

FUTURE CLEAN INDUSTRIES: DRIVING HIGH-IMPACT INNOVATION TO REDUCE EMISSIONS

Why this Lecture Series?

Hard-to-abate sectors such as cement, steel, aviation, and shipping are responsible for a significant share of global greenhouse gas emissions. Yet technological, economic, and policy solutions to decarbonize these sectors are still under development. At Future Cleantech Architects (FCA), we focus on closing these innovation gaps.

This interdisciplinary lecture series explores the technologies, business models, and policy frameworks that can drive climate-neutral industrial transformation. Students will gain insights on how to navigate complex challenges at the intersection of engineering, economics, and climate policy. Join us in tackling the most pressing challenges of our time, where your ideas and skills can make a real difference.

Session 1 - October 30, 18:00–20:00, VW.12.001

Introduction to FCA & Debunking the Hydrogen Myth

An introduction to Future Cleantech Architects. In our first session, we will explore why hydrogen is not a silver bullet for most industry applications. We will dive into realistic pathways to decarbonize some of the hardest-to-abate sectors: aviation and shipping.

Session 2 - December 11, 18:00–20:00, VW.12.001

Cleantech Innovation vs. Symbolic Policy

What's hype, and what's truly transformative? This session takes a critical look at emerging cleantech solutions, separating bold innovation from persistent myths and showing where the real breakthroughs are happening.

Session 3 - January 22, 2026, 18:00–20:00, VW.12.001

The Future Energy System: Matching Demand & Supply

How can our future energy system keep pace with society's growing demand? Join this final session to discover strategies for balancing energy generation, storage, and consumption. Gain insights into the technologies that could define tomorrow's energy landscape.

Course Format & Information

Sessions: Three Thursday evening sessions, 18:00–20:00, in VW.12.001

Organized by: Future Cleantech Architects (FCA) in collaboration with the Institutes of Business & Economics, Electrical Engineering & Mechanical Engineering.

Who can join: Bachelor's and Master's students from all faculties.

Registration: Via Moodle

Language: English

Lecture recognition: Participants will receive a "Future Cleantech Lecture"-certificate of participation. To qualify, attendance at at least two out of three lectures and completion of a final quiz are mandatory.

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