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Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations

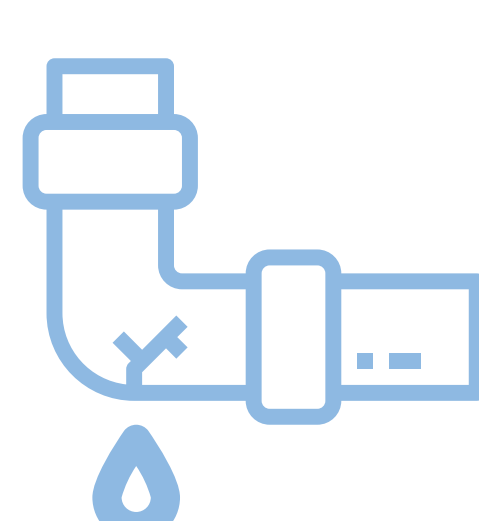
Objectives



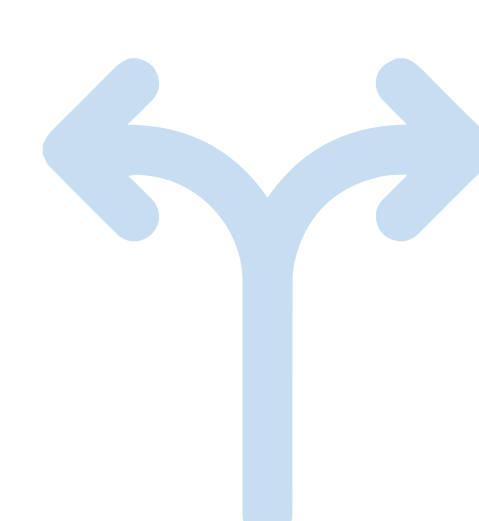
Reduce water demand



Treat and recycle water



Reduce or recover water losses



Exploit alternative water sources

General info

Duration

01/12/2020 - 30/11/2024
(4 years)

Total amount

€11,055,248

Funding Programme

Horizon 2020

Consortium

29 partner, 12 countries

Coordinator

RTWH Aachen Univ. (DE)

Impact and results

Significant reduction of the current use of freshwater resources

Significant steps towards near-zero discharge using closed-loop systems in industrial processes

Significant increase of the recovery of water, energy and/or substances and materials

Increase of resource and water efficiency by 30% compared to the state-of-the-art

Effective dissemination of major innovation outcomes to the current and next generation of employees

Replication potential of the AquaSPICE solutions

5 Case Studies

Technology focus for fresh-water intake reduction at DOW



Boehlen (DE)

Terneuzen (NL)

Sustainable water use in meat production in the circular economy at AGRICOLA



Bacau (RO)

Water treatment and re-use within peroxide production units at SOLVAY



Rosignano (IT)

Water treatment and re-use within refinery at TUPRAS



Izmit (TU)

Sustainable and robust water system for the industrial zone of Antwerp at BASF



Antwerp (BE)

Partners



The AquaSPICE project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No. 958396.