



SEMPRE-BIO

D6.2 SEMPRE-BIO website and video

**SEcuring doMestic PRoduction of
cost-Effective BIOmethane**

inveniam  . .



PROJECT INFORMATION

GRANT AGREEMENT NUMBER	101084297
PROJECT TITLE	SEcuring doMestic PRoduction of cost-Effective BIOMethane
PROJECT ACRONYM	Sempre-Bio
FUNDING SCHEME	HORIZON-IA
START DATE OF THE PROJECT	1 November 2022
DURATION	42 months
CALL IDENTIFIER	HORIZON-CL5-2021-D3-03-16
PROJECT WEBSITE	https://sempre-bio.com/

DELIVERABLE INFORMATION

DELIVERABLE N°	6.2
DELIVERABLE TITLE	SEMPRE-BIO website and video
WP NO.	6
WP LEADER	INVENIAM
CONTRIBUTING PARTNERS	CET, AB, CRYO, DBFZ, DTU, INV, PROPULS, SINTEF, TERRA, TMB, UGE, UVIC, BIOGAS-E, INNOLAB, NAT, MASS
AUTHORS	Júlia Gómez, Estefanía González, Laia Mencia, Nazih Toubal
REVIEWERS	CRYO, TERRA
CONTRACTUAL DEADLINE	30 April 2023
DELIVERY DATE TO EC	28 April 2023
DISSEMINATION LEVEL	Public



DOCUMENT LOG

VERSION	DATE	AUTHOR	DESCRIPTION OF CHANGE
V0.1	12-Apr-2023	Júlia Gómez , Nazih Toubal, Laia Mencía	Initial version
V0.2	17-Apr-2023	Eric Suñol, John Crockett	Internal review
V1.1	21-Apr-2023	Nazih Toubal, Laia Mencía	First version
V1.2	25-Apr-2023	TERRA (Pierre-Yves Mocaer), CRYO (Andrea Munaretto)	Review feedback
V2.1	27-Apr-2023	Estefanía González, Nazih Toubal	Second version
V2.2	28-Apr-2023	Laia Mencía	Final version ready for submission

DISCLAIMER



**Funded by the
European Union**

“Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.”



Content

Executive summary	5
1. Website.....	6
1.1. Home	6
1.2. Project	6
1.3. Partners.....	9
1.4. Library	10
1.5. News & Events	11
1.6. Contact.....	12
2. Video	13
2.1. The script.....	13
2.1.1. Screenshots.....	14

Figure index

Figure 1. SEMPRES-BIO's website Home page.	7
Figure 2. SEMPRES-BIO's website Project page.	8
Figure 3. SEMPRES-BIO's website Partners page.	9
Figure 4. SEMPRES-BIO's website Library page.....	10
Figure 5. SEMPRES-BIO's website News & Events page.....	11
Figure 6. SEMPRES-BIO's website contact section.....	12
Figure 7. Screenshots of the SEMPRES-BIO's video.....	14

Acronym Glossary

CIM: Company Identity Manual

WP: Work Package

W3C: World Wide Web Consortium

Executive summary

This document provides a general overview of the structure and contents of the SEMPRES-BIO project website and video. It reflects, at the time of writing this report, the current status and the planned content and features evolution that will be developed along with the progress of the project over its 3-year lifespan. Possible modifications and improvements might be identified in future to address any needs not identified at this stage of the project.

The website provides the main point of initial contact and information to the public and to other researchers. According to what is requested in **WP6 Connect, Communicate, Exploit, Replicate**, the website has been designed to be professional, market facing, crawlable, responsive and it is planned to be regularly maintained using different formats (e.g., webinars, video clips, practical guides, collaterals, banners, brochures etc.). It is intended to publish both general content on the project, but also links to the technical non-confidential deliverables (when these become available).

Also, the document provides an overview and structure of the project video, together with some screenshots. The SEMPRES-BIO video displays a powerful visual description of the project goals and engages with the audience in layman's language.



1. Website

The SEMPRES-BIO website (<https://sempre-bio.com/>) will be the **official portal keeping stakeholders up to date on the project progress**, publishing public deliverables and providing information on SEMPRES-BIO events (such as project meetings and workshops), publications and other exploitable results. A beta version of the website has been available since the end of February 2023.

It is designed to be **attractive and user-friendly** and serve the needs of all user groups. The SEMPRES-BIO website will be designed to meet the requirements of the European Commission's Information Providers Guide and the W3C Content Accessibility Guidelines 2.0 (which promote equal access to disabled or ageing users as well as users with older hardware). All the information on the website will be **accessible** to all users and will be provided **in English**.

1.1. Home

The home page of the portal represents the front-end message of the SEMPRES-BIO project to communicate the objectives, a summary of latest activities containing all the essential information that can be openly shared with the audience, the three innovation ecosystems brief presentation and the SEMPRES-BIO team logo list. See Figure 1.

The first view of the SEMPRES-BIO landing page is visually attractive to keep the attention of the visitors and shows the brand of the project clearly, with the logo and colours. The different sections are clearly seen as well as a single-sentence description of the project.

This is followed by a description of the project and the three case studies. This section can lead the visitor directly to the project description by clicking on the Project button.

Next, there is a list of the consortium members and a button that redirects the visitor to the Partner section for further information.

At the end of the home page, there is the section for latest news and Twitter publications.

The Footer contains the disclaimer required by the European Union for EU funded projects as well as links to SEMPRES-BIO's social media (Facebook, Twitter, and LinkedIn), a contact email address and the Cookies and Privacy policies.

Additionally, whenever a visitor accesses the site, a newsletter popup appears so that visitors can subscribe.

1.2. Project

The project section, see Figure 2, will display characteristics of the project in a very visual way, showing the project duration, the number of partners, the countries involved and the project's total funding. This section also contains the goals of the project. By placing the cursor on top of each of the circles in the Boosting Biomethane production section, the different goals can be seen. Also, a simple illustration is made showing the feedstocks involved in producing Biomethane, the innovative production technologies involved, the case studies and the outputs at the end of the process. A brief description of the 7 work packages is made and the expected outcomes of the project.



Fostering circular economy in Europe

We will demonstrate new cost-effective ways to produce biomethane

Three innovation ecosystems

Our technology will be tested in three plants through Europe



CSI: Aigües de Barcelona, Barcelona, Spain



CCZ: Terrawatt, Marnage, France



CS5: De zwanebloem, De Pinte, Belgium

At SEMPRE-BIO (during the pilot production of cost-effective biomethane) we will establish three European-Biomethane Innovation Ecosystems (EBIEs) in Balıkesir (ES), Bourges (FR) and Adirivke (BE) where five **biomethane innovations technologies will be tested**.

Our aim is to demonstrate novel and cost-effective biomethane production solutions to support **circular economy** and reduce dependence on fossil fuels.

PROJECT

The SEMPRE-BIO team

Research and technological development in a single consortium

We bring together entities from **different backgrounds** and expertise that cover the whole biomethane value chain. This is a **highly complementary and interdisciplinary consortium** with partners coming from **different sectors** and types of activities: research, industry, academia, end-users, stakeholder's engagers, consulting agency and farmers.



PARTNERS

Latest news

Discover the latest updates of our project!



This is a news #1
[Read More](#)



This is a news #2
[Read More](#)



This is a news #3
[Read More](#)

SEE MORE



SEMPRE-BIO
@SEMPRE_BIO
Twitter

Read More



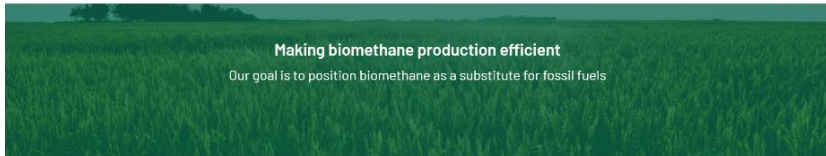
Funded by the European Union

Follow us

Contact us
info@sempre-bio.com

Cookies Policy Privacy policy
©2023 Semprebio | All Rights Reserved | Powered by Scientos

Figure 1. SEMPRE-BIO's website Home page.



Making biomethane production efficient

Our goal is to position biomethane as a substitute for fossil fuels

SEMPRE-BIO in numbers

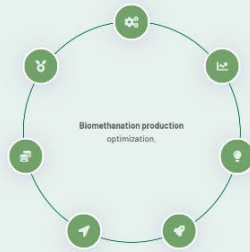
<p>42 Months</p> 	<p>16 Partners</p> 	<p>6 Countries</p> 	<p>9.9M Funding</p> 
---	---	---	--

Boosting biomethane production

To comply with the European Green Deal

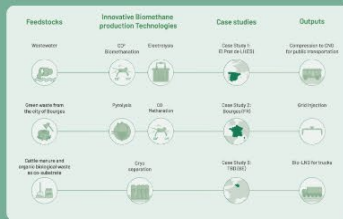
We will demonstrate novel and cost-effective biomethane technologies production, deemed essential to achieve the Europe's security of energy supply, the European Green Deal and climate and energy targets for 2030 and 2050.

Here specifically, **our work is focused on:**



From models to reality

We will test our technologies in three European scenarios



A foolproof strategy to a major challenge

Our approach is divided into 7 work packages

WP1	WP2	WP3	WP4	WP5	WP6	WP7
Creation of the three European Biomethane Innovation Ecosystems: B. Per (LUG) (CO ₂ biomethanation and H ₂ production via PEM water electrolysis), Bourges (Woody biomass pyrolysis and organic CO ₂ methanation) and Adirivkahe (Cryogenic biogas upgrading).						

Milestones

We expect to meet four specific mid-term outcomes

As long term impacts will enable more efficient energy supply since biomethane is a substitute of imported liquid natural gas (LNG) and of transport fuels. This will involve a **cleaner, more sustainable, and more secure energy supply.**

- 1 **Increase cost-effectiveness** of the conversion in biomethane production
- 2 **Diversify the conversion technology** basis for biomethane product.
- 3 **Contribute to market up-take** of biomethane related technologies in the gas market.
- 4 **Contribute to the demonstration** of nearly industrial-scale novel conversion technologies to produce biomethane from wastewater and woody biomass.

Figure 2. SEMPRE-BIO's website Project page.

1.3. Partners

Here a map is presented with all the involved partners in their respective geographical locations in Europe. It is an interactive map with the name and description of each partner involved. Below, there is a card for each partner with links to their sites and social media and a short description when clicking on +INFO.

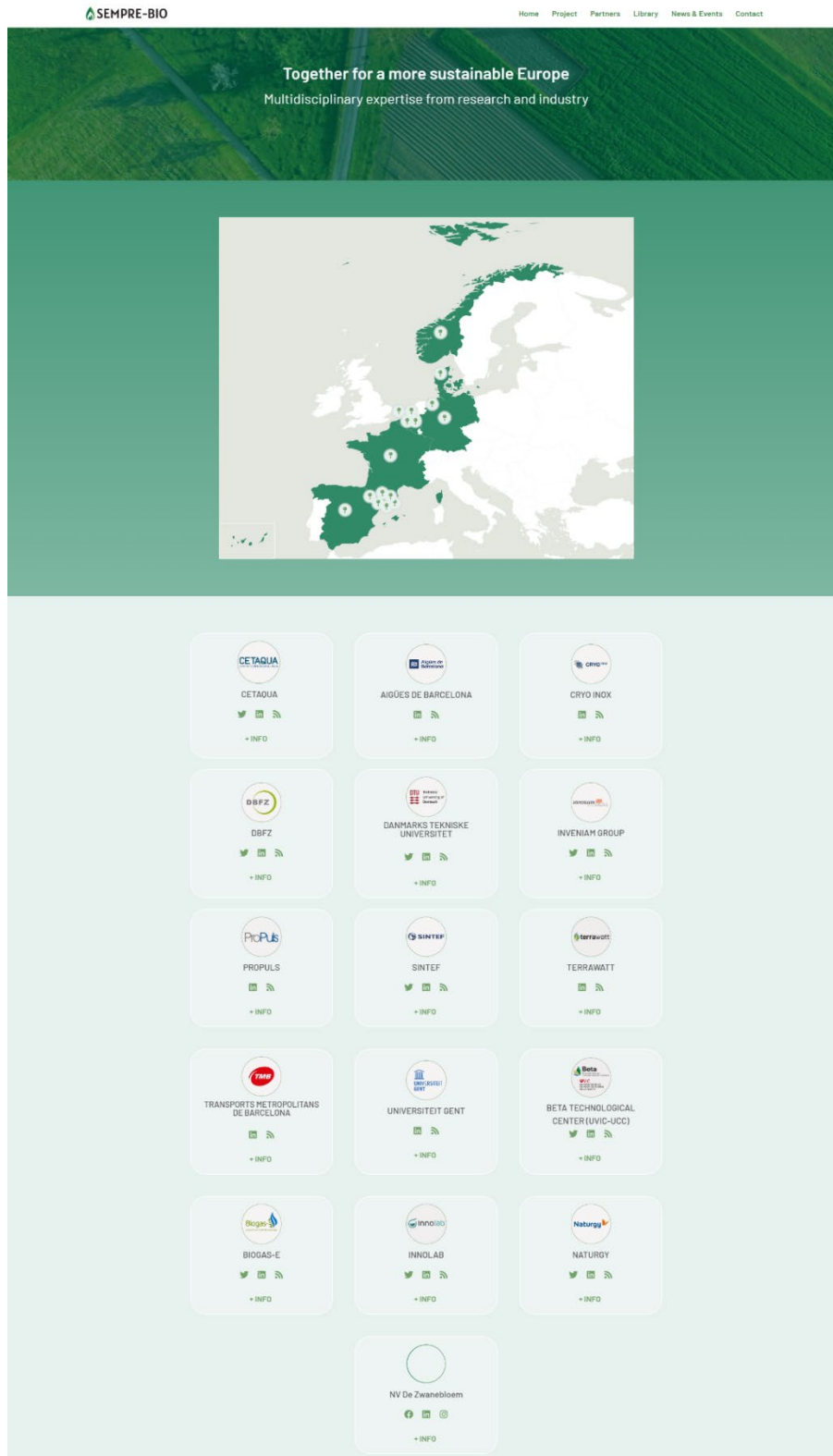


Figure 3. SEMPRE-BIO's website Partners page.

1.4. Library

The library will display different resources from the project to make it easier for the partners and potential stakeholders to be aware of SEMPRE-BIO's brand, such as the Company Identity Manual (CIM), the SEMPRE BIO Logo, the Ppt and Word templates and the fonts. It will also include the public deliverables, the relevant Regulatory Framework with all the legislation that has been published so far. This section will be continuously updated to keep up to date.

SEMPRE-BIO Home Project Partners Library News & Events Contact

SEMPRE-BIO Library

Dive into the world of biomethane!

Resources

All you need about our project

- Company Identity Manual
- SEMPRE BIO Logo
- Ppt and Word templates
- Fonts

Deliverables

The outcomes of our work

Deliverable document name

Deliverable document name

Deliverable document name

Deliverable document name

Regulatory Framework

The legislation we work with

- Green hydrogen - SWD (2022) 230 final**
Implementing the repower EU action plan: investment needs, hydrogen accelerator and achieving the biomethane targets | 18.05.2022
- Renewable gases - COM(2021) 804 final**
Regulation of the European parliament and of the council on the internal markets for renewable and natural gases and for hydrogen | 15.12.2021
- Biogas and Biomethane - Directive(EU) 2018/2001**
Directive (EU) 2018/2001 of the European parliament and of the council on the promotion of the use of energy from renewable sources | 11.12.2018
- Renewable gases -Directive (EU) 2019/692**
Directive (EU) 2019/692 of the European parliament and of the council amending Directive 2009/73/EC concerning common rules for the internal market in natural gas | 17.04.2019
- Reduce Methane emissions - COM(2020) 663 final**
Communication from the commission to the european parliament, the council, the european economic and social committee and the committee of the region on an EU strategy to reduce methane emissions | 14.10.2020
- Low carbon Investment - DIRECTIVE(EU) 2018/410**
Directive (EU) 2018/410 of the european parliament and of the council amending Directive 2003/87/EC to enhance cost-effective emission reductions and low-carbon investments, and Decision (EU) 2015/1814 | 14.03.2018

Figure 4. SEMPRE-BIO's website Library page.

1.5. News & Events

This section will display the latest news of the project which will be related to the progress of the project and the different events attended by the partners.

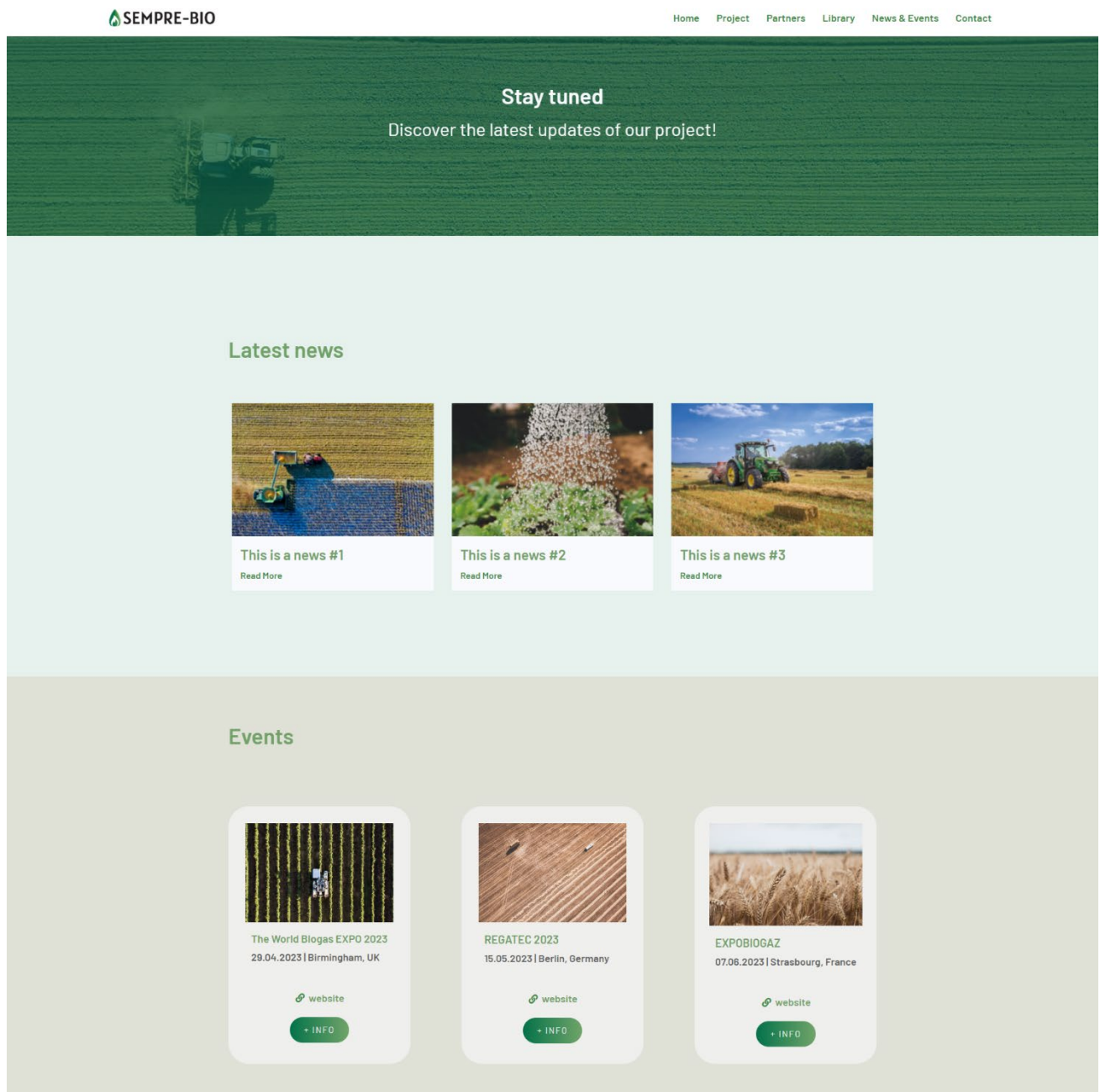
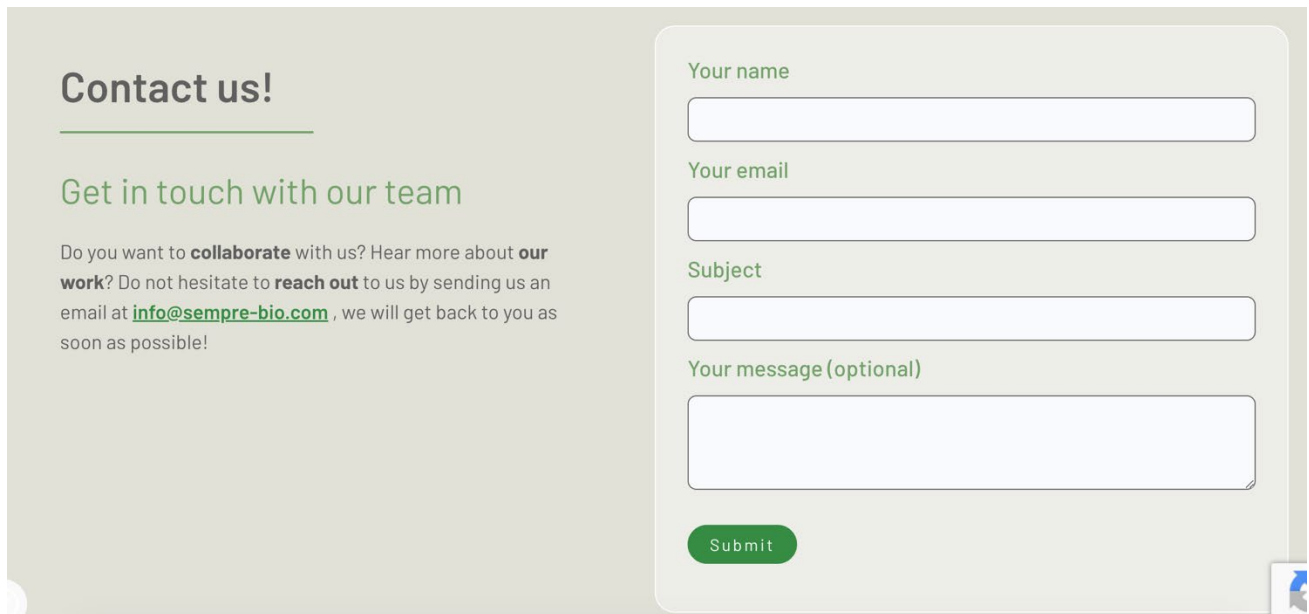


Figure 5. SEMPRES-BIO's website News & Events page.

1.6. Contact

The contact section is made to allow the public to get in touch with the SEMPRE BIO and even collaborate if needed.



The screenshot shows a contact form on a website. On the left, there is a heading "Contact us!" followed by a sub-heading "Get in touch with our team". Below this, a paragraph of text invites collaboration and provides the email address info@sempre-bio.com. On the right, there is a form with four input fields: "Your name", "Your email", "Subject", and "Your message (optional)". A green "Submit" button is located at the bottom of the form. A small social media icon is visible in the bottom right corner of the form area.

Figure 6. SEMPRE-BIO's website contact section.

2. Video

Nowadays, the video format is one of the most effective forms of media for the distribution of a project's activities to a big and diverse audience. The efforts that are being taken to disseminate the information are directed towards a large public audience, as well as communities, expert groups, stakeholders, and end-users, and they hope to create a specific community centred on the project. The video will be in English with a voice over.

The purpose of the video's dissemination is to accomplish the following goals:

- to increase awareness (that is, to make the work of the project known);
- to gain knowledge of the SEMPRE-BIO motivation about the important outcomes obtained.

2.1. The script

The SEMPRE-BIO video has been elaborated based on a script which intends to educate the audience on the current climate urgency and the benefits of biomethane. The script is divided into three parts:

- **Problem:** talking about global warming, temperature increase, climate change and fossil fuels

The problem is first presented by introducing a general statement about climate change and the effects on our environment. We mention a sensationalist statement about the global temperature rise. This is made in order to catch the audience's attention and establish the urgency of the situation.

- **Context:** introducing biomethane as one of the possible solutions for renewable energy

Then, we present Biomethane as a possible solution to fight climate change, how it is produced and the benefits of using it. This is done in an educational manner to permit the general public, that might first hear about Biomethane, to understand in a simple way what is Biomethane.

- **Project:** presenting SEMPRE-BIO

In this final section of the video, we present the SEMPRE-BIO project and how it brings a concrete solution to the problem stated at the beginning of the video. Colours are more vivid, and music is more active. The viewer has the impression of relief and plenitude which is associated to SEMPRE-BIO slogan in the end.

Here as follows, it is the latest version of the script:

"Our planet is suffering. Climate change is caused by harmful human activities and overpopulation, with fossil energy being the largest contributing factor.

In 2021, over 37 billion tons of CO₂ were released into the atmosphere. Scientists agree that CO₂ emissions are the main contributing factor to global warming. We must limit the rise in global temperature to 1.5°C to prevent a spiral of negative events such as the increase of extreme weather events, food and water shortages, loss of entire ecosystems, destruction of habitable land, mass migration, and resource driven conflicts and crises.

We are on the brink of a climate tipping point.

The EU is committed to achieving carbon neutrality by 2050.

We must replace fossil fuels with renewable energies. One promising option is BIOMETHANE.

A renewable and sustainable energy, BIOMETHANE is produced by the breakdown of biodegradable organic materials, mainly organic household waste, industrial and sewage sludge, agricultural waste, manure, and rotation crops.

In short, biogas is produced by natural decomposition, within nature's carbon cycle.

It's up to us to act today - SEMPRE-BIO PROJECT

WE NEED - SEMPRE-BIO

SEMPRE-BIO will contribute to the energy transition by developing and demonstrating innovative technologies to produce clean biomethane.

It will be done in 3 sites, using 3 types of waste:

- *Wastewater*
- *Green waste*
- *And cattle manure*

The biomethane produced will be used for

- *Public transportation*
- *Heavy vehicles*
- *Injected into the grid.*

To offer a clean, alternative fuel for Europe.

Be aware, in just one minute of this video around 72 thousand tons of CO2 emissions have been produced in the world.

Follow the SEMPRE-BIO project to stay up to date on how researchers are finding ways to halt the use of fossil energy.

Every action counts – SEMPRE-BIO”

The video will end with the logos of the different consortium members and the EU disclaimer.

2.1.1. Screenshots

A series of screenshots are taken from the video to illustrate with images the strategy elaborated in order to make SEMPRE-BIO's message understood by the general public. Here is a link to the video which will be available in the webpage: <https://sempre-bio.com/>



Figure 7. Screenshots of the SEMPRE-BIO's video.