

Happy new year 2018!

Dear reader,

On behalf of the whole INCOVER team, I am pleased to wish you a happy new year 2018 full of new wastewater valorization opportunities. During this new year, we will try to continue to demonstrate that wastewater can be a source of added-value bioproducts instead of a source of problems for society.

Last year, we made great efforts to start running demo-sites and develop INCOVER technologies. We also tried to capture the opinion of interested stakeholders about them.



In the next months, we will continue to validate our technologies in INCOVER demo-sites in order to transfer our knowledge to markets, policy makers and end users. We will continue to test INCOVER technologies in real situations: growing algae, yeast and plants, irrigating with reclaimed water, producing bioenergy, chemicals, fertilizers and so on. We will study economic, social and environmental benefits, and how to fit INCOVER technologies to different situations, depending on the plant size, the source of water or the end users' demands.

INCOVER team will keep moving around the world to explain our experience with INCOVER technologies. We would like to do our bit to help our planet to be a better place to live.

Please, continue to [follow us on the web](#) and [social networks](#) and keep in touch to have more information on INCOVER project events and workshops.

Kind regards,

Juan Antonio Álvarez Rodríguez. INCOVER Project coordinator

News from the field



Case study 1 - Agròpolis biofactory: Microalgae, bioenergy and clean water

This last half of 2017 has been pretty hectic at the Case study 1 plant in Agròpolis (Barcelona). The three photobioreactors (PBRs) have been functioning at full potential, coinciding with the highest illumination period of the year. Microalgae production currently achieved is approximately 2 kg of dry matter per day.

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Case study 2 - Work in progress

The second case-study taking place in Spain aims at producing bio-plastics (PHA-Polyhydroxyalkanoates), bio-methane and recovering nutrients and irrigation water. Bio-plastics production has been made through a two-stage anaerobic-photosynthetic system, using anaerobic pretreatment and High Rate Algae Pond (HRAP) systems.

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Case study 3 - Valorization of industrial wastewaters at UFZ and Rénergie

In Case study 3 a Yeast-based Citric Acid Bioprocess was successfully implemented at demonstration scale using carbon low kitchen cleaning wastewater and waste frying oil as C-rich source. During the second half of 2017, UFZ focused on the further development of efficient modes for the Citric Acid production by the yeast *Yarrowia lipolytica*...

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Life Cycle Sustainability Assessment for INCOVER Valorization Technologies

For developing sustainable and efficient technologies in the circular economy, a proper assessment methodology is indispensable. To this end, INCOVER technologies are being assessed from an environmental, economic and social perspective considering their entire life cycle from the conception phase (early-stage) to their end of life (EoL). This is accomplished by means of a tailored-to-technology Life Cycle Sustainability Assessment (LCSA) using Environmental Life Cycle Assessment (LCA), Life Cycle Costing (LCC), and Social Life Cycle Assessment (sLCA).

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Past events

EIP water conference 2017

Aqualia attended the EIP Water Conference 2017, in Porto, on the 27-28 of September. Frank Rogalla, Jose Vazquez and Eva Martinez, from FCC AQUALIA, participated in two presentations:

- Wastewater - source of bioenergy and clean water: The All-Gas and Incover demonstration Projects - Eva Martinez, Head of Smart Services, FCC Aqualia
- Curving the line to accelerated resource recovery: the Life Memory, INCOVER and RUN4LIFE projects, and a closer look at resource recovery factories- Jose Vazquez, Head of Quality, R&D, FCC Aqualia.

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Algae Europe 2017

INCOVER project was highly active in AlgaEurope 2017, (5-7 December, Berlin). The conference was a great success, with 230 delegates from 35 countries, 57 oral presentations (2 from INCOVER project), a discussion panel and 60 posters (2 from INCOVER).

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Other past events: [Biotechniques 2017](#), [Encuentro UCA-Empresas Gestoras de Aguas de Cádiz](#), [IoT Solutions World Congress](#), [Technical meeting in Vigo](#), [Conference in Toledo](#).

Coming soon



Record Biomap webinar - 21st February 2018

The Record Biomap European project is organizing a webinar on innovative technologies for biomethane production in small and medium scale applications. The University of Valladolid will present there the biogas upgrading innovative technology developed within INCOVER project. This webinar will present and discuss some very promising technology solutions along the biomethane supply chain...

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Joint meeting with SMART-Plant project

A strong link has been established between INCOVER and SMART-Plant projects and a joint meeting will be held in Lisbon, 6th June 2018. This will be a great opportunity to exchange information and boost the innovative aspects of two projects that aim to move wastewater treatment from being primarily a sanitation technology towards a bio-product recovery industry. The SMART-Plant, acronym of "Scale-up of low-carbon footprint Material Recovery Techniques in existing wastewater treatment PLANTS" is another H2020 project funded in the call WATER-2015.

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Other upcoming events: [Review meeting](#), [First Innovation Workshop](#).

Learn more about INCOVER



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INCOVER partners



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