

Residential Training

Summer School on Regulation of Energy Utilities 2026

29 June - 3 July 2026

Sala Europa - Villa Schifanoia, Via Boccaccio 121 - Florence

Course Director:

Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

Executive Training Officer:

Elena Bondesan | Florence School of Regulation, RSCAS, EUI

Introduction

Europe has undertaken the great task of integrating the energy markets at the continental level. Much progress has been achieved thanks to comprehensive policy and regulatory efforts put forth to coordinate the objectives of all market participants in an open, fair and sustainable competitive market. Energy companies, Transmission System Operators, distribution utilities and every market agent has been tasked to align local policies and regulatory frameworks with an increasingly ever more comprehensive European regulatory framework that fosters cross-border exchange and cooperation.

The FSR Summer School on Regulation of Energy Utilities will provide the most up-to-date and comprehensive view of the key regulatory principles, actions and implications of the current regulatory framework, highlighting the key challenges for the alignment of the industry with the policy goals of sustainability and security of supply.

The Summer School balances theory with practice with key practical study cases illustrated directly by the agents and decision-makers involved, including former and current energy regulators, renowned academics and professionals from leading energy companies.



Programme

29 June

Day 1

09:00 - 09:15 Introduction to the course and tour de table introduction of participants and their course expectations.

Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

09:15 - 10:45 Theory and principles of regulation. Models of regulation.

Alberto Pototschnig | Florence School of Regulation, RSCAS, EUI

10:45 - 11:00 *Coffee break*

11:00 - 12:30 *Jam session:* Restructuring of the energy power industry. Basic policies and features in Europe.

Jean-Michel Glachant | Florence School of Regulation, RSCAS, EUI

Rudi Hakvoort | D-Cision

Ignacio Pérez-Arriaga | Florence School of Regulation, RSCAS, EUI

Alberto Pototschnig | Florence School of Regulation, RSCAS, EUI

Pippo Ranci | Florence School of Regulation, RSCAS, EUI

12:30 - 14:00 *Lunch*

14:00 - 15:30 Traditional regulation of energy utilities. Regulation of monopolistic activities. Approaches to price control.

Rudi Hakvoort | D-Cision

15:30 - 15:45 *Coffee break*

15:45 - 17:15 Service Quality Regulation in Electricity Distribution Networks.

Elena Fumagalli | Copernicus Institute of Sustainable Development, Utrecht University

17:15 - 17:30 Wrap-up of first day.

Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

19:30 - *Welcome cocktail*

30 June

Day 2

09:00-09:15 Introduction.

Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

09:15 - 10:45 Wholesale electricity markets and power exchanges.

Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

10:45 - 11:00 *Coffee break*

11:00 - 12:30 EU Electricity Network Codes.

Ellen Beckstedde | Florence School of Regulation, RSCAS, EUI

- 12:30 - 14:00 *Lunch*
- 14:00 - 15:30 Gas markets.
Flora Triolo | The Brattle Group
Tania Tholot | The Brattle Group
- 15:30 - 15:45 *Coffee break*
- 15:45 - 17:15 Case example on gas markets.
Flora Triolo | The Brattle Group
Tania Tholot | The Brattle Group
- 17:15 - 17:30 Wrap-up of second day.
Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

1 July **Day 3**

- 09:00 - 09:15 Introduction.
Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University
- 09:15 - 10:45 Natural gas network: an overview of main aspects.
Katja Yafimava | Oxford Institute for Energy Studies
- 10:45 - 11:00 *Coffee break*
- 11:00 - 12:30 Case example on gas networks: the EU gas systems.
Nico Keyaerts | ACER
- 12:30 - 14:00 *Lunch*
- 14:00 - 15:30 The electricity transmission and distribution networks.
Goran Majstrovic | Energy Institut Hrvoje Požar
- 15:30 - 15:45 *Coffee break*
- 15:45 - 17:15 Fundamentals on energy tariff design.
Ellen Beckstedde | Florence School of Regulation, RSCAS, EUI
- 17:15 - 17:30 Wrap-up of third day.
Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University
- 18:00 - 19:00 *Guided tour of the Badia Fiesolana.*

2 July **Day 4**

- 09:00 - 09:15 Introduction.
Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

- 09:15 - 10:45 The internal electricity market in a turbulent world.
François Beaude | ACER
- 10:45 - 11:00 *Coffee break*
- 11:00 - 12:30 Retail regulation.
Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University
- 12:30 - 14:00 *Lunch*
- 14:00 - 15:30 Retail market regulation, retail prices and competition.
Csilla Bartók | ACER
- 15:30 - 15:45 *Coffee break*
- 15:45 - 17:15 Impact of the energy transition on electricity tariff design.
Isabel Apolinário | ERSE
- 17:15 - 17:30 Wrap-up of fourth day.
Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University

3 July **Day 5**

- 09:00 - 10:30 Case example on energy markets: Latin American energy markets.
Luiz Augusto Barroso | PSR Energy Consulting and Analytics
- 10:30 - 11:00 *Coffee break*
- 11:00 - 12:30 Toolbox to mitigate congestion in electricity distribution grids: theory and practice.
Tim Schittekatte | Florence School of Regulation, RSCAS, EUI and FTI Consulting
- 12:30 - 14:00 Renewable energy integration: Long-term investment incentivisation through contracts-for-difference.
Lena Kitzing | Florence School of Regulation, RSCAS, EUI and Technical University of Denmark
- 14:00 - 14:15 Wrap-up and conclusions of the course.
Carlos Batlle | Florence School of Regulation, RSCAS, EUI and Comillas University
- 14:15 - *Farewell lunch*

Summer School on the Regulation of Energy Utilities



Alberto Pototschnig | Florence School of Regulation, RSCAS, EUI

Alberto Pototschnig is an economist with extensive experience in energy policy, regulation and market design issues, with a focus on European markets. Between 2010 and 2019 Alberto served as the first Director of the European Union Agency for the Cooperation of Energy Regulators (ACER). After seven years in the consultancy business with London Economics, Alberto joined the Italian Energy Regulatory Authority in 1997. As Director of Electricity Regulation, he was responsible for the design and implementation of technical and economic regulation for the electricity sector. In 2000 Alberto was appointed CEO of the Italian Electricity Market Operator, and later joined the Italian Transmission System Operator (TSO). From 2006 to 2010 he was a Partner in Mercados EMI, an international consultancy specialised in energy markets design and regulation. Alberto regularly teaches in FSR training courses on regulatory and market design issues and directs the 'Regulatory Policy Workshop Series', the longest-running FSR workshop series, investigating the most topical issues in the energy sector.



Jean-Michel Glachant | Florence School of Regulation, RSCAS, EUI

Dr. Jean-Michel Glachant is a Part-time Professor of the Florence School of Regulation and President-elect IAEE 2022. Glachant took his Ph.D. in Economics at La Sorbonne in France. He worked in the industry and private sector before becoming a professor at La Sorbonne. He has been advisor of DG TREN, DG COMP and DG RESEARCH at the European Commission and of the French Energy Regulatory Commission (CRE). He has been coordinator and scientific advisor of several European research projects. Jean-Michel has been the founding editor-in-chief of EEEP: "Economics of Energy and Environmental Policy" (an IAEE journal) and is member of the Board of Editors of 'Energy Journal' since 2012.



Rudi Hakvoort | D-Cision

Rudi Hakvoort has in-depth knowledge and experience in the area of energy network regulation and market functioning. He is presently involved in consultancy for governments and network companies. From 1998–2005, he directed the department Market and Infrastructure of the Dutch Office for Energy Regulation where he was responsible for network quality and capacity development, interconnection, congestion management, market design and market development, market surveillance. Rudi Hakvoort has been chairman of the working group on Congestion Management of the Council of European Energy Regulators (CEER) from 2000–2004 and many national working groups on grid regulation. Furthermore, dr.ir. Hakvoort is regularly contributing to the Florence School of Regulation at the European University (Florence, Italy) and other training courses in the area of energy policy and regulation in Europe.



Ignacio Pérez-Arriaga | Florence School of Regulation, RSCAS, EUI

Ignacio J. Pérez-Arriaga MS and PhD in Electrical Engineering from the Massachusetts Institute of Technology (MIT), and Electrical Engineer from Comillas University in Madrid, Spain. He has advised governments and companies and taught power sector regulation for more than 30 years in over 40 countries around the world. He has supervised about 40 doctoral theses, more than one hundred master theses, edited several books, published one text book on regulation and more than two hundred articles in international conferences and journals. He is an invited professor at MIT since 2008, also professor at the Electrical Engineering Department of Comillas University, and directs the training activities at the Florence School of Regulation, with a focus on FSR Global. He has been member of the board of the Spanish Electricity Regulatory Commission and the Single Electricity Market Committee in Ireland. At Comillas University he was the founder and director for 11 years of its Institute for Research in Technology (IIT) and Vice rector for Research. He is a Life Member of the Spanish Royal Academy of Engineering. He also served for 5 years as a member of the Board of Appeal of the Agency for the Coordination of Energy Regulators (ACER) in the EU. Ignacio was a review editor of the 5th Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), and a member of the Advisory Group of the Energy Roadmap 2050 for the Energy Directorate of the European Commission. He is member of the boards of several foundations and NGOs. He is currently researching on future trends in power systems, electrification planning in developing countries, and regulatory and business model approaches to universal energy access.



Pippo Ranci | Florence School of Regulation, RSCAS, EUI

Pippo Ranci has been Professor of Economic Policy at the Università Cattolica in Milan. His research interests are in regulation and industrial and energy policy. Until 2008 Pippo was director of the Florence School of Regulation at the European University Institute in Florence. Before that, he was president of the Italian regulatory authority for electricity and gas (1996 – 2003), co-founder and vice-president of the Council of European Energy Regulators (2000-2003), and often a consultant to the Italian government (1972-1993). He has advised the SESSA project on energy (in the “Scientific Support to Policies” series) promoted by the European Commission. He has also worked on non-profit organisations, setting up the Italian partner in the Johns Hopkins Comparative Non-profit Sector Project (1989-1994).



Elena Fumagalli | Utrecht University

Elena M. Fumagalli is an Associate Professor of Energy Systems Organisation at Utrecht University’s Copernicus Institute of Sustainable Development (The Netherlands) and a part-time Professor at the European University Institute, Florence School of Regulation, Energy and Climate Section (Italy). She holds an M.Sc. in Nuclear Engineering from Politecnico di Milano and a Ph.D. in Energy Engineering from the University of Padua. Her research focuses on three main areas: incentive regulation for energy networks, electricity market design, and energy access in displacement settings. Within these fields, she has conducted field-data collections, data-driven statistical analyses, developed and applied optimization models, and carried out comparative evaluations of alternative policy approaches. She has served as principal or co-principal investigator on numerous

grant-funded research projects and has undertaken consultancy work for institutions including the Italian Regulatory Authority for Energy, Networks and Environment (ARERA), the Avvocatura dello Stato, the Italian Power Exchange, and various energy companies. She is the (co-)author of more than 80 peer-reviewed journal and conference publications, as well as one book.



Ellen Beckstedde | Florence School of Regulation, RSCAS, EUI

Ellen is a research associate at the Florence School of Regulation (FSR), where she is co-director of the Evolution of Electricity Markets in Europe course. She holds a PhD in mechanical engineering from KU Leuven and Vlerick Business School, Belgium. During her PhD, she examined distribution network planning, flexibility mechanisms, and regulatory sandboxes using both quantitative and qualitative research methods. She graduated from KU Leuven as an engineer specialising in energy in 2019.



Flora Triolo | The Brattle Group

Flora Triolo specializes in arbitration and litigation cases in the energy sector and in the economic analysis of regulated industries. She has worked on several commercial arbitrations, with a focus on the analysis of long-term natural gas supply contracts and the estimation of the competitive price of natural gas in several European and Asian markets. She has assessed pricing policies and margins of producers and suppliers. She has also worked on estimating damages from changes in regulation and contract breaches, including the failure to deliver natural gas and LNG. She holds a M.Sc. in Economic and Social Sciences from Bocconi University.



Tania Tholot | The Brattle Group

Tania Tholot specializes in regulatory and damages issues in international arbitration, state aid, and competition matters. She has worked on cases in Europe, Asia, and Africa, with a focus on the energy sector and regulated industries. Tania's experience includes many cases on the pricing of fossil fuels and renewable energy. In particular, she has performed complex analysis to value flexible deliveries of gas and LNG under long-term contracts throughout Europe, with valuation dates spreading over the past decade. Tania has worked on several cases related to under-deliveries of gas and LNG to European buyers. She has performed several valuations of profit-sharing agreements in the upstream oil and gas sector. Tania has a BS in Mathematics from Pantheon-Sorbonne University and a Masters in Economics and Public Policy from Sciences Po Paris.



Katja Yafimava | Oxford Institute for Energy Studies

Dr. Katja Yafimava is a Senior Research Fellow at the OIES Gas Research Programme. She holds a D.Phil. in Geography and an M.Phil. in Russian and East European Studies from Oxford University. Dr Yafimava is an expert of the UNECE Group of Experts on Gas and a Vice Chair of the Group's Bureau. She was an expert at the EU-Russia Gas Advisory Council during 2012-16. She has also written for Carnegie Centre, German Institute for International and Security Affairs (SWP)

and Italian Institute of International Affairs (IAI) as well as commented for various international media. Dr Yafimava's current main area of research is EU regulation, including regulation of pipeline gas and LNG as well as regulation of decarbonisation, reflected in many OIES publications, including 'EU Gas Storage Regulation: a journey from crisis-induced rigidity to increased flexibility' (2025), 'From Natural Gas to Hydrogen: what are the rules for European gas network decarbonisation and do they ensure flexibility and security of supply?' (2024), 'EU Solidarity at a Time of Gas Crisis: even with a will a way still looks difficult' (2023), 'The TEN-E Regulation: allowing a role for decarbonised gas' (2022), 'Finding a Home for Global LNG in Europe: understanding the complexity of access rules for EU import terminals' (2020), 'Building New Gas Transportation Infrastructure in the EU – what are the rules of the game?' (2018), 'The EU Third Package for Gas and the Gas Target Model: major contentious issues inside and outside the EU' (2013).



Nico Keyaerts | ACER

Nico Keyaerts works at the EU Agency for the Cooperation of Energy Regulators since 2018. Currently, is team leader for energy retail markets and electricity infrastructure tariffs, revenue and investment. Before he was policy officer covering electricity and gas infrastructure development and gas markets. He is a former Research Fellow at the Florence School of Regulation, hosted at the European University Institute in Florence, Italy and at the Vlerick Business School, Belgium. Nico holds a PhD in Mechanical Engineering and a Master in Business Engineering, both from KU Leuven in Belgium.



Goran Majstrovic | Energy Institut Hrvoje Požar

Dr. Goran Majstrovic is a Deputy Director and Head of Transmission and Distribution Department in the Energy Institute of Croatia (EIHP) where he has been working since 1998. EIHP is a scientific, research and energy consultancy institution. The field of Goran's interest is transmission system planning and analysis as well as electricity market design and RES integration. He served as a consultant for the European Commission, regulatory agencies, TSOs, DSOs, power companies, Energy Community Secretariat, IAEA, EBRD, KfW, World Bank, USAID, US Energy Association, RES investors and developers etc. As an author he published more than 150 studies and more than 100 papers. Goran serves as a lecturer at the post-graduate MBA study Energy Economics at University of Rijeka, Croatia. He is a vice-president of Croatian CIGRE Committee and a Member of the Scientific Council for Energy in the Croatian Academy of Art and Science.



Francois Beade | ACER

Francois Beade acts as head of strategy and communication for the EU agency for the cooperation of energy regulators (ACER). Previously, he held various roles at ACER and at the DG Competition of the European Commission (authorising national support schemes in the energy sector). Francois also worked for RTE, a French electricity network operator, on various topics related to electric markets and operations of electricity systems. He holds a Master in Engineering from Ecole Polytechnique and a Master's of Science in Nuclear Engineering and Engineering Physics from the University of Wisconsin, Madison.



Csilla Bartók | ACER

Csilla Bartók joined ACER as Senior officer for Framework Guidelines and Network Codes for Gas in 2011. Since 2021 she was Gas Markets & Energy Retail Team Leader. In 2024 she became the Head of Gas, Hydrogen and Retail department. Csilla is responsible for gas market regulation and monitoring, network code development and implementation, the emerging rules on hydrogen markets and energy retail markets with a focus on monitoring. Before joining ACER, Csilla worked at the European Commission's DG Energy as policy officer, at the OECD as competition and trade analyst and at DG Competition as merger case handler. Csilla holds master's degrees in economics, international economics, and political sciences, as well as an executive MBA.



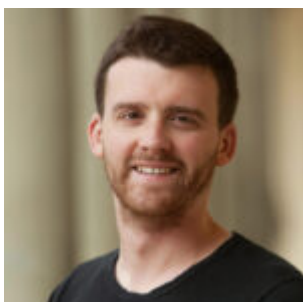
Isabel Apolinário | ERSE

Isabel Apolinário is a Member of the Board at ERSE – Portugal's Energy Services Regulatory Authority, bringing over 20 years of experience in energy regulation. With an extensive background in economics and energy policy, she has contributed to shaping the regulatory framework for the energy sector. She began her career at ERSE in 1998, where she has held several positions. As Director of the Pricing, Tariffs and Energy Efficiency Division, she was responsible for the design and implementation of tariff regulation for the electricity and gas sectors. Isabel also gained industry experience at EDP Portugal and has contributed internationally through her involvement in gas working groups at CEER, ACER and MEDREG. She holds a degree in Economics and a Master's in Economics and Energy and Environmental Policy from ISEG, University of Lisbon.



Luiz Barroso | PSR Energy Consulting and Analytics

Luiz Barroso is the CEO of PSR Energy Consulting and Analytics, an Affiliated Researcher of the Institute for Research in Technology (IIT) of the Comillas University in Spain and an independent member (as an energy expert) of the Brazilian National Council for Energy Policy. He is a past president of the Brazilian Energy Planning Agency, and was a visitor in the International Energy Agency. His professional experience spans over planning, operations and economics of energy systems with work experience in more than 30 countries during 27 years. He has also been involved in numerous academic and lecturing activities, including at the Florence School of Regulation, where he lectures since 2010. He has more than 200 academic publications and was associated editor of several peer-reviewed journals. Luiz is an IEEE Fellow for his contributions on energy markets and regulation and a recipient of the 2025 IEEE Leadership in Power Award. He holds a BSc and PhD degree in Applied Mathematics.



Tim Schittekatte | FTI Consulting and Florence School of Regulation, RSCAS, EUI

Tim is a Part-time Assistant Professor at the Florence School of Regulation. He is also a Senior Director at FTI Consulting in London working on projects related to power market design and regulation across the globe. He is affiliated to the MIT Energy Initiative (MITEI) and the MIT Center for Energy and Environmental Policy Research (CEEPR). Previously he was a Senior Lecturer at the MIT Sloan School

of Management where he instructed the course “Engineering, Economics and Regulation of the Electric Power Sector”, a Research Scientist at the MITEI and a Research Fellow at FSR. He graduated as an engineer from Ghent University, Belgium and completed the EMIN program, an international master programme in economics. He holds a PhD in energy economics from University Paris-Sud XI.



Lena Kitzing | Technical University of Denmark

Lena Kitzing is since September 2023 part-time Professor at FSR and teaches the course Regulation and Integration of Renewable Energy. She is full Professor of Energy Economics and Policy at the Technical University of Denmark, where she is also leading the multi-disciplinary Division of Wind Energy Systems. Her research spans across the energy-economy-society nexus and especially concerns the effective governance of energy systems through policy instruments, with particular focus on deployment and financing of renewables and their integration into the energy system. Lena is a leading expert in auction design for renewable energy procurement, contracts-for-difference design and the economics and policy for offshore wind energy. She has participated in and coordinated many international research projects. Lena is an experienced lecturer, having developed and conducted university courses at five different institutions. She supervises PhD students and Master thesis projects. Lena is a sought-after scientific advisor to public and private organisations, is regularly invited to key-note speeches and high-level events, and appears in the media on energy related issues. Since March 2022, Lena is member of the European Scientific Advisory Board on Climate Change, with a mandate by the European Climate Law to advise European policymakers and stakeholders on climate and energy related decisions ([Climate-advisory-board.europa.eu](https://climate-advisory-board.europa.eu)).



Carlos Batlle | Comillas Pontifical University and Florence School of Regulation, RSCAS, EUI

Carlos Batlle is Associate Professor at Comillas Pontifical University in Madrid, part-time Professor of the Florence School of Regulation (FSR) and Research Affiliate of MIT CEEPR. At Comillas he teaches Energy Economics and Electric Power Systems Regulation, and he is also member of the Institute for Research in Technology, where he leads research projects and supervises PhD and master dissertations. At the FSR, an institution under the aegis of the European University in Florence, he is member of the Training Program for European Energy Regulators and (among other courses) Director of the FSR Annual Training on the Regulation of Energy Utilities. From 2011 to 2024 he served at the MIT Energy Initiative and the MIT Sloan School of Management, teaching the course entitled “Engineering, Economics and Regulation of the Electric Power Sector” and also leading research projects and supervising master and PhD thesis. He has worked and lectured extensively on electric power systems regulation, with special focus on markets and end-user rate design. He has also a vast experience on the operation, planning, and risk management modeling of electricity generation. He has rendered consulting services for (mainly) governments and international regulatory institutions in over 30 countries. He has published over 40 papers in national and international journals and conference proceedings and authored 10 book chapters. He is also member of the Advisory Academic Panel of Ofgem, the UK energy National Regulatory Authority.