

## Air Liquide launches its third Scientific Challenge in favor of decarbonization

**Air Liquide is launching today the third edition of its Air Liquide Scientific Challenge, designed to advance research in an open innovation approach. This new challenge aims to identify solutions allowing for the decarbonization of industrial ecosystems.**

The Air Liquide Scientific Challenge is open to academic teams, private Research & Development departments, startups, and private or public Institutes. All are invited to submit through the [Challenge's website](#), from November 3, 2022 to March 10, 2023, innovative scientific solutions to face the challenges linked to Energy Transition. Based on Essential Small Molecules, Data and related Technologies, the Scientific Challenge, a worldwide call for solutions to achieve the decarbonization of industrial ecosystems, is in line with the Group's objectives of decarbonization and technological innovation outlined in its strategic plan ADVANCE.

It addresses the three following topics:

- **Topic 1 Data sharing for decarbonization:**  
How to leverage confidential data from different stakeholders to meet shared sustainability targets?
- **Topic 2 Energy storage using Essential Small Molecules:**  
How to store and reuse energy using small molecules or processes to achieve net-zero?
- **Topic 3 Electric Heating for H2 production:**  
How to decarbonize the catalytic Steam Methane Reforming reaction by electric-based heating?

Initiated by the R&D and its m-Lab, the scientific community of Air Liquide experts on Essential Small Molecules, **Air Liquide Scientific Challenge Edition 3** is part of Air Liquide's open innovation approach.

An Air Liquide scientific prize of 50,000 euros will be awarded to each of the laureate teams at the end of 2023. Moreover, the Group will support collaborations with a total funding of up to 1 million euros to develop the selected scientific proposals and transform them into market-tailored technologies.

**Emilie Mouren-Renouard**, Member of the Executive Committee supervising Innovation: *"Open innovation is a key driving force of Air Liquide's strategy to address society's challenges. In line with the Group's strategic plan ADVANCE and 2050 net zero objective, this edition of the Scientific Challenge notably illustrates the importance of Data in our continuing efforts to identify disruptive solutions and accelerate the development of the new technologies necessary to build a low carbon society."*

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A world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 75 countries with approximately 66,400 employees and serves more than 3.8 million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

Taking action today while preparing the future is at the heart of Air Liquide's strategy. With ADVANCE, its strategic plan for 2025, Air Liquide is targeting a global performance, combining financial and extra-financial dimensions. Positioned on new markets, the Group benefits from major assets such as its business model combining resilience and strength, its ability to innovate and its technological expertise. The Group develops solutions contributing to climate and the energy transition—particularly with hydrogen—and takes action to progress in areas of healthcare, digital and high technologies.

Air Liquide's revenue amounted to more than 23 billion euros in 2021. Air Liquide is listed on the Euronext Paris stock exchange (compartment A) and belongs to the CAC 40, CAC 40 ESG, EURO STOXX 50 and FTSE4Good indexes.