

S	U	M	M	E	R		
S	C	H <sup>1</sup> Hydrogen	O	O	L		
H <sup>1</sup> Hydrogen	A	C	K	A	T	H	O

1-6 July 2024  
Benguerir

&

HACKATHON



CALL FOR APPLICATION

# GREEN HYDROGEN MOROCCO CAMP FROM THEORY TO ACTION

**Day 1**  
Hydrogen Production Technologies and Value Chain

**Day 2**  
Power to X Products

**Day 3**

Storage and Transport Options

**Day 4**

Sustainable Chemistry & Power to X Economics

**Day 5**

Industrial Projects and Case Studies

**& Day 6  
HACKATHON**





## « GREEN HYDROGEN CAMP: FROM THEORY TO ACTION »

Unlocking Potential with GH2 Summer School & Hackathon

From 1<sup>st</sup> to 6<sup>th</sup> July 2024, Benguerir

From July 1 to 6, 2024, the “Deutsche Gesellschaft für Internationale Zusammenarbeit” (GIZ), the Research Institute for Solar Energy and New Energies (IRESEN), and the European Union funded Mediterranean Green Electrons and Molecules Network (MED-GEM) organize a summer school and a hackathon under the theme "Green Hydrogen Morocco Camp: From Theory to Action." An ambitious initiative to promote green hydrogen in Morocco and raise awareness among 40 selected candidates.

### FROM THEORY... 1ST EDITION OF THE SUMMER SCHOOL ON GREEN HYDROGEN

Scheduled from July 1 to 5, 2024, in Benguerir, Morocco, the GH2 Summer School offers a unique opportunity to delve into the dynamic world of green hydrogen. As Morocco moves resolutely towards environmentally friendly energy solutions, this program offers an exceptional opportunity to explore these advances, guided by leading experts in the field. Our aim is to arm the selected participants with in-depth knowledge, practical skills, and a comprehensive understanding of the green hydrogen and Power-to-X (PtX) technology. This will prepare them to play an active role in the green hydrogen industry, meeting high standards of quality, and sustainability.

### TO ACTION... BOOTCAMP AND FIRST STAGE OF THE GREEN HYDROGEN HACKATHON

After the 5 days of GH2 Summer School, participants of the inaugural Green Hydrogen Morocco Camp will have the opportunity to transition from theory to action by participating in the first stage of the Green Hydrogen Hackathon on Saturday, July 6th, 2024, in Benguerir, Morocco. The 40 participants, divided into 8 teams, will have 24 hours to propose innovative solutions tailored to the national market, addressing challenges related to infrastructure, industry, and potentially political and financial frameworks. At the end of the day, the top 3 teams will refine their solutions throughout the summer with mentor support, before presenting their final prototypes at the grand finale organized in October 2024 as part of the prestigious "World PtX Summit" in Marrakech, with the opportunity to win a study trip to Europe or prizes to support their projects.

SUMMER

SCHOOL

HACKATHON

1-6 July 2024  
Benguerir

**&**



CALL FOR APPLICATION






**GREEN HYDROGEN MOROCCO CAMP  
FROM THEORY TO ACTION**

## I. CONTENT

The program of the GREEN HYDROGEN CAMP will cover the following topics in depth:

Day	Topics Covered
Day 1	<p><b>Hydrogen Production Technologies and Value Chain</b></p> <p>Introducing the hydrogen value chain across its various stages from production to end use and exploring the different technologies and methods used at each stage, with a particular focus on the most recent advances.</p>
Day 2	<p><b>Power to X Products</b></p> <p>Deepen understanding of different green hydrogen derivatives, including green ammonia, ethanol, e-fuels.</p>
Day 3	<p><b>Storage and Transport Options</b></p> <p>Analysing secure storage technologies and methods of transporting hydrogen. Understanding the safety protocols associated with large-scale storage and transport systems, with an emphasis on minimizing risks.</p>
Day 4	<p><b>Sustainable chemistry &amp; Power-to-X Economics</b></p> <p>Evaluating the concept of sustainable chemistry and getting a general approach for techno-economic analysis of technologies and cost-scenarios.</p>
Day 5	<p><b>Industrial Projects and Case Studies</b></p> <p>Analysing real industrial projects in the field of green hydrogen, highlighting successes, challenges and lessons learned. Encouraging critical thinking and the ability to apply knowledge gained to practical situations.</p>
Day 6	<p><b>GH2 Hackathon</b></p> <p>This first stage of Hackathon will be reserved to ideas generation and initial prototypes. Three teams will be selected at the end of this phase, they will receive mentoring and guidance from experts throughout the summer and will present their finals Projects at the Word PtX Summit in Marrakech.</p>



## II. APPLICATION PROCESS

### Eligibility:

- ▶ Applicants must be from Morocco.
- ▶ Applicants must be currently enrolled in a master's course or an Engineering education course or affiliated as a Ph.D. student with an accredited University (M1, M2, Ph.D. candidates) in the field of energy, environment, chemical or process engineering or other fields in relation with the topic of the summer school.
- ▶ Applicants should have a strong knowledge in one of the following fields: energy systems, energy economics, climate, energy policy or equivalent.
- ▶ Applicants must have excellent verbal and written communication skills in English.

### Application:

- ▶ Applicants must complete [the application form](#) (uploading their CV and a 1 min motivational Video).
- ▶ Guidance for the video is specified in the application form.
- ▶ The deadline for submitting the application form is **23:59 on 10th June 2024**. Applications received incomplete or after the deadline will not be considered.

## III. COST OF THE GREEN HYDROGEN CAMP

The Green Hydrogen Camp is fully sponsored, and the selected participants will also have their meals and accommodation fully covered.

## IV. CERTIFICATION

At the end of the GH2 Camp, participants will receive certificates of attendance. Prizes will be delivered to the winners after the end of the hackathon.

## V. PRIZES

Prizes will be presented to the winners at the end of the hackathon in October 2024. These awards aim to encourage the continued development of their solutions and may include:

- Visibility: A chance to showcase their solution at conferences and events related to green hydrogen, both nationally and internationally.
- Expert Network: Access to a wider network of experts and professionals in the green energy field.
- Study-tour and/or internship in Europe.