

Technological developments for a self-sustainable urban water cycle (SOSTAQUA)

MUNICIPALITY

State-wide project led from Barcelona

DESCRIPTION OF PROJECT

Our local seasonal water scarcity, like energy availability and the maintenance and restoration of water masses in good ecological condition, requires optimisation of the urban water cycle and calls for a series of highly technological activities. The sustainability of processes linked to the integral water cycle can be analysed from four complementary fields: water, waste, energy, and health and environment.

The Sostaqua project sponsored by the Societat General d'Aigües de Barcelona was one of fifteen projects selected in 2007 by the Centre for Industrial Technological Development (CDTI) within CENIT's second call under the Ingenio 2010 programme. It has involved the cooperation of fifteen companies and thirteen public research bodies, with participation by more than three-hundred researchers.

The research phase ended on 31 December 2010 and 2011 saw the final section of tasks and projects:

- Scientific and technical appraisal: an exercise of analysis of the quality of the results obtained, in cooperation with the University of Barcelona.
- Indicator update: compilation and counting of a series of indicators (innovation, scientific impact, etc.) that define the project's success. The most important are:
 - o Generation of four patents.
 - o Twenty-five spin-off projects, giving continuity to research initiated.
 - o Seventy-five articles published in scientific journals.
 - o More than 250 participations in conferences, both national and international, through posters and papers.
 - o Twenty-five doctoral and seventeen master's theses and twenty-nine end-of-course projects.
- Dissemination: the website was updated with the final results of each project, giving maximum information available in conferences and scientific journals.

WEB SITE

www.sostaqua.com

RESPONSIBLE

Aigües de Barcelona.