



Developing a curriculum on Green Hydrogen Technologies and Applications in Southern Mediterranean Countries

GREEN aims to develop a vocational diploma in green hydrogen technologies and applications by establishing a collaboration network between companies, enterprises, and HEIs.

The project promotes capacity building for academic staff on the basic and recent advancements in green hydrogen technologies, to allow them to acquire the needed knowledge and skills to teach the diploma and the integrated courses and training programs.

The courses will be designed with clear learning outcomes and materials, accredited in each partner university, jointly taught and delivered, and tailored to utilize new technologies, in addition to the diploma, the project aims to deliver new/updated Green Hydrogen courses at the Higher Education Institutions (HEIs) in line with modern European strategies and implement the curricula through accreditation and enrolment of students.

TOP NEWS

Project kickoff at UIBK

GREEN Kickoff meeting takes place in Innsbruck, Austria

GREEN Committees

Five Committees are formed to lead the consortium through Work Packages

First Steps into Curriculum Development

The consortium creates a Pool of Knowledge during the 2nd Management Meeting

EU



MENA





Students, academic researchers and postgraduates at the MENA partner universities.

Academic staff at the Schools of Engineering of the Mechanical, Environmental, Chemical, Energy, and Electrical Engineering departments in the partner universities of the MENA region.

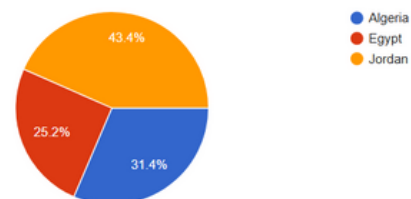


Industry and policy experts along with the technical support staff will organize regional training workshops for knowledge transfer and assist in providing guidance and technical training for students to use green hydrogen tools and digital methods, in addition to the "In-House" TOTs.

To determine how green hydrogen technologies can be used and how its applications can be integrated into learning process, the first step was to identify the competencies currently available to the teaching staff, students, and partner stakeholders. In order to achieve this, 3 surveys were distributed to more than 150 students, 100 faculty staff, and 40 stakeholders from the green hydrogen and renewable energy industries. The aim was to determine the current status of university courses, and the potential for a vocational diploma dedicated to green hydrogen technologies and applications.

Country of Residence

159 responses



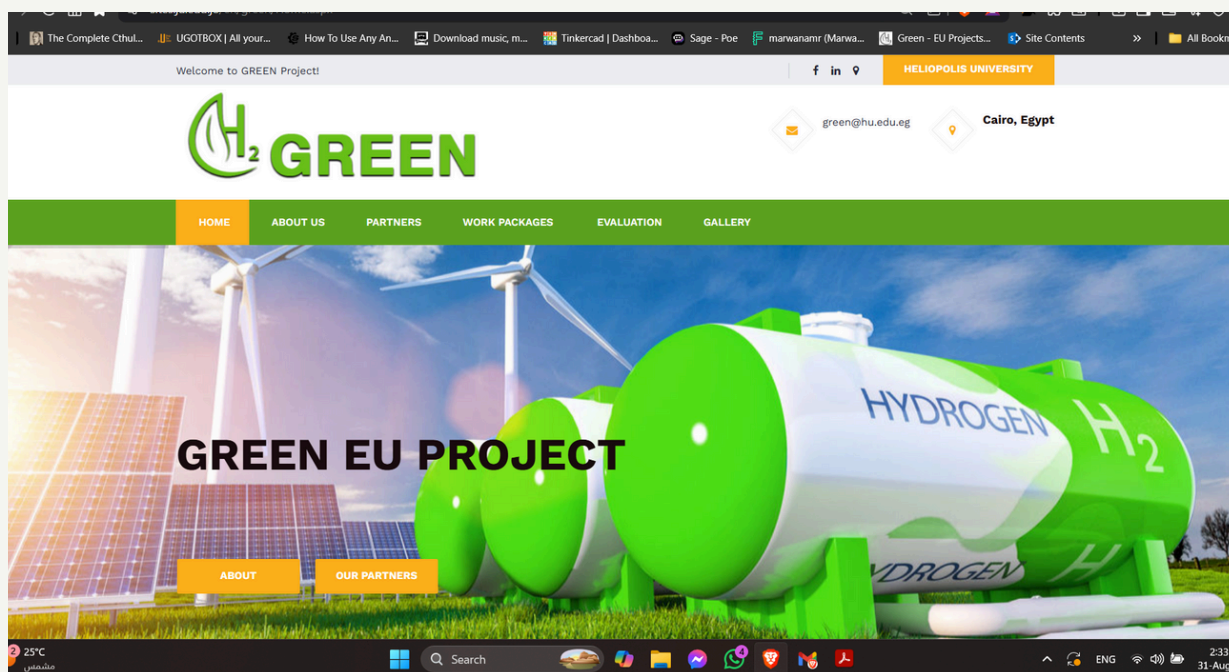
The next course of action was to divide the baseline study into two reports. Report 1 contained the technical information and potential capacities and applications of green hydrogen in the national and regional markets of the MENA. Encompassed in Report 2 were the green hydrogen regulations and policies currently in place in the partner EU countries.



As of now, the Consortium is in the process of creating a Pool of Knowledge, which is to be a collection of books, journals, and scientific papers that together will make up the reference list for the created curriculum and vocational diploma.



Project Website

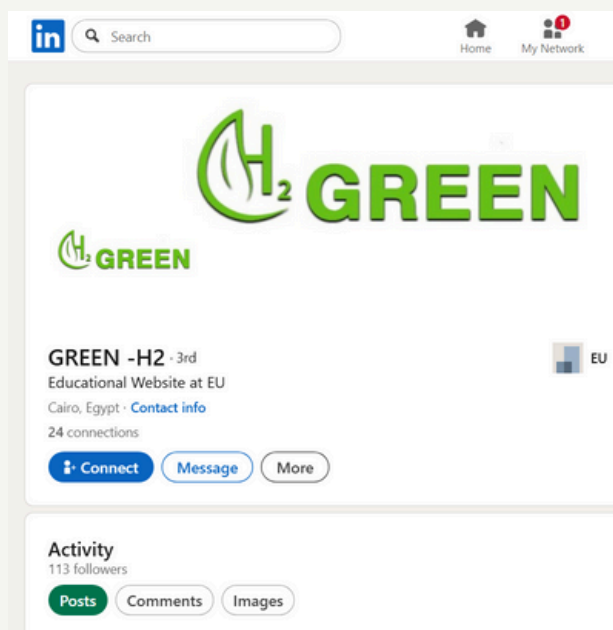


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GREEN project Kick Off meeting – Innsbruck, Austria February 3rd, 2025

The meeting began with welcome speeches from the project's general and regional coordinators respectively.

Dr. Martin Hauer and Prof. Ahmed Al-Salaymeh outlined the Project's objectives, expected results, and overall plan. They also discussed the action plan for implementation with the partners. The meeting was attended by 13 representatives from partner universities in Jordan, Egypt, Algeria representing the MENA region as well as, Austria, Germany and Cyprus from European partners



The second day started by the participants introducing themselves and their universities, focusing on their experience in renewable energy in general and in green hydrogen specifically.



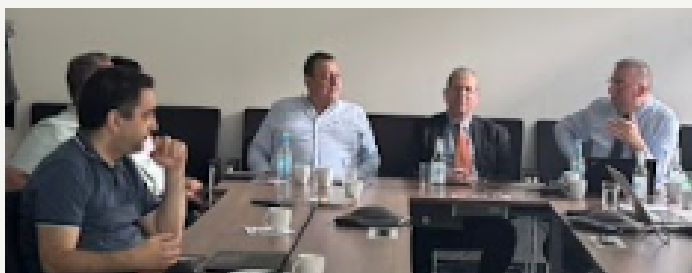
GREEN 2nd Management Meeting – Hamburg, Germany July 16th, 2025

The meeting started with Dr. Martin Kaltschmitt, our host from the Technical University of Hamburg, giving a heartwarming welcoming speech.

Our project coordinators discussed the project's progress, achieved deliverables and pending milestones. The partners also discussed the action plan for the next two-yearly quarters. The meeting was attended by 21 representatives from the consortium.



The second day was dedicated to a field visit to the Helmut-Schmidt-Universität (HSU). The partners toured numerous advanced research labs, exploring the Electric Mobility Lab and the Green Hydrogen Fuel Cell & Electrolyzer Testing facility. The highlight of the labs was the Hydrogen for Aviation Lab, where the partners explored cutting edge technologies to create a fully functioning hydrogen fuel cell powered aircraft.



1st Online
Management Meeting
March 17, 2025

Dr. Martin Hauer, the general coordinator for the project, started the meeting by outlining the main tasks to be prioritized at the start of the project and their progress so far. The meeting included discussion between all partners to discuss the next steps in each Work Package

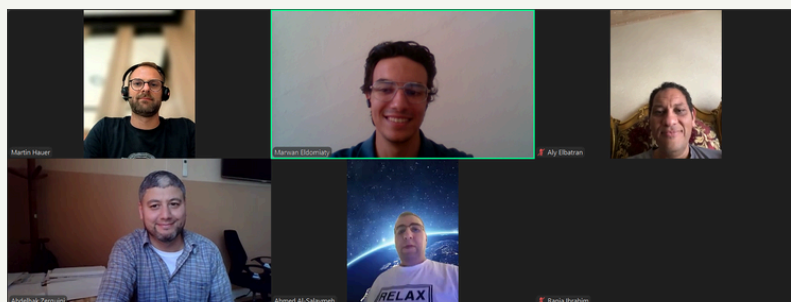
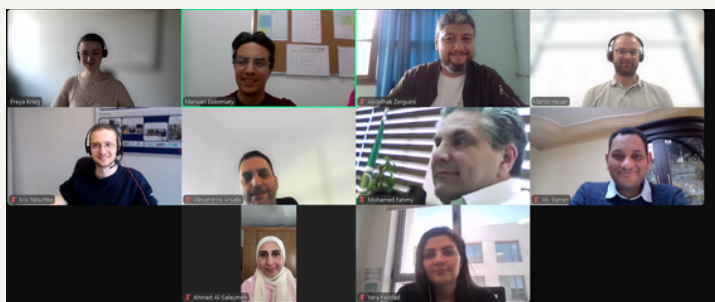


1st Quality Committee
Meeting
April 15, 2025

1st Dissemination
Committee Meeting
June 23, 2025

Eric and Freya, representatives of WP7 and the Quality Committee, hosted the first meeting to discuss the Quality Assurance Tools to be created and implemented by all partners to ensure smooth and efficient workflow during the entirety of the project.

The meeting started with Marwan Amr showcasing the created dissemination material created for the project. Each of the partners provided valuable input in order to achieve the best visual representation of the project.





AMMAN, JORDAN

July 9th, 2025

The GREEN project was proudly featured by the University of Jordan at the CHHAR Conference, held on July 7-8, 2025. With more than 150 participants from across the region, the conference brought together experts to discuss innovative tools for climate adaptation, integrated approaches linking water, energy, food, and health, as well as data-driven methods for policy and practice. Sessions also addressed health co-benefits, equity, and capacity building in climate research. The event offered an excellent platform to disseminate GREEN's mission and strengthen collaborations for impactful climate solutions.





AMMAN, JORDAN June, 2025

Al-Hussein Technical University students showcased groundbreaking projects that strongly resonate with the GREEN project's goals. At the Capstone Expo, projects highlighted the use of hybrid renewable energy systems integrating PV, wind, and hydrogen storage to optimize production through advanced simulations. Later, at the National Parade competition, students compared UAV endurance powered by hydrogen fuel cells versus battery-only systems, demonstrating a 25% improvement. These innovative student contributions embody GREEN's mission of advancing sustainable, climate-smart technologies for real-world impact.

The workshop presented a comprehensive summary of key conclusions and recommendations derived from the baseline reports conducted by the Arab Academy for Science and Maritime Transport, including detailed analysis of stakeholder questionnaires. The presentation highlighted critical insights gathered from various industry stakeholders, academic institutions, and policymakers regarding the current state and future needs of green hydrogen education and training. Moreover, participants engaged in an open discussion forum focused on the presented recommendations. The session included the distribution of targeted questionnaires to gather additional stakeholder perspectives and validate the project's survey results.



PORT SAID, EGYPT July 29th, 2025