



GREEN
HYDROGEN
DAY

THE FIRST EDITION GREEN HYDROGEN DAY

APRIL 12, 2025

المدرسة الوطنية للعلوم التطبيقية - فاس
+٤١٤٧ +٥١٥٤٣٠١ +٤٤٠٥٥١٤١ +٣٥١٤٥٤١
Ecole Nationale des Sciences Appliquées de Fès



جامعة سيدي محمد بن عبد الله بفاس
+٥٥٨٥٤٣٠١ +٣٥١٤٥٤٣٠١ +٣٥١٤٥٤٣٠١
UNIVERSITÉ SIDI MOHAMED BEN ABDELLAH DE FES



Pr. Amine ALLOUHI

Energy Professor
USMBA, Fez, Morocco

Session 1

Energy transition and power to X



Dr. Hamza EZ-ZAKI

Hydrogen, CO2 and e-fuels
Manager

TRAPIL, Paris, France

Session 2

Hydrogen production, transport
and storage



M. Abdelkrim BENMEHEL

R&D Process and energy engineer
AKKODIS/UPPA, Pau, France

Session 3

PEM Electrolyzer performance
under dynamique conditions



Pr. Zakaria CHALH

Mechatronics Professor
USMBA, Fez, Morocco

Moderator

The Green Hydrogen Day 2025 is a key event dedicated to exploring the role of green hydrogen in the global energy transition. Hosted by the National School of Applied Sciences of Fez (ENSAF) in collaboration with leading experts and academics, this event will bring together researchers, industry professionals, and policymakers to discuss the latest advancements in green hydrogen production, technological challenges, and opportunities for sustainable development.

Oral and poster presentations are scheduled at the GHD'25.

We invite authors to submit 2-page papers via the submission link below.

The scopes of the GHD'25 are :

- Energy storage production, transport, and storage
- Power-to-X
- Decarbonizing industry
- Export and global trade



www.ghdevent2025.sciencesconf.org

Green Hydrogen Day Planning

8h30 – 9h	Participant Registration & Welcome	
	<ul style="list-style-type: none">Welcome guests.Distribution of badges, programs, and general event information.	
9h – 9h45	Opening Ceremony	
	<ul style="list-style-type: none">Opening of the day with a speech by the leaders.	<ul style="list-style-type: none">Pr. Mustapha IJJAALI, President of Sidi Mohamed Ben Abdellah UniversityPr. Abderrahim LAHRACH, Director of the National School of Applied Sciences of FezPr. Abdelmjid SAKA, Deputy Director in Charge of Scientific Research and Cooperation.Pr. Hassane MOUSTABCHIR, Director of the Laboratory of Engineering, Systems, and Applications (LISA).Pr. Zakaria CHALH, Head of the Industrial Department at ENSA-Fez
9h45 – 10h15	Session 1	
	<ul style="list-style-type: none">Energy transition and power to X	<ul style="list-style-type: none">Pr. Amine ALLOUHI, Energy Professor, USMBA, Fez, Morocco.
10h15 – 11h45	Coffee Break & Networking	
11h45 – 12h15	Session 2	
	<ul style="list-style-type: none">Hydrogen Production, Transport and Storage.	<ul style="list-style-type: none">Dr. Hamza EZ-ZAKI, Hydrogen, CO2 and e-fuels Manager, TRAPIL, Paris, France.
12h15 – 12h45	Session 3	
	<ul style="list-style-type: none">PEM Electrolyzer performance under dynamic condition.	<ul style="list-style-type: none">M. Abdelkrim BENMEHELI, R&D process and energy engineer, AKKODIS/UPPA, Pau, France
12h45 – 14h30	Lunch & Networking	
Oral Presentations by Participants Session 1 (on site)		
Session chairs	Prof. Zakaria CHALH Prof. Yassine CHAIBI Prof. Mohamed BENSLIMANE	
14h30 – 14h45	Title: Green hydrogen production technologies Authors: Ayoub GHAILANE, Jamal MABROUKI, Khadija EL-MOUSTAQIM, Driss AZDEM, Mounir BOUTARBOUCH Younes ABROUKI	
14h45 – 15h	Title: DC Microgrid Enabled Hydrogen Production PEM Electrolyzer Authors: Cheikhelwely ELWELYSALEM, Yassine CHAIBI	

15h-15h15	Title: Advancing Green Hydrogen Production: A Review of Solid Oxide Electrolyzer Cell (SOEC) Technology Authors: Salima HANDA, Yassine CHAIBI, Zakaria CHALH	
15h15-15h30	Title: Green Hydrogen Production via Solar Electrolysis: Potential of Perovskite Photovoltaic Cells Authors: Oumayma DOUICHI, Souad ELKHATTABI, Said KHALID, Hassane MOUSTABCHIR	
15h30-15h45	Title: Review of Green Hydrogen Production from Offshore Wind: Sustainability, Viability, and Challenges Authors: Sohayla EL OUARDI, Mourad YESSEF, Yassine CHAIBI, Zakaria CHALH	
Oral Presentations by Participants Session 2 (on site)		
Session chairs	Dr. Mourad YESSEF Prof. Badr ELKARI Prof. Jaouad ELMEKKAOUI	
14h30 – 14h45	Title: Sensible Thermal Energy Storage System: Modeling of an Oil-Pebble Bed Authors: Lahcen EL-MAHAOUCHI, Mourad YESSEF, Ahmed LAGRIOU	
14h45 – 15h	Title: Emerging Trends in Hybrid Energy Storage: Green Hydrogen as a Long- Term Solution for Sustainable Mobility Authors: Jouhayna BOUANANI, Mourad YESSEF, Ahmed LAGRIOUI	
15h-15h15	Title: Hybrid PV-PEM Electrolyzer Systems with Energy Storage: Exergy-Economic Optimization for Arid Regions (Morocco Case Study) Authors: Hajar BOUAYAD	
15h15-15h30	Title: Hydrogen Fuel Cell-Based Hybrid Microgrid: A Review of Control Strategies Authors: Imane BENKHADIR	
15h30-15h45	Title: A Review on Green Hydrogen Energy Systems: A Pathway to a Sustainable Future Authors: Mohamed AYOUBI, Mourad YESSEF, Youness HAKAM, Yassine CHAIBI, Zakaria CHALH	
15h45 – 16h15	Closing Remarks	
	<ul style="list-style-type: none">• Summary of the day and thanks to participants and speakers.• Announcement of upcoming steps and future events.	<ul style="list-style-type: none">• Pr. Yassine CHAIBI, Professor at ENSA-FEZ.