

# ANNUAL REPORT 2022

## FLORENCE SCHOOL OF REGULATION





## Table of Contents

■	FSR IN NUMBERS	1
■	SECTION 1 - TRAINING COURSES	15
■	SECTION 2 - EVENTS	25
■	SECTION 3 - RESEARCH	24
■	SECTION 4 - DISSEMINATION ACTIVITIES	48
■	SECTION 5 - LIGHTS ON WOMEN	61
■	SECTION 6 - EXTERNALLY FUNDED PROJECTS	66



“

The mission of the Florence School of Regulation (FSR) is to develop and spread ideas that can improve policy and regulation in the sectors that we focus on: transport, water, and energy. We are a unique combination of a university research group, a think tank, and an executive education institute. We started in Europe and are increasingly active at the world level.

”

[fsr.eui.eu](https://fsr.eui.eu)





# FSR pillars

## RESEARCH

The school carries out multidisciplinary research with the purpose of developing economically, legally, and socially-sound regulation and policy.

## TRAINING COURSES

Designed by an international faculty of academics and the main experts in the field, our courses are designed to meet the educational needs of professionals at all levels.

## POLICY EVENTS

Our events bring together the world of academia and practice to offer a vast range of opportunities for open discussion and practice sharing.



# FSR IN NUMBERS

- FSR SECTORS & TEAMS
- TRAINING
- POLICY EVENTS
- ONLINE SERIES
- RESEARCH
- DISSEMINATION ACTIVITIES
- LIGHTS ON WOMEN
- SCHOLARSHIPS
- RESEARCH PROJECTS

# FSR SECTORS & TEAMS

## FSR community



The FSR is a global community of more than 60 professionals located in different parts of the world. We have a team based in Florence supported by a strong community of advisors, professors, and researchers worldwide.

Our professors come from top universities, policy-making institutions, and regulatory institutions in 12 different countries. They contribute to the research and teaching activities of the School, bridging the worlds of academia and practice through an interdisciplinary approach.

### 3

## Research teams



Climate



Electricity



Gas, Hydrogen & Decarbonisation

### 3

## Sectors



Transport



Water



Energy

### 54

## Donors

10

2

42

# TRAINING COURSES

Our training portfolio is continuously improved to be up to date with policy developments and regulations of the energy, transport, and water sectors in Europe and worldwide. We also cover the climate policies that apply to these sectors.

Our courses are divided into three levels: highlights, fundamentals and specialised; and two categories: class and community.

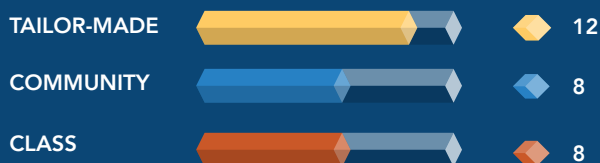
“Community” are online courses with unrestricted admission, offering flexible learning paths and participants-led sessions. They are designed for diving deep into the topic while interacting with instructors and peers.

“Class” are exclusive and highly personalised courses, tailored to a limited number of participants and offering numerous live and interactive sessions. They are designed to enhance learning and networking opportunities.

FSR also offers tailor-made training courses designed to meet the specific needs and requirements of the requesting organization. In 2022 we organised 12 tailor-made courses for a broad audience from Europe, Africa and Asia.

## 28

Training courses



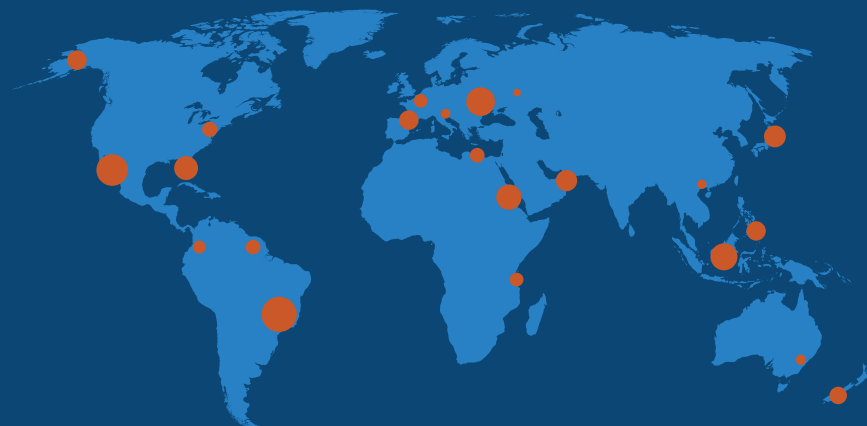
## 1878

Participants



## 111

Countries



## 181

Instructors & panellists



Participants

57% male  
43% female

# POLICY EVENTS

Our policy events bring together experts from all across the world to deliver high-level workshops and conferences on the hot topics of the energy sector on the biggest trends in the energy, climate, transport, water and waste sectors. Our events target regulators, practitioners and academics.

Most of our policy workshops are by invitation only and follow Chatham House Rule. They are created for our donor community to discuss the latest regulatory and policy issues and collect inputs to push our research agenda forward. Some events are sector-specific while others are more interdisciplinary.

## 17

Events

WORKSHOPS



12

CONFERENCES



5



## 930

Participants



## 190

Organisations

## 35

Countries





# ONLINE SERIES

1723

Participants in 15  
FSR Debates



892

Participants in 10 ad  
hoc online events



462

Participants in  
5 FSR Talks



796

Participants in 6  
FSR Insights



3873

Total number of  
participants

The **FSR online series** take place each Wednesday and are freely accessible upon registration or via Livestream on our social media channels.

**#FSRTalks** are live interviews with experts from the wider network of the School to showcase and discuss recent research work (i.e. a book just published, a case study, an innovative project) in a light and interactive way. They are hosted by Prof. Jean-Michel Glachant and Swetha RaviKumar.

**#FSRInsights** are hosted by Prof. Leonardo Meeus and Prof. Lucila de Almeida. This series focuses on research insights. The series gives us the chance to share our findings and to collect feedback on ongoing research by engaging with the audience and invited experts.

**#FSRDebates** are hosted by Professors Alberto Pototschnig, Ilaria Conti, Andris Piebalgs and Christopher Jones. The focus of this series is on recent court cases, regulatory decisions, EU legislation, or public consultations to be discussed by a panel of experts.

# RESEARCH

Different publication formats are employed depending on a variety of factors, including the aim and audience of the research outputs: policy papers, policy briefs, working papers, books, journal articles, research and technical project reports.

The most-read policy briefs of 2022 focused on the European energy crisis (e.g., Capping the European price of gas), on the EU Emission Trading System (e.g., Social impact of ETS) and on modal shift (e.g., Towards EU-wide intermodal ticketing).



10  Book chapters

4  Books

14  Journal articles

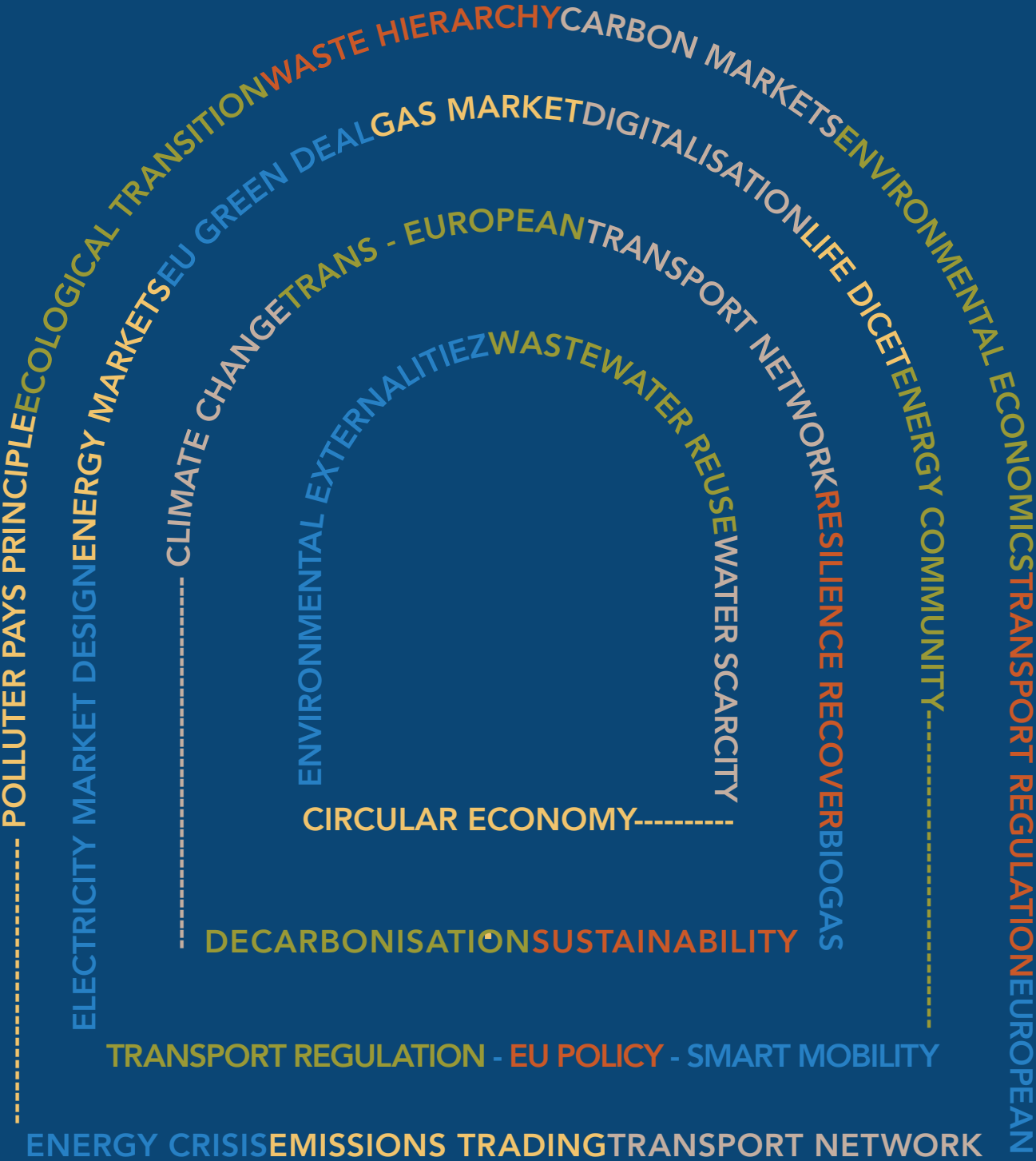
32  Other publications

22  Policy briefs

11  Technical reports

6  Working papers

RESEARCH KEYWORDS



# DISSEMINATION ACTIVITIES



“A first look at REPowerEU: The European Commission’s plan for energy independence from Russia”, “Electricity markets in the EU” and “Between Green and Blue: a debate on Turquoise Hydrogen” were the most read articles on our website.

The Topic of the Month is a content type released in monthly instalments with a common thread. Each month, the instalments break down current issues as understood and explained by our academic staff. This year we published 17 instalments addressing ongoing trends: COP 27, methane emissions reduction, energy infrastructures, the electricity market design and its reforms, the price cap on gas and gas storage.



**650,575**

Page views on  
the website



**Users**

56% Male  
44% Female



# LIGHTS ON WOMEN

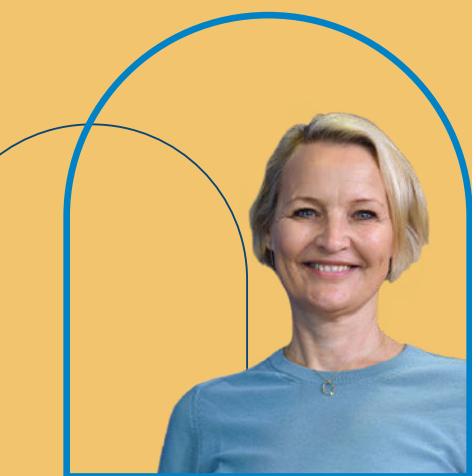
The FSR launched the new Lights on Women platform and, within it, the Energybase, the database for women in energy, climate and sustainability. The platform intends to champion, train, and advocate for women in these sectors and shed light on their work and contributions.

In 2022, Lights on Women became a full member of the European Commission's Equality Platform for the Energy Sector.

“

The energy policy field is central to our society, central to people having heating and electricity which are necessary parts to life. But, it is also essential to our economies, to fairness, competitiveness and essential for our fight against climate change. For these reasons, we need both men and women and specifically we need more women, as the energy sector has been slower in reaching gender balance compared to other sectors.

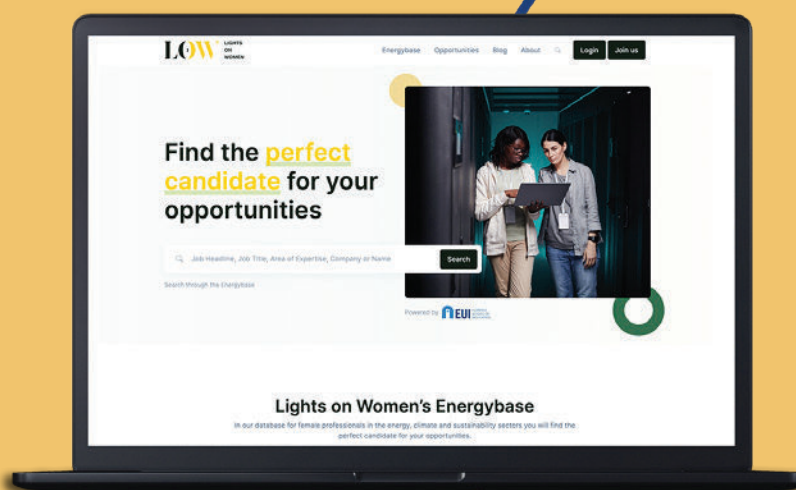
”



Ditte Jorgensen

Director General, DG  
ENER, EU commission

Visit the website



# SCHOLARSHIPS

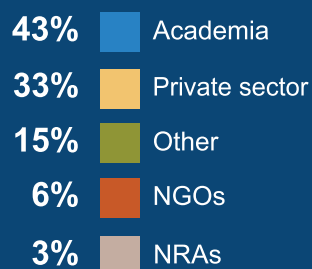
The School launched the FSR Annual Scholarship to promote diversity, equity, and inclusion in the energy field awarding 16 scholarships for all class, community, and residential courses of the FSR training portfolio. Our donor Landwärme contributed with 2 additional scholarships for our class course: Clean Molecules for the Energy Transition.

The FSR awarded 7 scholarships through the 6th edition of the Ana Aguado Scholarship Award in collaboration with E.DSO, ENTSO-E, and Eurelectric and 9 scholarships for the 4th edition of the Lights on Women Scholarship.

- **1st** FSR Annual Scholarship
- **4th** Lights on Women Scholarship
- **6th** Ana Aguado Scholarship
- **33 Free seats** awarded for all FSR class and community training courses



## Who were the winners?



**40% Male**  
**60% Female**  
Participants



**81%**  
Junior  
professionals

## 18 Countries

ALBANIA, AUSTRIA, BULGARIA, CHINA, FRANCE, GERMANY, GREECE, ITALY, LITHUANIA, NIGERIA, PAKISTAN, PANAMA, POLAND, SPAIN, TURKEY, UGANDA, UK, ZIMBABWE

# Solidarity with Ukraine

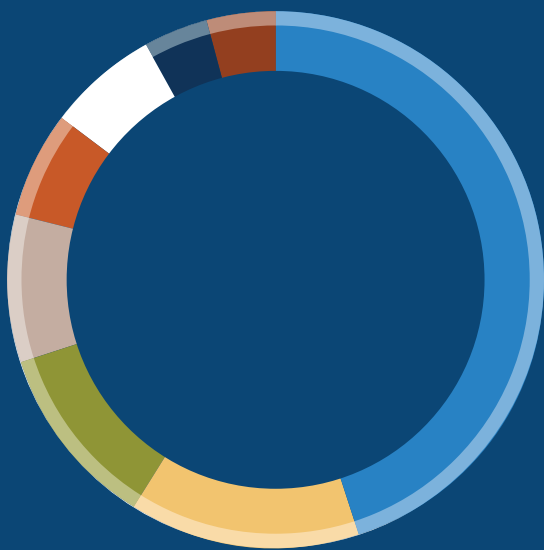


The FSR launched the “Solidarity with Ukraine” initiative offering 50 scholarships to Ukrainians and students, researchers, and professionals in the energy sector of any nationality resident in Ukraine.

**45** Scholarships awarded



## Who were the winners?



45%	Energy sectors	6.5%	International organisations
14%	Others	6.5%	Academia
11%	Legal firms	4%	EU institutions
9%	NRAs	4%	NGOs



**42% Male**  
**58% Female**  
Participants



**44%**  
Junior  
professionals

# RESEARCH PROJECTS

The activities include large-scale European Horizon RDI projects, smaller-scale EU Horizon Coordination and Support Actions, service contracts and studies as well as projects co-funded and fully funded by the EU.

Our research topics range from interoperability and data sharing to global liquefied natural gas (LNG) markets to carbon market integration, electricity network codes, TSO-DSO-consumer coordination, and the recent energy (price) crisis.

The largest project the FSR is involved in is Horizon Europe “OneNet” (One Network for Europe), with 72 partners and 14 demonstrators spread all across Europe.

The FSR values research and its dissemination as two core activities of our School. FSR researchers typically disseminate their research results via a multitude of channels, including academic conferences, policy events, online and in-person events, social media and newsletters.

## 9 PROJECTS



LIFE DICET



INC



LNGnet



POWEREG



int:net



Energy Communities  
Repository



INTERFACE



OneNet



European Climate  
Foundation Study





## Leonardo Meeus

### Director of the Florence School of Regulation

The mission of the Florence School of Regulation (FSR) is to develop and spread ideas that can improve policy and regulation in the sectors that we focus on: transport, water, and energy. We are a unique combination of a university research group, a think tank, and an executive education institute. We started in Europe and are increasingly active at the world level.

2022 is the year of the Russian invasion in Ukraine, and the energy crisis that followed in Europe. As an act of solidarity with Ukraine, we offered 45 scholarships to Ukrainian professionals. Other 33 scholarships were awarded to young researchers, women and professionals in need of financial support coming from 18 different countries. They interacted with the more than 1878 professionals from 111 countries in our executive education programs, and their level of engagement and professionalism has been impressive. We very much welcome the integration of Ukraine in the European project.

During the energy crisis, many new measures have been taken, and even more proposals have been made. The FSR's special combination of professors with experience as policy makers, regulators and academics in different countries has allowed us to make timely contributions to this process. This is illustrated by the 22 policy briefs, and even more important are all the meetings we have had with key decision makers during this crisis. We also had more requests than usual for tailor made training, and have been able to deliver 12 of these customized interventions for the private sector as well as NGOs and international organizations.

Meanwhile, the EU Green Deal legislative train continues. A lot of important files have been discussed this year, and many of the 26 episodes in our online event series (with 3873 participants), 17 policy events (with 930 participants), and 9 research projects are aligned with this process. This is the first time we are putting FSR in numbers across areas. Many thanks to Simone Borghesi (FSR Climate Director), Juan Montero (FSR Transport Director) and Maria Salvietti (FSR Water Director) who agreed to join forces across sectors and research teams.

Beyond Europe, we have several projects. FSR is acting as the incubation center for the African School of Regulation initiative setup by one of our founders Professor Ignacio Perez Arriaga. After an initial phase at FSR, the ASR will move to a hosting institution in

Africa. FSR also setup an office in India, which is now staffed with researchers and senior advisors. We also contributed to the international relation activities of the EU, such as EU-India forum, the EU-China and EU-South Africa relations in the field of energy.

Lights on Women is another special project that continues to shine at FSR. The initiative became a full member of the European Commission's Equality platform for the energy sector. The launch of the database for female experts in 2022 also provides a new dimension to this initiative.

FSR of course also continues to be a university research group. The 2022 highlights of our contributions to the academic community are the election of Prof Jean-Michel Glachant as president of the International Association of Energy Economics, and the election of Prof Simone Borghesi as president of the European Association of Environmental and Resource Economists.

We also had a change of Directors. Many thanks to Jean-Michel Glachant (second director of FSR), and Matthias Finger (first director of FSR Transport) for taking care of our school for more than a decade. They will both continue to contribute to our activities as professors and advisors. The next generation in our school will try to live up to the high standards of the previous generation, and will continue to surprise you with new initiatives, see our upcoming 2023 report!

# SECTION 1

## TRAINING COURSES



Our courses are designed and continuously updated to meet the educational needs of energy professionals at all levels. The courses are developed with the support of an outstanding international training faculty, which includes professors from top universities as well as high-level experts in energy regulation, policy-making, and industry.

We offer different types of training courses: Class and Community (Online, Residential, Blended) and Tailor-made training courses at all levels of knowledge. There are three levels:

**Level 1 – Highlights:** it gives participants an introduction to the topic with the newest updates from the field.

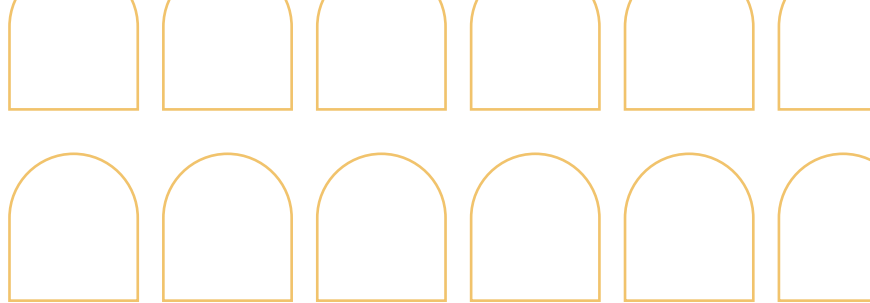
**Level 2 – Fundamentals:** it gives a comprehensive overview of the topic. Participants will dive into the significant elements of the field, thoroughly studying the concepts and refining their accrued knowledge together with peers and instructors.

**Level 3 – Specialised Training:** it takes an in-depth look at a specific topic of the field. These are advanced courses that require a solid background and provide you with a deeper understanding of the subject. Participants are encouraged to take an active role in the course activities as well as apply the specialised information to practical cases.

## Countries of origin of our training participants







## TAILOR MADE TRAINING COURSES

### Decarbonisation, Gases and Lng for Energy Experts From East Asia

10-14 January 2022 | Online Training

The training course focused on decarbonisation, gases, and LNG- and addressed energy experts from the East Asia region. The course outlined and compared key technical options and opportunities throughout the natural gas value chain. It also presented and discussed policies undertaken by the EU and other countries on these topics. This training course targeted participants from the East Asia region, designated as representatives of governmental agencies, and other public bodies in charge of energy; energy companies and their associations; major state-owned and private industrial consumers. The course sits under the LNGnet Project, which has been launched in Spring 2021 by the European Commission to enhance the liquidity, flexibility, transparency, and sustainability of the global LNG market. The LNGnet Project is led by consortium partners: the Florence School of Regulation, Cecoforma, Baringa Partners.

### EU Energy and environmental Policies and their impact on the industry – Tailor Made Training for Baker Hughes

17 February 2022 & 17 October 2022 | Residential Training

This training explored the EU policy approach in addressing environmental concerns and climate change issues, which concretely translated into the publication of a number of energy and climate regulatory initiatives in recent years. In the first part of the session, participants had a chance to understand how the so-called EU Green Deal and the main climate policies could shape the future energy sector and what the implications for the industry would be. In the second part, we opened a window on a very topical debate at the moment in Europe: the recent shift from natural gas towards hydrogen and renewable or decarbonised gases and the possible impact of this policy shift on gas infrastructure. We concluded with a dedicated focus on methane emissions and role in international climate strategies, a topic which has been gaining importance in recent years and is now the focus of important global initiatives.

### Gas Market Design, Structure and Regulation

7-11 March 2022 | Online Training

The training course focused on gas Market Design, Structure and Regulation and addressed energy experts from the West Africa, the Mediterranean and Eastern Partnership regions. The course covered different aspects of gas market such as natural gas key actors, market models and institutions; EU market design and regulation; natural gas trading, market hubs; security of supply and new infrastructure development and case studies from the EU and target regions. The course sits under the LNGnet Project,

which has been launched in Spring 2021 by the European Commission to enhance the liquidity, flexibility, transparency, and sustainability of the global LNG market. The LNGnet Project is led by consortium partners: the Florence School of Regulation, Cecoforma, Baringa Partners.

#### Benefit and measures for international power exchanges – Tailor Made Training for Mediterranean Transmission System Operators (Med TSO)

28 March – 7 November 2022 | Online Training

This tailor-made course was designed to respond to the request of the Mediterranean Transmission System Operators to train MED-TSO representatives on three aspects of electricity market integration (“what”, “why” and “how”), by describing: the concept of cross-border electricity exchange and system and market integration; the theoretical framework for cross-border electricity trading and the benefits from market integration, the different possible models of market integration, their pre-requisites, governance and institutional implications and the available international experience; and the electricity generation pricing.

#### Leadership Infrastructure Development Programme

May 2022

Fundação Escola de Sociologia e Política de São Paulo leads MBA programmes specialised in Sanitation and in Public-Private-Partnerships and concessions. FSR Water contributed to these MBAs through presentations on Regulation in the water and sanitation sector (regulation by contract, regulation by agency).

#### Capacity building for regulators in Asia to support increased and sustainable power system connectivity – Tailor made training for UNESCAP

July 2022-December 2024 | Online Training

The objective of this project was to develop a set of capacity building toolkits focused on connectivity and aimed at regulators. The primary focus of the toolkits was on regional power system integration and alignment with the sustainable development goals. For this reason, a series of workshops and regional fora will be organised for each identified sub-region. The target audience for this course was primarily regulators, but also utilities, policy makers, and private sector stakeholders in subregions of East and North-East, South-East and South and South-West Asia.

#### Training and capacity building program RegWAS LAC by LIS-Water

August - September 2022

This programme for the improvement of public policy and regulation on water and sanitation services in Latin America and the Caribbean is funded by IDB and led by LIS-Water. The FSR Water contributed through training sessions dedicated to Environmental regulation (*Internalizing externalities: what and how?*) and Regulation of emerging challenges of the sector (*Learning from experiences in Europe*).

## International Summer School on regulation of local public services

12-16 September 2022 | Online Training

The 24th Summer School proposed by The Turin School of Regulation is designed to offer a “full immersion” in user charges regulation of local public services (e.g. waste, water, public transport, district heating, sport facilities) and is mainly addressed to undergraduate students at their last year, PhD and graduate students and officials from the Public Administration (municipalities, counties, regional bodies) and regulatory agencies. The course lasts one week and is articulated in two parts: theoretical module and industry analysis and case studies. The FSR Water took part in the Summer School to present a case study on contractual regulation in the water sector.

## Programme Taka Nadifa

September 2022

The programme Taka Nadifa supports the development of the renewable energy sector and energy efficiency in Algeria. It is co-funded by the EU. The FSR Waste contributed to the programme by presenting opportunities and challenges of the development of Waste to Energy as a promising stream of renewable energy for Algeria.

## Fundamentals and future prospects of electricity trading in the EU

- Tailor-made training for Climate Action Network (CAN)

8-9-10 November 2022 | Online Training

This tailor-made course was designed to respond to the request of Climate Action Network (CAN) for a training on them fundamentals of electricity trading in the EU with a specific focus on the the current market design challenges linked to the increasing penetration of renewables in the electricity mix. Its aim was to complement the CAN Europe’s team expertise in electricity markets. To meet the learning objectives, the course was divided in 3 modules and covered the background and fundamentals of electricity trading; the day-ahead and intraday trading and balancing in the EU Internal Electricity Market and the current debate on electricity market.

## Electricity sector liberalisation and trading – Tailor Made Training for CORESO

21 November 2022 | Residential Training

This tailor-made course was designed to respond to the request of Coreso for training in the areas of electricity sector liberalisation and trading. During this one-day training, participants had the opportunity to familiarise themselves with the fundamentals of EU electricity market liberalisation and energy trading in the internal electricity market. In particular, during the course participants were provided with an outlook on the main challenges facing the electricity sector and its market design. They also discussed the process of electricity sector liberalisation in the EU, the governance of the electricity market, the interconnection capacity in the market, the rules for the allocation of long-term transmission rights, and coupling and the EU market coupling algorithm.

## LNG Market Structure, Organisation and Arrangements

6-8 December 2022 | Residential training

The training course focused on LNG market structure, organisation and arrangements and addressed energy experts from different countries in Africa and Middle East. The course covered different aspects of LNG market structure such as LNG key actors and market organisation; LNG pricing and financing; trading arrangements and corporate strategies; regulatory issues and the role of LNG in the energy transition. Case studies from the EU and target regions. The course sits under the LNGnet Project, which has been launched in Spring 2021 by the European Commission to enhance the liquidity, flexibility, transparency, and sustainability of the global LNG market. The LNGnet Project is led by consortium partners: the Florence School of Regulation, Cekoforma, Baringa Partners.

## COMMUNITY TRAINING COURSES

### EU Gas Network Codes

26 January – 16 March 2022 | Online

This 8-week online course focused on the implementation of the EU Gas Network Codes (NC) and on the important effort required from many participants of the market and sound competence and specialised resources. It aimed at providing participants with comprehensive knowledge about the EU Gas Network Codes thanks to experts actively involved in their development – national TSOs and ENTSOG.

### Linking Emissions Trading Systems

31 January – 27 February 2022

The Linking Emissions Trading Systems online course combined scientific and policy expertise to learn about the relevance and challenges of linking emissions trading systems (ETSs). The objective of this course was to translate into practical learning the issues discussed in the Carbon Market Policy Dialogue of the LIFE DICET project and to bring them to a wider audience. The participants in the training gained knowledge about the theory of ETS linking as well as on the state-of-play of existing ETS. Special attention was devoted to the six ETSs represented in the Carbon Market Policy Dialogue (those of California, Quebec, EU, Switzerland, China and New Zealand) and to the implications of differences in carbon leakage prevention and in use of offsets. In addition, participants were able to learn more about what policy reforms can facilitate carbon market integration.



## The EU Green Deal

3 May – 27 June 2022 | Online

This 8-week FSR online Training on the EU Green Deal covered the fundamentals of energy and climate policy as reformulated in the context of the EU Green Deal. The course focused on the Green Deal measures related to climate and energy policy. Its aim was to make it easier for a wider audience of stakeholders, energy professionals, and academics to enter into the ongoing processes launched by the EU Green Deal and develop an understanding of the wide impact of the Green Deal on EU climate and energy policy

## The Regulation of the Power Sector

28 March– 14 July 2022 | Online

This 15-week course gave an overview of the fundamental concepts of power sector regulation from an engineering, economic and regulatory perspective. This online course highlighted the connection between strategic governance of the power sector and economic growth. It also provided the participants with the fundamentals for working in power sector regulation, whether in a regulatory commission, in a regulatory department within a company or as a policymaker. Led by world-class experts, the course provided the students with a comprehensive understanding of the main concepts and ideas behind sector regulation from an engineering, economic and regulatory perspective.

## Regulation for Sustainable Development Goal 7

10 May – 31 October 2022 | Online

This 5-month online course analysed the multi-dimensional approach to energy access, by emphasizing the role of regulation in bringing actionable solutions to these problems. This training provided the learner with insights on how to design the appropriate policy and regulatory framework needed to achieve Sustainable Development Goal 7. Learning outcomes included: understanding the interdependence of the tools available to address energy access including the technologies (traditional, clean and smart), finance, business models and regulatory instruments; and the wider impact energy access has on health, education and on overall socio-economic development.

## Evolution of Electricity Markets in Europe

20 September – 17 November 2022 | Online

This 8-week training provided insights on how European electricity markets have evolved from the onset of liberalisation until where we are today. The first generation of EU electricity network codes was an important cornerstone of this training, together with the debate around the second generation of network codes following the adoption of the Clean Energy Package (CEP). In addition, the course covered how the CEP enhances the role of DSOs and the link between electricity markets and consumers, whether individually as prosumers, or via intermediaries such as aggregators, energy communities, or others. Organised by FSR in cooperation with ENTSO-E, the European Commission and ACER.

### Regulatory Delivery – Special Edition in Portuguese

9 September – 28 October 2022 | Online

This 7-week course shared optimal governance models experienced in Europe for the energy transition while comparing them with innovative initiatives in South America, Asia, and Africa. During the course, participants reviewed increasingly complex infrastructure regulation due to public policies promoting liberalisation, decarbonisation and digitalisation. This year, we held a special edition of the training course completely taught in Portuguese.

### Electric Vehicles: a power sector perspective

2 November – 5 December 2022 | Online

This specialised 5-week online course was specifically designed for professionals who wish to understand the evolution of mobility in depth and address the challenges posed by the ever-growing number of EVs on a global scale, namely: facilitating apt deployment of the charging infrastructure, ensuring integration of EVs into the power system securely and efficiently as well as looking at the prospects of appropriately scaling it in the future.

## CLASS TRAINING COURSES

### Introduction to Fundamentals of Energy Regulation

28 March – 6 April 2022 | Online training

This course comprehensively explained both the theory and practice of the key aspects of the EU electricity and gas regulation, across the energy cost chain from wholesale markets through to networks and retail issues. The training course was specifically designed for participants from National Regulatory Agencies, European Institutions and other public authorities looking for an introduction to, and a comprehensive overview of EU energy regulatory principles and practice. Attendees were provided with a clear understanding of the economic and legal frameworks of the European energy regulation, including an explanation of the main institutions and participants involved. Organised by FSR and the Council of European Energy Regulators (CEER)

### Executive Course to Master Electricity Markets

19 April – 6 July 2022 | Online training

The 6th edition of the course followed a new design to fit a new interactive online format. The course gathered a group of senior practitioners to discuss and share experiences about both the economic and political forces that drive the debate on the evolution of power and carbon markets to enable and support the decarbonisation of the power sector. The course had a very interactive approach and discussed current policy debates on the implementation of the Clean Energy Package and the challenges associated with the new Green Deal, the introduction of capacity mechanisms, scarcity pricing, the reforms of bidding zones, as well as the reform of renewable support mechanisms and the European Emission Trading Scheme.

## Clean Molecules for the Energy Transition

13 June – 1 July 2022 | Online training

The Clean Molecules for the Energy Transition course from the Florence School of Regulation explored the debate around clean molecules and their uptake in strategic areas, a topic which has become an important EU policy and regulatory focus. The 3-week training offered a comprehensive overview of the development of renewable and low carbon gases in the EU and global context: relevant case studies, topical discussions and panel debates were presented by leading professionals. The class was composed by different professionals following the debate on the decarbonisation of the energy system who were interested in having a deeper understanding of the future role of gas and its support to the energy transition.

## Summer School on Regulation of Energy Utilities

4 – 8 July 2022 | Residential training

This course provided a comprehensive and up-to-date overview of the key regulatory principles, actions and implications of current regulatory framework, highlighting the central challenges for the alignment of the industry with the policy goals of sustainability and security of supply. The Summer School balanced theory with practice, as illustrated by the experts involved in the programme, including former and current energy regulators, renowned academics and professionals from leading energy companies.

## Summer school on Economic Foundations for Energy and Climate Policies

19 – 23 September 2022 | Residential training

The main objective of the School was to provide PhD students in Economics with high-level academic training on the micro-economic foundations of energy and climate policies. The School also aimed at supporting the development of a PhD-student network for students interested in the topic, and connect them with academics in the field. The school consisted of four days of teaching by four prominent academics, supplemented by three sessions of students' presentations and a roundtable with policymakers. The teaching was of a 'learning by doing' style based on instructors' papers that are considered frontier in the field, where students can see applications of methodologies and models that they have previously learned. The 49 participants were sent papers in advance for preparation for the School and some were selected to present their research. Organised by FSR Climate (EUI), Universidad Carlos III, DIW Berlin, Technical University Berlin, Universidad Autónoma de Madrid, University College London and Université Libre de Bruxelles.

## Summer School on Energy Systems for Young Researchers: Heating in a decarbonised energy system

26 - 29 September 2022 | Residential training

The third edition of the FSR Summer School on Energy Systems for Young Researchers focused on the economic, policy and regulatory aspects of sector coupling in the European Union and the possible ways to model and investigate them quantitatively. The

training analysed the economic, policy and regulatory aspects alternating theoretical classes with lectures dedicated to modelling and research skills. In this way, participants gathered a general overview of current developments in the European energy policy and the importance of integrating different energy end-uses and vectors to achieve the energy transition. Participants also had the opportunity to learn how to explore relevant regulatory and policy issues from concrete modelling exercises and exemplary applied research and to present their current research on the topic, receiving accurate feedback from peers and the course faculty. Organised by FSR and the Fraunhofer Cluster of Excellence “Integrated Energy Systems”.

### Annual Training on the Regulation of Energy Utilities

04 October 2021 – 26 June 2022 | Online Training & Residential event

The 20th edition of Annual Training has been re-designed into a 9-month online course. The new programme focused on the fundamental principles of the regulation of the power and gas sectors through theory and practice, learning from European leaders, former regulators, leading academics and industry specialists and practitioners. Every other week, participants discussed and learned from a different instructor via two interactive live classes, a Q&A session, and a master class led by a leading expert (around 35 live sessions in total). The course was designed to ensure students had close and personalised interaction with the instructors. The training was complemented by a residential workshop hosted in Florence to offer to the alumni the opportunity to attend a series of lectures offered by leading characters of the energy sector on the hottest current policy and regulatory challenges and to share the experience with their peers, having the chance to meet in person other alumni, coming from all around the world.

### Specialised Training on the Regulation of Gas Markets

24 October – 18 November 2022 | Online training

This 5-week training covered the basic principles of gas regulation, as well as the most topical issues in Europe and worldwide. In addition to learning about the gas market context, course participants received a more in-depth perspective of gas market dynamics, and a comparison of different regional gas market models and developments, covering the building blocks of European gas regulation as well as perspectives on the future of gas in an evolving international landscape. The course started with a three-week preparatory block which provided participants with the core knowledge and instruments needed to approach the study of gas markets, regulation, and policy. After completing these preparatory materials, students were challenged to apply and further develop their knowledge in a full week of online live classes.



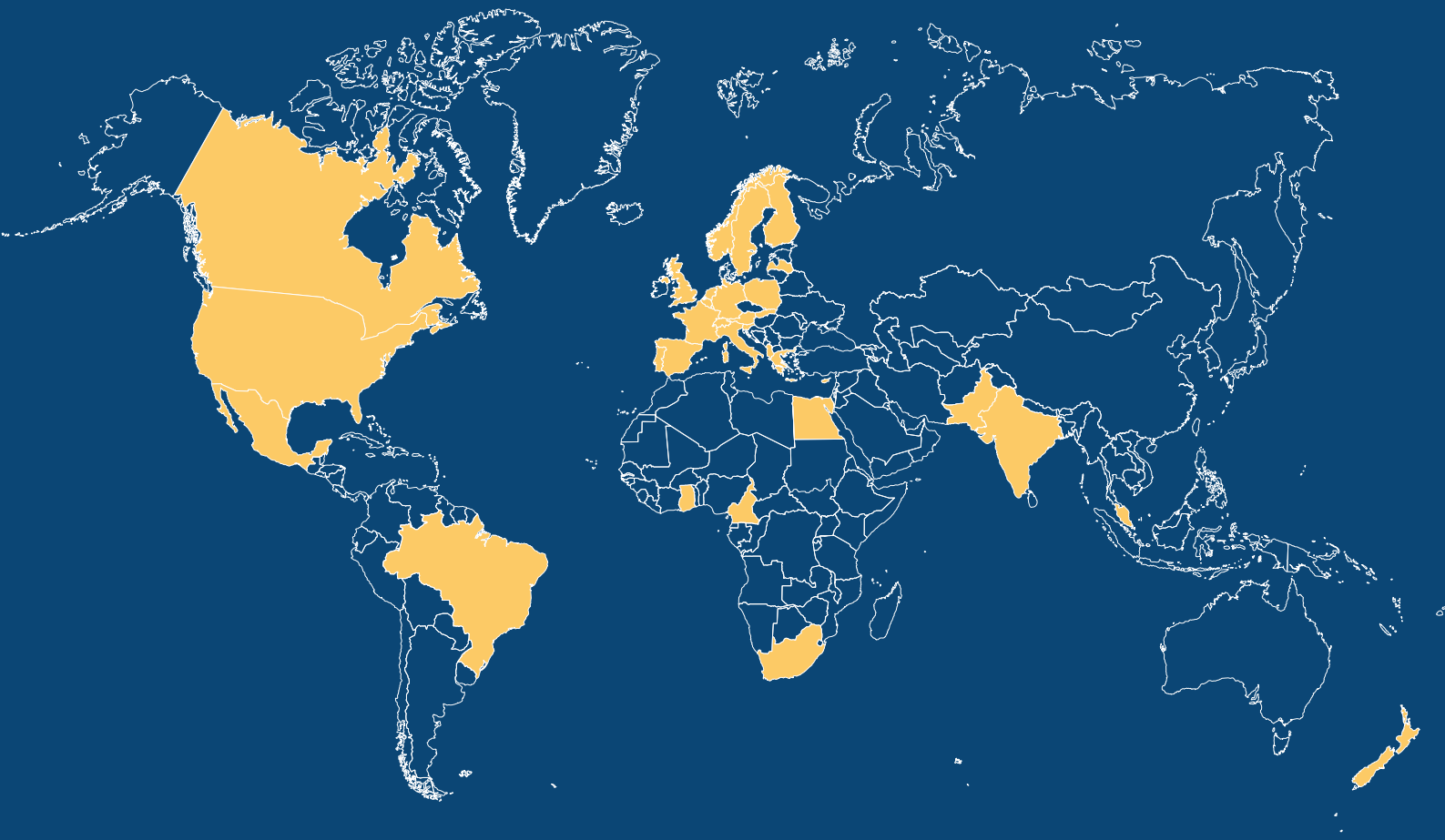
# SECTION 2

## EVENTS



Our policy events bring together experts from all across the world to deliver high-level workshops and conferences on the hot topics of the energy sector. Our events target regulators, practitioners and academics. These events provide a platform for innovative discussion and practice-sharing, and offer opportunities for close interaction with the key stakeholders at various locations across Europe and worldwide.

## Countries of origin of our policy events participants







## POLICY EVENTS



### Electricity

---

#### Electricity prices and market design

11 March 2022 | Online | FSR Regulatory Policy Workshop

The surge in electricity prices over the last few months have led to calls by different stakeholders, including some national governments, to introduce changes in the electricity market design. For example, on 5 October 2021, the governments of Spain, France, the Czech Republic, Romania and Greece issued a common statement calling for a reform of the day-ahead electricity market, which would need to be improved. Following this call, a number of 'non-papers' were released in November 2021 proposing a variety of measures. Against this background, and without trying to pre-empt the assessment being conducted by ACER, but rather possibly contributing to it, the Workshop aimed at digging deeper in the proposals recently floated and discussed by many stakeholders to assess whether and which other measures related to the electricity market design, beyond the pricing mechanism, could and should be considered to deal with the much higher electricity prices now and, most likely, in the forthcoming energy transition. For this purpose, the Workshop was structured in two sessions. The first session aimed at identifying the scope and details of the proposals on market design enhancements which have been put on the table over the last few months. The second session considered these proposals and assess the extent to which (some features of) the current electricity market design could be enhanced or complemented to support the future energy transition.

#### Decentralised resources and flexibility

25 March 2022 | FSR Regulatory Policy Workshop

This policy workshop on decentralised resources and flexibility aimed at identifying which aspects of the current organisational, regulatory and market design frameworks will need to be adapted to enable the increasing penetration of Distributed Energy Resources (DERs). For this purpose, the workshop was structured in two sessions. The first session aimed at identifying which aspects in the current regulatory and market design (especially in relation to balancing and reserve markets) would need to be adapted to enable the participation of DERs. The second session considered which new market structures would be required fully to exploit and support the participation of DERs in the most efficient manner and which organisational model might best serve these developments. A recent report produced by the Florence School of Regulation on "Distributed Energy Resources and electricity balancing: visions for a future organisation" was presented at the Workshop and its conclusions discussed.

## ACER's assessment of the electricity market design: what options for the future?

20 May 2022 | FSR Regulatory Policy Workshop

In its Communication "Tackling rising energy prices: a toolbox for action and support" of 13 October 2021, the European Commission indicated, inter alia, that it would have tasked ACER "to study the benefits and drawbacks of the existing electricity market design and propose recommendations for assessment by the Commission by April 2022". ACER consequently published the results of its analysis in April 2022.

This policy workshop considered the results of ACER's analysis and discuss what the implications of these results are for any future enhancement of the wholesale and retail electricity markets in the EU. For this purpose, after an opening session, the workshop was structured in two sessions. The first session focused on the wholesale electricity market and, possibly, the wholesale gas market, to the extent that the ACER's analysis covers the latter as well. The second session focused on the retail energy market.



### Energy Policy

---

#### Policy Advisory Council meeting – FSR Energy

20-21 June 2022 | Hybrid | Policy Advisory Council meeting

5-6 December 2022 | Hybrid | Policy Advisory Council meeting

The Policy Advisory Council discusses the most topical regulatory and policy issues and debates the relevance and robustness of the latest FSR research findings. The meeting gathers renowned academics, experts from the FSR Energy Major Donors, the European Commission, the EU Agency for the Cooperation of Energy Regulators (ACER), and National Regulatory Authorities.

#### From Energy Saving to Rationing: Getting it Right

11 November 2022 | FSR Regulatory Policy Workshop

This Workshop intended to review the state of the art with respect to measures aimed at promoting or mandating energy savings and with the approach to energy demand rationing. For this purpose, the Workshop, was divided into two Sessions. The first session focused on measure to promote or mandate energy savings, with particular focus on the extent to which these measures have been designed to achieve the highest level of savings at the lowest social costs. The second Session, aimed to review how planning for rationing has been approached in the different jurisdictions.



### Workshop on Law in the EU's Circular Energy System: Biowaste, Biofuel and Biogas

27 January 2022 | FSR Workshop

The development of the EU's circular energy system occurs in a complex legal landscape, covering a multi-level jurisdictional system and crossing many economic sectors. Specifically, the key sectors to this transition – agriculture, food, forestry – deal with waste in different ways. Moreover, the current environmental and sectoral regulations of these industries do not envisage and actively discourage circularity within the production process. In order to live up to the promise of a circular energy system – make use of resources that are currently discarded with a view of addressing the urgent climate and energy crises that the EU faces; improve human, animal and plant life; and allow for a more sustainable society without the need to dramatically change our lifestyle – these legal complexities need to be mapped and addressed holistically. This edited volume brings together legal and non-legal academics to develop a roadmap to the transition towards a more EU's circular energy system. The workshop provided authors with the chance of presenting the first draft of their book chapters and receiving feedback from book editors and other authors. The book project is a collaboration of the Florence School of Regulation with Wageningen University and Research (Netherlands).

### Electricity rules towards unity or diversity?

12-13 October 2022 | FSR Workshop

Europe's electricity markets are regulated in detail via network codes, guidelines and terms and conditions or methodologies (TCMs). TCMs are an extensive set of binding rules that fill out the details of the system operation and market guidelines. However, they can be made at national, regional or European level. What does the sum of the adopted TCMs mean for harmonization, or for the possibilities to tailor rules to fit national or regional context – and what does this mean for delivering an internal electricity market in Europe? The workshop presented results from the INC project, led by the Fridtjof Nansen Institute and with Florence School of Regulation among the research partners. The interdisciplinary workshop took place physically in Florence 12-13 October, and presented initial findings from the INC project. Importantly, the purpose of the workshop was to facilitate an open discussion among interested stakeholders and researchers on the regulation of the European electricity market, and to take stock of the many, detailed rules in the broader context of EU governance and integration.



### Carbon Market Policy Dialogue

7 July 2022 | FSR Workshop

The third meeting of the Carbon Market Policy Dialogue (CMPD) of the LIFE DICET project brought together academia, stakeholders and senior policymakers from different carbon markets worldwide in a unique process for a fruitful exchange on carbon market integration. This session of the CMPD meeting discussed “Alignment: possible reforms for carbon market integration”. Before the session, a background report was shared with the participants to help stir the discussions. At the CMPD, the participants discussed how, in concrete terms, the integration of the emissions trading systems (ETSs) may be realised. Specifically, the policy dialogue addressed three different questions: What rules should ETS Regulators change in the respective ETSs, and how should they change them for integration? How should ETS regulators coordinate among themselves? What are the next steps to consider for carrying out these reforms?

### Climate neutrality & the new energy order: is carbon pricing up to the twin challenge?

23 September 2022 | FSR Workshop

The policy roundtable aims to foster a fruitful dialogue with EU policymakers on the future of carbon pricing in the context of the energy crisis and the need to deepen international cooperation for the development and possible integration of carbon markets. Drawing from their EU, national and international experiences, speakers discuss on scope and objectives of the EU ETS reform, the functioning and implications of CBAM and integration of carbon markets at the international level. It was organised as the final event of the LIFE DICET project.

### 8th FSR Climate Annual Conference 2022

1-2 December 2022 | Annual Conference

FSR Climate organised its 8th Annual Conference on the Economic Assessment of European Climate Policies. The conference covered the main climate-related existing policies at the EU, national, international and sub-national levels. It included three sessions on Environmental taxation, Emissions trading, and Energy Transition. In addition, the conference comprised a keynote speech from Mar Reguant (Northwestern University), and a policy session focused on the key outcomes of COP27.



## Global

---

### EU- South Africa Regulatory Workshop Series

4-part event | FSR Workshop

The EU-South Africa Regulatory Workshop Series in the framework of the European Union-South Africa (EU-SA) Partners for Growth Programme was organised by the EU Delegation to South Africa in collaboration with the Florence School of Regulation (FSR). The Partnership is supported by the NERSA. The four-part series discussed over the evolution electricity markets in Europe and South Africa, focused on the following topics: market liberalisation; the energy transition, emerging technologies, and tariff design

### 6th EU-India Regulatory Workshop Series

20 July 2022 | FSR Workshop

As part of the 6th annual EU-India policy dialogues with the EU Delegation to India under the Clean Energy and Climate Partnership, FSR Global will host a series of online webinars to discuss topics pertinent to the India power sector. The webinar series will bring together experts from the EU and Indian side and will draw upon learnings from EU's Clean Energy Package, EU's Interconnection targets, EU's ten-year network development plan, etc. This webinar series is supported by the Ministry of Power (MoP), Central Electricity Regulatory Commission (CERC) and Power System Operation Corporation (POSOCO). The topics identified for the sessions of the three-part series included Market design for Integration of RES, Resource Adequacy and Scarcity Pricing.



## Transport

---

### 11th FSR Annual Conference | From Data Spaces to Data Governance

9 – 10 June 2022 | FSR Annual Conference

The 11th FSR Annual Conference offered an occasion to take stock of the progress made on the objectives outlined in the EU Data Strategy the Data Governance Act in the network industries. The FSR Annual Conference examined the impact of this new regulation on the areas of energy, climate, transport and telecommunications. In February 2020, the European Commission (EC) presented its European Data Strategy, whose main objectives are to set up European Data Spaces, to create a single market for data and to develop an attractive, secure and dynamic data economy. Common European data spaces in the sectors of health, environment, energy, agriculture, mobility, finance, manufacturing, public administration, and skills, will ensure that more data becomes available for use in the economy and society, while keeping the companies

and individuals who generate the data in control. The Data Governance Act published by the EC in November 2020, constitutes the first of the legislative proposals presented in the EU Data Strategy and applies to both personal and non-personal data. Its main objectives are to strengthen the availability of data for use by increasing trust in data intermediaries and to stimulate data sharing mechanisms across the EU.

### [FSR Annual Sustainability Conference| Greening Infrastructures](#)

22 June 2022 | FSR Annual Conference

Against the backdrop of the European Green Deal and the recently published 'Fit for 55' Package, the basic infrastructures will have to become more sustainable over the course of their entire lifecycles, i.e., from design to building, maintenance, operations and eventual decommissioning. Digitalisation, of course, will have a key role to play in advancing this objective, for instance, by optimising capacity utilisation, thus reducing needs for physical infrastructure expansion. While rendering infrastructures climate-proof will take different forms across the various network industries, all of them will have to confront a set of critical questions pertaining to regulatory policy, financing and taxation, among others. In view of this, the first edition of the FSR Sustainability Conference tackled these questions in respect to transport and energy infrastructures.

### [10th Florence Intermodal Forum: Creating a Common European Mobility Data Space](#)

25 November 2022 | Florence Policy Forum

The 10th Florence Intermodal Forum offered a timely platform for the exchange of views on the key existing initiatives, opportunities and challenges to building a common European mobility data space. Stakeholders representing policymakers, regulatory authorities, transport service providers, industry players, digital platforms and data sharing initiatives from different levels (from local to international) identified existing mobility data sharing initiatives, gaps, overlaps and potential common building blocks.

### [22nd Florence Rail Forum: Electricity and Infrastructure Managers – Is there a Need for Regulation?](#)

9 December 2022 | Florence Policy Forum

The 22nd Florence Rail Forum, jointly organised by FSR Transport and the Independent Regulators' Group – Rail, brought together policymakers, regulatory bodies, railway undertakings, infrastructure managers and academics, among others, with a view to examining current and foreseen practices in the different Member States in matters of electricity for railway traction, the technical and legal issues that complexify the matter, and not least, whether there is a need for clarification also with regards to energy regulation.



## ONLINE EVENTS



### Electricity

---

Network tariffs for decarbonised and low-carbon gases

9 February 2022 | FSR Debate

Lessons from Energy Policy Failures: ensuring energy justice and the good governance by indicators

16 February 2022 | FSR Insight

Electricity retail market liberalisation: 15 years on

9 March 2022 | FSR Debate

Electricity sector reforms in China

16 March 2022 | FSR Insight

Are decarbonisation and the energy crisis challenging the electricity markets design?

23 March 2022 | FSR Talk

To reform or not to reform EU energy markets?

27 May 2022 | Online Event

Electricity Market Evolution or Revolution?

21 September 2022 | FSR Insight



### Energy Policy

---

Unpacking India's Climate Modelling Tools

11 May 2022 | FSR Talk

What is missing for Ukraine to join the Internal Energy Market?

1 June 2022 | FSR Debate

Revisiting policy concerns in decarbonized energy systems: price volatility, seasonal storage, and shocks

8 June 2022 | FSR Insight

Can Energy Communities Contribute to the Transition and Solving the Energy Crisis?

19 October 2022 | FSR Debate

Capacity Mechanisms in the EU Energy Market: The Launch of the Second Edition Book

26 October 2022 | FSR Insight

EU foreign subsidies regulation: what impact will it have on the energy sector

9 November 2022 | FSR Debate

Does Europe Need a Hydrogen Network?

23 November 2022 | FSR Insight

Women in the energy transition: grievances and solutions

5 December 2022 | Hybrid event



## Energy Union Law

---

Carbon Capture, Utilisation and Storage (CCUS): still waiting for Godot?

12 January 2022 | FSR Debate

Regulating lock-in effects

4 May 2022 | Online Event

An Overview of Recent Energy Case Law from the CJEU

3 June 2022 | Online Event

Capacity subscription contracts for the electricity markets

5 October 2022 | FSR Debate

REPowerEU Plan from Blueprint to Action

12 October 2022 | FSR Debate

System Operation and Data Management – Getting the Bigger Picture Into Focus?

30 November 2022 | FSR Debate

An Overview of Recent Energy Case Law from the CJEU

2 December 2022 | Online event



## Gas

---

High energy prices and market design

26 January 2022 | FSR Talk

The Commission's new Gas and Hydrogen Package

2 February 2022 | FSR Debates

How to maximise cost-effectiveness in the energy transition?

18 February 2022 | Online Event

The revision of the Energy Taxation Directive

2 March 2022 | FSR Debate

EU getting rid of Russian energy addiction? When? How?

24 March 2022 | Online Event

Rethinking the EU's electricity market- what are the options?

30 March 2022 | FSR Debate

A regulatory framework for gas storage

6 April 2022 | FSR Debate

The EU's Hydrogen Accelerator – What steps should be taken?

27 April 2022 | FSR Debate

Biomethane in Support of the EU Energy Policy Goals

25 May 2022 | FSR Debate

Achieving the Global Methane Pledge: Where are we and where do we need to go?

14 September 2022 | FSR Debate

Can US LNG save the EU from Russian gas this winter?

28 September 2022 | FSR Talk

Options for Dealing with the Energy Crisis: A Wholesale Gas Price Cap for the EU?

18 October 2022 | FSR Debate

EU Foreign Subsidies Regulation: What impact will it have on the energy sector?

09 November 2022 | FSR Debate



## Climate

---

Linking Emissions Trading Systems: research insights from LIFE DICET

7 April 2022 | Online Event

Climate Neutrality and Social Sustainability

5 May 2022 | Online Event

Financing carbon neutrality in developed and developing countries: carbon pricing and beyond

11 November 2022 | Online Event & UNFCCC Pavilion COP27

A new future for voluntary carbon markets through improved integrity and transparency?

15 November 2022 | Hybrid Event

Outcomes of COP 27: takeaways and way forward

1 December 2022 | Online Event

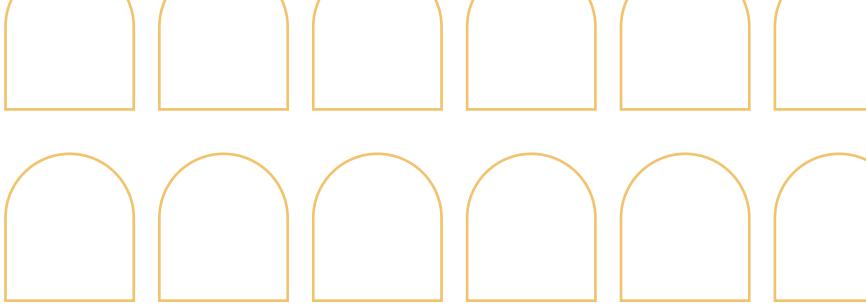
Women in the energy transition: grievances and solutions

5 December 2022 | Online Event

# SECTION 3

## RESEARCH





The Florence School of Regulation continued in its commitment to deliver meaningful and innovative insight into the most relevant energy, energy law, water, waste, transport and climate issues, tackling regulation and policy through a multidisciplinary approach.

## BOOKS



### Electricity

---

Digest of the handbook on electricity markets: international edition

Authors: Glachant J. M., Rossetto N. (eds)

Florence; Brussels: European University Institution ; European Union, 2022

Digest of the handbook on electricity markets: China edition

Authors: Glachant J. M., Rossetto N. (eds)

Florence; Brussels: European University Institution ; European Union, 2022



### Energy Union Law

---

Capacity Mechanisms in the EU Energy Markets

Authors: Hancher L., De Hauteclocque A., Huhta K., Sadowska M. (eds)

Oxford: Oxford University Press 2022



### Transport

---

Towards a smart and sustainable single European transport area: an assessment of the past 10 years of EU regulation

Authors: Finger M. Montero-Pascual, J. Serafimova, T. (Eds)

RSC books, Cadmus, 2022

## BOOK CHAPTERS



### Electricity

---

The Regulators' View: ACER's Report on Capacity Mechanisms and the EU Internal Electricity Market

Authors: Pototschnig A., Godfried M.

In Capacity Mechanisms in the EU Energy Markets, Oxford: Oxford University Press 2022

Capacity Remuneration Mechanisms in the EU: Today, Tomorrow, and a Look Further Ahead

Authors: Schittekatte T., Meeus L.

In Capacity Mechanisms in the EU Energy Markets, Oxford: Oxford University Press 2022

Different Approaches for Capacity Mechanisms in Europe: Rationale and Potential for Coordination?

Authors: Roques F., Verhaeghe C.

In Capacity Mechanisms in the EU Energy Markets, Oxford: Oxford University Press 2022

Resource Adequacy in Decarbonizing Power Systems: Lessons Learned from Both Sides of the Atlantic

Authors: Batlle C., Mastropietro P., Rodilla P., Pérez-Arriaga I. J.

In Capacity Mechanisms in the EU Energy Markets, Oxford: Oxford University Press 2022



### Energy Policy

---

Foreword

Author: Glachant J.M.

In Energy Communities - Customer-Centered, Market-Driven, Welfare-Enhancing?, Editors: Sabine Loebbe, Fereidoon Sioshansi, David Robinson eds, Academic Press 2022, xxxi - xxxii

A taxonomy of energy communities in liberalized energy systems

Authors: Rossetto N. , Verde S. ,Bauwens T.

In Löbbe S. , Sioshansi F. And Robinson D. (Eds), Energy Communities: Customer-Centered, Market-Driven, Welfare-Enhancing?, London: Academic Press, 2022, Pp. 3-23

Le comunità di energia rinnovabile per una transizione energetica più partecipata e sostenibile

Author: Rossetto N.

In Rapporto 2022: la fiducia cresce nelle pratiche di comunità: modelli ed esperienze di partecipazione condivisa tra cittadini, amministrazioni e imprese, Bologna: Il Mulino, 2022, Quaderni di italiadecide, pp. 387-407





## Energy Union Law

---

Capacity Mechanisms and State Aid Control: A European Solution to the 'Missing Money' Problem?

Author: Hancher L.

In Capacity Mechanisms in the EU Energy Markets, Oxford: Oxford University Press 2022



## Gas

---

High gas prices in Europe: a matter for policy intervention?

Authors: Tesio E., Conti I., Cervigni G.

In "Key publications of the European Union" Autumn 2022, Publications Office of the European Union, Brussels



## Climate

---

Free allocation of emission permits to reduce carbon leakage: an evolutionary approach

Authors: Borghesi S., Antoci A., Iannucci G., Sodini M.

In Jakob M. (ed.), Handbook on Trade Policy and Climate Change, Edward Elgar Publishing, 2022, pp.76-93

## JOURNAL ARTICLES



## Electricity

---

Demand-side flexibility in distribution grids: voluntary versus mandatory contracting

Nouicer, A., Meeus, L., Delarue, E.

Energy Policy, Volume 713, February 2023

The Economics of Demand-side Flexibility in Distribution Grids

Authors: Nouicer A., Meeus L., Delarue E.

The Energy Journal, 44 (1), January 2023

Towards a Regulatory Framework for the Use of Flexibility in Distribution Grids

Authors: Meeus L., Beckstedde E., Nouicer A.

Oxford Energy Forum, Issue 134, November 2022, pp. 15-19



## Energy Policy

---

Smart metering interoperability issues and solutions: Taking inspiration from other ecosystems and sectors

Authors: Reif, V., Meeus, L.

Utilities Policy, Volume 76, June 2022



## Energy Union Law

---

EU Energy Governance—Moving Targets and Flexible Ambitions between Opacity and Opportunism?

Author: Hancher L.

Yearbook of European Law, 2022



## Gas

---

The Role of Hydrogen Infrastructure in Promoting Climate Neutrality

Authors: Pototschnig P., Tesio E.

Oxford Energy Forum, Issue 134, November 2022, pp. 33-37

A price cap on EU gas markets?

Author: Conti I.

EU China Energy Magazine, 2022, October, pp. 10-14 ([Chinese version here](#))



## Climate

---

European green policy announcements and sectoral stock returns

Authors: Borghesi S., Castellini M., Comincioli N., Donadelli M., Gufler I., Vergalli S.

Energy policy, 2022, Vol. 166

Maladaptation to environmental degradation and the interplay between negative and positive externalities

Authors: Antoci A., Borghesi S., Galeotti M., Russu P.

European economic review, 2022, Vol. 143, SI

How trade policy can support the climate agenda

Authors: Jakob M., Borghesi S. et al

Science, 2022, vol. 376 (6600), pp. 1401-1403.

The International Dimension of the EU Emissions Trading System: Bringing the Pieces Together

Authors: Borghesi S., Verde S.

Environmental and Resource Economics, 2022, Vol.83, pp. 23-46.

Adoption Gaps of Environmental Adaptation Technologies with Public Effects

Authors: Borghesi S., Antoci A., Galdi G., Vergalli S.,

Environmental and Resource Economics, 2022, Vol. 83, pp. 313–339.

EAERE Award for the Best Paper Published in Environmental and Resource Economics during 2021

Authors: Borghesi S., Munro A., Noailly J.

Environmental and Resource Economics, Vol. 83, pp. 903–905.

Pandemic, diplomacy and environmental policies: 2021 year zero for climate action?

Authors: R. Colantuono, Borghesi S.

Nuova Lettera Matematica (Mathematical Letter), 2022, pp.15-21.

## POLICY BRIEF



### Electricity

---

Consumer protection mechanisms during the current and future periods of high and volatile energy prices

Authors: Pototschnig A., Glachant J. M., Meeus L., Conti I.

Recent energy price dynamics and market enhancements for the future energy transition

Authors: Pototschnig A., Glachant J. M., Meeus L., Ranci P.

The Economics of Demand-side Flexibility in Distribution Grids

Authors: Nouicer A., Meeus L., Delarue E.



### Energy Policy

---

Between crises and decarbonisation: realigning EU climate and energy policy for the new 'state of the world'

Authors: Tubiana L., Glachant J. M., Beck T. Leopold H., Belmans R., Colombier M., Hancher L., Piebalgs A., Rossetto N., Rüdinger A., Runge-Metzger A.

The 5th EU electricity market reform: a renewable jackpot for all Europeans package?

Authors: Meeus L., Batlle C., Glachant J.M., Hancher L., Pototschnig A., Ranci P., Schittekatte T.



### Gas

---

Capping the European price of gas

Authors: Pototschnig A., Conti I.

Securing Gas for Europe: a follow up to the policy brief on capping the European price of gas

Authors: Pototschnig A., Conti I.

Redrawing the EU's energy relations: getting it right with African renewable hydrogen

Authors: Kneebone J., Piebalgs A.

High gas prices in Europe: a matter for policy intervention?

Authors: Tesio E., Conti I., Cervigni G.

The role of CCUS on the EU road to climate neutrality

Authors: Jones C., Piebalgs A.

An Inter-TSO Compensation Mechanism for renewable and low-carbon gases

Authors: Pototschnig A., Conti I.

A simple implementation of pan-European storage obligations

Authors: Tesio E., Conti I., Volpato F.

Energy security meets the circular economy: a stronger case for sustainable biomethane production in the EU

Authors: Olczak M., Piebalgs A.



## Climate

---

ETS alignment: a price collar proposal for carbon market integration

Authors: Borghesi S., Cammeo J., Doda B., Ferrari A., Mraz M., Verde S.

Linking emissions trading systems with different measures for carbon leakage prevention

Authors: Verde S., GALDI G., Borghesi S., Ferrari A.

Linking emissions trading systems with different offset provisions

Authors: Verde S., GALDI G., Borghesi S., Ferrari A.

Social impact of emissions trading systems: auction revenues and social expenditures in a changing world

Authors: Borghesi S., Ferrari A.



## Transport

---

Towards resilient and sustainable aviation: implications for competition and competitiveness

Authors: Montero Pascual J. J., Finger M., Serafimova T.

Towards EU-wide intermodal ticketing

Authors: Montero Pascual J. J., Finger M., Serafimova T.

Modal shift: the moment of truth. Main takeaways and lessons learnt from the European year of rail

Authors: Serafimova T., Finger M., Montero Pascual J. J.

Short- and mid-term covid-19 effects on the aviation sector: a competition law perspective

Authors: Montero Pascual J. J., Finger M., Serafimova T.



## Water & Waste

---

Municipal waste regulation in Europe: paving the road for upcoming challenges

Author: Salvetti M.

## TECHNICAL REPORTS



## Electricity

---

Review of different national approaches to supporting renewable energy development

Authors: Soroush G., Dos Reis P., Schittekatte T., Piebalgs A., Jones C., Pototschnig A., Glachant J. M.

Distributed energy resources and electricity balancing: visions for future organisation

Authors: Schittekatte T., Pototschnig A.



## Energy Policy

---

Florence school of regulation: cost-effective decarbonisation study 2022

Authors: Jones C., Kneebone J., Piebalgs A.

The EU Green Deal Course text – 2022 edition

Authors: Hancher L., Meeus L., Nouicer A., Reif V.



## Climate

---

ETS alignment: a price collar proposal for carbon market integration

Authors: Doda B., Verde S., Borghesi S.

Emissions trading systems with different offsets provisions: implications for linking

Authors: Galdi G., Verde S., Borghesi S., Füssler J., Jamieson T., Soini M., Wimberger E., Zhou L.



## Global

---

Regulatory menu for integration of renewables

Authors: Ravi Kumar S., Ramesh Tunga A., SINHA S.

Smart grid replication: handbook for India

Authors: Chaves-Ávila J. P., Bhagwat P., Cossent R., Kundu S., Ravi Kumar S., Gomez T.



## Transport

---

Infrastructures and Sustainability

Authors: Finger M., Serafimova T.

From data spaces to data governance

Authors: Finger M., Serafimova T.



## Water & Waste

---

Economic Regulators' Role in Supporting the Ecological Transition of Water and Sanitation Service Operators

Authors: Salvetti M., Sideris K.

## WORKING PAPERS



## Energy Policy

---

Green hydrogen: how grey can it be?

Authors: Brauer J., Villavicencio M., Trüby J.

Demand-side flexibility in distribution grids: voluntary versus mandatory contracting

Authors: Nouicer A., Meeus L., Delarue E.

A bilevel model for voluntary demand-side flexibility in distribution grids

Authors: Nouicer A., Meeus L., Delarue E.



## Energy Union Law

---

The financial side of energy markets in the low-carbon transition

Author: Hiemstra Liebrich M.





## Transport

---

Progressive tendering of regional railway services

Authors: Montero Pascual J. J., Finger M., Serafimova T.



## Water & Waste

---

Water services in selected Central and Eastern European countries

Authors: Klien M., Salvetti M.

## OTHER



## Electricity

---

An expert opinion on pricing mechanisms and alternative measures to tackle the energy crisis

Author: Meeus L.

Competition on the merits in liberalised electricity markets: AG Rantos' Opinion in Servizio Elettrico Nazionale

Authors: Hancher L., Herrera Anchustegui I.

The Use of Flexibility in Distribution Grids to Defer Network Investments

Author: Nouicer A. KU Leuven, 2022



## Energy Policy

---

How to keep climate and energy policies aligned in the new state of the world?

Authors: Glachant J.-M., Rossetto N., Sofia Nicolai

EUSEW 2022 – Live updates

Authors: FSR Comms Team



## Energy Union Law

---

The evolving role of ACER: Emergence, practice and review of terms, conditions and methodologies (TCMs)

Authors: Jevnaker T., Hancher L., Krohn Taranger K.

Electricity in perspective: Comparing the TCM procedure with other sectors

Authors: Ruffing E., Schwensen Lindgren S., and Jevnaker T.

Stocktaking of the adopted TCMs: Towards harmonization or diversity?

Authors: Jevnaker T., Fink S., Krohn Taranger K., Lüken genannt Klaßen H., Ove Eikeland P.

Implementation and adjustment ahead: Enforcing, applying and revising the TCMs during transition and crisis

Authors: Jevnaker T., Byskov Lindberg M., Banet C.

EU Regulation on wholesale energy market integrity and transparency (REMIT)

Author: Nicolai S.



## Gas

---

The EU Hydrogen and Decarbonised Gas Market Package: Revising the governance and creating a hydrogen framework

Authors: Tanase L., Herrera Anchustegui I.

Three questions the Global Methane Tracker raises about the future of climate action

Author: Olczak M.

A first look at 'Save gas for a safe winter': The EU's fast-tracked proposal for protecting against a disconnection from Russian gas

Author: Kneebone J.

A first look at REPowerEU: The European Commission's plan for energy independence from Russia

Authors: Conti I., Kneebone J.

Hydrogen in the Energy Transition

Author: Kneebone J.



## Climate

---

Sustainable Investment between the European Green Deal and the Energy Charter Treaty: in Search of a Balance

Author: Quirico O.

EU ETS: the ambition of the Fit for 55 Package and the MSR's invalidation rule support current allowance prices

Authors: Bruninx K., Ovaere M.

Stopping Russian fossil fuel imports will help the green transition

Authors: Schumacher I. et al

Some prospects for linking emissions trading systems after COP26

Authors: Galdi G., Ferrari A.

Triggering a Climate Alliance with a nuanced effort sharing

Author: Stua M.

The UK's Emission Trading System: (de)linking challenges after Brexit

Authors: Ward J., Burke J.

Time of the Essence for Connecting Schemes to Reduce Emissions

Author: Macinante J.

Offsetting for carbon neutrality – Getting the claims right

Authors: Möllersten K., Ahonen H.M., Zetterberg L.

Emissions and agriculture: International trade cooperation must be part of the solution

Authors: Santeremo F., Hoekman B.

Quality Offsets for Emission Trading Systems: Anything to learn from ICVCM & other quality initiatives in the voluntary carbon markets?

Author: Füssler J.

EU ETS, CORSIA and the decarbonisation of civil aviation

Author: Cammeo J.

Not All Offsets Are Created Equal

Author: Wimberger E.



## Global

---

Report “1st EU-South Africa Regulatory Workshop Series Proceedings”

Authors: Ravi Kumar S., Juta C.



## Transport

---

Mapping the MaaS sector: are specific rules for MaaS platforms needed or advisable?

Author: Rodríguez De Las Heras Ballell T.

What does Article 10 of the revised Rail Passenger Rights Regulation bring to travellers?

Author: Teissonnière G.

How regulating data sharing practices in the context of Mobility-as-a-Service can help deliver its environmental and social benefits

Author: Aymonier P.

Operating Aid for Airports beyond 2024

Author: De Bruijne B.

Time for the great SAF Rush

Author: McCarthy N.

New remedies in airline mergers: a distribution perspective

Author: Mounier E.

# SECTION 4

## **DISSEMINATION ACTIVITIES**





# VIDEOS



## Electricity

---

### Promotional Video

[Evolution of electricity markets in Europe | Online course teaser](#)  
[OneNet | One Network for Europe](#)  
[Executive Course to master Electricity Markets | Online course 2022](#)

### Online Events Recording

[Capacity subscription contracts for the electricity markets](#)  
[Electricity Market Evolution or Revolution?](#)  
[FSR Insight: Revisiting policy concerns in decarbonized energy systems: price volatility](#)  
[What is missing for Ukraine to join the Internal Energy Market?](#)  
[To reform or not to reform EU energy markets?](#)  
[FSR Talk - Building net-zero by 2050 with three building blocks: which ones and how?](#)  
[FSR Debates: Rethinking the EU's electricity market](#)  
[FSR Talk Are decarbonisation and the energy crisis challenging the electricity markets design?](#)  
[Electricity sector reforms in China](#)  
[Electricity retail market liberalisation: 15 years on](#)  
[Lessons from Energy Policy Failures: ensuring energy justice and the good governance by indicators](#)  
[Network tariffs for decarbonised and low-carbon gases](#)  
[Between crises and decarbonisation](#)  
[OneNet Open Days – Western and Southern Cluster](#)  
[OneNet Open Days – Northern and Eastern Cluster](#)

### Knowledge pills

[Małgorzata Sadowska | Capacity mechanisms in the EU energy market](#)  
[Kaisa Huhta | Capacity Mechanisms and free movement in the EU](#)  
[Leigh Hancher | Capacity remuneration mechanisms](#)  
[Adrien De Hauteclocque | Capacity mechanisms in the EU energy market: law, policy and economics](#)  
[OneNet Western Demo Cluster presented by José Miguel Cruz \(E-REDES\)](#)  
[OneNet Southern Demo Cluster presented by Emmanouil Zoulas \(University of Athens\)](#)  
[OneNet Eastern Demo Cluster presented by Primož Ruš \(ELES\)](#)  
[Martin Roach on revisiting policy concerns in decarbonized energy systems](#)  
[Furong Li on China's power sector reforms](#)  
[Xu Yi-chong on Electricity in China](#)  
[Maciej Sokolowski on energy policy failures](#)  
[Lucila de Almeida on governance by indicators](#)  
[Raphael Heffron on Energy Justice](#)

## Video lectures

Electricity markets in Europe by Leonardo Meeus



## Energy Policy

---

## Promotional Video

FSR online series Season 3  
EU Green Deal | 8 weeks Online Training  
Regulation of the Power Sector Online Course  
Thank you for a great year together!  
FSR Annual Scholarships | Testimonials of 2021 edition

## Online Events Recording

Policy Debate: EU Foreign Subsidies Regulation: What Impact Will It Have on Energy Sector

FSR Talk: Can Energy Communities Contribute to the Transition and Solving the Energy Crisis?

11th FSR Annual Conference | Introduction by the FSR directors  
11th FSR Annual Conference | Presentation by Edson Gonçalves  
11th FSR Annual Conference | Presentation by Guenter Knieps  
11th FSR Annual Conference | Presentation by Matteo Nebbiai  
11th FSR Annual Conference | Presentation by Gregor Lienemann  
11th FSR Annual Conference | Presentation by Mariavittoria Catanzariti  
11th FSR Annual Conference | Presentation by Antoine Donne  
11th FSR Annual Conference | Presentation by Thomas J Tombal  
11th FSR Annual Conference | Presentation by Matthias Finger and Juan Montero  
11th FSR Annual Conference | Presentation by Charlotte Ducuing and Rene Reich  
11th FSR Annual Conference | Round table discussion with the FSR Areas Directors

## Residential Events Recordings

FSR Workshop From energy saving to rationing Minister Claude Turmes

## Knowledge pills

EU Green Deal - Episode 1 | #coverthebasics  
EU Green Deal - Episode 2 | #coverthebasics  
Electricity markets in the EU - Episode 1 | #coverthebasics  
Electricity markets in the EU - Episode 2 | #coverthebasics

## Interviews

FSR Open Day Donors Testimonials





## Energy Union Law

---

### Online Events Recording

Capacity Mechanisms in the EU Energy Market: The Launch of the Second Edition Book  
FSR Debates: Regulating lock-in effects  
Carbon Capture, Utilisation and Storage (CCUS): still waiting for Godot?  
An overview of recent energy case law from the CJEU

### Knowledge pills

Gender and equality in the energy transition: interviews with the experts



## Gas

---

### Promotional Video

Clean Molecules for the Energy Transition

### Online Events Recording

Options for Dealing with the Energy Crisis: A Wholesale Gas Price Cap for the EU?  
REPowerEU Plan from Blueprint to Action  
FSR Talk: Can US LNG save the EU from Russian gas this winter?  
FSR Debate - Achieving the Global Methane Pledge: Where are we and where do we need to go?  
FSR Debate: Biomethane in Support of the EU Energy Policy Goals  
The EU's Hydrogen Accelerator - what steps should be taken?  
EU getting rid of Russian energy addiction? | Episode 2  
EU getting rid of Russian energy addiction? | Episode 1  
A regulatory framework for gas storage  
The revision of the Energy Taxation Directive  
How to maximise cost-effectiveness in the energy transition?  
The Commission's new Gas and Hydrogen Package  
FSR Talk: High energy prices and market design

### Interviews

Nuclear and energy security threats posed by the Russia Ukraine war



## Climate

---

### Promotional Video

PhD Summer School on Economic Foundations for Energy and Climate Policies 2022 at EUI

### Online Events Recording

Linking Emissions Trading: Systems Research Insights from Life Dicet  
Policy Session “Outcomes of COP 27 takeaways and way forward”  
Keynote Lecture “Successes in the renewable expansion learning from Spain and Chile”  
Conclusions of the FSR Annual Climate Conference 2022 by Prof Simone Borghesi  
Conclusions of the FSR Annual Climate Conference 2022 by Simone Borghesi

### Residential Events Recordings

Conclusions of Summer School 2022 and of the LIFE DICET Final Roundtable  
Climate Neutrality and Social Sustainability – State of the Union  
Roundtable “Climate neutrality & the new energy order: is carbon pricing up to the twin challenge?”  
IRENA’s World Energy Transitions Outlook: 1.5°C Pathway – Francesco La Camera at FSR

### Interviews

A quick overview of ETS linking in Latin America  
The World Bank’s Partnership for Market Implementation  
The Florence Process and the future of the EU ETS

### Video lectures

Linking emissions trading systems with different uses of offsets | Giulio Galdi  
Carbon leakage measures & their implication for ETS linking | Stefano F. Verde  
Possible reforms for carbon market integration | Baran Doda, adelphi  
Keynote lecture ‘Emission Markets as Financial Markets’ | Estelle CANTILLON (ULB and TSE)  
Keynote Lecture “Successes in the renewable expansion learning from Spain and Chile”



## Global

---

### Promotional Video

The African School of Regulation (ASR)  
The African School of Regulation (ASR) visits the EUI

## Online Events Recording

FSR Talks: Unpacking India's Climate Modelling Tools

## Interviews

The African School of Regulation (ASR) visits the EUI



## Transport

---

## Knowledge pill

Active mobility | Teodora Serafimova – Schuman Short #50

## Residential Events Recordings

FSR Annual Sustainability Conference June 22-23 | Greening Infrastructure

## Interviews

#FSRSustainabilityConference Greening Infrastructures | Lena Klaaßen  
#FSRSustainabilityConference Greening Infrastructures | Renaud Dehousse  
#FSRSustainabilityConference Greening Infrastructures | Matthias Finger & Alberto Pototschnig  
#FSRSustainabilityConference Greening Infrastructures | Nicolas Astier  
#FSRSustainabilityConference Greening Infrastructures | Lorenzo Vannacci  
#FSRSustainabilityConference Greening Infrastructures | Edwin Edelenbos  
#FSRSustainabilityConference Greening Infrastructures | Montserrat Barriga  
#FSRSustainabilityConference Greening Infrastructures | Leonardo Meeus



## Water & Waste

---

## Promotional Video

Presentation of the FSR Water & Waste Area

## Online Events Recording

How can we contribute to build resilient, sustainable and green water and wastewater services?

Financing models of municipal waste management and economics of biowaste stream

## Interviews

Water Regulation: Paving the Road for 2020

## Video Lectures - Water

Performance consequences of water utility aggregation: the role of structure and behavior | Michael Klien  
Payment for environmental services | Serge Garcia  
Water and sanitation services aggregation: Romanian case studies | Teodoru Popa  
Scaling-up nature-based solutions to address water-related climate risks | Mikaela Rambali  
Water and sanitation services aggregation: lessons learnt from the field | Maria Salvetti  
How to build resilient services - UK perspective | Heather Smith  
Giving consumers too many choices: a false good idea? | Carine Staropoli

## Video Lectures - Waste

Economics of biowaste streams | David Newman  
Key outcomes from charging systems and Pay As You Throw in Spain | Ignasi Puig Ventosa  
Municipal Solid Waste in Europe current situation and future challenges | Maria Salvetti  
Pay As You Throw as an instrument for better resource management in cities | Gianluca Tapparini  
Life cycle costing of waste management systems | Davide Tonini

# PODCASTS



## Energy Policy

---

Several crises leading to a new state of the world for energy policymaking in the EU | Tubiana (ECF)  
Towards flexible energy systems on the demand side | Prof. J.M. Glachant



## Energy Union Law

---

The European Commission's state aid decision on the Belgian capacity mechanism



## Gas

---

Pyrolysis of waste and biomass for clean energy and circular economies | Paul Préaux  
Laima Eicke of Harvard and IASS on global renewable hydrogen value chains | Laima Eicke  
ENTSOG's Patricia Orglerova On Their New 'H2 Infrastructure Map' For Europe | Patricia Orglerova



## Climate

---

What role for the EU ETS in the European Green Deal? | Milan Elkerbout (CEPS)  
Replicating LIFE DICET to extend emissions trading to buildings & transport | Michael Pahle



## Transport

---

Transport 4 Future Ep 3 | Towards seamless cross-border passenger rail travel: the role of ticketing  
Transport 4 Future Ep 2 | Mobility-as-a-Service: The What, the Why and the What Next?  
Transport 4 Future Ep 1 | Taking stock of EU railway acquis and reform  
On The Move Ep6 – Passengers: central actors in the shift to sustainable and socially just mobility

# TOPIC OF THE MONTH



## Electricity

---

Citizens taking the lead: what can consumers do to protect themselves from high energy prices?

Authors: Meeus L., Rossetto N., Ferrari A.

ACER's assessment of the EU wholesale electricity market design

Author: Pototschnig A.

Adequacy and Capacity Remuneration Mechanisms

Author: Pototschnig A.

Integrated energy infrastructure planning

Author: Pototschnig A.

Distributed resources and flexibility

Author: Nouicer A.

The 5th EU electricity market reform: a renewable jackpot for all Europeans package?

Author: Meeus L.

Electricity market reform is no silver bullet for Europe's energy crisis

Author: Glachant J.M.



## Gas

---

[A price cap on EU gas markets?](#)

Author: Conti I.

[All eyes on gas storage](#)

Author: Conti I.

[How mitigating methane emissions can help the EU to reach energy independence](#)

Authors: Piebalgs A., Olczak M.

[The Mediterranean as a leader in the clean hydrogen economy: production, transmission, end-use](#)

Authors: Kneebone J.

[Has COP27 accelerated the development of Green Hydrogen in Africa?](#)

Authors: Zigah E., Piebalgs A.



## Climate

---

[UN Methane Observatory Paves Way for Drastic Emissions Reductions](#)

Authors: Piebalgs A., Manfredi C.

[Integration of emissions trading systems: where are we at today?](#)

Authors: Ferrari A., Cammeo J.

[Reflections on UNFCCC COP27](#)

Authors: Delbeke J., Lamas R.

[Has COP27 accelerated the development of Green Hydrogen in Africa?](#)

Authors: Piebalgs A., Zigah A.

[Reflections on UNFCCC COP27](#)

Authors: Delbeke J., Lamas R.

# EVENT HIGHLIGHTS



## Electricity

---

Energy prices and the dimensions of the current market design

Jan 18, 2022

How is EU electricity retail market doing, 15 years after liberalisation?

Mar 14, 2022

Electricity microeconomics does not change: only the use we make of it

Apr 7, 2022

The time for energy communities has come, but countries must address the obstacles hindering their development

Oct 25, 2022



## Energy Policy

---

Ukraine's challenges and prospects of joining the internal energy market

Jun 28, 2022

Realigning European energy and climate policy for the new 'State of World'

Jul 18, 2022

Highlights from the 43rd IAEE International Conference

Aug 5, 2022



## Energy Union Law

---

CCUS: Time for an EU Strategy?

Jan 25, 2022

Regulatory Responses to Carbon Lock-in: takeaways from our online debate

May 17, 2022

Takeaways from recent energy Case Law from the CJEU

Jun 28, 2022

The potential of capacity subscription contracts

Oct 20, 2022





## Gas

---

Discussing the future tariffs for hydrogen and low-carbon gases  
Mar 10, 2022

Regulating Gas Storage: Enhancing European Security of Supply Through Solidarity?  
Apr 21, 2022

What needs to be done to deliver on enhanced hydrogen ambition in the EU? A timely debate between key stakeholders  
May 2, 2022

The limits of using US LNG to save the EU: not enough infrastructures and a tricky global LNG price  
Oct 11, 2022



## Climate

---

Towards a global carbon market: how full is the glass after the deal on Article 6 at COP26?  
Jan 31, 2022



## Transport

---

Florence School of Regulation puts the Spotlight on the Greening of Infrastructures at its first-ever Sustainability Conference  
Oct 26, 2022

# COVER THE BASICS



## Energy Policy

---

EU Regulation on wholesale energy market integrity and transparency (REMIT)  
Dec 14, 2022 | COVER THE BASICS

Hydrogen in the Energy Transition  
July 5, 2022 | COVER THE BASICS

# INTERVIEWS AND NEWS



## Electricity

---

Nuovi modelli di comunità energetica sfidano il mercato elettrico  
November 18, 2022 | QualEnergia

EU electricity market reform: completing, not dismantling, the integration is the answer  
November 18, 2022 | ENERGYPOST.EU

Academic: Integrated EU electricity market is 'least-cost option' for net-zero transition  
June 27, 2022 | EURACTIV



## Energy Policy

---

EU leaders meet to grapple with energy crisis  
October 21, 2022 | BBC WORLD SERVICE

Europe advancing towards deal on methane emissions regulation  
July 20, 2022 | INTERNATIONAL VOICES OF GAS BY THE INTERNATIONAL GAS UNION

How mitigating methane emissions can help the EU to reach energy independence  
July 29, 2022 | EU-CHINA ENERGY MAGAZINE

REPowerEU: "Killing two birds with one stone?"  
June 8, 2022 | MONTEL WEEKLY

La regolamentazione dovrebbe riconoscere il valore delle soluzioni sviluppate grazie alle nuove tecnologie  
June 1, 2022 | MILANO FINANZA

Jakóbik: Embargo na surowce Rosji pomoże gospodarce (ANALIZA)  
April 7, 2022 | BIZNES ALERT

Jamais la sobriété énergétique de nos concitoyens n'a été aussi cruciale pour notre destin  
March 11, 2022 | LE MONDE

Hoe slim is het om energieprijzen te bevroren?  
March 12, 2022 | DE TIJD

What a Green Transition Means for Tunisia  
January 24, 2022 | ISPI

Una, nessuna, centomila sostenibilità  
February 1, 2022 | RADIOTELEVISIONE SVIZZERA



## Gas

---

Academic: We are probably entering a long period of high gas prices

May 13, 2022 | EURACTIV

Andris Piebalgs: "El conflicto en Ucrania durará años, entramos en una etapa de altos precios de la energía"

April 23, 2022 | INVERTIA

EU to assess Spain and Portugal price-cap plan 'without delay'

March 28, 2022 | EUOBSERVER

Sparks | Intervista a Ilaria Conti

March 25, 2022 | SPARKS

Measuring methane emissions is crucial to cutting them

March 21, 2022 | CHEMISTRY WORLD

Le alternative al gas russo con Ilaria Conti

March 4, 2022 | RSI RADIOTELEVISIONE SVIZZERA

Why Europe is so dependent on Russia for natural gas

February 24, 2022 | CNBC

Gas, la dipendenza europea dalla Russia

February 8, 2022 | RSI RADIOTELEVISIONE SVIZZERA



## Climate

---

Clima, oltre 900 economisti ambientali sostengono il pacchetto europeo "Fit for 55"

June 29, 2022 | GREENREPORT

Rapporto Irpet: conflitto in Ucraina e caro energia rallentano l'economia toscana

April 28, 2022 | FIRENZE TODAY

Transizione energetica e rinnovabili: la sfida per far ripartire l'economia toscana

April 28, 2022 | INTOSCANA

TGR Toscana

April 28, 2022 | TGR TOSCANA

The forgotten innovation agenda of the ETS

April 19, 2022 | EURACTIV

From Gretini to Colapsistas: How Europeans talk about climate change

December 19, 2022 | EURONEWS

COP27: il punto

November 29, 2022 | Climate media centre

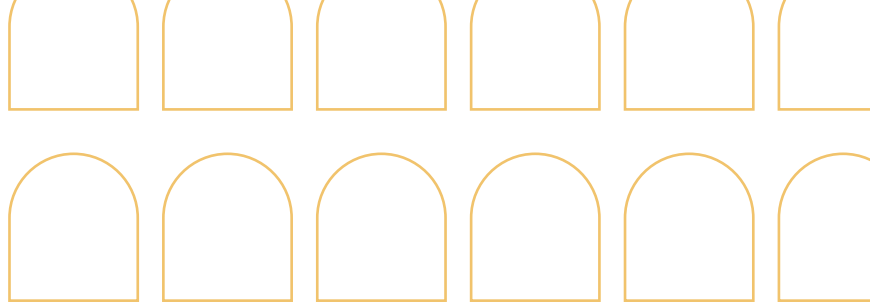
Offset policy can provide easier path to carbon market linking, report finds

January 18, 2022 | Carbon Pulse

## SECTION 5

# LIGHTS ON WOMEN





## HIGHLIGHTS OF 2022

In 2022, The Florence School of Regulation launched the new Lights on Women platform and, within it, the Energybase, the database for women in energy, climate, and sustainability. The platform intends to champion, train, and advocate for women in these sectors and shed light on their work and contributions. First founded in 2017 under the Florence School of Regulation, the Lights on Women project has built an incredible foundation over the years.

In 2022, Lights on Women became a full member of the European Commission's Equality platform for the energy sector by the European Commission, promoting equality and inclusion in the energy sector, from energy professionals and decision-makers to consumers.

Lights on Women is an initiative by the Florence School of Regulation, supported by two external partners: Landwärme GmbH and Edison.

### Online articles

- » [Ukraine: the war fought on the energy front](#)  
Authors: Ilchuk M., Carella C.
- » [4th Lights on Women Scholarship: meet the recipients!](#)
- » [4th Lights on Women Scholarship](#)
- » [5<sup>th</sup> Light on Women Scholarship](#)
- » [\(Renewable\) Energy communities under the Clean Energy for all Europeans Package – an instrument for price stability?](#)

# SECTION 5

## **SCHOLARSHIPS**





## 4TH LIGHTS ON WOMEN SCHOLARSHIPS

The annual Lights on Women scholarships aim to support motivated early- and mid-career

women in their professional advancement with new or strengthened capabilities, by providing

free access FSR online community courses of their choice. For the 4th

Lights on Women Scholarship programme, the FSR awarded 9 scholarships to women contributing to innovative energy solutions, research and initiatives

that accelerate a sustainable, diverse, resilient and just energy transition.

The 4th Lights on Women Scholarship recipients come from 8 different countries, across three continents, and have wide-ranging sets of interests from climate security to energy market modelling, SDG7, clean technologies, and environmental development. They also have strikingly different backgrounds: from law firm associates to engineers, academics, and entrepreneurs.

## 6<sup>TH</sup> ANA AGUADO SCHOLARSHIP

This scholarship is a tribute to the late Secretary-General at EDSO, Ana Aguado, and is organized in collaboration with Bernard Energy (BEA), the European Distribution System Operators' Association (E.DSO), the European Network of Transmission System Operators for Electricity (ENTSO-E), the Union of the Electricity Industry – Eurelectric (Eurelectric). Ana was a passionate and enthusiastic person always in the front line for all major struggles in the energy sector. During her career, she was very attentive to students' requests and needs, strongly believing in the importance of education for future generations. For this reason, each year under this joint initiative, the partners allocate two scholarships to participate in the Summer School on Regulation of Energy Utilities and five other scholarships to attend one FSR online community training courses. Scholarships were awarded to students and young professionals who provided the best essay on the following topic: "Our economies must significantly reduce their GHG emissions over the next few decades to mitigate climate change. However, the implementation of the necessary policies often has important distributional implications. Please, provide a relevant example, highlighting who the winners and the losers are, why it is the case, and how the distributional effects can be realistically mitigated in order to avoid any political backlash."



## **SOLIDARITY FOR UKRAINE**

Alongside many institutions and private citizens around the world, the Florence School of Regulation (FSR) at the European University Institute (EUI) has been following the escalation of Russia's assault on Ukraine's territorial integrity with shock and disbelief.

The FSR hereby condemns these acts of violence against Ukraine and the violation of international law and stands in support and solidarity with the Ukrainian people and their institutions.

In this context and in light of our role as a school, we felt the urge to step up our support and to offer our contribution to those who are being impacted by the attacks on Ukrainian soil. With the intent of facilitating access to training to a new generation of Ukrainian energy scholars and professionals, the FSR is offered 50 free seats in its community training courses on EU energy policy and regulation.

## **1<sup>ST</sup> FSR ANNUAL SCHOLARSHIP**

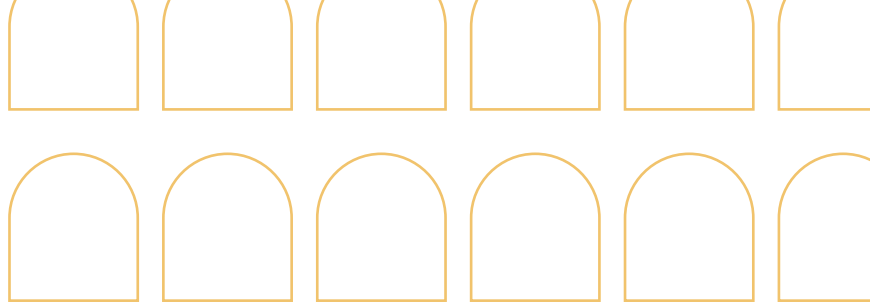
The FSR Annual Scholarships was created to support motivated individuals who wish to deepen their knowledge of energy regulation by providing free access to FSR training courses. The scholarship was meant to train and upskill a new generation of students and juniors in the energy sector and in a wide range of topics. For this reason, the FSR awarded 18 scholarships for 10 community and class training courses to motivated candidates who chose to invest in learning, networking and contributing to a global energy community.

Our partner, Landwärme sponsored two seats in the Clean Molecules for the Energy Transition course.

# SECTION 6

## RESEARCH PROJECTS





The FSR is involved in a broad range of research projects, programmes and initiatives in cooperation with other international institutions.

## CURRENT RESEARCH PROJECTS

### European Climate Foundation - Between Crises and Decarbonisation

Dec 2021 – June 2022

The European Union has committed to a deep decarbonization of its economy by 2050. The accomplishment of such an ambitious goal calls for a significant restructuring not only of the European energy industry, but also of the whole Europe's economy and society. In this context, a long-term vision encompassing all the economic, political and social aspects of the energy transition is needed to guide policymakers and regulators in the myriad of decisions that must be consistently taken over the coming years. The objective of this project was to discuss these aspects and offer European policymakers and regulators such a holistic and long-term vision. Framed in this way, the output of this project was a policy manifesto that can be particularly impactful at the time of the negotiations between the European institutions over the Fit for 55 Package, presented by the European Commission in summer 2021. In the first phase of the project the FSR organized a series of close-door online workshops with a core group of recognized experts. Each workshop focused on a specific and important aspect of the energy transition. In the second phase of the project, the FSR and ECF summarized together the findings of the workshop series and elaborate the policy manifesto. A public workshop was organized in June 2022 to present this manifesto and discuss it with relevant stakeholders and policymakers.

[int:net](#)

May 2022 – April 2025

### *Interoperability Network for the Energy Transition*

"Interoperability depends on cooperation of multiple domains. While for the energy sector technical interoperability is quite well established, interoperability of functions and businesses needs more attention. Even when standards are defined and interoperability models agreed, framework setters, product developers and users need to agree on their deployment and make sure that solutions are compatible with definitions. The Interoperability Network for the Energy Transition project (int:net) establishes an open, cross-domain community bringing together all stakeholders relevant for the European energy sector to jointly work on developing, testing and deploying interoperable energy services.

## Energy Communities Repository

April 2022 – April 2024

The European Commission launched the Energy Communities Repository, an initiative aimed at supporting and monitoring energy communities' activities across Europe. The Repository will support the Member States, citizens, local authorities, companies and financial institutions in engaging with energy communities within the framework of the European Green Deal and the EU Climate Pact. The Florence School of Regulation (FSR), led by the Climate Area, participates in the consortium implementing the Repository and will be responsible for monitoring the transposition of the Clean Energy Package in the Member States, supporting the preparation of policy and regulatory reports and organising a policy dialogue. FSR will work together with the partners of the initiative REScoop.eu (lead), Energy Cities, FEDARENE and Akaryon.

## OneNet

October 2020 – September 2023

### *One Network for Europe*

OneNet is a Horizon 2020 project bringing together more than 70 European partners to create a fully replicable and scalable architecture that enables the whole European electrical system to operate as a single system in which a variety of markets allows the universal participation of stakeholders, from small consumer to large producers.

## LIFE DICET

September 2019 – September 2022

### *Deepening International Cooperation on Emissions Trading*

The FSR Climate team is working on LIFE DICET, a project co-financed by the European Commission's Directorate-General for Climate Action (DG CLIMA) through the LIFE Programme. The project will build on and take further the results of the recently completed LIFE SIDE project, which has been supporting European policy-makers with the design and implementation of the new EU ETS legislation.

## Global Observatory on Peer-to-Peer Energy Trading

### *User-Centred Energy Systems*

The observatory is a forum for international collaboration to understand the policy, regulatory, social and technological conditions to support the wider deployment of P2P energy solutions.

## INTERFACE

January 2019 – December 2022

*TSO-DSO-Consumer INTERFACE architecture to provide innovative grid services for an efficient power system*

The Horizon2020 INTERFACE project works around the question of how to organize the procurement of different services at both the transmission and distribution-level. Several demonstrators are being developed. FSR is in charge of the regulatory framework around such new developments and addressing market design questions.

## INC

May 2020 – April 2024

The purpose of this project is to develop knowledge on whether, how and why EU integration in the electricity sector is affected by the process of implementing EU legislation; and to provide policy-relevant knowledge that can be applied strategically to improve energy market regulation, and theory-relevant knowledge that will contribute to the academic research frontier of integration and implementation in the EU. The project focuses on the development, implementation, application and consequences of EU electricity network codes.

## POWEREG

June 2020 – May 2024

*Regulating Power in Norway: Decentralization or centralization?*

The background for this project is an emerging international trend towards more decentralized electricity system management. The project focuses on local grid companies that increasingly take a more active role in planning and managing local grid constraints. This includes more and better surveillance of the grid, new investments, and involvement of consumers and other stakeholders in production of electricity and management of demand.

## LNGnet

January 2021 – December 2023

*Towards a liquid, flexible and transparent global Liquefied Natural Gas (LNG) Market*

The LNGnet Project has been launched in Spring 2021 by the European Commission to support the development of a liquid, flexible, transparent and sustainable global LNG market. The Project operates within the framework of the EU's long-term objective of a climate-neutral economy, while reckoning that natural gas will certainly play a substantial role in the world's energy supplies for several decades, with LNG representing a growing share of natural gas trade. The LNGnet Project includes a Training and Technical Assistance package, aimed at deepening the engagement of partner countries in liquid and flexible global LNG trade, and to increase their understanding of EU gas and LNG market policies and practices, including on the envisaged decarbonisation of the gas sector in line with the EU's climate objectives.

**Leonardo Meeus**

Director

Florence School of Regulation

Loyola de Palacio Chair

European University Institute

On Twitter @LeonardoMeeus

**Florence School of Regulation**

Robert Schuman Centre for Advanced Studies

European University Institute

Via Boccaccio 121, I-50133

Florence, Italy

FSR.Secretariat@eui.eu

+39 055 4685 878

**fsr.eui.eu**



Published in April 2023,  
by the European University Institute  
©European University Institute, 2023



With the support of the  
Erasmus+ Programme  
of the European Union