

Aeres College Almere

.. an example of a living building

World Green Infrastructure Congress
28 juni 2023
Berlin

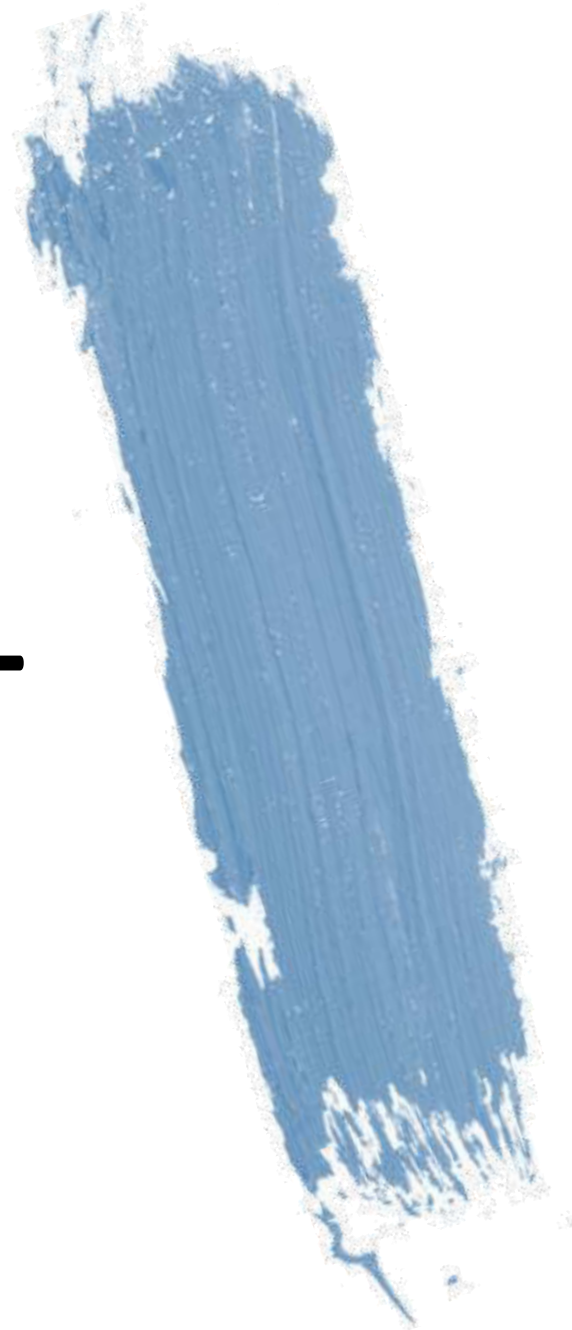




=



+





Spain, spring 2023

delivery of drinking water by truck..



<https://www.hatenboer-neptunus.nl>

1 week later

130 liter / m2 rainfall..



twitter / <https://www.spanjevandaag.com>

BUSINESS TECH NATURE INNOVATION DROUGHT WEATHER » MORE TAGS

MONDAY, 26 SEPTEMBER 2022 - 08:43

SHARE THIS:



Looming drinking water shortage a threat to the Netherlands, suppliers say

Water companies in the Netherlands said that a combination of drought, pollution, and the growing population is a threat to the supply of clean, potable water in the country, they said in a letter. A shortage of drinking water could be just a few years away, the companies said [according to NRC](#).

Shortage of drinking water imminent, Dutch water companies warn



2 minute read · August 3, 2022 3:40 PM GMT+2 · Last Updated 3 months ago

Dutch government declares water shortage due to drought

by [Victoria Séveno](#)

by 10 major [Dutch water companies](#) has warned that much of the an imminent shortage of drinking water, largely due to population growth, ight.

NATURE IRRIGATION IRRIGATION BAN DROUGHT RIJKSWATERSTAAT WATER BOARD

» MORE TAGS

MONDAY, 9 MAY 2022 - 15:30

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More measures taken as Netherlands' spring drought continues



**Green solutions
for now and later**



Garden & landscape design



**Green solutions
for now and later**

Project Advisor

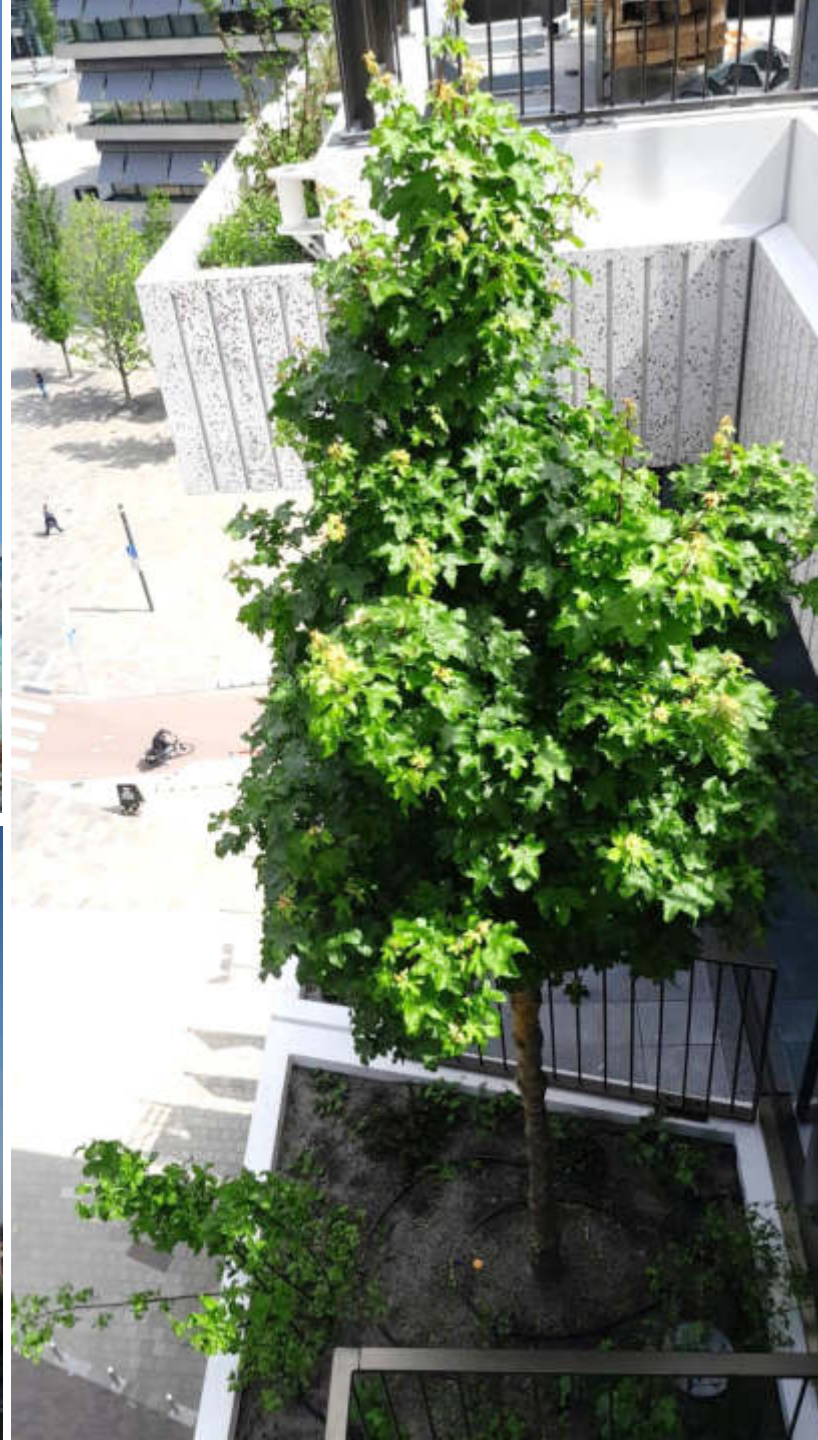




**Green solutions
for now and later**









Floriade Expo Almere 2022



Floriade Expo

Almere 2022





Aeres College

Almere



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Aeres College

Almere



A rooftop garden at Aeres College in Almere. The garden features several raised planters filled with various plants and flowers. There are several young trees planted in the garden, some supported by wooden stakes. The garden is enclosed by a black metal railing. In the background, a cityscape is visible, including a tall building under construction. The sky is overcast.

Aeres College

Almere

Aeres College
Almere



At a building of ca. 1100 m2....

6

trees on the rooftop

2.000

plants on the rooftop
with approx. 30 different
native plant species

11.082

plants on the facade

2.400

plants inside

50%

reuse of rainwater

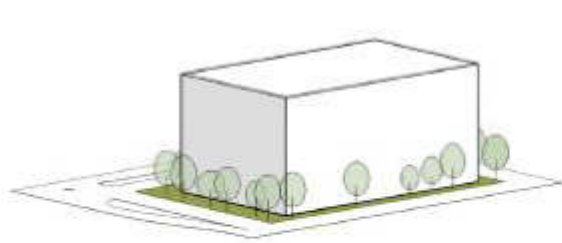
100% of rainwater collected and
reused or delayed drainage. 70% of
rainwater is reused, 30% is delayed.
This saves about 50% of the tap
water needed for the green facade

28.000

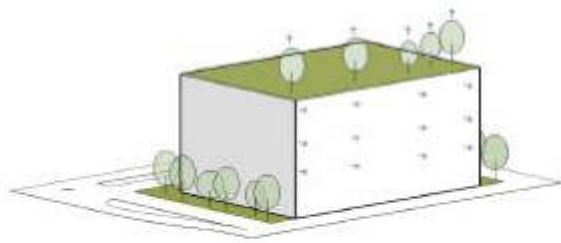
litres of water storage in the ground

59.600

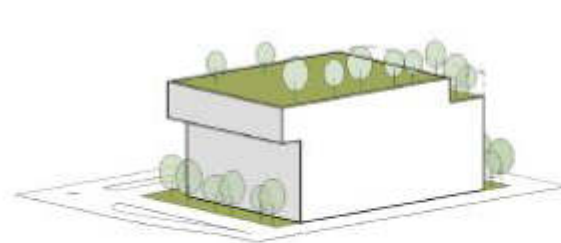
litres of water storage on the rooftop



→ basisvolume



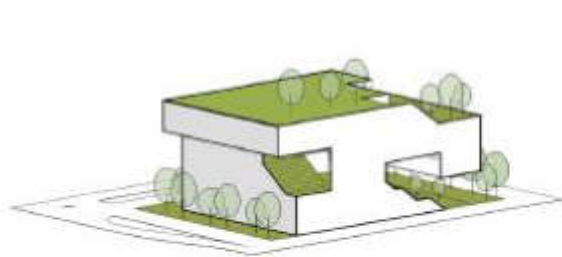
→ verbreden bouwenveloppe richting plein, bomen naar dak



→ overstek zuidzijde = zonwering + extra buitenruimte



→ 'groene long' verbinden maaiveld en dak met elkaar



→ groene lon etalages va



**The green lung as a connection
from ground level to roof**



Design &

Construct Proces

2019: Advise client and architect

2020: Engineering

2021: Realisation

2022 to now: Maintenance

Of the green roof, green facade and interior green



#3 ontvangstgebouw

#2 onderwijsgebouw

#1 groengebouw

#inspiratie

#kunde

#kennis

Aeres College

The green lung

2 themes:

- Multifunctional
- Water circular

4 colors:

- Blue
- Red
- Green
- Yellow

multifunctional roofs



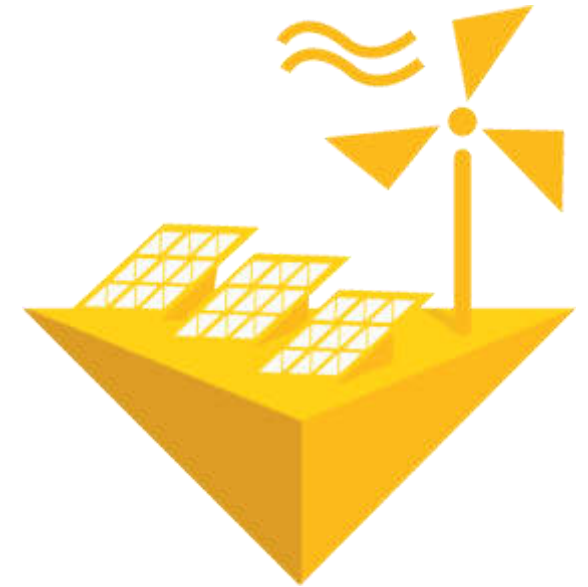
waterretention



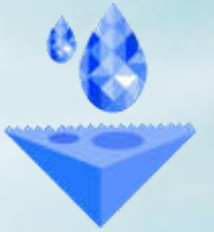
usage

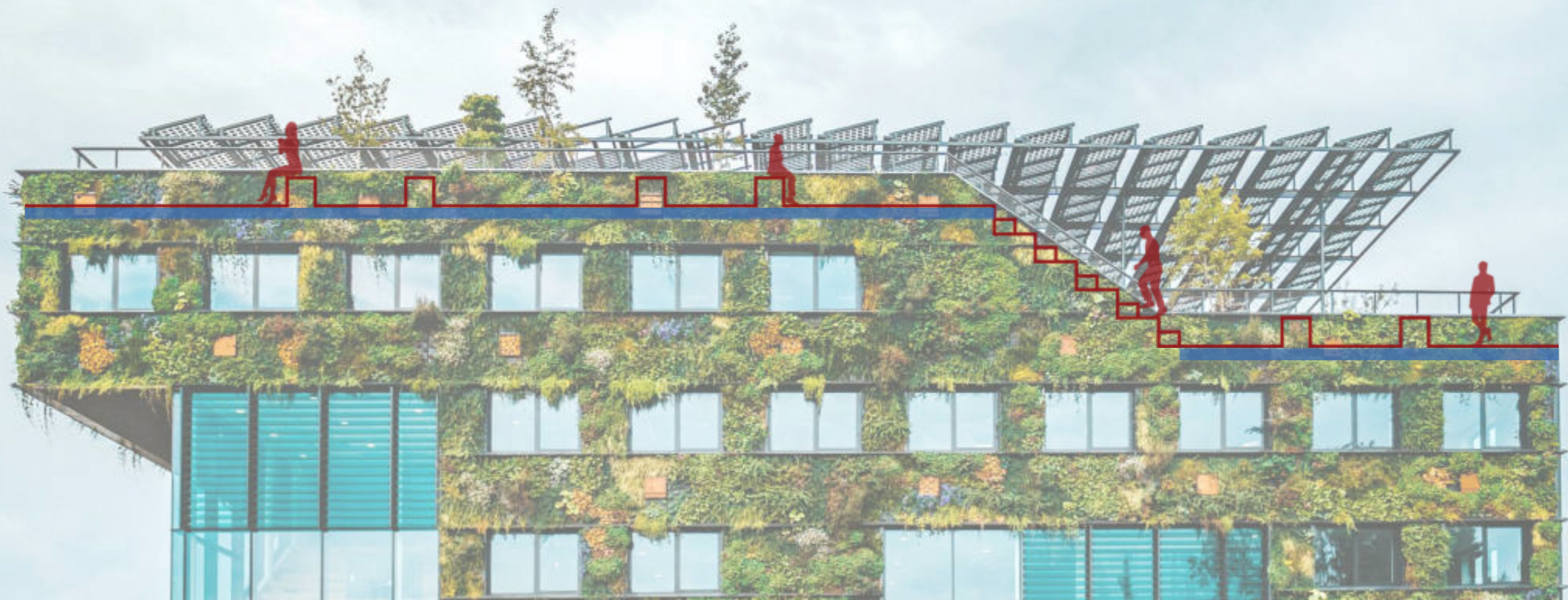


biodiversity

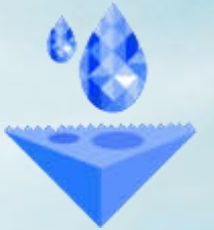
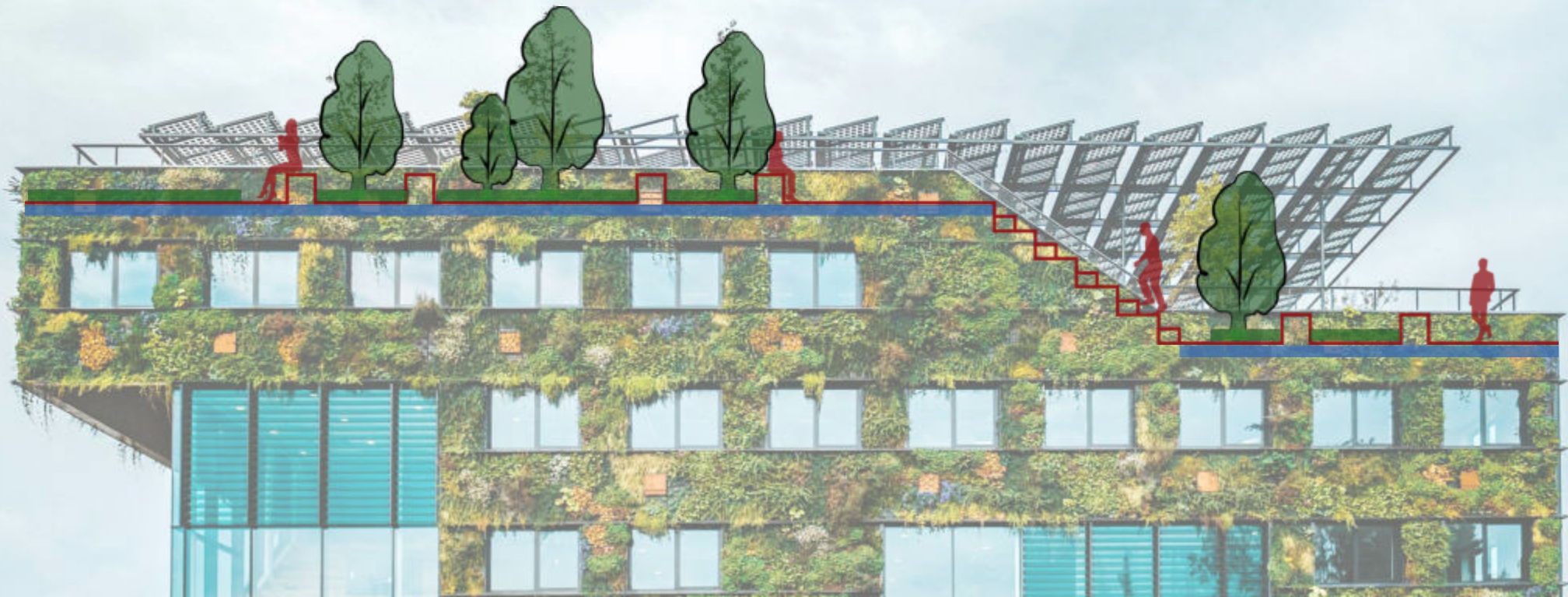


energy





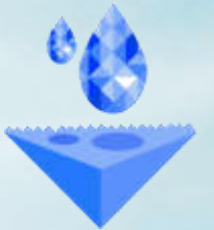
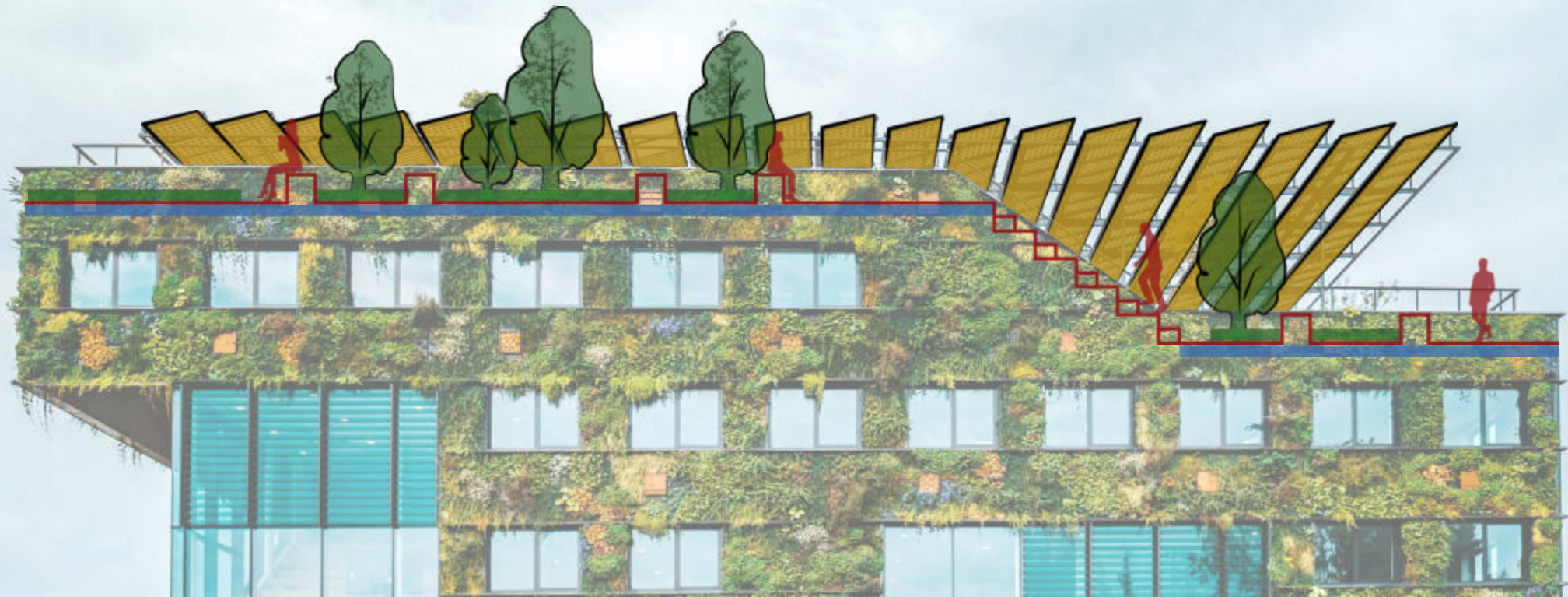








Erigeron karvinskianus
(for example)







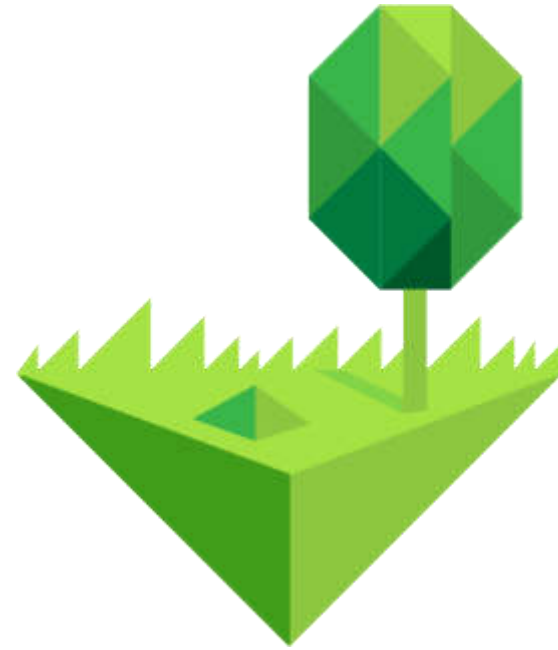
multifunctional roofs



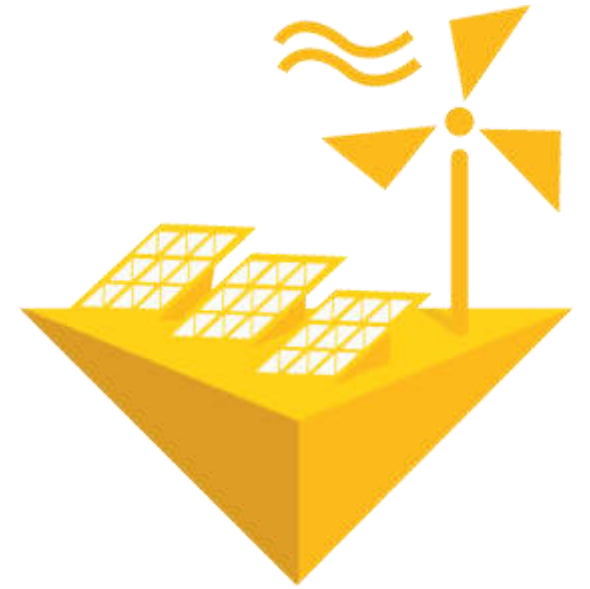
waterretention



usage



biodiversity



energy

Water circular buildings



waterretention



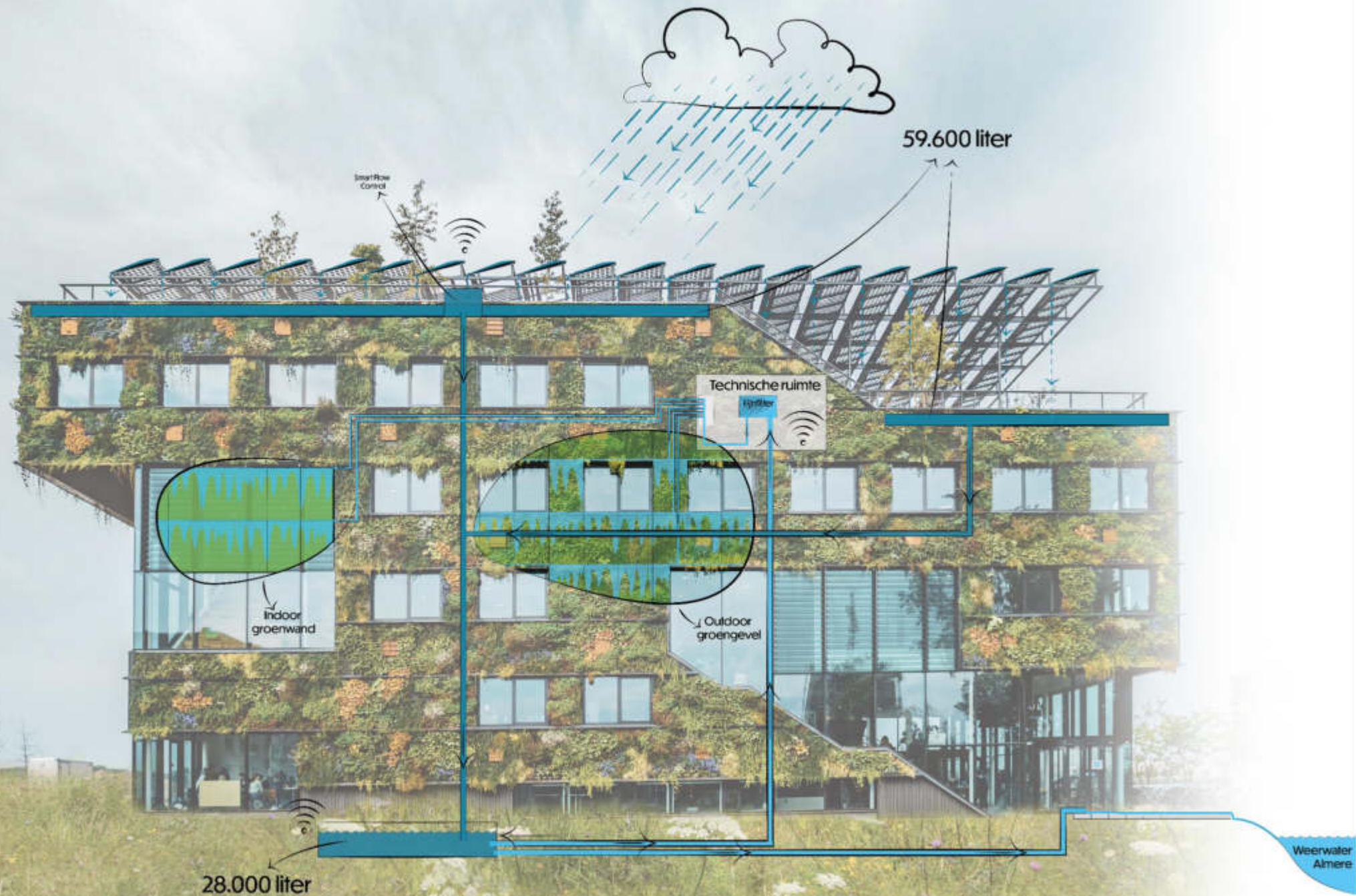
usage



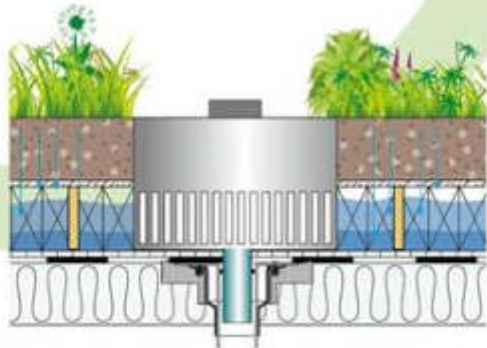
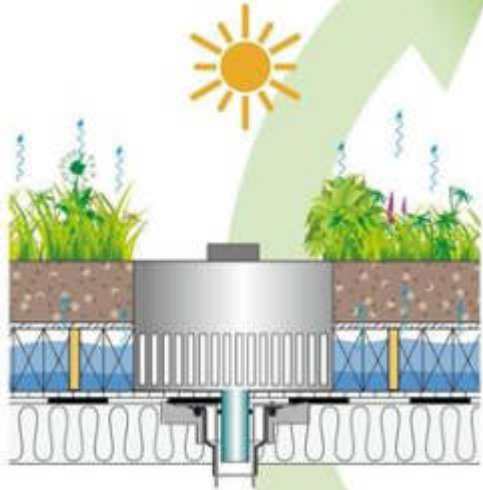
biodiversity



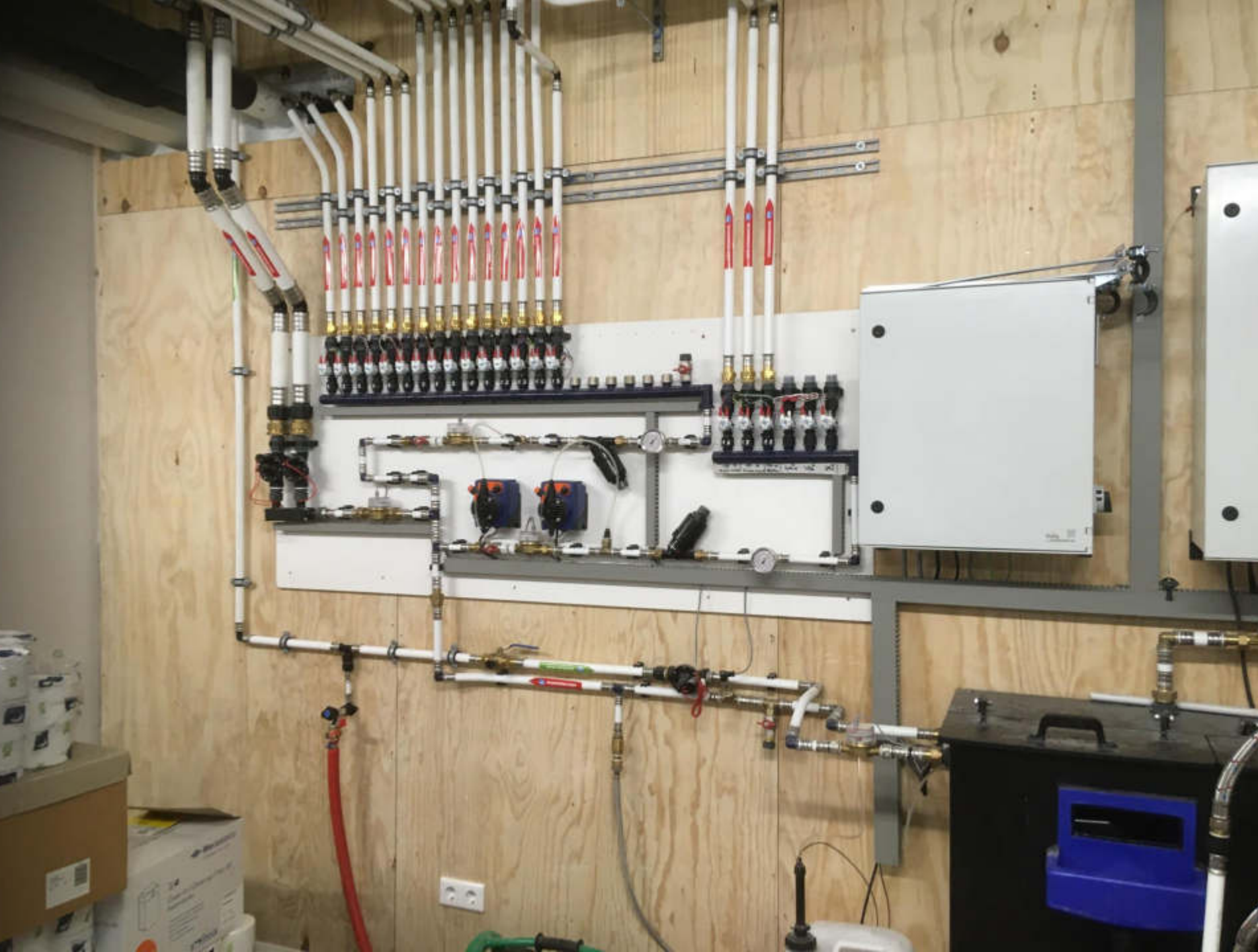
energy

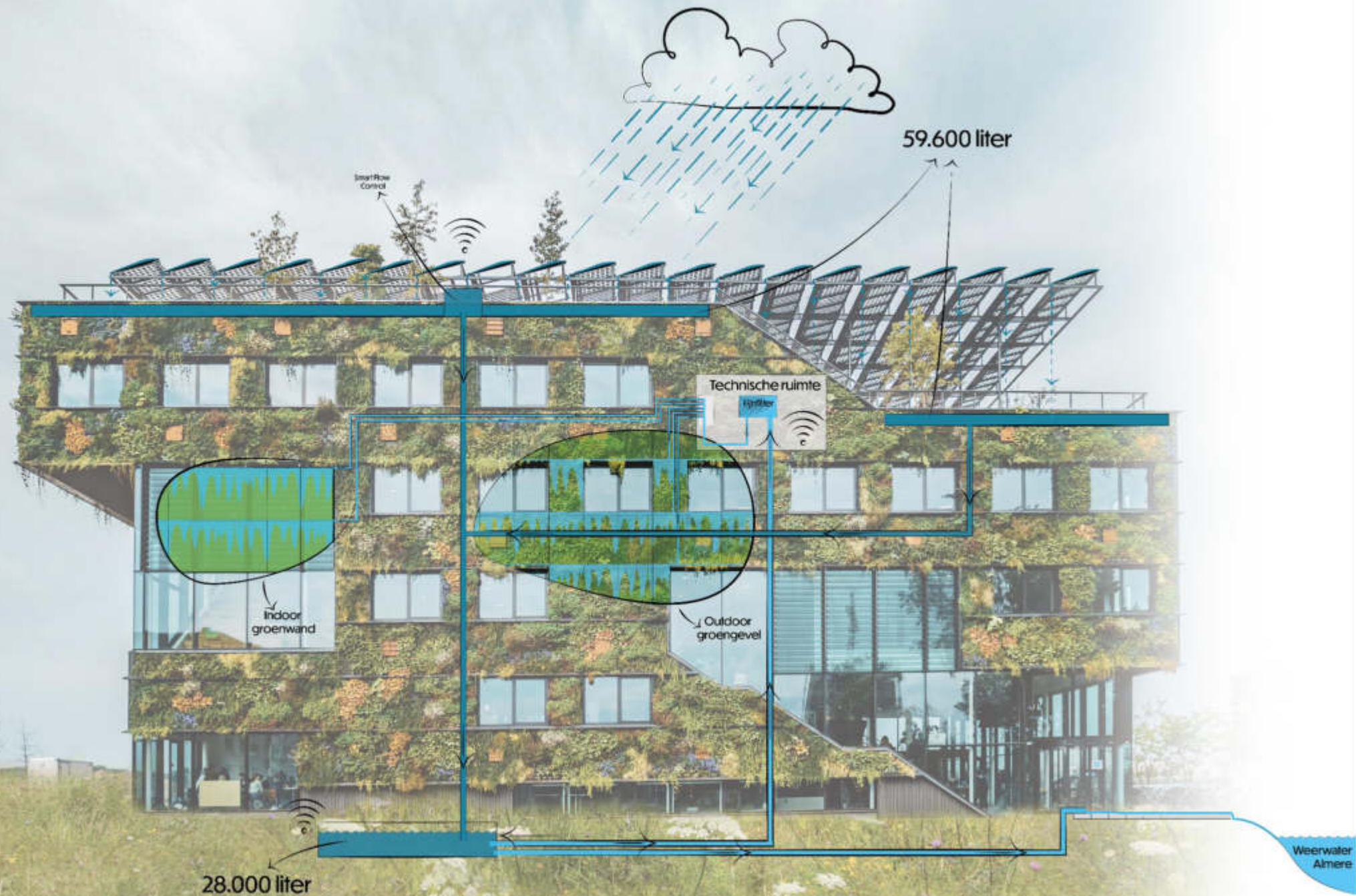












promised



50 %



50 %



> 75%

measured
after a year



< 25%



100 %

goal



0 %



Aeres College

Almere



<https://mei-arch.eu>



**Multifunctional
Water circular**

<https://paulderuiter.nl>



<https://kondorwessels.nl>



<https://amst.amsterdam/woningtypes/>



<https://wonam.nl>



**We see you
in Holland!**

