



THE MOOC OF NEFERTITI IS NOW ONLINE!

The NEFERTITI MOOC is now live, offering a comprehensive introduction to the groundbreaking technologies of NEFERTITI project.

This course is designed to provide a comprehensive overview of the project's mission, and deliver high-quality insights into the innovative approaches and technologies that are being developed within NEFERTITI Project.

The course is available as a playlist on YouTube and as a complete module on UDEMY.

YouTube playlist:

<https://www.youtube.com/playlist?list=PLc88uGJ1RIFUODhS1zCZmgEqQGdgIRYgx>

Udemy platform:

<https://www.udemy.com/course/towards-solar-fuels/>

A promotional graphic for the NEFERTITI MOOC. It features the NEFERTITI logo at the top. Below it, the text "The MOOC of NEFERTITI is now online!" is displayed. The central part of the graphic shows a thumbnail for the MOOC titled "MOOC ON 'TOWARDS SOLAR FUELS - INSIGHTS ON NEFERTITI PROJECT'". The thumbnail includes the NEFERTITI logo, the text "INTRODUCTION TO THE MOOC: TOWARDS SOLAR FUELS - INSIGHTS ON NEFERTITI PROJECT", the name "Oriol Angurell Garreta" and "LEITAT Technological Center", and the LEITAT logo. To the right of the thumbnail is a small video frame showing a man speaking. At the bottom, there are logos for the University of Burgos, LEITAT, and NEFERTITI, along with text indicating funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101022202.

This course has been expertly designed and edited by ICCRAM at the UNIVERSITY OF BURGOS.





STRENGTHENING SYNERGIES

NEFERTITI and LAURELIN: Unite for Advancing CO₂-to-Fuel Innovations



NEFERTITI and LAURELIN projects are working **toward the advancement of CO₂ conversion technologies for renewable fuel production**, thus contributing to the mitigation of climate change and the reduction of greenhouse gases emitted into the atmosphere.

More specifically:

- **NEFERTITI** focuses on photocatalytic processes to produce solar fuels such as ethanol and long-chain alcohols.
- **LAURELIN** specializes in optimizing CO₂ hydrogenation for the renewable methanol synthesis





STRENGTHENING SYNERGIES

NEFERTITI, PhotoSINT, and Photo2Fuel Cooperate towards Sustainable CO₂ Valorisation



NEFERTITI, PhotoSINT and Photo2Fuel projects are working on advancing CO₂ valorization technologies, to convert CO₂ into valuable chemicals and fuels using renewable energy sources.

More precisely:

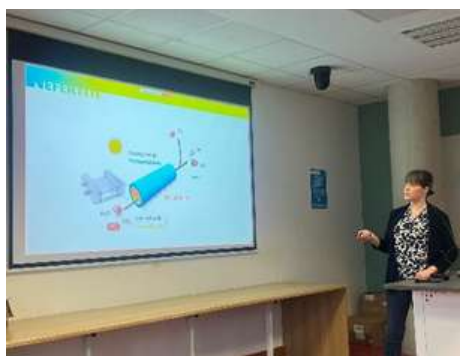
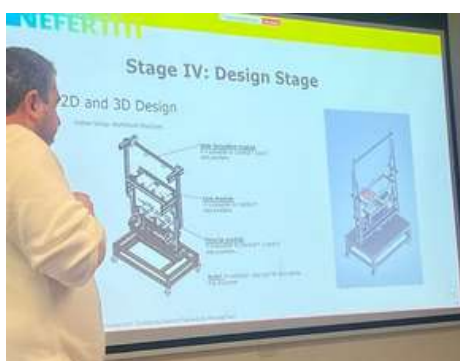
- **NEFERTITI** is advancing photocatalytic reactions for the production of solar fuels such as ethanol and higher-chain alcohols from CO₂ and H₂O.
- **PhotoSINT** is advancing artificial photosynthesis technologies for producing hydrogen and methanol.
- **Photo2Fuel** utilizes microbial systems and sunlight to convert CO₂ into methane and acetic acid. Together, the projects reduce greenhouse gas emissions and create climate-neutral energy technology.





WORKSHOPS & TRAININGS

NEFERTITI Workshop: "Contemporary approaches to carbon dioxide valorisation using sunlight"



13 February 2025



Galway, Ireland

The workshop gathered all NEFERTITI project partners—researchers from academia, research organisations, and industry— as well as approximately 30 students and researchers from University of Galway to share news on:

- the latest advances in CO₂ conversion technologies
- artificial photosynthesis
- green fuel production

and fostering collaboration and knowledge transfer in the field.



The project NEFERTITI has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101022202



WORKSHOPS & TRAININGS

Training Session on the NEFERTITI Project at the University of Patras

The training session, which was organised by STRATAGEM, lasted two hours and welcomed more than 100 students, along with researchers and experts in Chemistry and Renewable Energy.

It was a great opportunity to **connect and share NEFERTITI project's advancements in photocatalytic CO₂-to-fuel conversion.**

More specifically, participants had the opportunity to learn about:

- The theory behind photocatalysis and how it mimics natural photosynthesis.
- The NEFERTITI dual-reactor system for continuous and efficient fuel production.
- The role of CO₂-to-fuel technologies in climate neutrality and sustainable energy goals.



18 February 2025



Patras, Greece





THE 42M MEETING OF NEFERTITI PROJECT

The NEFERTITI Project's 42M Meeting took place on 12-13 February 2025 at the University of Galway, in Ireland.



During the meeting, all the Work Package Leaders presented the progress of each Work Package, and all the achieved milestones as well as their next steps for the following period.

Fruitful conversations and efficient interactions took place, and all the participants had the opportunity to engage in discussions and share perspectives on the advancement of the NEFERTITI project.





UPCOMING EVENTS

NEFERTITI WEBINAR

... **WEBINAR** ...

"Contemporary Approaches to CO₂ Valorisation Using Sunlight"

08 MAY 2025 12:00 PM CET

REGISTER NOW

Funded by the European Union

The **NEFERTITI project** is pleased to announce an upcoming webinar titled **"Contemporary Approaches to CO₂ Valorisation Using Sunlight,"** scheduled for the **8th of May 2025**.

This webinar will serve as a platform for **researchers, young researchers, students, industry professionals, and the general public** to gain insights into the latest advancements in **CO₂ valorisation using sunlight**.

Participants will have the opportunity to **engage with experts in the field and discuss the technological challenges**.





ALWAYS CONNECTED ON:



<https://projectnefertiti.eu/>



@Nefertiti



@NefertitiEU



O'LLScoil na
GAILLIMH
UNIVERSITY
OF GALWAY



北京大学
PEKING UNIVERSITY



UNIVERSIDAD
DE BURGOS

CHEMTRIX
Scalable Flow Chemistry



Institute of Chemical
Research of Catalonia



FUNDTec



UNIVERSITY OF
MICHIGAN

Stratagem
Research · Innovation



The project NEFERTITI has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101022202