

A NEW INDUSTRIAL INITIATIVE FOR SUBSURFACE HYDROGEN: earth₂

WHY THIS IS NEEDED

Currently 95% of hydrogen worldwide is made by a process, Steam Methane Reforming, which releases 8-10 tons of CO₂ per each ton of hydrogen.

As a fuel of the future, the world needs to find alternatives for producing hydrogen with a dramatically lower carbon footprint.

While other technologies, such as electrolyzers, will likely be critical to the destiny of hydrogen, the fundamental role of the subsurface in enabling and sustaining a low-carbon hydrogen economy is currently being overlooked:

- Providing high-capacity underground storage offering security of supply for both immediate and long-term security of supply

- Producing hydrogen from natural sources within the Earth and recoverable with a minimal carbon footprint using existing technologies

earth₂ is a new program of AVENIA, a French cluster of subsurface industries, which aims to create a common forum, operating at a European level, to drive forward these important pillars to the development of a future hydrogen economy and showcasing how geological knowledge can facilitate this revolutionary new green energy vector.

OUR OBJECTIVES



Bring together actors from industry and research working on subsurface hydrogen keen to work together to spark innovation and the emergence of funded collaborative projects.



Promoting the contribution of the subsurface to the hydrogen sector as whole, which is still largely unknown to policy and decision-makers at all levels.

JOIN US NOW!

For more information, please do not hesitate to contact us at: earth2@pole-avenia.com

THE FIRST STEERING COMMITTEE ELECTED

earth₂ was officially launched on 20 September 2021 after a development period of 6 months. In mid November, its initial Steering Committee of 11 representatives with wide experience of both underground storage and natural production of hydrogen, covering the energy industry, research and NGOs was elected:

- GLEN BURRIDGE – European Federation of Geologists – *Executive Director*
- JEAN-PAUL CRABEL – FLODIM – *Executive Director*
- JEAN- LUC FORMENTO – CGG – *R&D Director, Reservoir & Energy Transition*
- ERIC GAUCHER – LAVOISIER H₂ GEOCONSULT – *Chief Executive Officer*
- MARGUERITE GODARD – CNRS / MONTPELLIER UNIVERSITY – *Research Director*
- NICOLAS GONTHIER – pôle AVENIA – *Project Leader - earth₂ point of contact*
- OLIVIER LHOTE – ENGIE – *Native Hydrogen Project Director*
- LOUIS LONDE – GEOSTOCK – *Technical Director*
- ISABELLE MORETTI – UPPA – *Associated Researcher*
- NICOLAS PELISSIER – 45-8 ENERGY – *Co-Founder & President*
- PIERRE VINOURE – CVA GROUP – *Founding Partner*

THE NEXT STEPS

The election of this Steering Committee marks the beginning of three specific activities for earth₂ in 2022:



A step-up in promotion of earth₂'s to its key stakeholders and signing up of new members.



Kick-off a 2022 Road Map defined by earth₂'s founders.



The immediate launch of Working Groups which will address a range of critical themes.

**earth₂: THE SUBSURFACE'S CONTRIBUTION TO THE HYDROGEN
REVOLUTION!**