

resurgence

Supporting the green and digital transition of the EU process industries

Why RESURGENCE?

RESURGENCE is an EU-funded project focused on advancing circular water systems in industries to support EU goals for climate neutrality, circularity, and competitiveness.

With a consortium of 20 partners located across 11 countries, the project explores innovative water treatment technologies and recovery of energy and materials, enhanced by digital tools for optimized operations.

The project's objectives

- **Turn** EU process industries into facilities that recover resources from wastewater, aiming for climate friendliness, reuse, and competitive edge.
- **Improve** how we value industrial wastewater using flexible treatments and digital tech to handle its different qualities.
- **Use** new digital tools to get the most out of water, energy, and other materials, making resource use more efficient.
- **Make** sure these technologies work across different industries and fit well with current systems.
- **Gain** major environmental, social, and economic benefits, improving the EU's competitive and innovative strength.

4 case studies



CASE STUDY 1

Pulp and paper industry
Figueira da Foz, Portugal



CASE STUDY 2

Chemical industry
Istanbul, Turkey



CASE STUDY 3

Steel industry
Ostrowiec, Poland



CASE STUDY 4

Urban-industrial symbiosis
Campo de Gibraltar, Spain



RESURGENCE methodology

- **Develop and research** innovative technologies focusing on climate neutrality, circularity, and competitiveness in resource use (water, energy, feedstock).
- **Integrate** innovative technologies into pilot plants for design, construction, and validation, ensuring they are modular and adaptable to current industrial wastewater treatment practices.
- **Promote** Seeds of Hubs for Circularity (S4C) to foster industrial ecosystems for effective cross-collaboration among various sectors and regions.
- **Focus** on maximizing the replicability and scalability of these technologies and approaches to ensure widespread adoption and impact across the EU.
- **Use** an interdisciplinary approach to foster co-design and collaboration among stakeholders

START DATE: 01 December 2023

DURATION: 48 months

BUDGET: €9,222,570.50

Funded by the European Union

PROJECT COORDINATOR:



Technological Centre

resurgence-project.eu

https://twitter.com/RESURGENCE_heu

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