



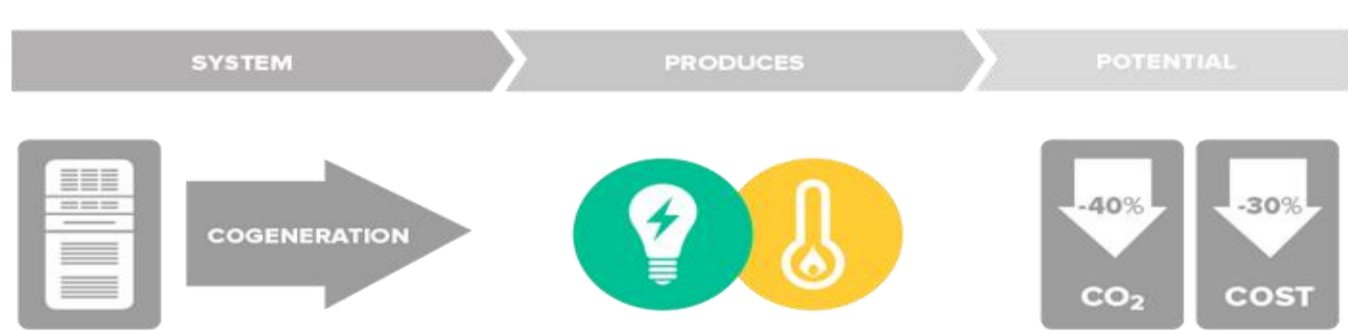
# Strandeiland - Amsterdam

Strandeiland is the next large development in Amsterdam, with 8.000 apartments, and more than 100.000 m2 utilities.



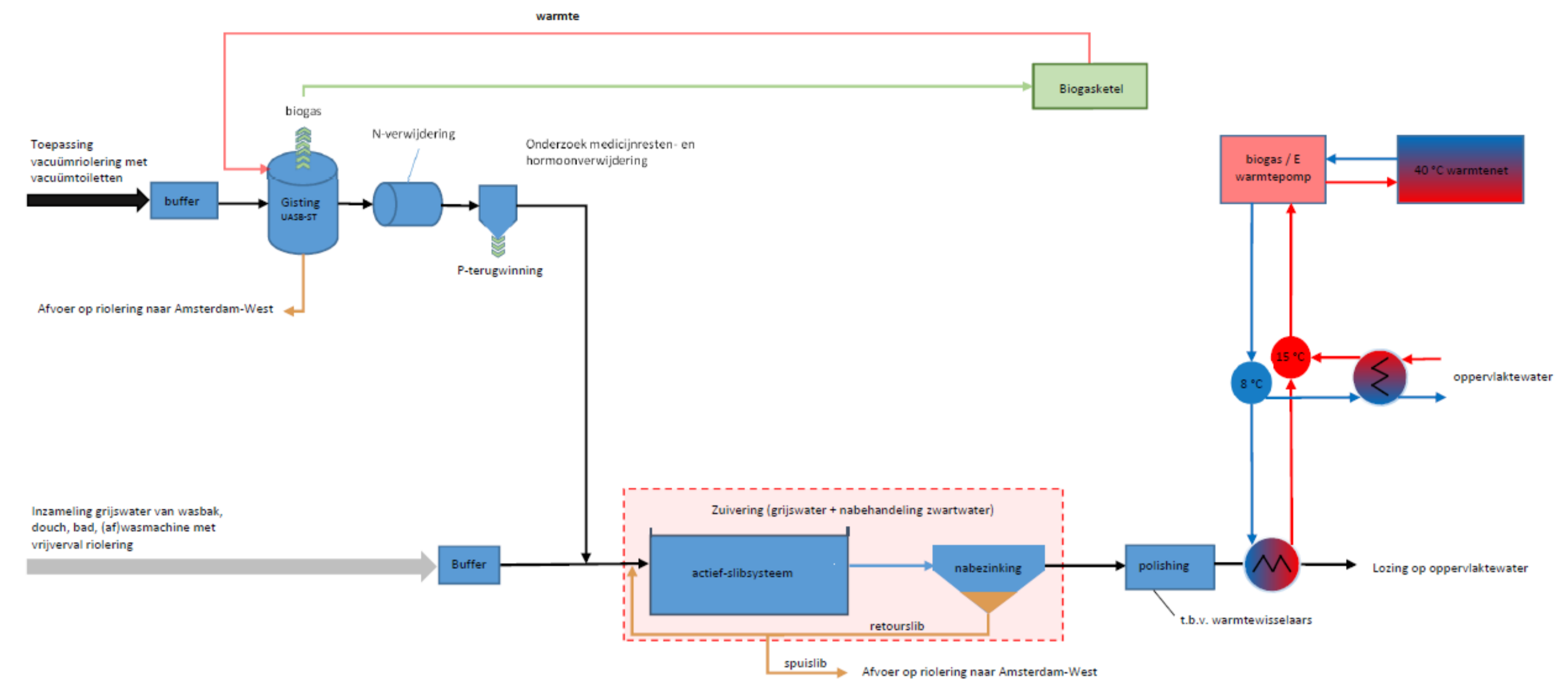
## Ambition NS Strandeiland

- Contribute to the Sustainability goals related to energy and resource recovery of the municipality of Amsterdam. Step towards circular economy.
- first full-scale installation NS – step in transition of the wastewater cycle. Research towards more efficient treatment, in terms of energy requirement and micro-pollutants.
- Together with other sustainable energy source(s), produce/recover 60-70 % of the energy demand locally
- 6 times more phosphorous recovery compared to our 'conventional' system at the centralized treatment
- 30% drinking water savings (apartment level)
- Positive impact on society/ Business Case



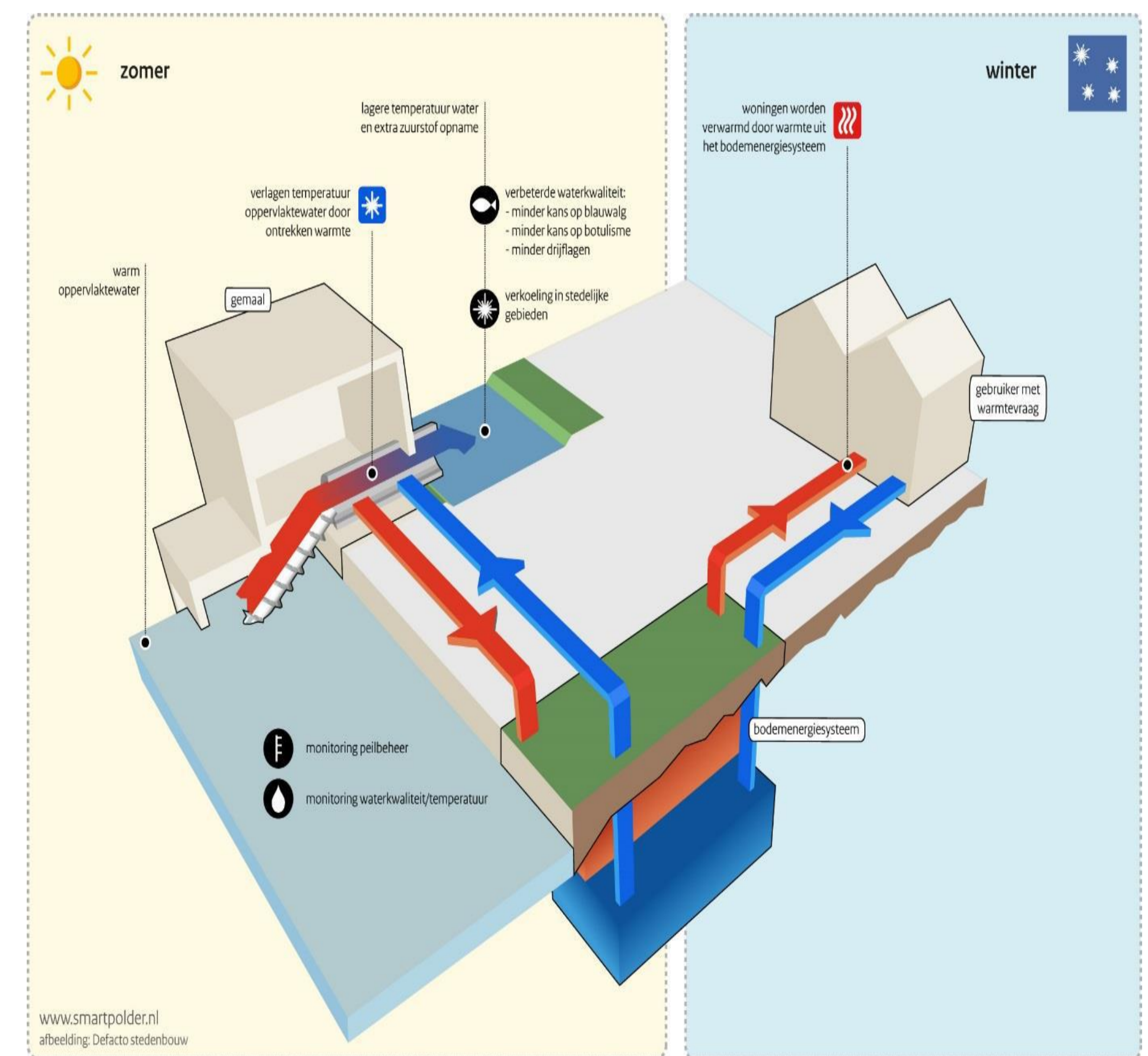
Energy recovery in the form of biogas (heat) and electricity. Phosphate recovery in the form of struvite.

## New sanitation system



## Energy recovery from water

- Amsterdam wants to decouple from natural gas
- Surface water and wastewater as heat source
- Building experience with heat recovery from water



Choice: heat recovery from surface water and wastewater, Integration between water and energy

## Some challenges

- How can we organize/ initiate participation of the future inhabitants?
- When and how are we going to start the process to change rules and regulations? How could we do it together (in an European context)?
- Grey water treatment and nitrogen removal installation
- What can be done with sludge?
- How can the extra space required be financed?