



IN COLLABORATION WITH









### **ADVANCED MASTERCLASS**

A scientific, engineering and business perspective

### SUSTAINABLE TRANSITION STRATEGIES

for the Chemical and Life Sciences Industry

### CONTEXT

The chemical and life sciences industry is facing unprecedented challenges in terms of sustainability, with pressure to resolve these within a particularly tight timeframe. With this advanced masterclass on **Sustainable**Transition Strategies, essenscia – the Belgian federation for the chemical and life sciences industry – offers an in-depth 5-day training course, looking at sustainability from a scientific, engineering and business perspective.

The program is supported by **KU Leuven University, the University of Ghent** and **Allen & Overy**, and is hosted at **BNP Paribas Fortis** in Brussels.

### AIM

Globally, sustainability challenges need to be addressed. With sustainability being at the core of the strategy of the chemical and life sciences industry in Belgium and Europe, the chemical sector is a solution-provider despite a highly competitive economy.

Policy, technology, the implementation of legal frameworks and operational standards are changing very fast. Keeping track of

this evolution is the main goal of this 5-day masterclass, grounded in a scientific, engineering, legal and business point of view throughout the whole value chain.

## PRACTICAL INFORMATION



BNP Paribas Fortis Koningsstraat 20 1000 Brussels

FOOD & BEVERAGES
Business menu, coffee
breaks and closing cocktail
included

TOTAL REGISTRATION FEE

€ 2500, excl. VAT

REGISTRATION www.essenscia.be/agenda

## WHAT TO EXPECT

- Key notes by academics, policy makers and industry experts
- Thematic lectures on life-cycle assessment (LCA), sustainability reporting, carbon accounting, and more by specialists from the chemical industry, research centers and the financial sector
- Companies sharing experiences and insights on their endeavours on advancing sustainability and circular economy solutions

This Advanced Masterclass starts with a strategic state of play by Prof. Dr. ir. **Gerard Govers**, Vice Rector of KU Leuven and Responsible for Sustainability Policy.

Due to the international context of the subject matter, audience and speakers, this course will be held entirely in English.

### **PROGRAM**

This advanced masterclass is co-developed with member companies, experts and academics and aims to increase sustainability knowledge and awareness within the chemical and life sciences industry.

### **DAY 01**

The first day starts with an overview on the **sustainability challenges** the world is facing, followed by **European legislation** and industry initiatives. In the afternoon, we provide approaches on **metrics**, **reporting and ratings**.

### **DAY 02**

The second day covers **taxonomy**, **tools** and **standards** that drive sustainability in our industry. In the morning, we look at how the banks have become **sustainable business drivers** and explore business tools for sustainable project selection and strategy. In the afternoon, this is followed by the methodology for **scope 3**. The day ends with Life Cycle Assessment as an important instrument, considering economic aspects.

### **DAY 03**

The third day focuses on **technology**. We start with an overview of the most important research initiatives by the University of Ghent. Before noon, we look at sustainability aspects from the **cracker furnaces** as well as from a **batch perspective**. And in the afternoon, we move to the important policy aspects on **circular chemical economy**, followed by real company implementations on chemical circularity.

### **DAY 04**

The fourth day looks at setting up sustainable value chains based on the quest for energy, performant legislation and tools. We start with the energy question in the value chain, followed by the legislation. In the afternoon, we address the methodology for carbon neutral chemical building blocks. The day ends with the electronic product passport for batteries from a content as well as a platform point of view.

### **DAY 05**

The fifth and final day looks at long-term innovations and considerations to achieve sustainability goals by 2050. From companies' accounts on their transformation journeys to the latest trends emerging on energy and biodiversity, research advances renewable products and the considerations of nuclear process innovations, this day offers a platform to explore and discuss the myriad of pathways towards sustainable business in the long-term. The day is closed by identifying the industrial needs to realise the European Green Deal from a policy point of view.

### **GOVERNANCE BOARD**

The Governance Board determines the strategic goals of this Advanced Masterclass on Sustainability, and ensures that the course is optimally tailored to the current and future needs and requirements of the chemical and life sciences industry.

### **GOVERNANCE BOARD AND STEERING COMMITTEE**

### Yves Verschueren

Managing Director, essenscia

### **Ann Wurman**

Managing Director, essenscia vlaanderen

### Frédéric Druck

Managing Director, essenscia wallonie/brussels

### **Geert Boogaerts**

Director Safety & Sustainability, essenscia

### **Prof. Dr. Gerard Govers**

Vice-rector Science, Engineering and Technology and Vice-rector Sustainability, KU Leuven

### Jan Remeysen

CEO, BASF Antwerpen

#### **Lieven Stalmans**

Group Manager Energy & Climate, Borealis

### Inge Van der Meeren

Antwerp & Meerhout Plant Manager, ExxonMobil

### **Anouk Van Looveren**

Country Manager, Dow Belgium

### **Dominique Debecker**

VP Partnerships & Memberships, Global Sustainability, Syensqo

### Prof. Dr. ir. Kevin M. Van Geem

Full professor in Thermochemical Reaction Engineering, Ghent University, and Director of the steam cracking pilot plant and Director of the board of LCT, and Director of Centre of Sustainable Chemistry (CSC)

## **ABOUT ESSENSCIA**

essenscia is the Belgian federation of the chemical industry and life sciences sector. The organisation defends the specific interests of more than 720 companies active in chemistry, plastics, pharma and biotech.

essenscia's role is to offer a tailor-made service, providing expertise and advice on sectoral issues. essenscia also represents the sector in the media and defends the interests of chemistry and life sciences at all levels.



### TARGET AUDIENCE

This advanced masterclass is made for professionals with experience in the chemical and life sciences industry for whom a global overview and in-depth understanding of sustainability issues is key. This course will help them to deepen their expertise on the most material aspects for the industry, illustrated with clear practical examples and company testimonials. A questioning attitude will help to increase the mutual understanding around common challenges and solutions. Peer exchange is crucial for fostering advance.

## **DAILY SCHEDULE**

07.30	Arrival coffee
08.00	Keynote
08.30	Presentations
10.15	Coffee break
10.30	Presentations
12.00	Lunch
13.00	Keynote
13.30	Presentations
15.15	Coffee break
15.30	Presentations
17.00	End

### DAY-TO-DAY PROGRAM OVERVIEW

### **DAY 01**

Monday 27 MAY | 08:00 - 17:00 State of play: The foundation

for your strategy

### **DAY 02**

Tuesday 28 MAY | 08:00 - 17:00

Tools and standards:
A business driver on site?

### **DAY 03**

Wednesday 29 MAY | 08:00 - 17:00

Exploring the myriad of pathways to sustainability: Engineered examples

### **Keynote**

## A global outlook of the chemical industry

Dr. Moncef Hadhri, Chief Economist, Cefic

## State of play: an academic perspective

### Important balancing

Prof. Dr. Gerard Govers, Vicerector Science, Engineering & Technology and Vice-rector Sustainability, KU Leuven

## State of play: an industrial point of view

### Towards a sustainable industry

Dr. ir. Ann Dierckx, Director Innovation and Circular Economy, essenscia

### **Keynote**

## **European Policy: An administration point of view**

Matthias de Moor, General Representative of Flanders to the EU, Vlaamse Overheid

## An academic point of view on metrics and ratings

### Towards a real standard

Prof. Dr. Karel Van Acker, Professor Circular Economy, KU Leuven

## A consultancy point of view on reporting

### A global strong tool?

Reinout De Clercq, Partner Sustainability & Climate, Deloitte

### Keynote

### **Carbon footprint & accounting**

Barbara Veranneman Director International Affairs and Legal Counsel Energy & Climate, essenscia vlaanderen, Octrooicel

## A banker's view on sustainability

## Sustainable finance and the impact on cost of capital

Claire Iversenc, Head of Sustainable Business Transformation at BNP Group Company Engagement

### **Taxonomy**

### The base line

Axel de Backer, Senior Associate, Allen & Overy

## Project impact and selection Increasing value for your

### business

Bruno van Parys, Head of Sustainable Portfolio Management (SPM), Syensgo

### Sustainable value chains

### The real impact

Dr. Alessandro Pistillo, Director Digital & Sustainability Strategic Projects, BASF & Co-Chair Work Stream GHG Scope 3 Emissions, TfS

### **How to choose**

## Life-cycle assessment: to be or not to be

Dr. Miet van Dael, Researcher, VITO

Bart de Bruycker, LCA and Sustainability Expert, Eastman

### **Keynote**

## A research perspective on the chemical industry

Prof. Dr. Ir. Kevin van Geem, Professor, Faculty of Engineering and Architecture, and Director of the Center for Sustainable Chemistry, Ghent University Mike Bonheure, Researcher, Ghent University

## **Electrification of the chemical industry**

### The cracker of the future

Dr. Marco Bosch, Head of Carbon Management Technologies, BASF

### Sustainability engineering

#### **Batch processes**

Geert Schelkens, R&D Manager Early Phase API, Ajinomoto

### **Keynote**

## Important policy aspects on circularity

Saskia Walraedt, Director PolyMatters, essenscia

### **Company experiences**

### **Circular Economy Solutions**

Geert van Ballaer, Strategic Platform Leader Circular Economy Solutions, Borealis

## Advanced chemical recycling of plastics

Xavier Milcent, EU / AP Advanced Recycling Ventures Commercial Manager New Market Development, ExxonMobil

### **DAY 04**

Thursday 30 May | 08:00 - 17:00

Sustainable business operations in the value chain: A business differentiator

### **Keynote**

## Strategies for a sustainable value chain

Anouk van Looveren, Country Manager, Dow Belgium, and Global Marketing Director, Dow

## Value Chain: Energy and feedstock transition

Research outline from TNO, Dechema and VITO

Pieter Vingerhoets, Expert Energy & Climate Strategy, VITO/ EnergyVille

### Legislation

## Doing business via a sustainable value chain

Gauthier van Thuyne, Partner, Allen & Overy Fee Goossens, Counsel, Allen & Overy

## Legal challenges in the value chain

## Due diligence and greenwashing

Prof. Evelyne Terryn, Professor Commercial, Company and Consumer Law & Co-Director Consumer Competition Market, KU Leuven

### Carbon neutrality for chemicals

### **Science based targets**

Dr. Michiel Stork, Director Sustainability, Guidehouse

## Transparency in the value chain

The digital product passport Wouter Ghyoot, Vice President Government Affairs, Umicore

### **DAY 05**

Friday 31 May | 08:00 - 17:00

Exploring the myriad of pathways towards sustainability in 2050: long-term innovations and considerations

### Keynote

## Strategies towards a sustainable business

Clara Carelli, Sustainability Director,

### **Energy**

### The solution to the problem

Pieter Lodewijks, Programme Manager, VITO / EnergyVille

### **Biodiversity**

### A company perspective

Sandrine Hellinckx, Head of Environment - Corporate Sustainable Development, Syensqo

## The process industry meets nuclear

### **Towards an integrated process**

Rafael Fernandez, Deputy Institute Director Innovative Nuclear Systems and Expert Group Leader Reactor Research and Engineering, The Belgian Nuclear Research Centre (SCK CEN)

### **Renewable Carbon**

### Long-term research initiatives

Michael Carus, Founder and Managing Director, Nova-Institut

### **Closing Keynote**

## An industrial policy to transform the European Green Deal

Florie Gonsolin, Director Industrial Transformation Projects, Cefic

### **Closing Cocktail**

### **Granting of certificates**

Yves Verschueren, Executive Director, essenscia

# IMPRESSIONS FROM PREVIOUS SESSIONS











