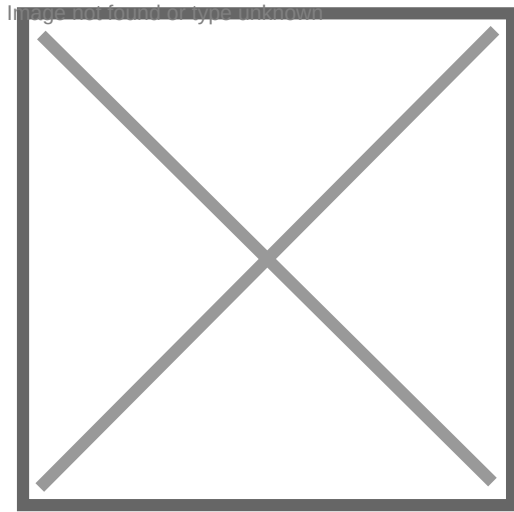




CE-SC5-04-2019

WATER-MINING

Full Title: Next generation water-smart management systems: large scale demonstrations for a circular economy and society

Aim:

The Water Mining project aims to provide for realworld implementations of the Water Framework Directive (and other water legislation), incorporating Circular Economy and EU Green Deal packages, by showcasing and validating innovative next generation water resource solutions at precommercial demonstration scale. The project will connect sectors, value chains and relevant stakeholders to achieve holistic innovations.

Concept:

Water Mining is a multidisciplinary research project that creates water management solutions using a circular economy approach. The consortium consists of 38 public and private partners and four linked third parties from 12 countries, led by the Delft University of Technology. Pilot sites will be in Cyprus, Spain, Portugal, Italy and the Netherlands to demonstrate new, sustainable and efficient ways to reclaim nutrients, minerals, biopolymers, energy and freshwater from desalination, and industrial and urban wastewater. To successfully integrate these value-added products into resource supply chains, the project will engage with communities of practice and produce science-based, market-oriented policy recommendations, design circular business models, and engage with stakeholders, leading to sustainable management of water resources. Water Mining builds on the results of a previous SPIRE project Zero Brine (Redesigning the value and supply chain of water and minerals: a circular economy approach for the recovery of resources from saline impaired effluent (brine) generated by process industries). Both projects include demonstrations for circular economy

solutions in process industries, with one of the largest demonstrations being implemented in the petrochemical cluster in and around Rotterdam Port.

Start date:

01/09/2020

End date:

31/08/2024