

Executive Training

Executive course to master European hydrogen legislation



11-12 April 2024

Sala Europa - Villa Schifanoia, Via Boccaccio 121 - Florence

Course Director

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Introduction

The EU's future renewable and low-carbon market is now taking concrete shape, with the agreement of a raft of new legislation at EU level. Understanding this in depth will be essential for companies investing in this huge opportunity, and for regulators – getting the regulatory framework right in project planning right from the onset will be crucial.



Draft Programme

11 April **Day 1**

9.00 - 10.00 *Introduction to EU policy and approach on Hydrogen*

This section will give the overall framework and market within which the EU's new hydrogen policy operates

Christopher Jones | Florence School of Regulation/RSCAS/EUI

Ilaria Conti | Florence School of Regulation/RSCAS/EUI

- Why is the EU pushing 'clean' hydrogen?
- Terminology; green, blue, yellow, turquoise?
- What is hydrogen used for now, what will it be used for in the future?
- Initial approaches: The Commission's Hydrogen Strategy
- The RePower EU ambition upscaling
- How realistic are the EU targets?
- Will the EU be able to produce all the renewable hydrogen that it will need?
- How could imports be undertaken? In what form? What are the challenges (legal and technical)?
- What role will blue and yellow hydrogen play?

10.00 - 10.30 *Coffee break*

10.30 - 12.00 *The Policy and Legal Framework underlying the EU's Hydrogen revolution; Present and Future*

Kitti Nyitrai | Head of Unit Decarbonisation and sustainability, DG Energy, European Commission

- The wider policy objectives and framework
- Networks: the Gas and Hydrogen Package
- The REDIII Directive
- The Delegated acts – additionality and GHG saving adopted and to come
- ReFuel Aviation and Maritime
- ETS and CBAM
- Forthcoming developments

12.00 - 13.00 *Lunch break*

13.00 - 14.00 *The Gas and Hydrogen Directive and Regulation: regulating the networks – Part 1*

This session will give participants an in-depth understanding of the newly adopted Gas and Hydrogen Package, covering its implications for both network industries and companies operating on the hydrogen and gas markets as producers, importers, traders and purchasers.

Klaus-Dieter Borchardt | Visiting Fellow, Oxford Institute of Energy Infrastructure Studies

Gideon Saunders | Ontras

- Unbundling
- TPA; transmission, storage, import terminals
- Tariffs
- Distribution systems
- Derogations
- Exemptions and conditions for their grant
- TYNDPs and planning

- The new ENNOH body and its responsibilities
- GHG requirements for low-carbon fuels

14.00 - 14.30 *Coffee break*

14.30 - 15.30 *The Gas and Hydrogen Directive and Regulation: regulating the networks – Part 2*

Klaus-Dieter Borchardt | Visiting Fellow, Oxford Institute of Energy Infrastructure Studies

Gideon Saunders | ENTSOG

15.30 - 17.00 *The subsidy and support framework*

In the medium-term, at least before ETS prices rise further and free allowances are further phased out, state aid will be essential if the EU is to meet its objectives. Understanding how the Commission's State aid policy works here is essential for market participants.

This session will give an understanding of how the Commission applies these rules, and an overview of the types of support schemes that are developing, and some of the pitfalls to take into account in project planning.

Anna Colucci | Director Energy and Environment, DG Competition, European Commission

Christopher Jones | Florence School of Regulation/RSCAS/EU

- An overview of the State aid rules: how do they work in practice
 - The legal framework
 - The IPCEI Framework
 - Guidelines on State aid for climate, environmental protection and energy 2022
- Key national support schemes: H2Global, IPCEIs...
- Member States National Energy and Climate Plans: which Member States are the most ambitious, and are they putting into place the necessary financing schemes?
- The US Inflation Reduction Act: how does it work, can you use US subsidies to finance exports to the EU?

19.30 - 21.00 *Dinner in town*

12 April **Day 2**

9.00 - 10.30 *Technical requirements for investors in hydrogen projects – Part 1*

Understanding the detailed and complicated sustainability requirements that any Renewable Fuel of Non-biological Origin, low-carbon fuel, or Sustainable Aviation Fuel must meet is essential to succeeding in the future hydrogen market. These rules need to be built into project development right from the initial stage of project development. This session will provide a detailed guide to these requirements.

William-James Kettlewell | Senior Associate, Baker McKenzie

- Delegated Act on additionally
- Delegated act on GHG reduction
- Mass balance and the EU Data base
- Pitfalls for importers, where to get the CO₂ and how to transport the hydrogen
- Sustainability requirements for Fuels

10.00 - 10.30 *Coffee break*

10.30 - 11.30 *Technical requirements for investors in hydrogen projects – Part 2*

William-James Kettlewell | Senior Associate, Baker McKenzie

11.30 - 13.00 *The RED III and the ReFuel Maritime and Aviation*

The RED III Directive and the ReFuel Regulations set the baseline for the future renewable hydrogen market. They establish targets, obligations, and sets the sustainability criteria for renewable hydrogen and its derivatives.

Christopher Jones | Florence School of Regulation/RSCAS/EUI

Andris Piebalgs | Florence School of Regulation/RSCAS/EUI

Maria Olczak | Research Fellow | Oxford institute for Energy Studies

- Outline of the Directive
- RES target
- Industrial hydrogen obligation on Member States
- Transport targets, and RFNBOs
- The Refuel Regulations
 - What are the targets
 - How will they have to be implemented?
 - What will be their effect?
 - How should companies prepare for the introduction?

13.00 - 14.00 *Lunch break*

14.00 - 15.30 *ETS and CBAM*

The ETS and CBAM are the basis for the development of the EU future hydrogen demand, especially as energy intensive industries – steel, iron, cement and fertilisers – will be progressively fully exposed to the effects of the ETS as free allowances are phased out. Understanding the consequences of this will be essential for companies intending to invest in this area, as it is this – and not subsidies – that will determine the long-term demand for renewable and low-carbon hydrogen. The Hydrogen Bank is financed by ETS revenues and represents one of the key future funding mechanism for EU future hydrogen demand. Samuel is one of the key officials working on this mechanism in the Commission, and will give an overview on its functioning and perspectives.

Samuel Verschraegen | Policy Officer, DG CLIMA, European Commission

- How the ETS works
- What will be the effect of the ETS on hydrogen production in the EU? Who will be affected?
- How will the CBAM change things? How will it work?
- What do companies need to do to prepare for the CBAM?
- The Hydrogen Bank – financed by the ETS and the ETS Innovation Fund

15.30 - 16.30 *Final remarks and Q&A discussion*

This session is targeted as an 'Ask Me Anything' session, to enable participants to pose questions that have arisen during the seminar, to help them relate the overall framework to their business development.

Christopher Jones | Florence School of Regulation/RSCAS/EUI

Andris Piebalgs | Florence School of Regulation/RSCAS/EUI

Leonardo Meeus | Florence School of Regulation/RSCAS/EUI