



PRESS RELEASE

Swan-H named on 2024 Cleantech 50 to Watch

50 Remarkable Early-Stage Companies in Global Cleantech Innovation Celebrated

Cleantech Group identifies innovators that are pushing the boundaries of technology, business models, and market adoption to drive significant change

TOULOUSE, France, Wednesday 16th October – The startup Swan-H developing a disruptive process to produce carbon-free ammonia has been named on Cleantech Group's prestigious 2024 [Cleantech 50 to Watch](#).

Cleantech Group is the leading global authority in global cleantech innovation. The 2024 Cleantech 50 to Watch list has just been released. This annual list highlights 50 early-stage companies from across the globe that are creating groundbreaking solutions to address some of the world's most pressing environmental and sustainability challenges.

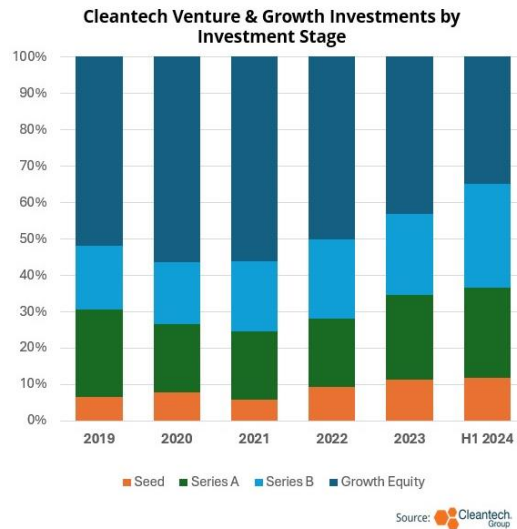
Swan-H is developing a novel process to produce ammonia in a way that is compatible with the intermittency of renewable energy production. This discovery could have a significant impact on the CO₂ footprint of ammonia production. In addition to transforming the green ammonia sector, by enabling it to be produced locally, this technology also paves the way to accelerate the development of green hydrogen.

A Platform for Emerging Leaders

In its sixth year, the Cleantech 50 to Watch list continues to spotlight innovators that are leading the charge in the fight against climate change, resource depletion, and environmental degradation.

"In a continuation from last year's trend, the spread of companies receiving investment continues to get "younger", i.e., early-stage deals are a larger percentage of the overall activity," said Anthony DeOrsey, research Manager at Cleantech Group and Executive Editor of the list.

"We can start to see new layers of climate priorities crystallizing in the themes that innovators are targeting -- look closely at the themes of grid resilience, textiles, plastics, and ammonia for some early indications."



Key Sectors & Trends

The 2024 list reflects several key sectors and trends that are currently at the forefront of cleantech innovation with sample companies who made the Cleantech 50 to Watch:

Agriculture & Food: 3 companies in 3 countries

Energy & Power: 13 companies in 10 countries

Materials & Chemicals: 19 companies in 8 countries

Resources & Environmental Management: 4 companies in 4 countries

Transportation & Logistics: 2 companies in 2 countries

Waste & Recycling: 9 companies in 6 countries

“Deeptech innovation for industrial applications such as ammonia production rarely make the headlines. Yet, the climate impact these breakthroughs can have is tremendous. That’s why we are delighted our truly disruptive technology is getting this international recognition today.” Said Augustin de Bettignies, co-founder and Chief Business Officer, Swan-H.

In its sixth year, this highly anticipated annual report brings you the complete global list of leading companies with case studies on a subset of the group. To download the *Cleantech 50 to Watch* complimentary report, [click here](#).

The *Cleantech 50 to Watch* companies will be recognized at the upcoming [Cleantech Forum Europe](#) on November 5-7 in Chantilly, France. Attendees will have the opportunity to connect with many of the companies on the list, along with many other rising stars and celebrate the 20th anniversary of the Forum.

A Rigorous Selection Process

The companies featured on the Cleantech 50 to Watch list were selected through a rigorous process that involved nominations from a global expert panel of investors, industry experts, and cleantech professionals, as well as in-depth analysis by Cleantech Group's research team. The final selection was based on a range of criteria, including the potential impact of the company's technology, the strength of its business model, the quality of its leadership team, and the scalability of its solution.

Global Representation

The Cleantech 50 to Watch list features companies from a broad geographic spectrum, with start-ups from 18 countries in North America, Europe, Asia-Pacific, and Africa. This reflects the global nature of cleantech innovation, with solutions emerging from both developed and emerging markets.

About Swan-H

Swan-H is developing a radical innovation enabling the green production of ammonia. The company is a Toulouse University / CNRS spin-off created in December 2021. The startup has 14 members and is led by four experienced entrepreneurs. It is funded by the VC firm IRDI Capital Investissement, the industrial partner Thermi-Lyon Développement, and business angels, and is supported by the French Public Investment Bank (BPI) .

A Series A financing round, designed to accelerate the scale-up of the ammonia production system, is planned for 2025.

www.swan-h.com

About Cleantech Group

Cleantech® Group is a research-driven company that helps corporates, public sector, investors and others, identify, assess, and engage with the innovative solutions and opportunities that are related to the world's massive, and growing, environmental and climate challenges. Our insights and expertise are delivered to clients all over the world through our Research, Consulting, and Events. We have been the leading authority on global cleantech innovation since 2002.