

Maximising biogas production with cutting-edge technologies for greater resource availability and digital tools for increased efficiencies

D6.2 Project website



**Co-funded by
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LIFE23-CCM-ES-LIFE
MERLIN 101158094



D6.2 Project website

Summary

This deliverable summarises the objectives and contents of the LIFE MERLIN landing page on Cetaqua's website, and also states the other consortium members' webpages in which the project is mentioned.

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LIFE MERLIN is a European project co-funded by the LIFE Programme (LIFE23-CCM- ES-LIFE MERLIN 101158094), the European Union's funding instrument for the environment and climate action. The general objective of LIFE is to contribute to the implementation, updating, and development of EU policy and legislation on environment and climate through the co-financing of projects with European added value. The opinions and views expressed are solely those of the author(s) and do not necessarily reflect those of the European Commission or CINEA. Neither the European Commission nor the granting authority can be held responsible for them.

Table of contents

List of figures	3
1 Executive summary	4
2 Introduction	5
3 LIFE MERLIN landing page	6
3.1 Cover	6
3.2 Introduction and technical sheet	7
3.3 LIFE MERLIN in numbers	8
3.4 Virtual tour	9
3.5 Downloadable materials and related news	10
4 LIFE MERLIN in other consortium members' websites	11
4.1 Createch 360°	11
4.2 Aguas Municipales de Alicante, Empresa Mixta (AMAEM)	12
4.3 Empresa Municipal de Aguas y Saneamiento de Murcia (EMUASA)	12

List of figures

Figure 1. Cover - English	7
Figure 2. Cover - Spanish	8
Figure 3. Introduction and technical sheet - English	8
Figure 4. Introduction and technical sheet - Spanish	9
Figure 5. LIFE MERLIN in numbers - English	9
Figure 6. LIFE MERLIN in numbers - Spanish	10
Figure 7. Virtual tour - English	10
Figure 8. Virtual tour - Spanish	10
Figure 9. Downloadable materials and related news - English	11
Figure 10. Downloadable materials and related news - Spanish	11
Figure 11. Section of Createch 360° in which LIFE MERLIN is mentioned	11
Figure 12. Section of AMAEM in which LIFE MERLIN is mentioned	12
Figure 13. Section of EMUASA in which LIFE MERLIN is mentioned	12

1 Executive summary

This deliverable summarises the objectives and contents of the main digital channel of the LIFE MERLIN project: its landing page. In this document you will find screenshots of the sections that make up this material.

In addition, this document also includes the links to all the consortium members' websites that mention the project.



2 Introduction

Digital communication is crucial nowadays. It provides an effective and efficient way to share information quickly and easily with people from all around the world. It enables users to communicate and collaborate on projects from anywhere. Digital communication also provides access to a broader range of perspectives and information. Furthermore, digital communication can be used to build relationships, generate new ideas, and reach a wider audience.

In this sense, the LIFE MERLIN project proposes the development of a landing page at the website of Cetaqua, the project's coordinator, as the main means of communication and dissemination.

The landing page will explain the project in a concise and easy-to-understand way, and will serve as the place for finding all the digital materials that will be developed during the project (logos, leaflet, promotional and final video, notice boards, virtual tours, public deliverables, etc.)

The rest of the consortium members will also mention the project in their websites and will provide the link to the main landing page.



3 LIFE MERLIN landing page

In the first year of the project, a landing page hosted within Cetaqua’s corporate website has been launched, which contains the main information on the project. This landing page, which is available both in [English](#) and [Spanish](#), will be updated regularly by Cetaqua’s communication department with the latest news on the progress of the project, as well as downloadable materials. This website will be shared as widely as possible in the media, social networks and congresses in order to maximise the number of visits.

In addition, all project partners will be invited to replicate this landing page on their corporate websites.

Below, all the sections of the landing page are described.

3.1 Cover



Figure 1. Cover - English

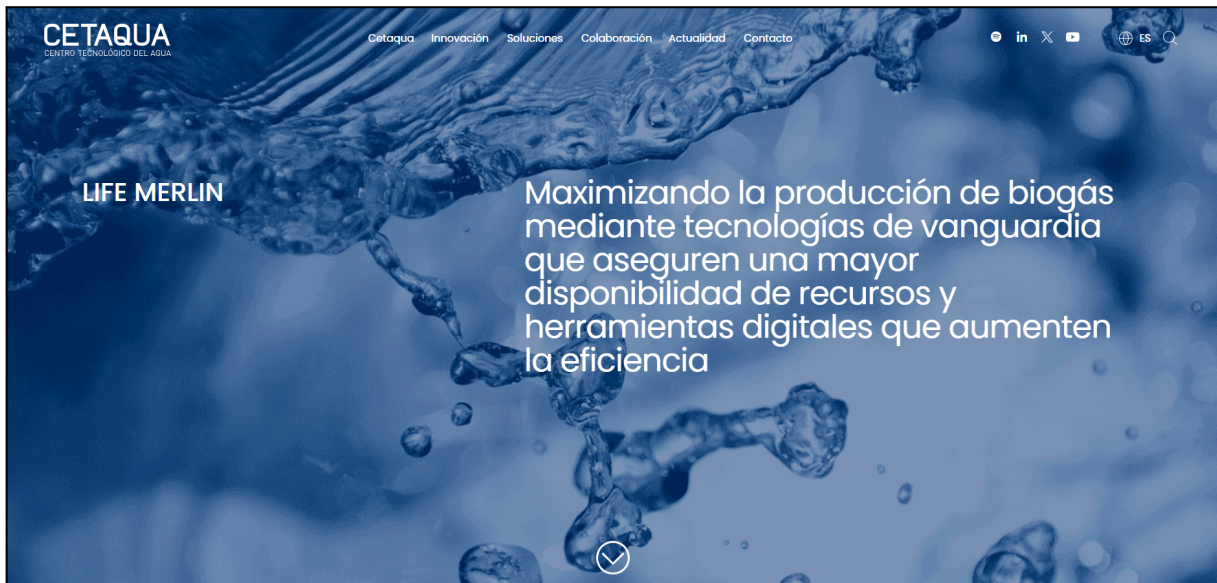


Figure 2. Cover - Spanish

3.2 Introduction and technical sheet

LIFE MERLIN

Maximising biogas production with cutting-edge technologies for greater resource availability and digital tools for increased efficiencies

Climate change and environmental degradation, as well as the European Union's (EU) dependence on energy imports from non-EU countries, pose a major challenge for the EU. Therefore, it is essential to seek more sustainable and Europe-based alternative energy sources. To address this challenge, the LIFE MERLIN project (Maximising biogas production with cutting-Edge technologies for greater Resource availability and Digital tools for Increased efficiencies) has been launched. This project will develop an innovative and efficient solution to boost biogas production from wastewater treatment plant residues.

Funding: LIFE

Budget: 3518660.76 €

Duration: September 2024 - August 2028

Coordinator: Cetaqua

LIFE MERLIN, an innovative solution in Spain to produce renewable energy from waste

The LIFE MERLIN solution, which will be implemented in pilot sites place at the wastewater treatment plants of Monte Orgegia (Alicante) and Murcia Este (Murcia), will combine the pretreatment of sludge from urban wastewater with an anaerobic co-digestion process—i.e., a digestion process involving two or more raw materials—of waste from food

LABAQUA

AGUAS DE MURCIA

AGUAS DE ALICANTE

Creotech
Intelligent control solutions 360°



Co-funded by the European Union



Figure 3. Introduction and technical sheet - English

LIFE MERLIN

Maximizando la producción de biogás mediante tecnologías de vanguardia que aseguren una mayor disponibilidad de recursos y herramientas digitales que aumenten la eficiencia

El cambio climático y la degradación del medio ambiente, así como la dependencia de la Unión Europea (UE) de las importaciones de energía desde países extracomunitarios, suponen un gran desafío para la UE, y por ello es necesario buscar fuentes de energía alternativa más sostenibles y con origen comunitario. Con este fin, se pone en marcha el proyecto LIFE MERLIN (Maximising biogas production with cutting-Edge technologies for greater Resource availability and Digital tools for Increased efficiencies), que desarrollará una solución innovadora y eficiente para impulsar la producción de biogás a partir de residuos de depuradoras.

Financiación: LIFE

Presupuesto: 3518660.76 €

Duración: septiembre 2024 - agosto 2028

Coordinador: Cetaqua

LIFE MERLIN, una solución innovadora en España para producir energía renovable a partir de residuos

La solución LIFE MERLIN, que se desarrollará en pilotos situados en las plantas depuradoras de Monte Orgegia (Alicante) y Murcia Este (Murcia), combinará el ~~tratamiento de fangos~~ ~~provenientes de aguas~~



Co-funded by the European Union



Figure 4. Introduction and technical sheet - Spanish

3.3 LIFE MERLIN in numbers

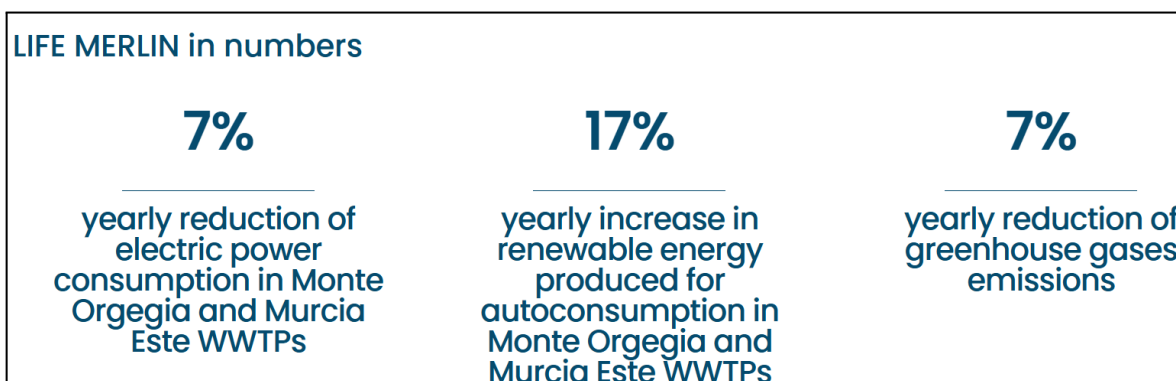
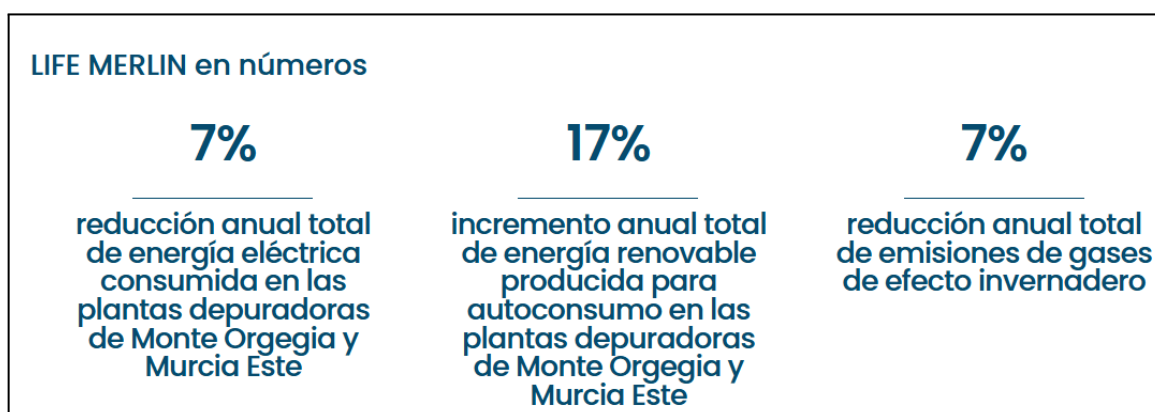


Figure 5. LIFE MERLIN in numbers - English



3.4 Virtual tour

Virtual tour LIFE MERLIN

The virtual tour of the LIFE MERLIN project site will be available soon. Meanwhile, discover other pilot plants from innovation projects.




Figure 7. Virtual tour – English

Tour virtual LIFE MERLIN

El tour virtual del proyecto LIFE MERLIN estará disponible próximamente. Mientras tanto, descubra otras plantas piloto de proyectos de innovación.




Figure 8. Virtual tour – Spanish

3.5 Downloadable materials and related news


Resources/Downloads

- [Download the LIFE MERLIN project logo](#) →
- [Read the technical article about LIFE MERLIN in IndustriAmbiente](#) →

Related news


Find the latest news related to LIFE MERLIN

[View all news](#) →




BIOCENPLAS, a sustainable model in the fishing processing industry

[Read more](#) →



BIOCENPLAS, a sustainable model in the fishing processing industry.

[Read more](#) →



Biomethane, on energy future

[Read more](#) →

Figure 9. Downloadable materials and related news – English

Recursos/Descargas

- [Descarga el logo del proyecto LIFE MERLIN](#) →
- [Lee el artículo técnico sobre LIFE MERLIN en IndustriAmbiente](#) →

Noticias relacionadas

Encuentre aquí las noticias relacionadas con LIFE MERLIN

[Visualiza todas las noticias](#) →



ECOVAL, el proyecto de innovación que posiciona a Galicia como referente en la gestión circular de los residuos

[Leer más](#) →



El proyecto europeo LIFE NIMBUS inaugura su planta de producción de biometano a partir de lodos de depuradora

[Leer más](#) →



Arranca el proyecto de producción de biometano

[Leer más](#) →

Figure 10. Downloadable materials and related news – Spanish

4 LIFE MERLIN in other consortium members' websites

All the organisations that participate in LIFE MERLIN take part in the responsibilities related to the project's communication and dissemination. Thus, they are actively engaged in ensuring that the project has visibility among their audiences. For that purpose, all consortium members –except Aquambiente Circular Economy Solutions (ACES), that does not currently have an own website- have a space dedicated to the project in their sites.

4.1 Createch 360°

LATEST NEWS

Great news: we are now commissioning the first dual Energy-N2O advanced aeration control in Spain!

We are installing our EN2O-control solution on the site of Manresa, together with the collaboration of Aigües Manresa, and working hand-in-hand with partner Cobalt Water Global.

The wastewater treatment plant of Manresa treats an average flow of 34,100 m³/d, with a consent of total nitrogen (10mgN/L) and TP (1mgP/L). Our CREApro platform has been successfully running on this site for 8 years, fitted with several customised process control modules: aeration control (N-control and MOV-control) for energy savings and P-control for chemical savings (dual FeCl₃ and PAC), while providing optimised treatment performance. This next step is an upgrade of the aeration control, to incorporate N2O emissions reduction in the control philosophy and provide an aeration system that maintains compliance together with the optimum balance between energy use and N2O emissions.

We are very grateful to Aigües Manresa, a very forward-thinking public Utility, for their trust, support and fruitful collaboration for this project. This implementation is the first of many! Thank you also to Agència Catalana de l'Aigua (ACA) and Mancomunitat del Bages i del Moianès for their support towards this project.

Hurray!

We are nominated for an award at WWEM, in the category "Water Monitoring – Most innovative Instrument product or Digital solution".

Vote for us here: <https://www.ilmexhibitions.com/wwem/awards-voting/>

We will also be attending and presenting, more on that later 🙌

Exciting news: we are just kicking-off the MERLIN, a LIFE Programme European project : advanced co-digestion with local waste streams + leveraging maximum efficiency from this synergy using waste conditioning technologies and digital tools (CREA) to optimise operations.

This ticks all the boxes:

- Local resource (waste) recovery > sustainability
- Renewable energy production > energy independence
- Positive impact from the above, contributing to a sustainable waste & water sector

All this will be carried out with a strong team of water utilities (Aguas de Alicante , Aguas de Murcia), a technology center (Cetaqua – Water Technology Centre), a waste resourcer (Aquambiente), and an advanced control specialist (Createch360 – Intelligent Control Solutions): a great example of true collaboration with each partner providing what they do best, for the benefit of the group!

Looking forward to the 2 site applications in Murcia and Monte Orgegia.



[Read more](#)

[Read more](#)



Vote for us at the AQE and WWEM Awards

We're nominated for an Award

Vote Here

CREATECH SOLUTIONS S.L.

Award Category: Water Monitoring - Most innovative treatment product or digital solution

WWEM AQE

[Read more](#)

Figure 11. Section of Createch 360° in which LIFE MERLIN is mentioned: <https://www.createch360.com/>

4.2 Aguas Municipales de Alicante, Empresa Mixta (AMAEM)

Arranca el proyecto LIFE MERLIN para impulsar la producción de biogás en depuradoras

1 OCT 2024

El proyecto, parte del programa LIFE y co-financiado por la Comisión Europea, busca contribuir a una Europa más sostenible e independiente en cuestiones de energía

LIFE MERLIN está coordinado por Cetaqua- Centro Tecnológico del Agua, y cuenta con la participación de otros cuatro socios españoles, entre los que se encuentra Aguas de Alicante

Situados en las depuradoras de Monte Orgegia (Alicante) y Murcia Este (Murcia), los pilotos del proyecto maximizarán la producción de biogás que pueda utilizarse posteriormente como fuente de energía para el funcionamiento de las propias instalaciones

Figure 12. Section of AMAEM in which LIFE MERLIN is mentioned:

<https://www.aguasdealicante.es/-/arranca-el-proyecto-life-merlin-para-impulsar-la-produccion-de-biogas-en-depuradoras>

4.3 Empresa Municipal de Aguas y Saneamiento de Murcia (EMUASA)

LIFE CONQUER. Project to promote zero waste by the selective treatment of groundwater contaminated with nitrates and salts, for use in irrigation of parks and gardens. Nitrates are kept as fertilizer and salts are eliminated transforming them into sodium hypochlorite which will be used in the different treatment plants. EMUASA plays a fundamental role in this project, managing the

- ✓ acquisition of permits for the installation of the prototype in the Zarandona wastewater treatment plant, its construction, operation and optimization, as well as the transfer of brine recovery units to a wastewater treatment plant. Reverse osmosis (RO) saline water in Murcia. Additionally, it provides essential data for environmental and economic evaluations of the project (<http://www.life-conquer.eu/>).

LIFE MERLIN. Project that seeks to maximize biogas production by combining sludge pretreatment with co-digestion using innovative technologies and digital tools. Implemented in the treatment plants of Murcia Este and Monte Orgegia (Alicante), LIFE MERLIN will contribute to the energy

- ✓ independence and decarbonization of the EU, reducing CO2 emissions and improving efficiency in waste management. EMUASA plays a fundamental role in the design, construction, operation and data collection of pilot plants, as well as in the evaluation of results and the development of digital tools to optimize the process.

Figure 13. Section of EMUASA in which LIFE MERLIN is mentioned: <https://www.emuasa.es/en/innovacion>

