Online content report

Del 4.4
Type: Report, Deliverable Title: Online content report

Document Summary

Deliverable Title: **Online content report**

Version: **1.0**

Deliverable Lead: **AGENSO**

Related Work package: **4**

Author(s): **Michail Kaminiaris and Zisis Tsiropoulos (AGENSO)**

Contributor(s): **-**

Communication level: **Public report**

Project Number: **101000496**

Grant Agreement Number: **101000496**

Programme: **AgroFossilFree - Strategies and technologies to achieve a European**

Fossil-energy-free agriculture

Start date of Project: **1st October 2020**

Duration: **36 months**

Project coordinator: **Thanos Balafoutis - CERTH**

Abstract

The current deliverable constitutes the first online content report and demonstrates the website functionalities and content creation, operation and maintenance activities for the AgEnergy platform, complied with the public deliverables of the project. A second updated report on online content will be provided in month 36 of the project, in the framework of D4.6-Online content report (update).

Table of Contents

List of Figures

1. Website

In the context of the project's WP4-"AgEnergy online platform", a website has been developed (**Figure 1**) by AGENSO and can be accessed through the link https://www.agrofossilfree.eu/ using any modern browser (Firefox, Edge, Chrome, and Safari). The website has been launched since February 19th of 2021 and is considered as a main communication and dissemination tool of the project. It includes significant information about the project and its results. More specifically, several information regarding the project's overview, objectives, partners, and workshops, as well as information about news and events of AgroFossilFree. At the time that the deliverable is written, the website is translated and available in all 8 partners' languages (English, Greek, Polish, Spanish, Italian, German, Danish, Dutch), for achieving the maximum impact by enabling the optimum dissemination of the project. Change of language is available on the top right of the website, by selection of the corresponding flag.
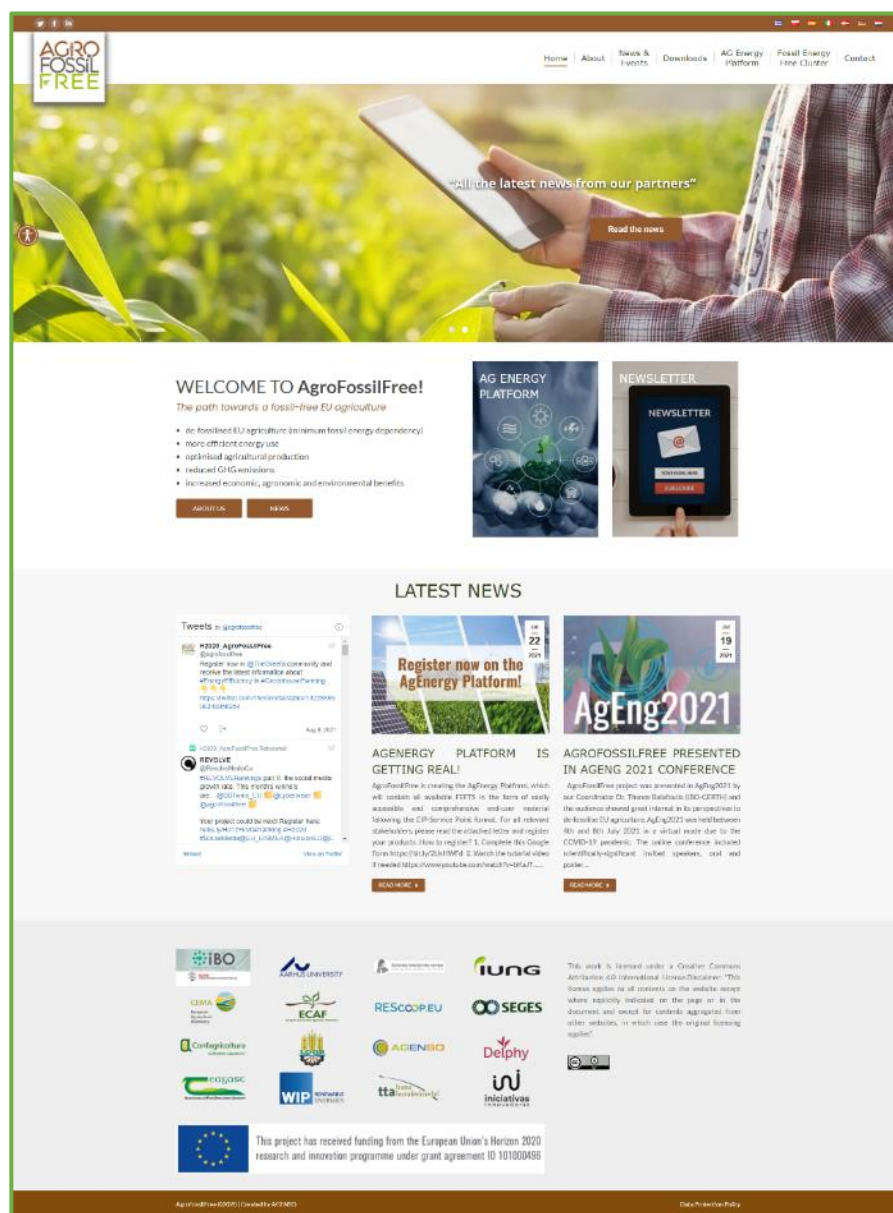
Figure 1. *AgroFossilFree website*

The website's general structure and functionalities are described in detail in the next paragraphs.

1.1.   Home/Landing page

The home/landing page of the website is designed to be user-friendly and easy to navigate (**Figure 2**). The ultimate aim of the structure and content of the Home page is to attract visitors to learn about the project, and consequently play a role in the dissemination and communication of the project. As information related to the project is shared through the website, visitors can get acquainted with the aim of the project and stay updated regarding upcoming events and new related to **Fossil Energy Free Technologies and Strategies (FEFTS)**.

Figure 2. Home/Landing page of the website

1.2.   About

The aim of the current part of the menu is to provide information about the overview of the project, its objectives, partners, and structure, as well as significant figures and information about AFF workshops. More specific details about the sub-menus are provided below.

1.2.1. Overview

The aim of the current sub-menu (**Figure 3**) is to provide information about the project's overview, including the main challenges, the definition and categorization of FEFTS, FEFTS examples, and contribution of the project to High Level EU Strategies, such as "EU Green Deal" and "Farm to Fork strategy". In this way, users can familiarize with the project and obtain several general information.

Figure 3. *Overview page*

1.2.2. Objectives

Under this sub-menu (**Figure 4**), users can find information related to the main 5 objectives of the project. More specifically:

➢ Assessment of the current energy status in EU agriculture and identification of factors affecting innovation adoption and diffusion of FEFTS.

- Identification and registration of available FEFTS from applied research results to market solutions and exploration of existing financing tools for de-fossilising activities.
- Collaboration with all relevant stakeholders in thematic groups using interactive physical and online methodologies to produce community-based ideas for fossil-energy-free strategies and technologies integration in agricultural systems in a regional and EU-basis.
- Creation of an AgEnergy online platform with all available FEFTS to be assessed by stakeholders and provision of a Decision Support Toolkit to propose interventions and financing tools.
- Creation of policy guidelines on EU, regional and national basis and communication of them to increase visibility and promote the proposed strategies and technologies in real agricultural activity in the near future.
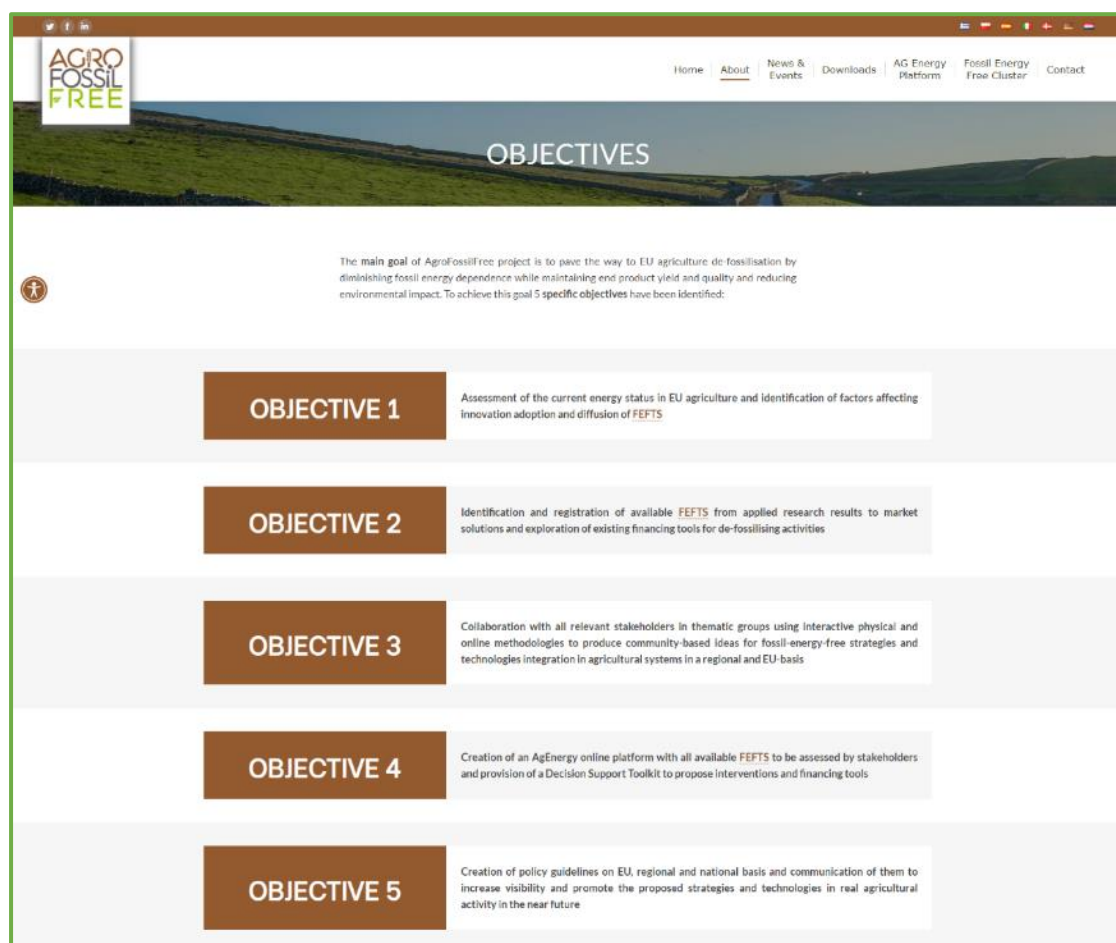
Figure 4. Objectives page

1.2.3. Partners

Under the current sub-menu (**Figure 5**), an interactive map containing the project's partners per country around Europe is available. By clicking on each pin on the map users can select the partners to be displayed by each country. In this way, users can easily find specific information about the partners and contact them directly.
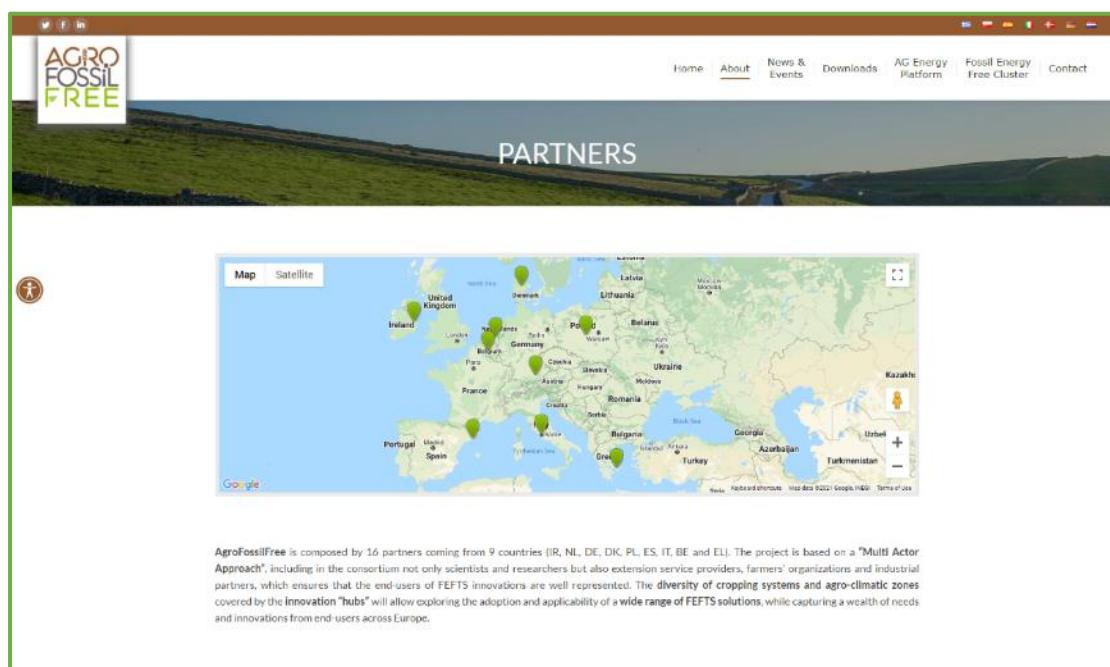
Figure 5. *Partners page*

1.2.4. Project structure

Under the sub-menu "Project structure" (**Figure 6**), users can find the six Working Packages (WPs) of the project, along with a brief description of each one. The first four deal with the core activities of the project, while the other two are overarching (Communication and Dissemination & Management). More specifically, WPs are the following:

➢ WP1: Current energy use status in EU agriculture and identification of factors affecting innovation adoption and diffusion of FEFTS.
➢ WP2: Registry of available FEFTS and financing tools in EU agriculture.
➢ WP3: Interactive multi-actor innovation networking, consultation and development of policy guidelines on FEFTS adoption in EU agriculture.
➢ WP4: AgEnergy Online Platform.
➢ WP5: Dissemination and Communication.
➢ WP6: Project Management.

***Figure 6.** Project structure page*

1.2.5. Figures

Under the sub-menu "Figures" (**Figure 7**), users can find general information and specifications regarding the project, in the form of numbers. This page simplifies the

understanding of the complex project's background, by providing simple to understand facts, such as the number of FEFTS, policy guidelines, and practice abstracts.
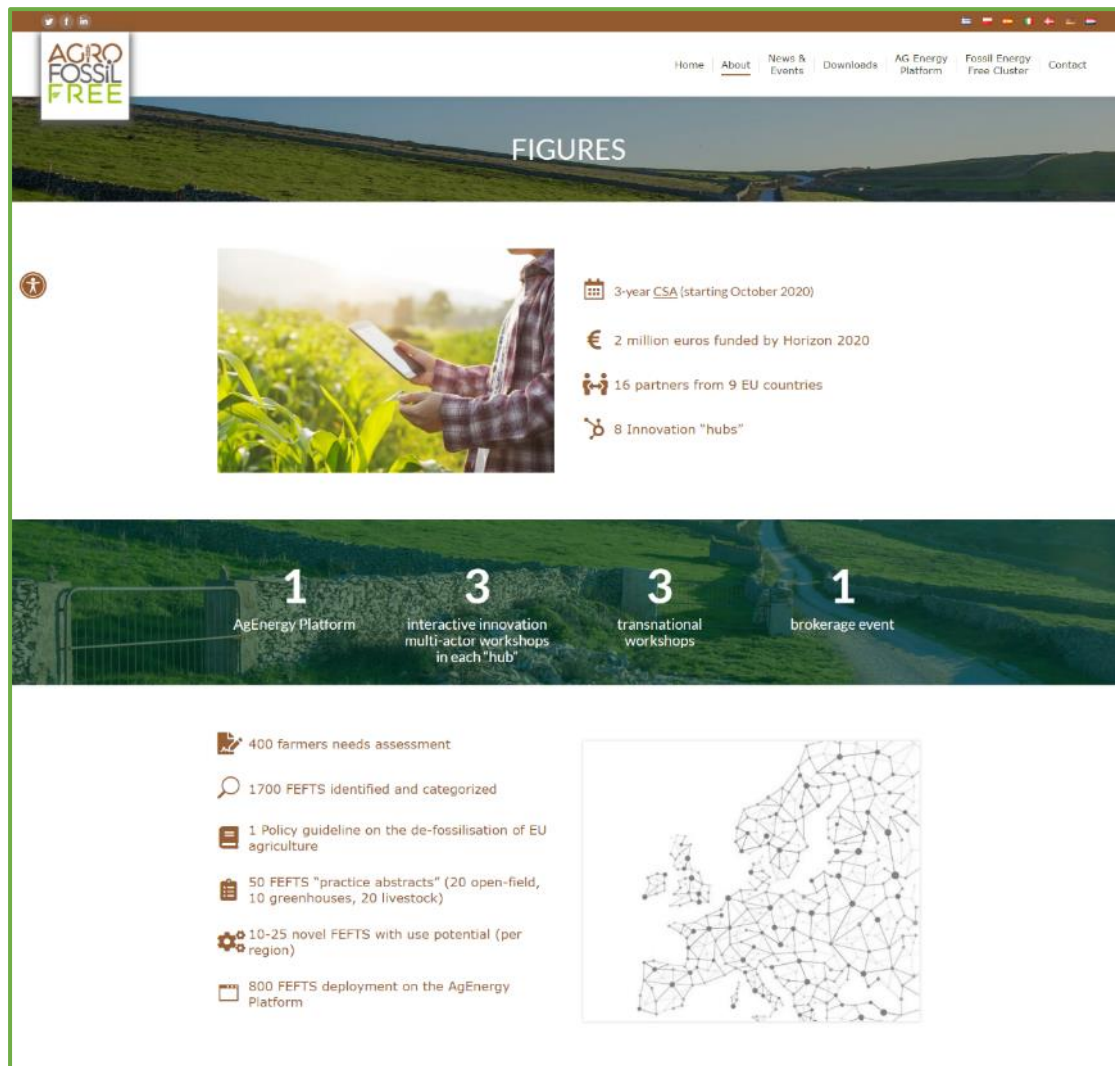
Figure 7. *Figures page*

1.2.6. AFF Workshops

AFF Workshops sub-menu intends to inform users about the different types of workshops that will be conducted during the project, i.e., National innovation multi-actor workshops, Regional workshops, transnational workshops, brokerage event etc. (**Figure 8**).
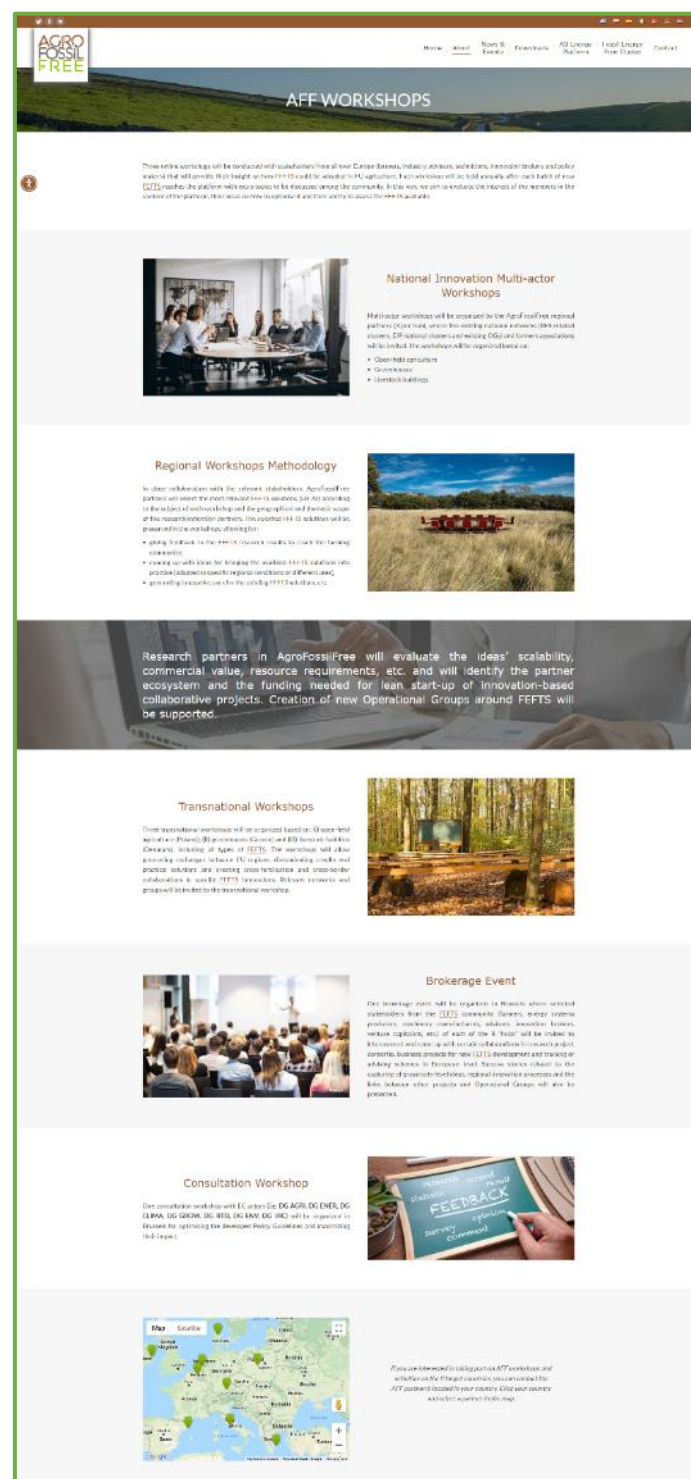
Figure 8. *AFF Workshops page*

1.3.   News & Events

The current menu intends to inform users about the new and events of AgroFossilFree. Under this section, relevant information is posted.

1.3.1. News

Under the current sub-menu (**Figure 9**), posts are generated, aiming to inform users regarding project news. News contain activities related to the project, while the additional

ability to get subscribed to the newsletter of the project is provided to the users, in order to join the AgroFossilFree community.
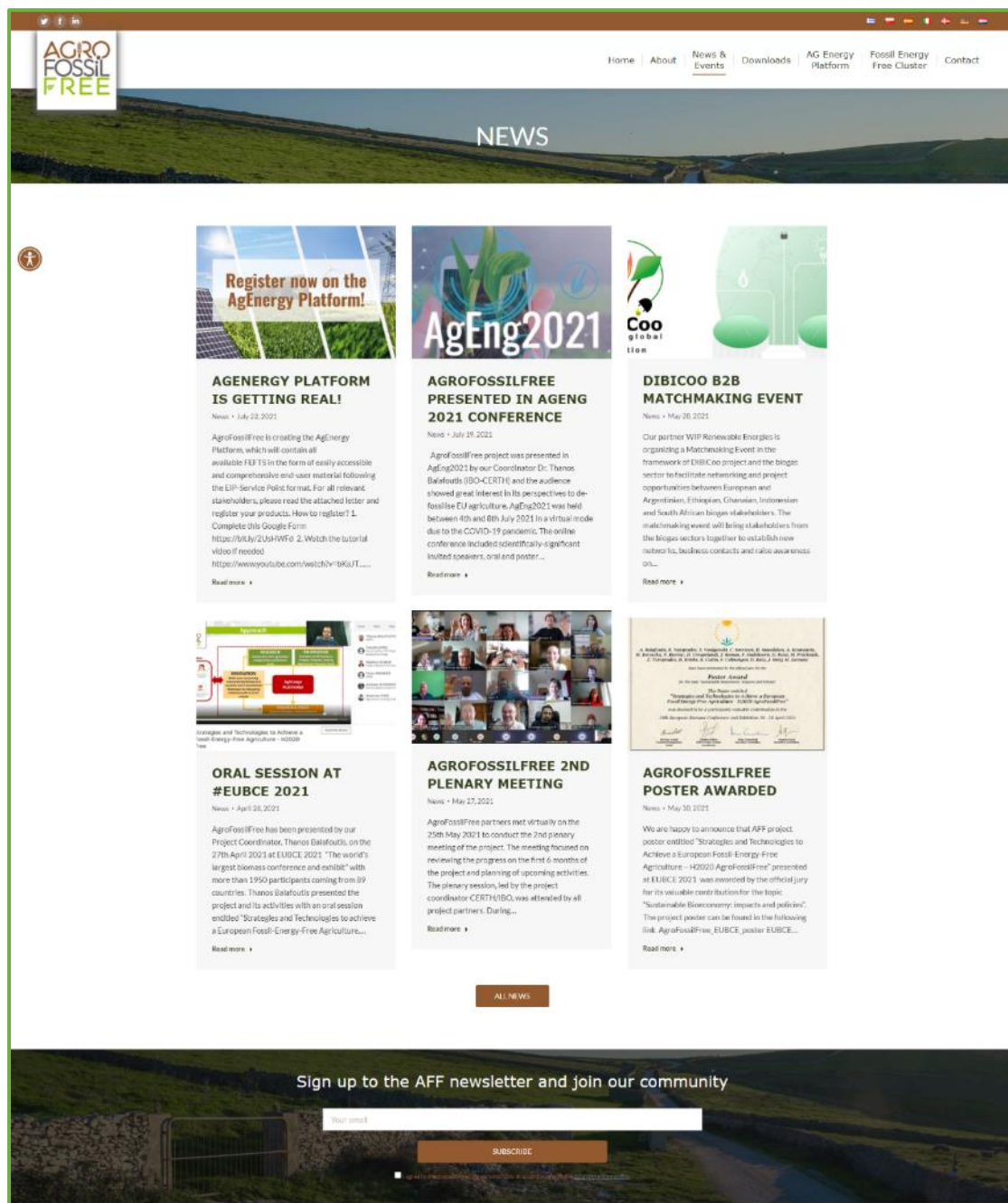
Figure 9. News page

1.3.2. Events

Under the sub-menu "Events" (**Figure 10**), users can find information about the conducted or planned events of the project. Users have the ability to display the calendar according to their willing, with possible option being the monthly format, the weekly format, the daily format and the list.
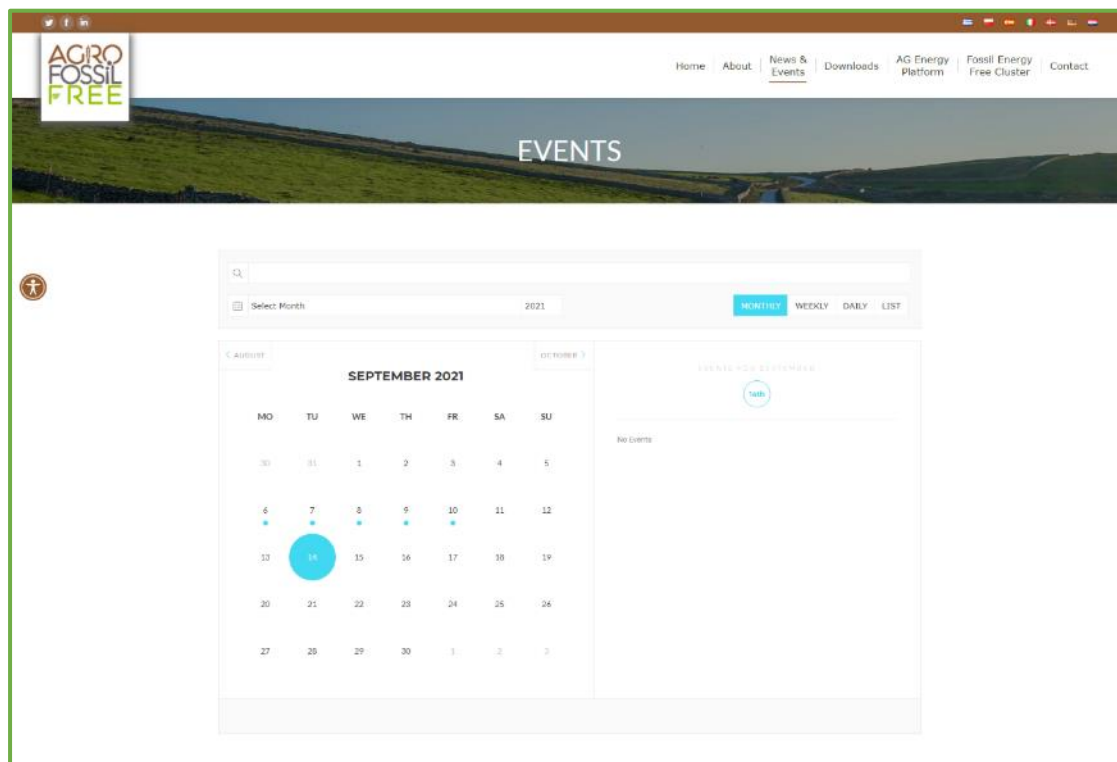
Figure 10. *Events page*

1.4.   Downloads

Using this menu, allows users to have access to uploaded material, which is available for download. More specifically, users can find distinct sub-menus referring to communication material, project's deliverables, practice abstracts, and research papers and articles. Detailed description follows below.

1.4.1.   Communication material

In the framework of dissemination and communication of the project, several promotional material have been developed. An AFF leaflet, an AFF roll-up banner, an AFF brochure, as well as a link to a YouTube video regarding the project are available under the sub-menu "Communication material" (**Figure 11**).
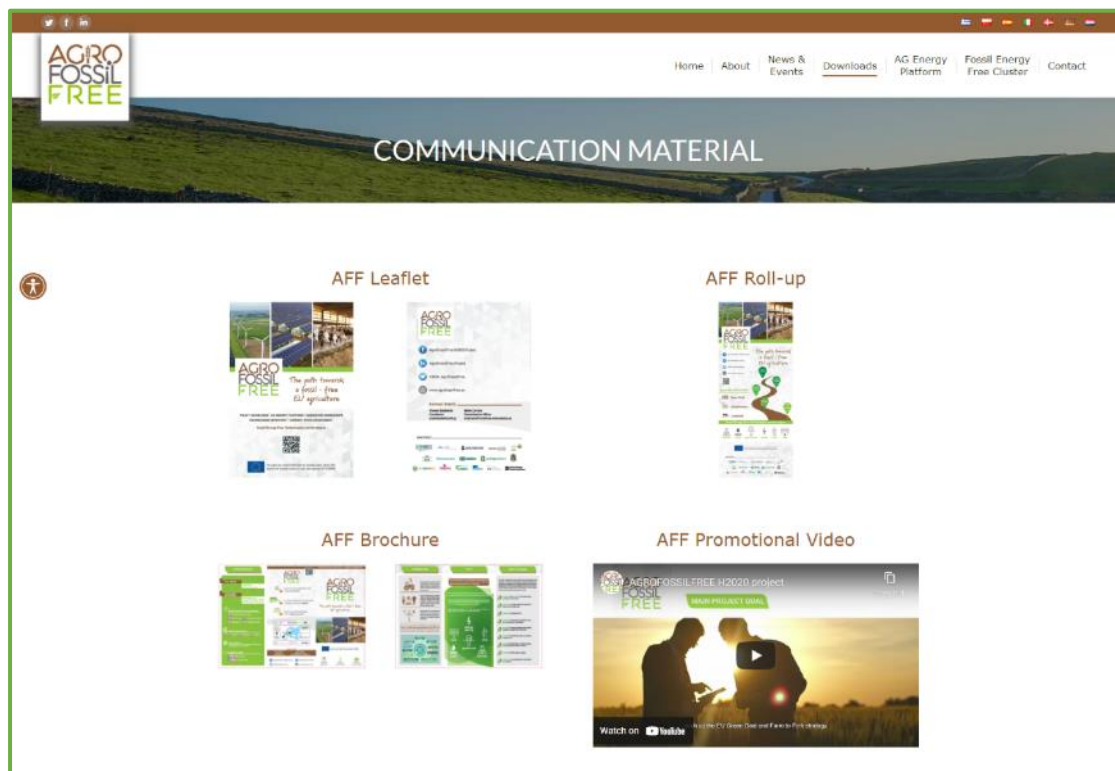
Figure 11. Communication material page

1.4.2. Deliverables

The next sub-menu of the menu "Downloads", is entitled "Deliverables" (**Figure 12**). It contains a list of the public deliverables of AgroFossilFree project. It is in the future aims of the project's consortium, to provide all website's visitors with the public deliverables of the project, in an easy downloadable way, aiming to achieve a broader dissemination of the project's outcomes and results. In the next period, files will be linked with the corresponding part for each WP.
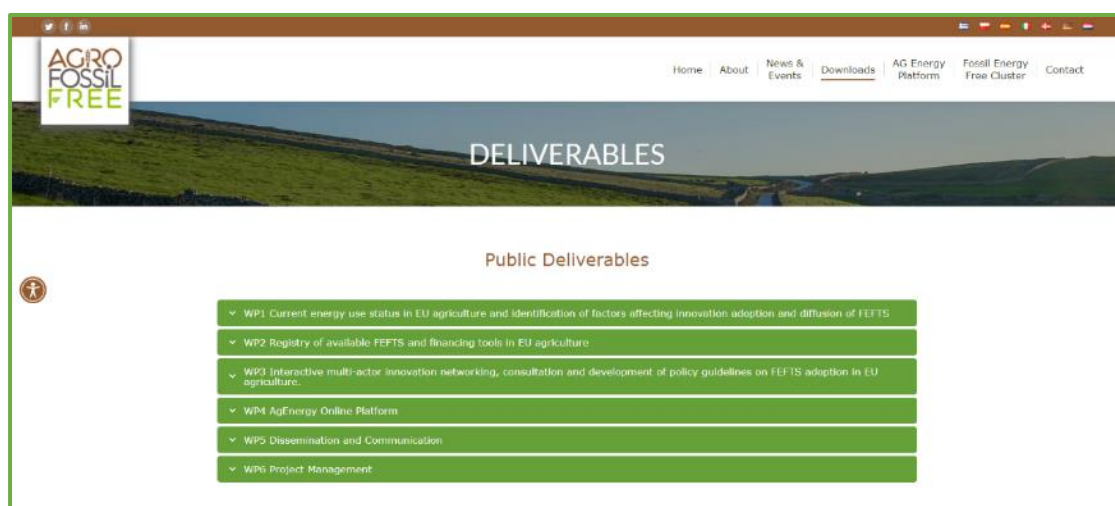
Figure 12. Deliverables page

1.4.3. Practice Abstracts

Under the sub-menu "Practice Abstracts", practice abstracts generated by the project's partners will be provided to users (**Figure 13**). Practice Abstracts will be developed and

added on March 2022, based on the project's Grant Agreement. More specifically, Practice abstracts' generation is included in the deliverables D5.7-"First batch of Practice Abstracts" (M18) and D5.8-"Second batch of Practice Abstracts" (M36), in the framework of WP5.
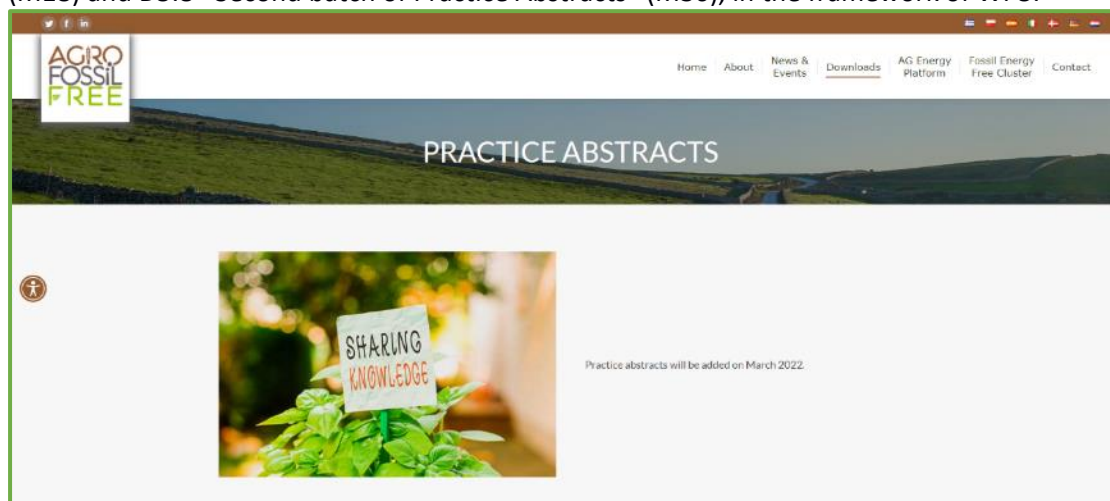
Figure 13. Practice abstracts page

1.4.4. Research papers and articles

Respectively with Practice Abstracts, research papers and article will be generated by AgroFossilFree partners, as the project flow proceeds. Under the sub-menu "Research papers and articles", the aforementioned publications will be uploaded and made available for download by the website's users (**Figure 14**).

Figure 14. Research papers & articles page

1.5. AgEnergy platform

The menu "AgEnergy Platform" of the project's website aims to inform users about the Platform, to provide them with a methodology for FEFTS registration and the link of the repository of FEFTS.

1.5.1. About

The sub-menu entitled "About" (**Figure 15**), includes significant information related to the AgEnergy Platform, such as the target for the number of uploaded FEFTS, and the benefits for the stakeholders that will use the platform.
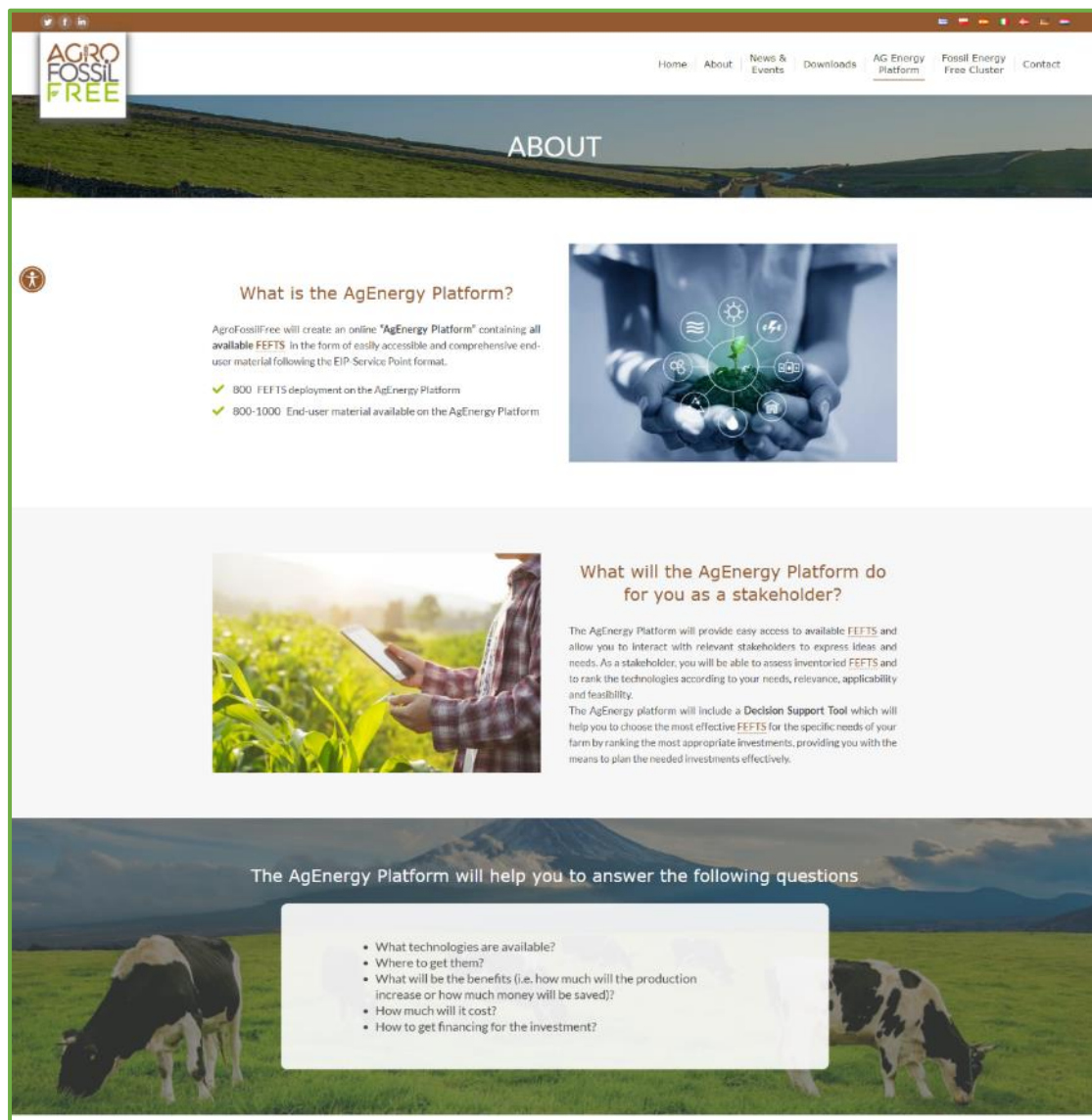
Figure 15. *About page/AgEnergy platform*

1.5.2. Methodology for FEFTS registration

Under the sub-menu "methodology for FEFTS registration" (**Figure 16**), users can have access to detailed instructions regarding the methodology for FEFTS registration, the steps and the possible categorization of FEFTS. Until the time that the current deliverable is written, FEFTS registration has been conducted by using a Google Forms questionnaire, as an online repository, prior to the release of AgEnergy Platform. As a result, the existing methodology refers to instructions for the registration of FEFTS via the questionnaire. As of the time that AgEnergy Platform will be launched and publicly available, the methodology content will be updated, aiming to provide users with upgraded instructions for the registration of FEFTS in AgEnergy platform.
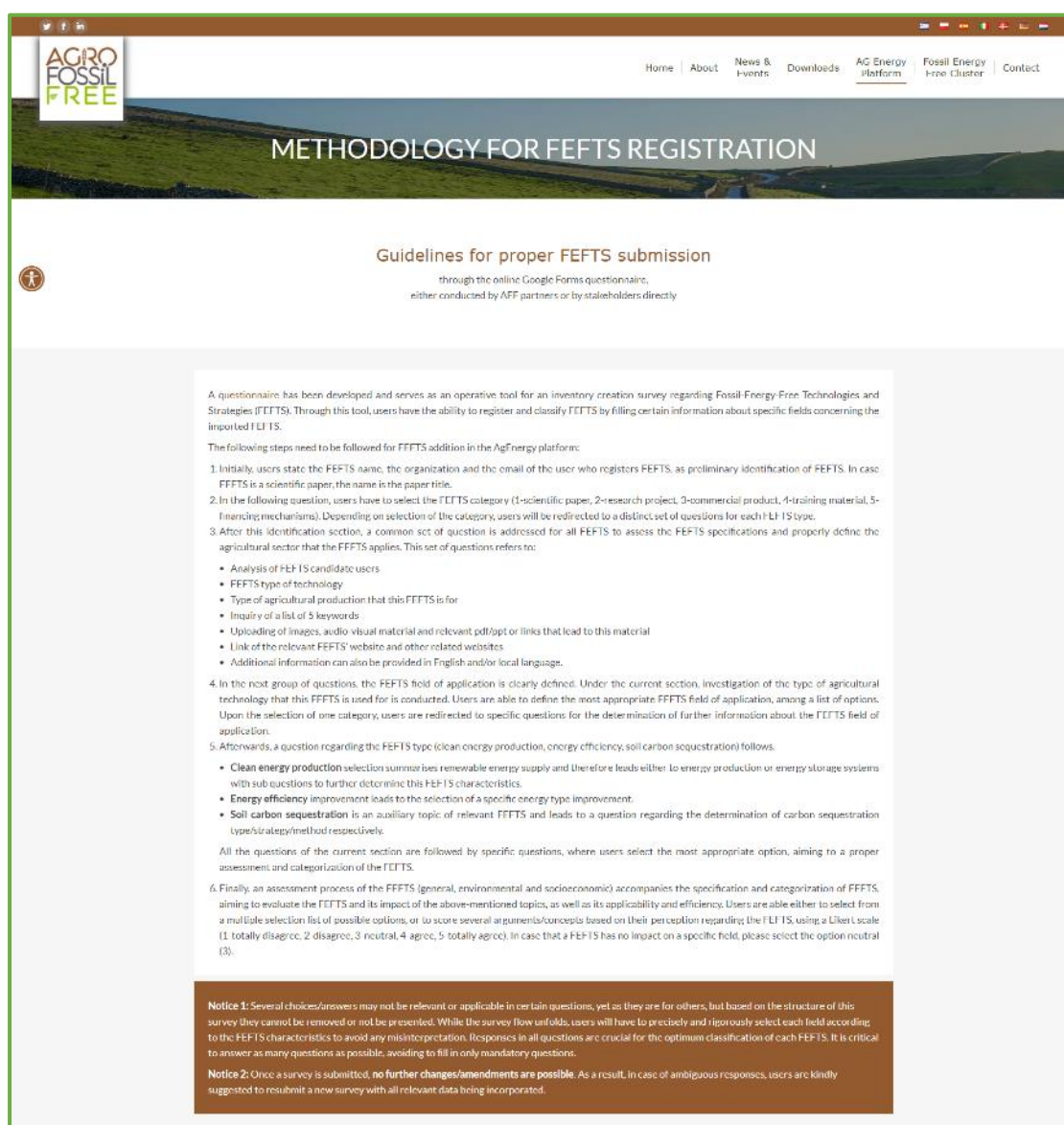
Figure 16. *Methodology for FEFTS registration page*

1.5.3. Survey for FEFTS registration

Respectively to the previous sub-menu, the sub-menu "Survey for FEFTS registration" redirects to the developed online Google questionnaire. As of the time that AgEnergy Platform will be publicly available, the current sub-menu will be redirecting users to AgEnergy Platform.

1.6.   Fossil Energy Free Cluster

The menu "Fossil Energy Free Cluster" aims to demonstrate the cluster that has been created between 6 H2020 projects (including AgroFossilFree), in order to establish collaboration and promote the developed technology solutions to potential stakeholders/end-users in a common way. All 6 projects have been funded under FNR-06 A and B and LC-SC3-ES-3-2018/2020. The current website menu constitutes of 3 main sub-menus, more specifically, Goals, Members and Activities that are described in detail below.

1.6.1. Goals

The sub-menu "Goals" (**Figure 17**) includes information about the Cluster, with details about the collaboration and the focus area of the cluster. Events, success stories, insights, workshops and knowledge are some of the aforementioned focus areas.
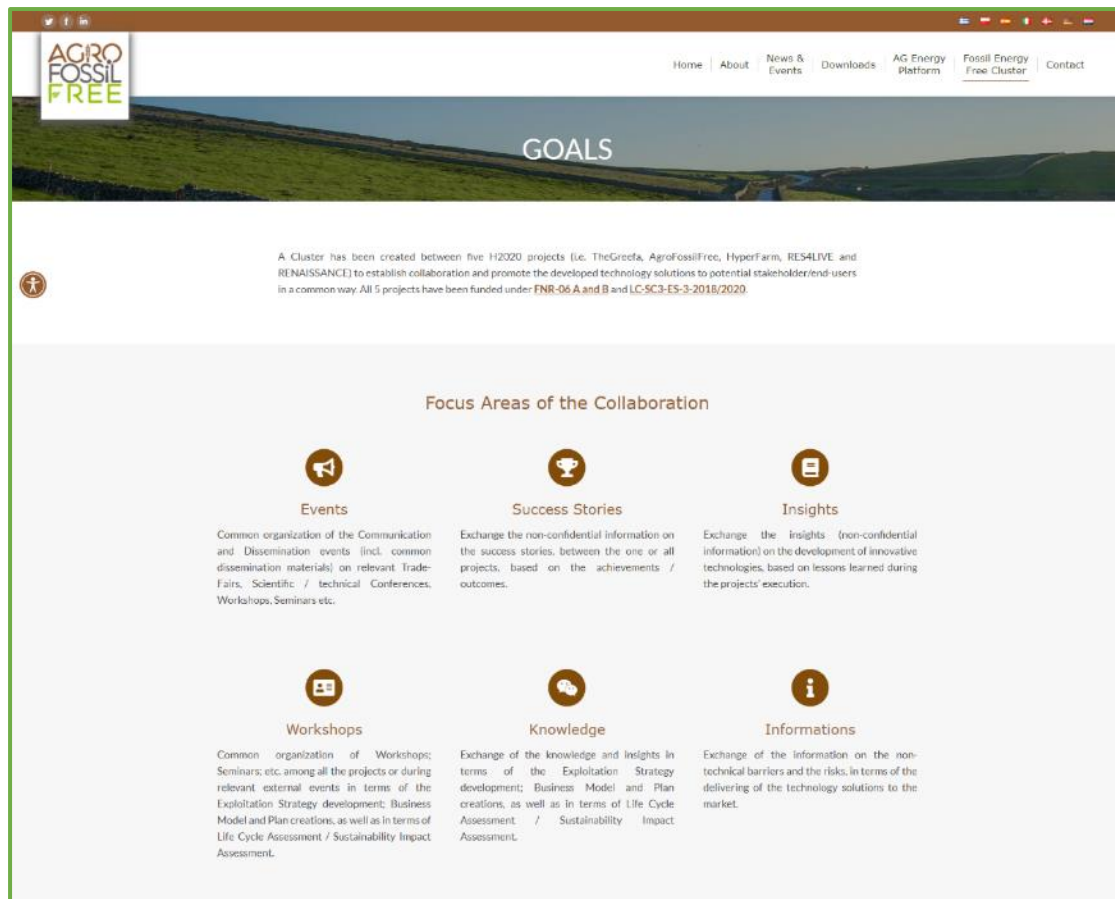
Figure 17. *Goals page*

1.6.2. Members

Under the "Members" sub-menu, users can access information about the members of the Cluster. A short description of each member is provided, accompanied by the corresponding logo of each project, along with a link that redirects to the official website of each member (**Figure 18**).
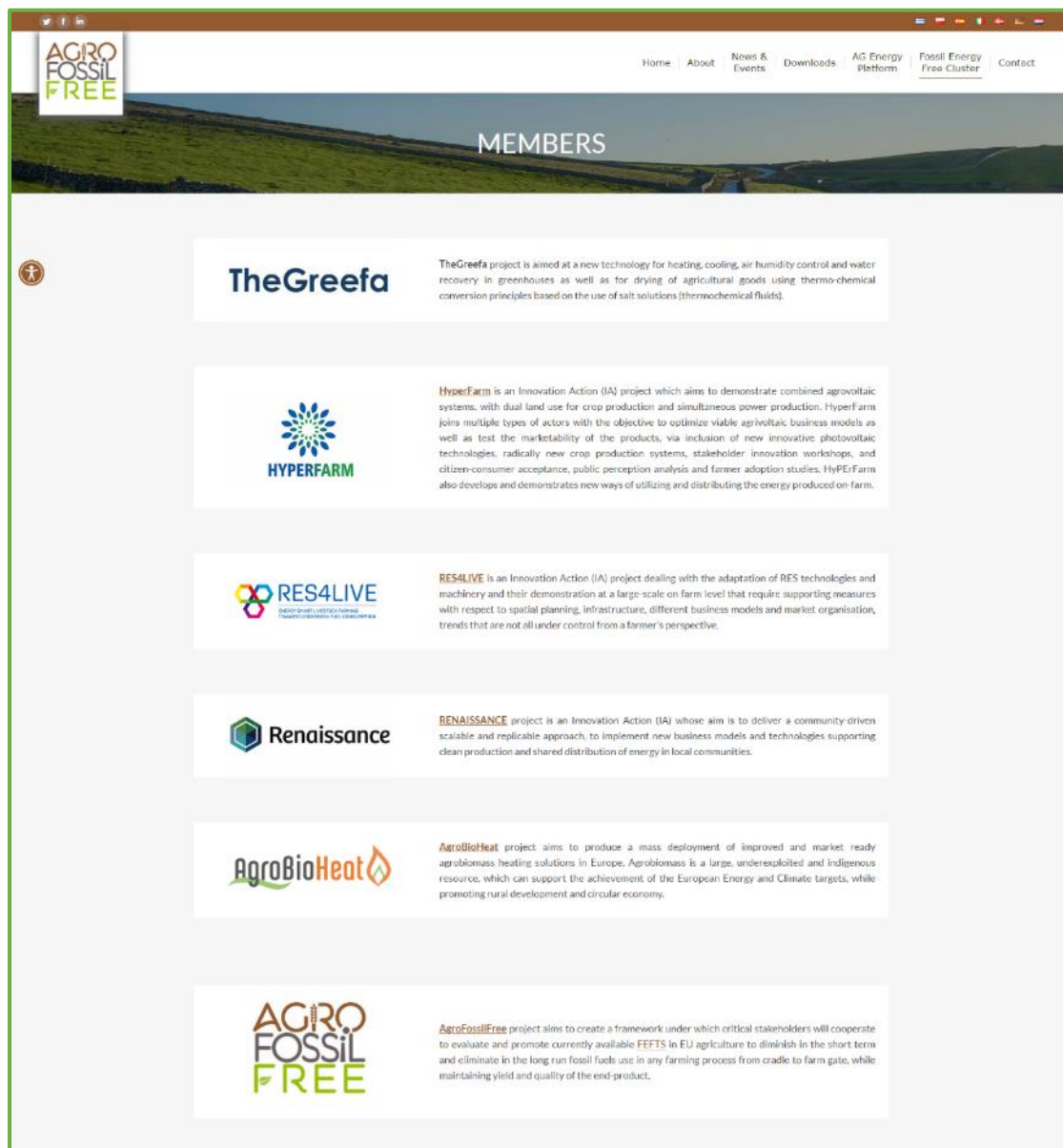
Figure 18. Fossil Energy Free Cluster's Members page

1.6.3. Activities

Under the sub-menu "Activities" (**Figure 19**), the dissemination and communication of cluster's results are presented, providing users with an overview of recommendations, identifications, and networking based on the aforementioned results.
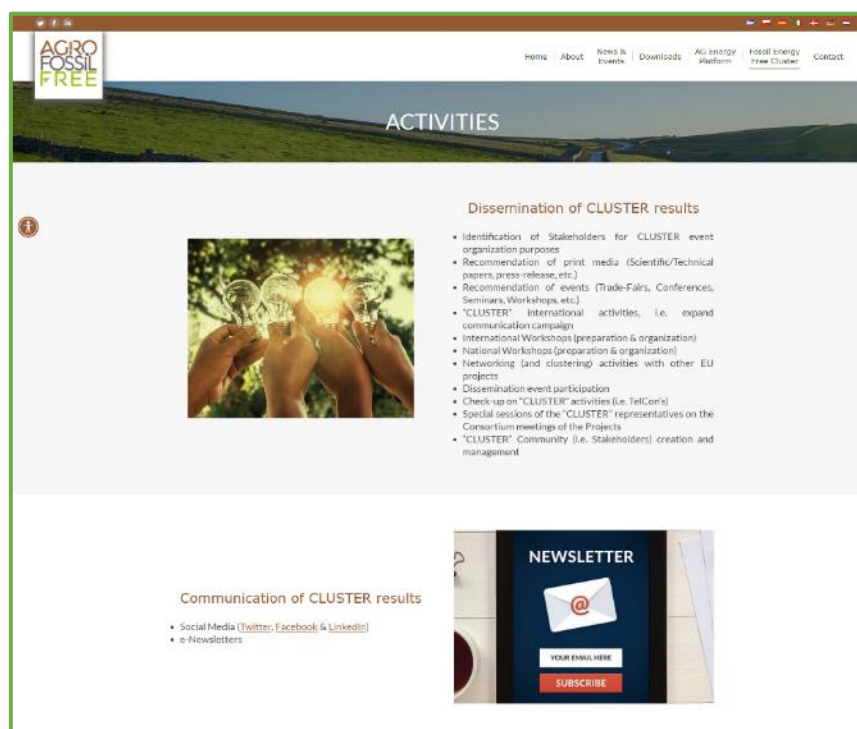
***Figure 19.** Fossil Energy Free Cluster's activities page*

1.7.   Contact

The last menu on the AgroFossilFree website is entitled "Contact". It includes two distinct sub-menus, more specifically "Contact" and "Links". The 2 sub-menus are described below.

1.7.1. Contact

"Contacts" sub-menu (**Figure 20**), includes information about the project coordination, and the dissemination manager of the project. In the current sub-menu, a form is also available for users, in order to contact the consortium, by sending a message.

***Figure 20.** Contact page*

1.7.2. Links

"Links" is the last sub-menu of the "Contact" menu (**Figure 21**). It includes an elaborate list with links to EU Organisms and Initiatives, as well as other related EU projects, accompanied by a short description for each one.

Figure 21. *Links page*

2. AgEnergy platform

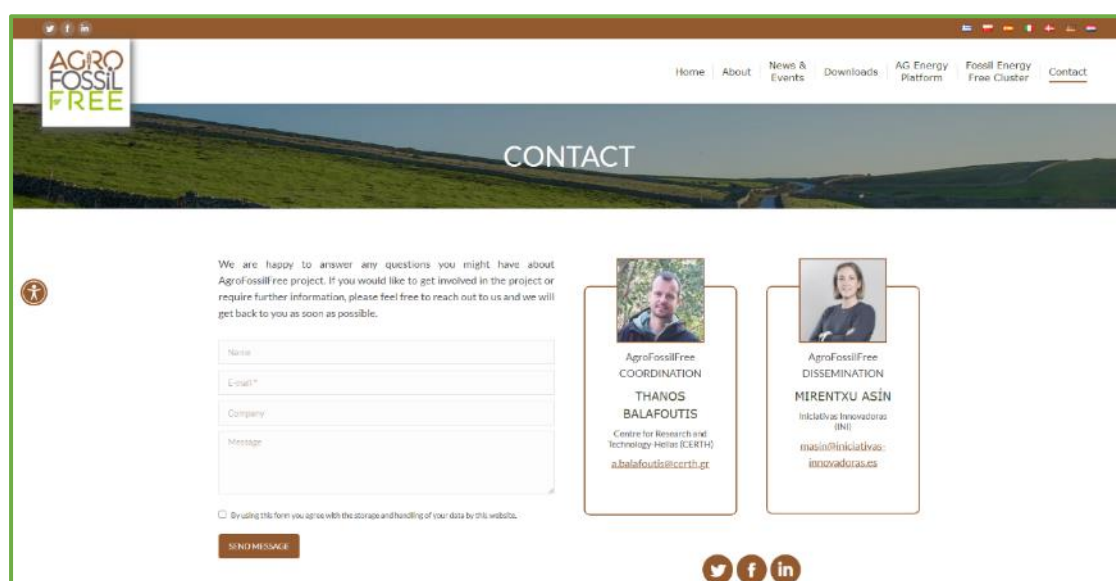AgEnergy platform is an interactive tool, developed for accessing a variety of FEFTS solutions, assessing them, and submitting new ones. Browsing among FEFTS about clean energy supply, energy efficiency, and soil carbon sequestration is possible. FEFTS are divided in 5 categories, which are the following:

- Scientific papers
- Research projects
- Commercial technologies
- Training materials
- Financing mechanisms

AgEnergy platform is freely accessible in https://platform.agrofossilfree.eu/ for all users. The platform's menu constitutes of three distinct sections, more specifically, Home, Instructional video, and Browse FEFTS solutions. The Home page is described in detail in paragraph 2.1 of the current document. The Instructional video menu will host -shortly after the platform's release- videos in different languages regarding the use of the platform as a tool to search and share fossil free energy technologies and strategies for defossilizing the agricultural sector. The menu entitled Browse FEFTS solutions is practically the search results page of the platform, without any preselected filtering, as it would be in case of navigation in the pages of the platform and applying specific appropriate selections.

Furthermore, on the top right side of the platform, language selection is available. At the time that the current deliverable is written, the AgEnergy platform is available in English. However, during the upcoming period, all necessary actions will be conducted, aiming to provide the tool with multilingual functionalities. Available languages will be all AgroFossilFree's partners' languages, more precisely Greek, Polish, Spanish, Italian, German, Danish, and Dutch. Additionally, next to the language selection, the Log in button is available (**Figure 22**). Logged in users have the ability to register new FEFTS in order to contribute in the platform's content. New registrations are subjected to evaluation by AgroFossilFree's consortium regarding their quality, validity and completeness before being officially published on AgEnergy platform. A search bar is also available on the homepage of the platform in an easily accessible part of the page in order to facilitate search process, providing all users with the ability to directly search for a specific topic of their interest.

2.1. AgEnergy Home/Landing page

The home/landing page of the platform provides users with 3 menus. More specifically, Home menu, Instructional video menu, and FEFTS menu as previously mentioned (**Figure 22**). In the home menu, users can select a category, among the 5 aforementioned, in order to search for FEFTS using the navigation pathway by selecting the appropriate categories based on the desired result of the query.

The homepage of AgEnergy platform is designed aiming to operate as a user-friendly interface, where different types of stakeholders, such as farmers, farmers' associations, energy generators, energy suppliers etc. have access to high-end innovative technologies and strategies.
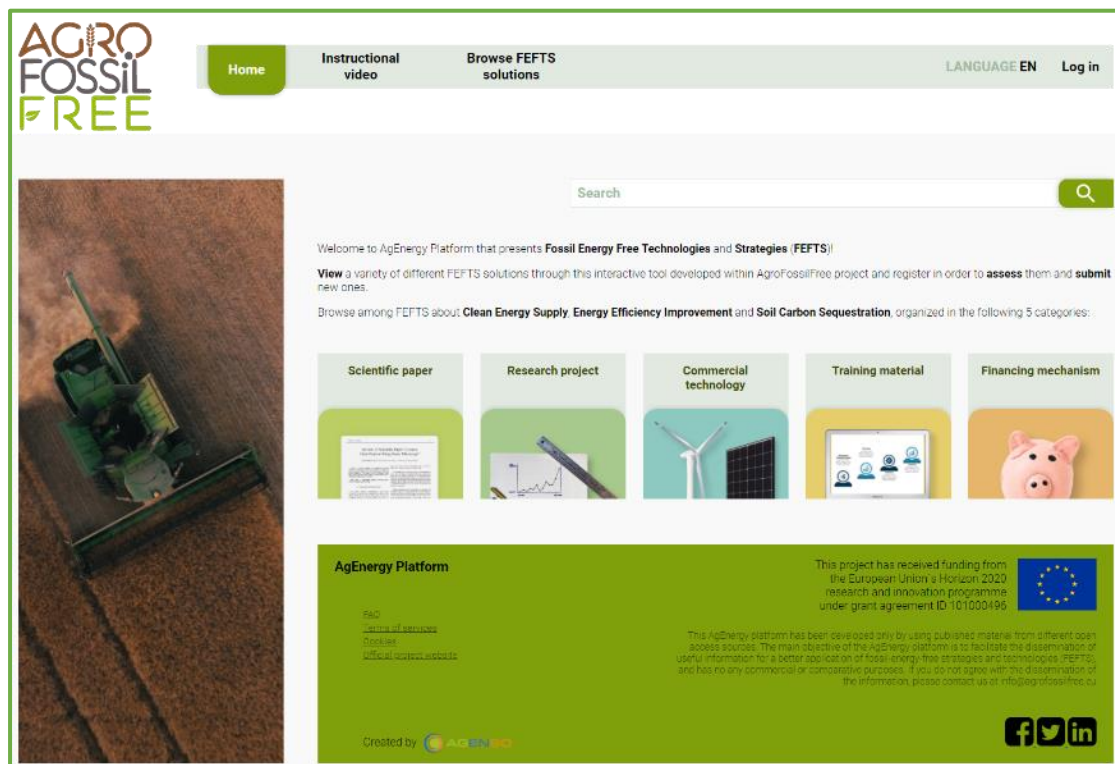
Figure 22. *AgEnergy platform's homepage*

2.2.   Search results page

The search results page (**Figure 23**) is either reachable by navigating from the home page and selecting appropriate categories, or by directly selecting the menu "Browse FEFTS solutions" from the home page's bar. Search results page enables customization of search through a wide range of filters displayed on the left side of the webpage. The aforementioned filters are designed and structured enhancing an interactive approach, where a certain selection leads to the opening of filters with the corresponding possible subcategories. This allows users to instantly modify their query by adjusting the appropriate fields and respective values. Additionally, if the inactive fields would not disappear, the high number of possible opened filters in all categories, would now allow a user-friendly experience. This constitutes the second reason for selecting the "open-close" interactive functionality for the filters' deployment.

Sorting is also possible (by newest, by oldest, alphabetically (A-Z), alphabetically (Z-A)), while the number of results displayed based on each time's query are shown on the top right side of the webpage. A pagination is additionally used for limiting the number of results displayed per page, aiming to ensure a user-friendly navigation. The number of pages is displayed at the bottom of the webpage.
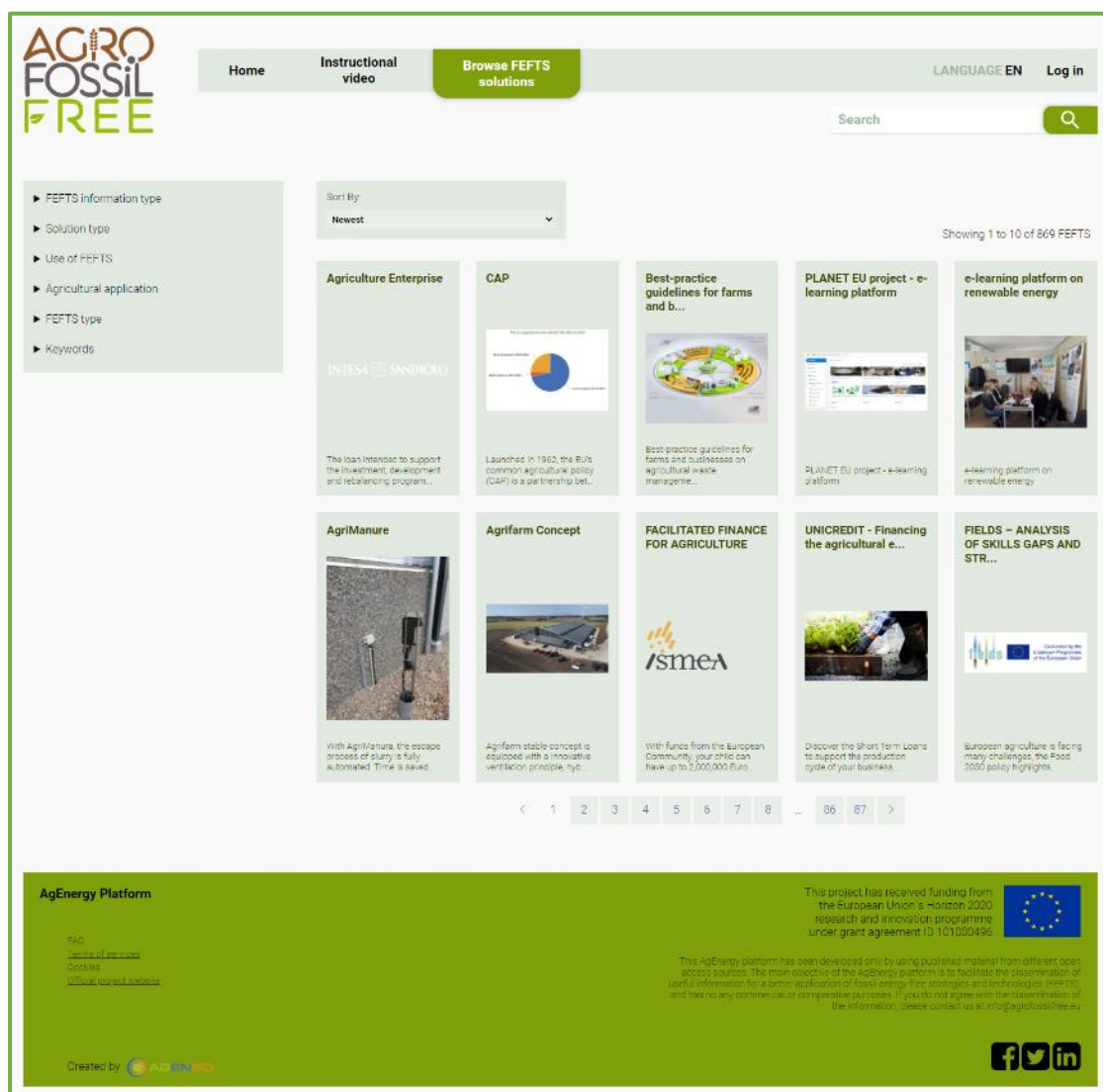
Figure 23. Search results page

2.3. Authenticated user's functionalities

An authenticated user needs to have a profile. Creating a profile is a simple and not time-consuming procedure. After accessing the Log in button, visitors are redirected to the Log in menu, where they can create a profile/register, while existing users can Log in (**Figure 24**). For registering, register button should be selected, and user will be redirected to the Register page (**Figure 25**). Registration requires providing name, email address and setting a password.

Figure 24. Log in page


Figure 25. Register page

Upon registration, user is characterized as an authenticated user. Authenticated users have the ability to edit their profile, to view the FEFTS that they have already provided and finally to provide new FEFTS solutions to be incorporated in the platforms content. All 3 functionalities are accessible in the profile icon on the top right side of the screen after logging in (**Figure 26**).
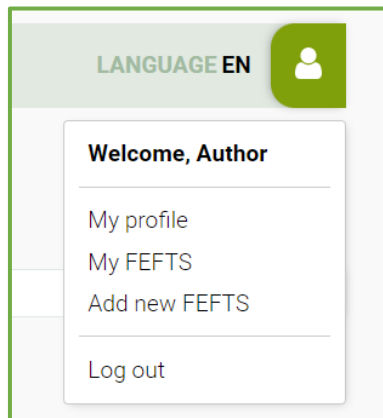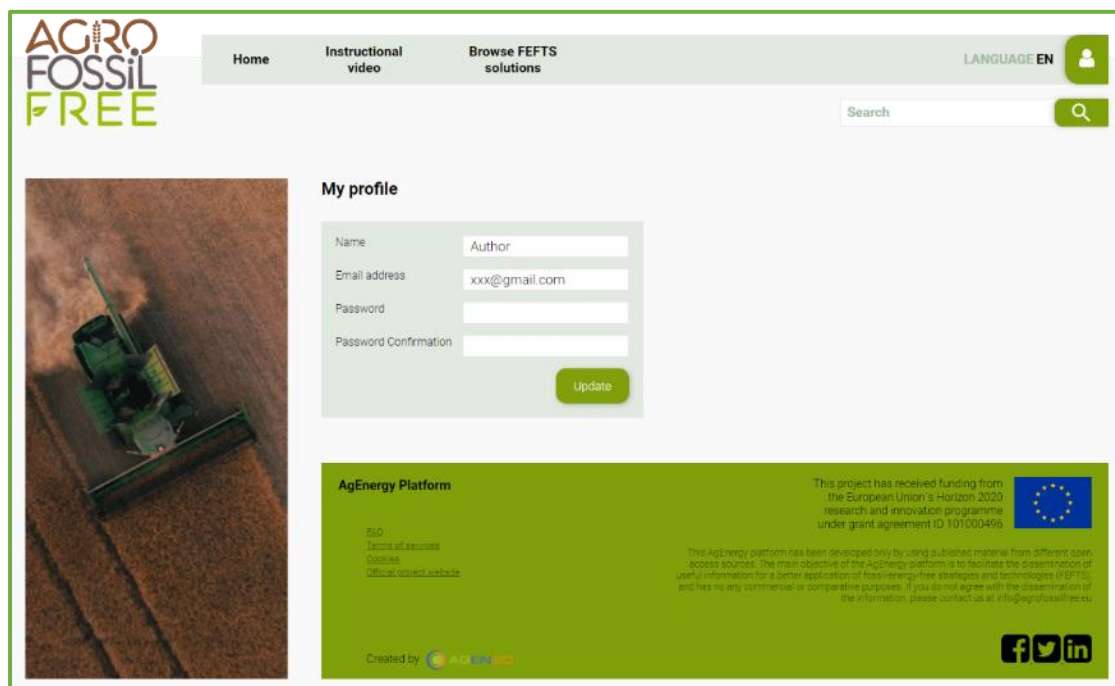
Figure 26. Profile icon

All 3 aforementioned functionalities are described below, accompanied by the corresponding figure.
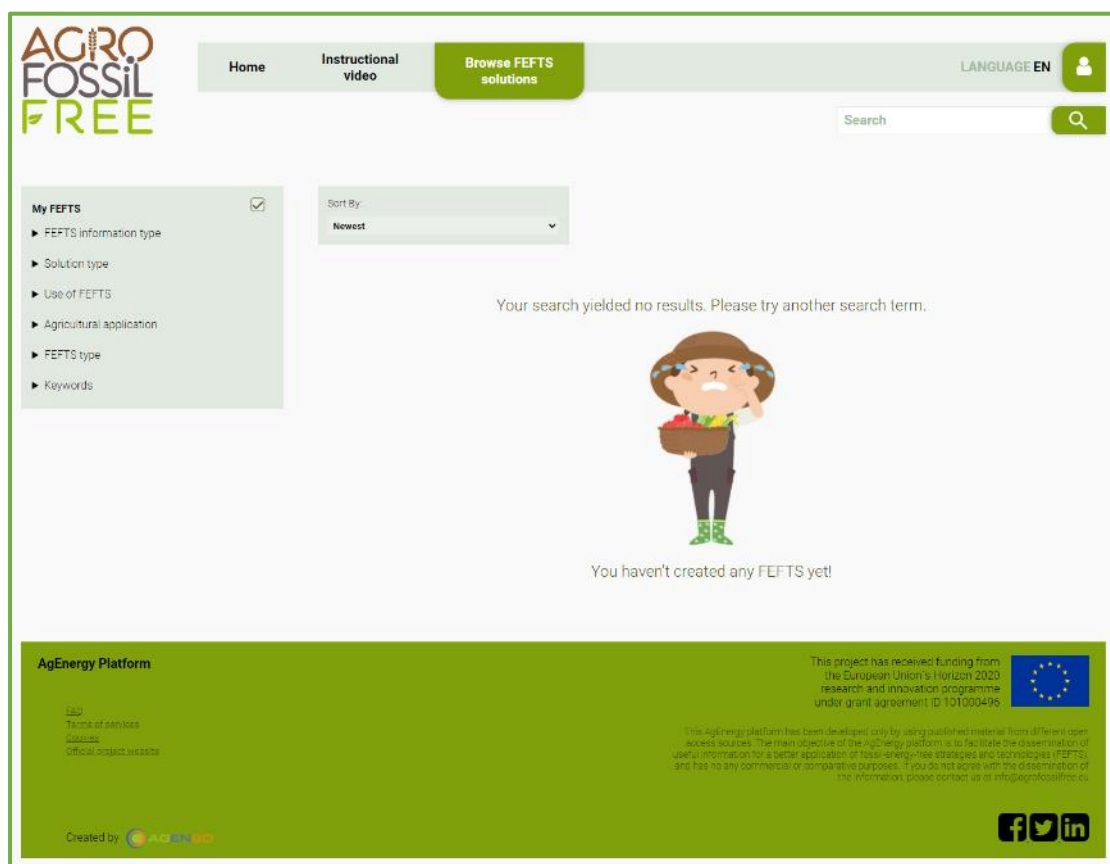
2.3.1. My profile

Editing of profile, allows authenticated users to update the information of their profile (**Figure 27**).

Figure 27. My profile page

2.3.2. My FEFTS

My FEFTS page allows authenticated users to access the FEFTS that they have provided (**Figure 28**).

Figure 28. *My FEFTS page*

2.3.3. Add new FEFTS

Add new FEFTS allows authenticated users to add a new FEFTS solution (**Figure 29**). Several fields are displayed, where users need either to select the appropriate choice from a drop-down menu, or to type the text needed in the corresponding section. The FEFTS can be saved as draft or submitted. Translation is also available for the text input areas -where text can be typed- in case user can provide the text in another of the rest available languages. In general, 4 different tabs need to be filled in order to finalize the entry. More specifically:

- ➢ Information
- ➢ Provider/source
- ➢ Material
- ➢ Assessment

Figure 29. *Add new FEFTS page*

2.4. Maintenance and responsibilities

The hub leaders are responsible to provide translations of the uploaded material in their native language. In addition to that, new or updated material submitted in one of the hub languages will be verified by the hub leader. Additionally, hub leaders will act as translators in due time for providing the necessary static text's translation, in order to allow multilingual function of the platform.

AGENSO is responsible for the technical aspects of the platform, such as the configuration of the server and the maintenance of the server. In order to ensure that all security protocols are up to date, necessary updates on the operating system of the server and the platform

will be performed. Automated periodical backups will also be performed aiming to maintain data integrity and to ensure that no data will be lost or damaged/corrupted.

2.5.   Technical details

The AgEnergy Platform is developed as a Progressive Web Application; thus, it uses modern technologies combined with common ones, such as HTML, CSS and JavaScript to deliver its functionality to potential stakeholders in a fast and reliable way. As a result, visitors can access the full functionality of the platform through any modern web browser, such as Chrome, Edge, Firefox, Safari and/or Opera by navigating to the platform's endpoint (https://platform.agrofossilfree.eu/).

The platform was also designed and developed keeping in mind the majority of screen sizes that visitors may use to access its content. This responsive design technique maximizes the user experience by making the platform accessible by smartphone, tablet, desktop and Smart TVs browsers in a usable and appealing way (**Figure 30**). Best practices were also followed to speed up the loading process of the application, with the minimum possible use of resources.

The basic installation requirements are for the host server to be equipped with the Apache HTTP software, a recent PHP installation (at least version 7.4.26) and a relational database server such as MariaDB (at least version 10.2.41).
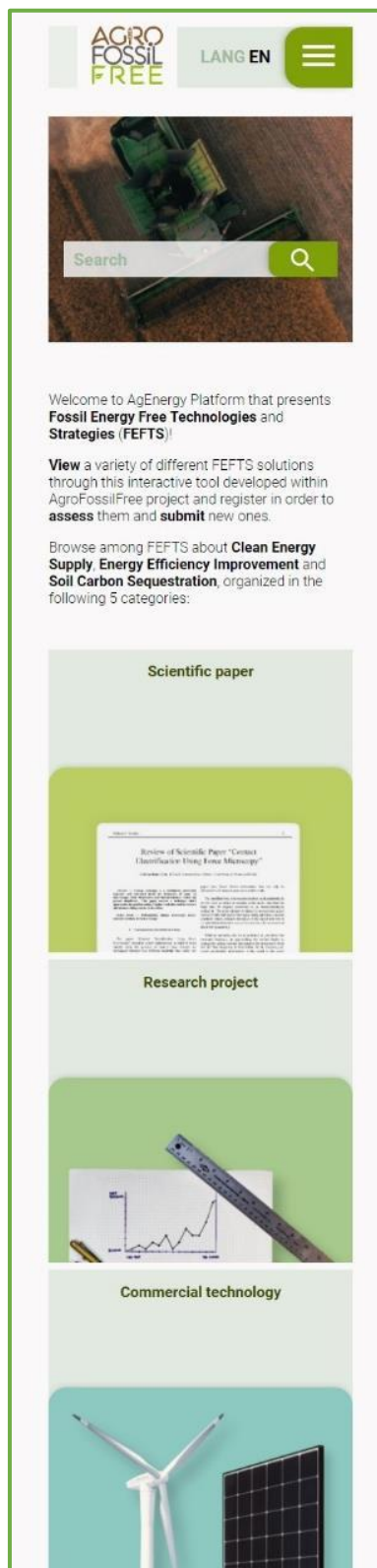
Figure 30. Smartphone view mode of the platform

3. Published FEFTS

As of the end of November 2021, 869 FEFTS solutions have been uploaded on AgEnergy platform (**Figure 31**). The 869 entries contain a sufficient number of different FEFTS

information type. More specifically 489 scientific papers, 110 research projects, 180 commercial technologies, 40 training materials and 50 financing mechanisms. The aforementioned FEFTS are presented in **Figure 32**, accompanied by their percentage in respect to the total number of uploaded FEFTS.

These entries will be assessed during the next period, in order to remove any possible duplicate entry, or irrelevant/insufficient/invalid entry. This process will be carried out simultaneously with any possible addition to the platform's content for its enrichment.
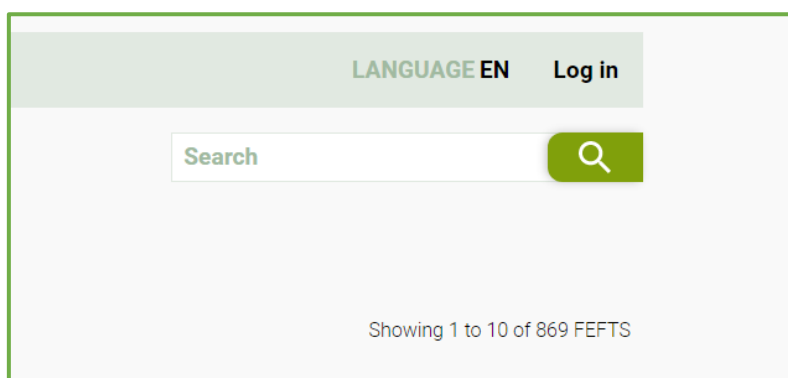
Figure 31. Uploaded FEFTS-total number
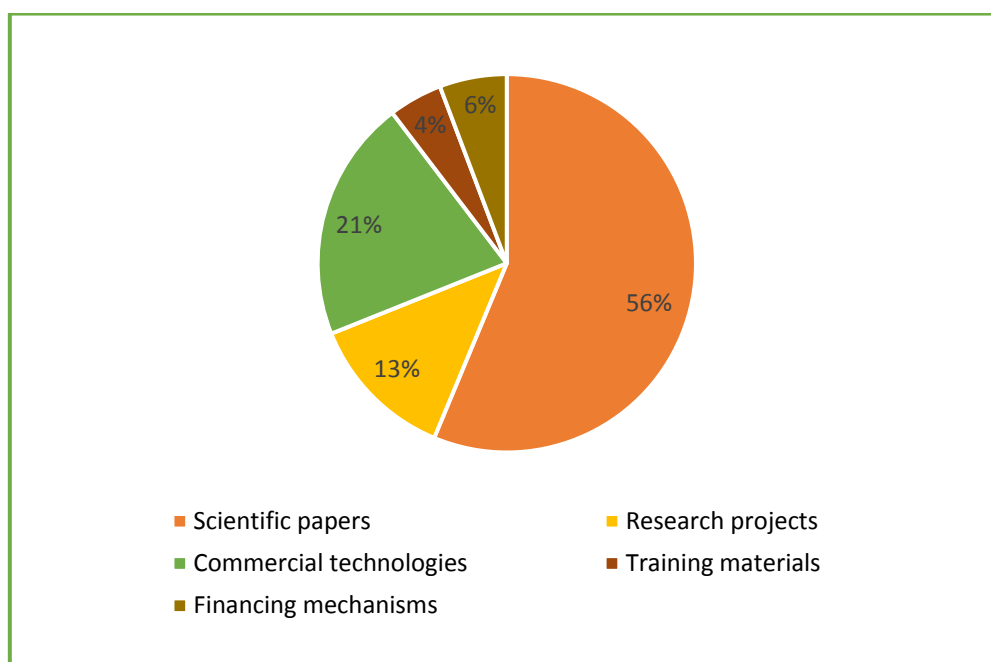
Figure 32. Percentage of FEFTS in each category

4. Conclusions

In the framework of AgroFossilFree's WP4, a website and an online platform have been developed. The website of AgroFossilFree project constitutes one of the main dissemination and communication tools of the project and provides to all interested users the ability to search information related to the project's overview, objectives, partners, and workshops, as well as information about news and events related to AgroFossilFree. It also provides access to dissemination material such as practice abstracts and research papers and articles. Finally, the link of AgEnergy platform is accessible through the project's website. Regarding the AgEnergy platform, a sufficient number of FEFTS has already been published on the platform. The platform itself operates as an interactive tool for searching and registering new FEFTS solutions. As the project flow proceeds, further FEFTS are going to be added to the platform's content, aiming to better knowledge diffusion. Consequently, AgEnergy platform will undergo constant and continuous amendments for its enrichment, aiming to enable users to access a significant number of available FEFTS.