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HUGE E-learning Report

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Abstract

The E-learning platform was designed to provide useful information to stakeholders and end-users from the NPA region in the form of short courses. The interactive data intents to cover the information gaps in the internet. The free courses were developed by the HUGE project partners and designed by NUIG. The platform can be found in the HTT hub hosted at the webpage.

A general view of hydrogen as an energy vector from the environmental point of view, its technical evaluation, and the business view are the topics that can be explored in these courses.

The report presents the evaluation of the HUGE e-learning platform obtained during the last months that the platform was live. Despite the short time, more than 50 persons interested in hydrogen technologies have been subscribed to take one of the available courses on the e-learning platform.

E-Learning Platform

As part of the HTT Platform, one of the deliverables deals with the creation and design of interactive short courses than provide useful information to the different hydrogen actors. The developed courses offer stakeholders and end-users novel information about hydrogen technologies and their development that cannot be easily found on the Internet. In this way, we tried to cover some of the information gaps found on the web and universities across the NPA area and Europe.

To be able to design and develop the courses, the consortium joined efforts to build four short courses that deal with hydrogen using a different approach. The information not only goes through the basis of hydrogen as energy vector, but also the techno-economic assessment and business models that can be applied for a case study.

The offered courses are free of any charge and can be accessed only by registering on the HUGE website. The registration information will be used only for internal purposes and to continuing exchanging information with the participants.

The e-learning platform was live at the end of January 2022, and it has been promoted in webinars and seminars hosted by the HUGE project.

HUGE Mini Courses

The courses developed by the HUGE project focus on understanding all aspects involved in hydrogen technologies. Each course is divided into lessons with interactive information and quizzes designed to challenge the users' knowledge.

The courses available in the HUGE e-learning platform are:

- Green Hydrogen Production – Environmental impacts
- Climate Change – The role of renewables
- Hydrogen Infrastructure for Maritime Vessels
- Business Ecosystems for Hydrogen Energy

The courses designed by the HUGE consortium were prepared to offer to the communities of the NPA area the tools to understand the role that hydrogen can have in their local economy.

HUGE E-Learning Platform Metrics

The e-learning platform was live in the middle of January with only one mini-course, since then, another three courses have been available on the platform. Regarding the metric of the platform, each month more than ten new users were registered on the platform, obtaining the highest picks on the months where the HUGE project hosted an event. The results can be observed in the next graph

(Figure 1), where it can be seen that April and June have been the best months in terms of new users, the months where the HUGE project had online and in-person events.

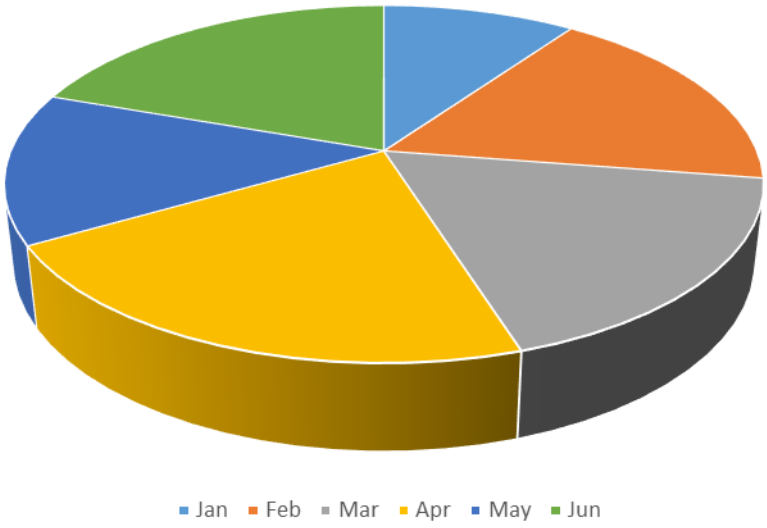

Figure 1. HUGE e-learning platform metrics per month.

These results indicate that the promotion of the platform is crucial for the engagement of stakeholders and end-users, and for increasing the traffic to the website. It is expected that this numbers will gradually increase due to the promotion of the platform and the courses.

Conclusion

The HUGE project has successfully designed and built the e-learning platform. An interactive free of charge platform that host four courses going through the basis of hydrogen as fuel, the impacts of their generation, the techno-economic assessment and the business models that can be applied to a specific case. These courses are very useful because they fill up some of the gaps observed in the web.

Until now, more than 50 people have registered and participated in these courses. The promotion of them is crucial to increase the numbers and produce new materials useful for the NPA end-users and stakeholders interested in hydrogen technologies and renewables.