renewable energy system's design, such as shared use, retrofitting and more efficient use of materials. As renewable energy systems, storage systems

and smart grids take off, the demand for raw materials increases. It is therefore an added challenge to make investments in renewable energy more sustainable, based on the principles of the circular economy.

Educational

Since a circular energy system as such does not yet exist in Flanders or even in Europe, it is the aim of RE/SOURCED to share all insights and knowledge gained from the project as much as possible. Amongst other things, a unique

testing and demonstration site for businesses and universities will be built. Simultaneously, RE/SOURCED will try to involve citizens more actively in the energy transition, a.o. by way of an on-site educational experience trail.



Information fair at Transfo, October 2021

Cooperative

Using the circular and self-sustaining energy system, RE/SOURCED wants to supply residents and site users with as much renewable energy as possible, by means of local production and storage. Producing power for the wider area, as the plant used to do,

should again be possible for the site itself, this time, however, drawing from renewable sources. In order to share this locally generated power on site, an energy community with residents and users will be formed, which in time will take ownership of the installations.

Objectives

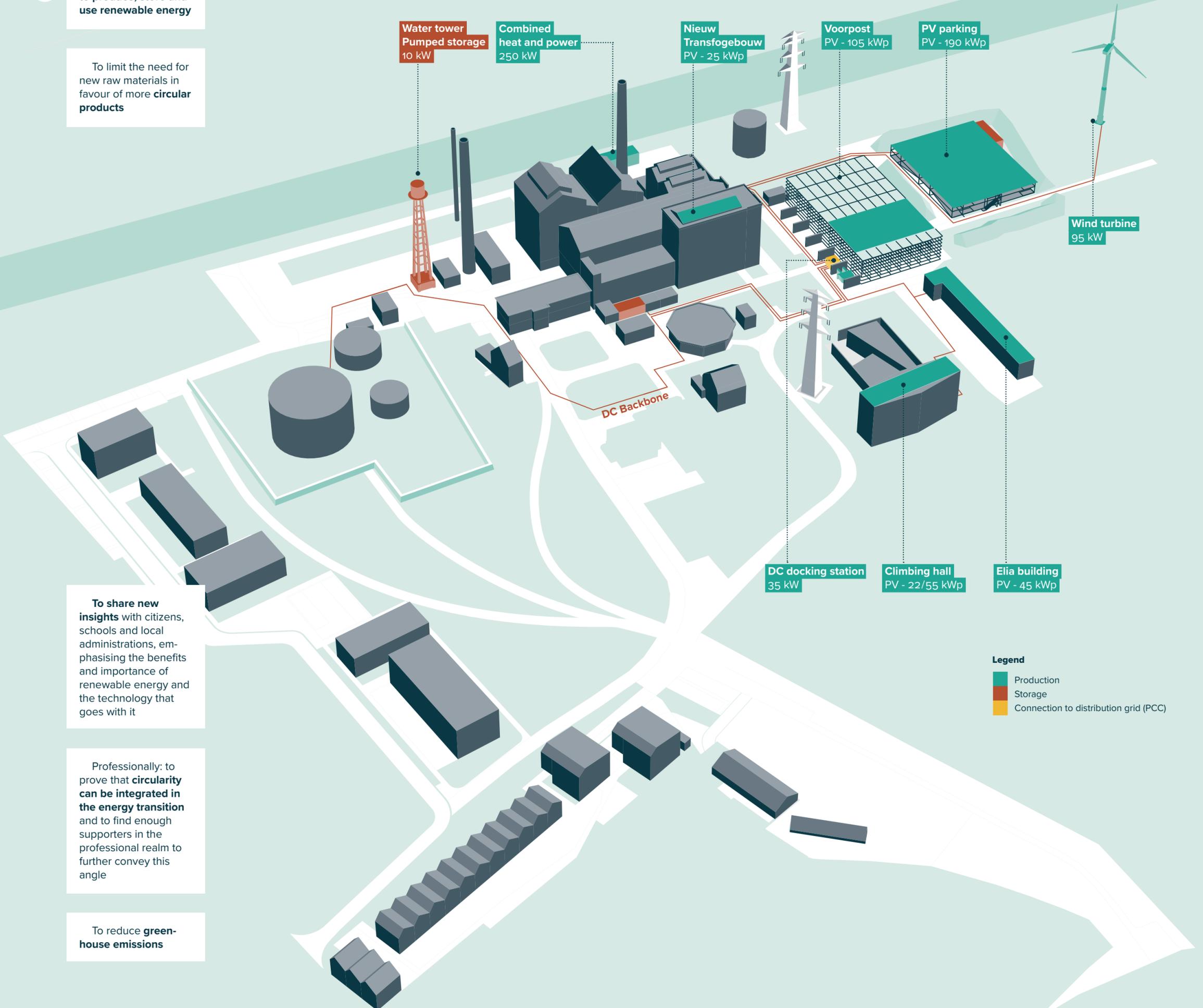
To increase the **renewable energy share** by looking for solutions and embedding them in an urban context

To look for local and decentralised ways to **produce, store and use renewable energy**

To limit the need for new raw materials in favour of more **circular products**

Renewable energy production and storage at Transfo

Energy hub of the future



To share new **insights** with citizens, schools and local administrations, emphasising the benefits and importance of renewable energy and the technology that goes with it

Professionally: to prove that **circularity can be integrated in the energy transition** and to find enough supporters in the professional realm to further convey this angle

To reduce **greenhouse emissions**