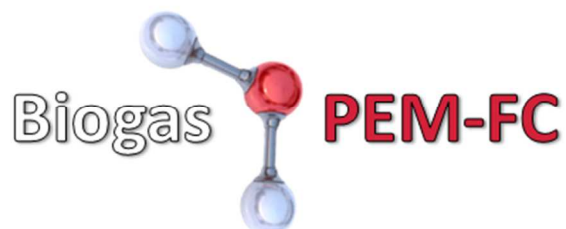


Biogas2PEM-FC

Biogas Reforming and Valorisation Through PEM Fuel Cells

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Deliverable D6.7

Production of a video clip

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Abstract

Production of a video clip is included in the Description of work as an activity that will produce an additional tool for dissemination of project results.

Accordingly, a video clip has been produced and then uploaded to YouTube as worldwide platform for sharing videos granting free access.

Main URL for the video clip is: https://www.youtube.com/watch?v=H7vHfGm_Xcl&feature=youtu.be

Moreover, a link to the project video clip has been included in the project website.

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1. Introduction

Dissemination activities are very important in order to increase impact of project results. When these results are targeted to SMEs, far from scientific audience it is important to find new ways of reaching the public. In this case, it is crucial to consider free-access ways and to increase the audio-visual impact of the presented results. Following this approach, the production of a video clip appears as the best solution for spreading project results among public audience.

2. Video content

Since the video clip is aimed to provide information about project concept and main carried out work and project results, this information was drafted in an easy and understandable manner.

The video starts providing information about olives and olive oil and then reviews main concept from the project (including the consortium composition). Later, each stage of project process is explained and finally, information about the deployment and operation of the prototype is provided.

As for the video making process, several shoots were carried out at the San Isidro cooperative in order to provide a view of the cooperative where the prototype has been implemented. Regarding the speech, a transcription of it can be found in Annex I.

3. Video upload to You Tube

After production, the video was uploaded to You Tube. YouTube is a video-sharing website headquartered in San Bruno, California. The site allows users to upload, view, and share videos, and it makes use of Adobe Flash Video and HTML5 technology to display a wide variety of user-generated and corporate media video. Available content includes video clips, TV clips, music videos, and other content such as video blogging, short original videos, and educational videos.

In order to upload the video clip, the consortium has created a user, "Biogas2PEM-FC EU project" and has then followed the IPR guidelines from the Consortium Agreement in order to protect participating SMEs IPR interest.

Main URL is https://www.youtube.com/watch?v=H7vHfGm_Xcl&feature=youtu.be

4. Conclusions

You Tube is the world largest video platform. Hence, it can be identified as one of the most powerful tools for reaching public audience when disseminating project results. A video clip has been produced and uploaded containing valuable information such as project consortium description, proposed solution for olive mill waste valorisation and main activities carried out.

ANNEX I: Transcription of Biogas2PEM-FC You Tube video speech

Probably the most widely-used oil in cooking, olive oil is pressed from fresh olives. The resulting paste is stirred to release the oil droplets, before being spun in a centrifuge to pull out the oil and water. However, the extraction of olive oil generates huge quantities of wastes that have a great impact on land and water environments because of their high phytotoxicity. Therefore, there is a need for guidelines to manage these wastes through technologies that minimize their environmental impact and lead to a sustainable use of resources. (Aprox 35 seg.)

Within this framework, a group of European SMEs and RTD performers promoted Biogas2PEMFC, a project funded by the 7th European Framework Programme for Research and Technological Development: (13 seg.)

Powercell, a Swedish PEM fuel cell manufacturer. (5 seg. each)

Helbio, a Greek developer of hydrogen fuel cell processors.

Marches Biogas, a British anaerobic digestion engineering.

INGENOSTRUM, a Spanish promoter of renewable power plants

Faeca, a Spanish federation of Andalusian agrarian cooperatives.

LEITAT, a multidisciplinary Spanish technological centre

KTH, the Royal Institute of Technology, located in Sweden

IDENER, a Spanish technological SMEs specialized in systems engineering.

The technology developed in Biogas2PEMFC is composed of three main subsystems: anaerobic digester, biogas reformer, and PEM fuel cell. (10 seg)

The anaerobic digester, which processes olive mill wastes in order to produce biogas. The treated wastes, which can be now directly landfill disposed, can alternatively be used as fertilisers so as to enhance cost-effectiveness of the solution. (15 seg)

The biogas reformer, which accepts the generated biogas and breaks the molecules so as to obtain reformat hydrogen through a series of catalytic reactions in a process known as steam reforming. (15 seg)

Finally, the hydrogen-rich stream leaving the reformer is fed into the PEM fuel cell, which combines the hydrogen molecules with the oxygen present in the atmosphere in order to obtain pure water and electricity, ready to be consumed. (15 seg)

A prototype of this technology has been constructed and validated in the Andalusian Agrarian Cooperative San Isidro, located in Loja, in the south of Spain. Apart from the three main subsystems composing Biogas2PEMFC (anaerobic digester, biogas reformer and PEM fuel cell), the prototype includes all the integrating elements and state-of-the-art control solutions, so as to achieve optimal performance and robustness. (26 seg)

Who knows, maybe one day, the electricity powering your house, has been provided by olive wastes. (7 seg)