

CLEAN SURFACE WATERS



THROUGH OZONIZATION AND GRANULAR ACTIVATED CARBON

The Interreg Vlaanderen-Nederland project 'Schone Waterlopen door O3G' aims to demonstrate that **ozonation** (O₃) combined with **Granular Activated Carbon** (GAC) can be used at WWTPs as an **innovative, effective** and **cost-efficient** tertiary water technology to remove recalcitrant organic micropollutants (OMPs) which improves surface water quality in the Netherlands and Flanders.

The consortium will investigate the technologies on lab-, pilot- and full-scale installations. This project runs from September 2023 until September 2026.



IN THIS PROJECT WE WILL:

- **Focus on a better WWTP effluent quality**
- Measure OMPs
 - Development of analytical methods
 - Assessment applicability of (online) surrogate measurements
- Remove OMPs and other pollutants
 - Research mechanisms and effectiveness of O₃-GAC on different scales
 - Extend the Amozone model with activated carbon adsorption
 - **Reduce bromate formation**
 - Investigate alternative biological effect measurements
 - Link OMP removal with nutrient removal, disinfection and antibiotic resistance
- Control and assess OMP removal
 - Develop a multi-criteria control system
 - Life cycle analysis (LCA)

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