



European
University
Institute

ROBERT
SCHUMAN
CENTRE FOR
ADVANCED
STUDIES

FSR ENERGY &
CLIMATE
Florence School of Regulation

ANNUAL REPORT 2019

ABOUT

Founded in 2004 as a 'Centre of Excellence' for the independent discussion and dissemination of knowledge in European regulation and policy.

MISSION

The Florence School of Regulation (FSR) Energy & Climate brings together the world of academia and practice. We carry out applied research, policy dialogue and training courses, with the purpose of developing economically and socially sound energy regulation and policy for Europe and worldwide.

FSR FORUM



Regulators



Policy Makers

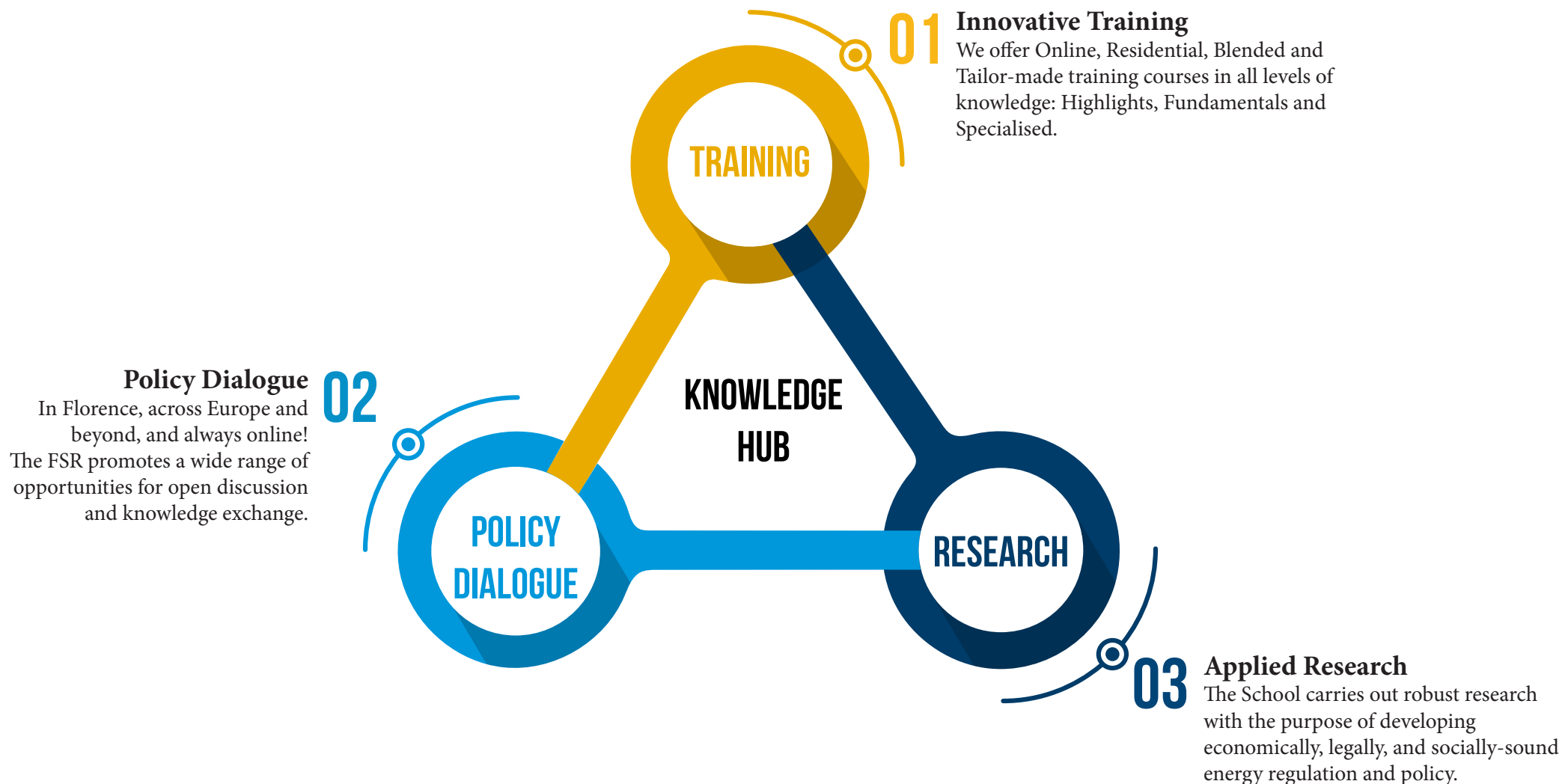


Academia

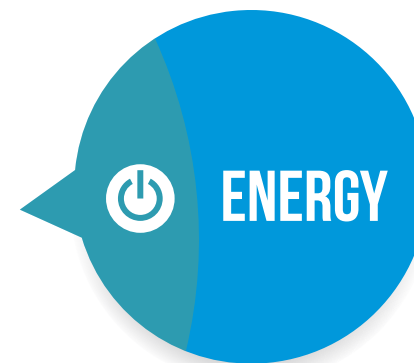
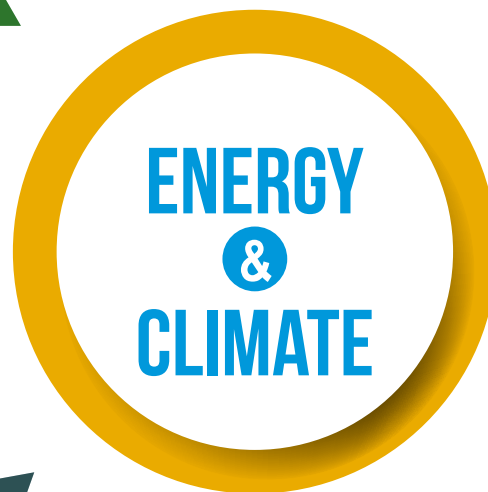


Industry

FSR ENERGY MODEL



FSR ENERGY AREAS



HIGHLIGHTS OF 2019



FSR is now a fully integrated Global Knowledge Platform!

- We focus on **community building** across all our pillars (training, research and policy dialogue), areas of expertise and stakeholders.
- We drive **innovation** by exploring further regulatory issues in new geographical areas, a coherent step with the expansion of our global activities. Here, our focus is on South Asia (specifically India), Africa, and Latin America.

FSR launches in partnership with leading international and multilateral organisations a **Global knowledge Hub in India**, which complements efforts to foster **global regulatory knowledge exchange**. FSR gets a pin code in New Delhi from November 2019.

FSR Gas Area in exclusive cooperation with DG Energy creates the “**Sector Coupling Platform**” supporting the Madrid Forum. The Area expands its global outreach through extended cooperation with Asia (China, Indonesia, Japan) via training, dedicated research projects and workshops.

FSR Energy signs a Memorandums of Understanding with the new Director of the **International Renewable Energy Agency (IRENA)**, Francesco La Camera, and with the Chairman of the **Supervisory Agency of Investment of Energy and Mining - OSINERGMIN** of the Republic of Peru, Daniel Schmerler. New partnerships are set up with the **EU-China Platform** and the **EU-Africa High-Level Platform**.

Three brand new online courses and one new residential training in 2019!

FSR publishes two books and two booklets: ‘Sustainable Consumption: The Right to a Healthy Environment’, ‘Imperfect Markets and Imperfect Regulation: An Introduction to the Microeconomics and Political Economy of Power’, ‘Blockchain meets Energy’, ‘TSO-DSO Coordination for Acquiring Ancillary Services from Distribution Grids’.

FSR inaugurates a new learning management system (LMS), Brightspace D2L, and launches a new website.

FSR awards the **1st FSR Lights on Women Scholarship** committing further towards connecting, training and supporting women in energy.

FSR launches the **#NetZero podcast series** to tap into the minds of key actors involved in the Energy Transition, and the **new initiative #AskFSR** where members of our community can tweet any questions about our research and other hot topics in the energy sector and the FSR Research Team answers a selection of questions every week.

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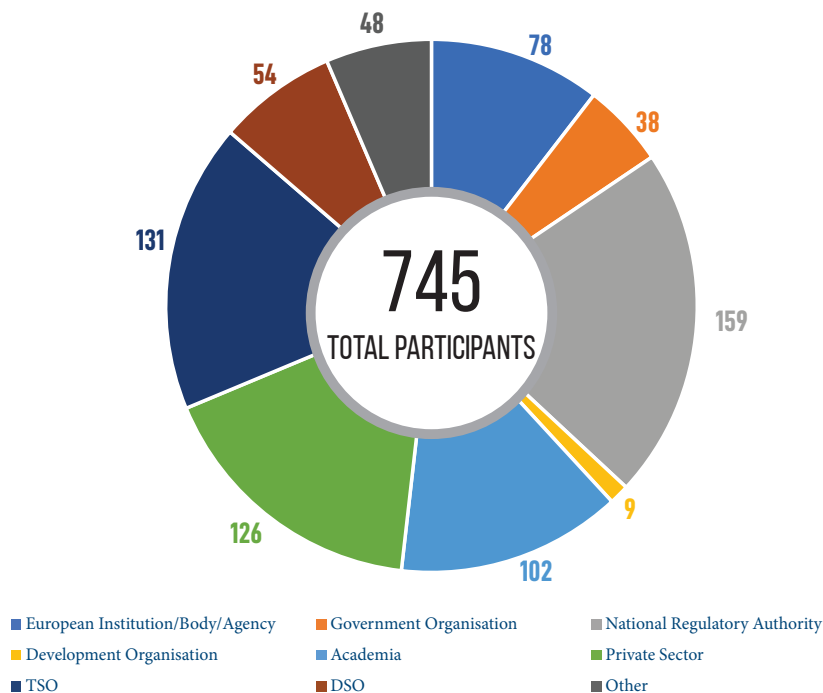
TRAINING

FSR TRAINING

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.

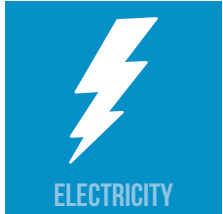
We offer different types of training courses: Online, Residential, Blended (online + residential) and Tailor-made courses at all levels of knowledge. There are three levels:

- **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.



International Faculty
Our school is supported by a global faculty of renowned academics and practitioners.

RESIDENTIAL & ONLINE TRAINING



Future Power Grid Managers Programme

23-26/04/2019 | Brussels

The programme, a joint initiative of the Vlerick Business School and the Florence School of Regulation, aimed to tackle the management challenges and opportunities specific to the Transmission System Operators (TSOs) and Distribution System Operators (DSOs) in the power and gas industries in Europe.

Organised by Vlerick Business School in cooperation with FSR

Regulation and Integration of Renewable Energy

13-16/05/2019 | Florence

This training provided a comprehensive overview of the role and potential of renewable energy, considering that its worldwide growth is changing all paradigms of policy, regulation and market design. Hence, every energy industry professional is now directly or indirectly involved in the regulation and integration of renewable energy.

Executive Course to master Electricity Markets

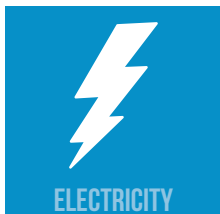
17-18/10/2019

This 2-day executive course discussed the micro-economics of wholesale power markets and their implications for energy policies. The course is built on key economic principles and an interactive approach is used to discuss current policy debates on the Clean Energy Package, the introduction of capacity mechanisms, of scarcity pricing, as well as the reform of renewables support mechanisms and of the European Emission Trading Scheme.



Executive Course to Master Electricity Markets
Florence | October 2019

RESIDENTIAL & ONLINE TRAINING



The Regulation of the Power Sector

18 November 2019 – 20 March 2020

This 4-month course gave an overview of the fundamental concepts of power sector regulation from an engineering, economic and regulatory perspective. The course represented a unique opportunity to work together with peers from across the world, learning from video lectures, reading material, live classes and collaborative activities with the flexibility to study independently.

EU Electricity Network Codes

23 September – 3 December 2019 | Online

This 9-week online course is composed of readings, videos as well as interactive and communicative online activities. Each week will have a comprehensive class with live interaction between the participants and the FSR instructors. In the first six weeks, the focus is mainly on the market network codes (CACM GL, FCA GL, EB GL). Also, the interaction between the market codes and the system operation guideline (SO GL) is highlighted.

Organised by FSR in cooperation with ENTSO-E, the European Commission and ACER



Regulation and Integration of Renewable Energy
Florence | June 2019

RESIDENTIAL & ONLINE TRAINING



[Introduction to Fundamentals of Energy Regulation](#)

01-05/04/2019 | Brussels

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. 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.

Joint Training: FSR and the Council of European Energy Regulators (CEER)

[Annual Training on the Regulation of Energy Utilities](#)

30/09-04/10/2019 | Florence

14/10/2019 – 03/06/2020 | Online

03-07/06/2019 | Florence

This blended 3-block course is the most comprehensive training on the regulation of the energy sector in Europe, developed specifically for National Regulatory Authorities and the regulatory affairs departments of energy companies. The objective is to provide the staff of regulatory authorities and market operators with a comprehensive knowledge of regulatory principles. It offers different perspectives and experiences of energy regulation on topics such as wholesale markets, electricity transmission, the quality of energy supply, regulatory legal procedures, monopolistic and competitive activities, wholesale and retail gas markets. The first residential training week in Florence introduced the annual course and covered the fundamental principles of regulation, markets, networks and the institutional framework. The third block of the training was dedicated to the discussion of case studies, group work and simulation games as well as a final workshop on energy and sustainability.



Annual Training on the Regulation of Energy Utilities
Florence | October 2019

RESIDENTIAL & ONLINE TRAINING



Summer School on Regulation of Energy Utilities

24-28/06/2019 | Florence

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.

Executive Training dedicated to the reflexion on future issues and balances around network operators

20-21/09/2019 | Florence

This executive training seminar is designed to reflect upon the future of network operators at a time when balances in Europe are changing profoundly. It will discuss future issues and balances from multiple perspectives such as possible models of development, the future role of gas and infrastructure values and investment financing.

Organised by FSR in cooperation with Paris Dauphine University for Enedis executives

EU Clean Energy Package

30 April – 21 June 2019 | Online

This 6-week online course is composed of readings, videos as well as interactive and communicative online activities. Each week will have a comprehensive class with live interaction between the participants and the FSR instructors. This new edition included the final versions of the Electricity Directive and Electricity Regulation. In addition, we will also cover the Regulation on the Governance of the European Union.

Organised by FSR in cooperation with the European Commission and InnoEnergy



Summer School on Regulation of Energy Utilities,
Florence | June 2019

RESIDENTIAL & ONLINE TRAINING



[The European Energy Transition: Actors, Factors, Sectors](#)

17 May – 12 July 2019 | Online

The 8-week training provides an insight into the EU's energy transition journey by looking at the past trajectory and the challenges ahead. Technology breakthroughs, innovation including business model innovation and processes as well as changing role and emerging actors, policies, regionalisation and Europeanisation form an intrinsic part of the agenda.

Organised by FSR and ENTSO-E

[Regulatory Delivery](#)

7 October – 29 November 2019 | Online

This 6-week course shares 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, you will review increasingly complex infrastructure regulation due to public policies promoting liberalisation, decarbonisation and digitalisation.

[Regulation for Universal Access to Energy](#)

11 February – 24 June 2019 | Online

This 5-month course analysed the multi-dimensional approach to energy access, emphasising the role of regulation. The course brought together experts from around the world to help participants develop the necessary skill sets needed to address the issues of energy access.



Open Africa Power- Course Participants visiting FSR
Florence | July 2019

RESIDENTIAL & ONLINE TRAINING



Specialised Training on the Regulation of Gas Markets

04-08/03/2019 | Florence

This training focused on the basic principles and concepts of gas regulation (transmission tariffs, TPA and pipeline competition, incentives for new infrastructure, and price caps), as well as the most relevant and topical issues at the European and global level. The course provided a comprehensive assessment of the current state of the gas market and an overview of the diverse applications of gas regulation in different geographical contexts. Participants had the opportunity to improve and exercise their regulatory knowledge, while developing their problem-solving skills by working in small groups.

Power to the molecules (from technology to market uptake)

11-12/07/2019 | Florence

The interactive two-day training organised within the framework of the STORE&GO project guided participants through technical, economic, business, legal and regulatory aspects of Power-to-Gas (P2G). This interdisciplinary course built upon the practical experience of 27 STORE&GO partner organizations and companies from all over Europe, which joined forces to integrate P2G technology into the future of the European energy system.

Organised by FSR in cooperation with the Energy Delta Institute



Power to the molecules (from technology to market uptake)
Florence | July 2019

RESIDENTIAL & ONLINE TRAINING



[Introduction to the Regulation of Gas Markets](#)

7 November 2018 - 15 March 2019 | Online

This 5-month course provided basic knowledge of how gas markets regulation works, starting from technical and economic fundamentals, and including key policies implications and debates. Every lesson included a video lecture, interactive online quizzes and exercises, collaborative activities, as well as a weekly live class with the instructors.

[EU Gas Network Codes](#)

6 March – 8 May 2019 | Online

The new 7-week online course was designed jointly by FSR and ENTSOG to provide participants with comprehensive knowledge about the EU Gas Network Codes (NC). This training comprised of a general introduction and five modular lessons on the adopted NCs and guidelines. Every lesson included an introductory video lecture, online assignments and quizzes, forum discussions and weekly live classes with the instructors.

Organised by FSR and ENTSOG



FSR Global Forum
Florence | March 2019

RESIDENTIAL & ONLINE TRAINING



REMIT: Getting up to speed on recent Legal and Practical Developments

09/04/2019 | Brussels

This specialised training was designed to provide a critical understanding of how REMIT is currently being implemented and enforced, and equip participants with the necessary tools to anticipate practical issues and ensure compliance. Together with top experts in the field, participants examined what the REMIT provisions require in practice and how it is implemented and enforced in Member States.



FSR Global Forum
Florence | March 2019

RESIDENTIAL & ONLINE TRAINING



Executive Training Seminar: Global Quest for Investment Finance for the Low Carbon Economy

11-12/04/2019 | Florence

The Executive Training Seminar looked closely at the role of Central Banks and of State Investment Banks in the transition to low carbon economy; as well as investigating possible ways of scaling up climate finance in developing and emerging countries and the different national paths to contribute to the Paris Agreement. Participants also learnt about the European experience of the EU Emission Trading System.

Organised by FSR & School of Transnational Governance

Climate Governance

30 September – 10 November 2019 | Online

This course provides policy-makers and practitioners working on the implementation of the Nationally Determined Contributions of the Paris Agreement with an introduction to the instruments and policies that have been developed within the European Union. By sharing the experience of creating a common climate policy amongst 28 EU Member States and overcoming their social, economic and political differences, the course will provide useful insights and reflections for transnational cooperation and negotiations at the international level.

Organised by FSR & School of Transnational Governance



Global Quest for Investment Finance for the Low Carbon Economy
Florence | April 2019

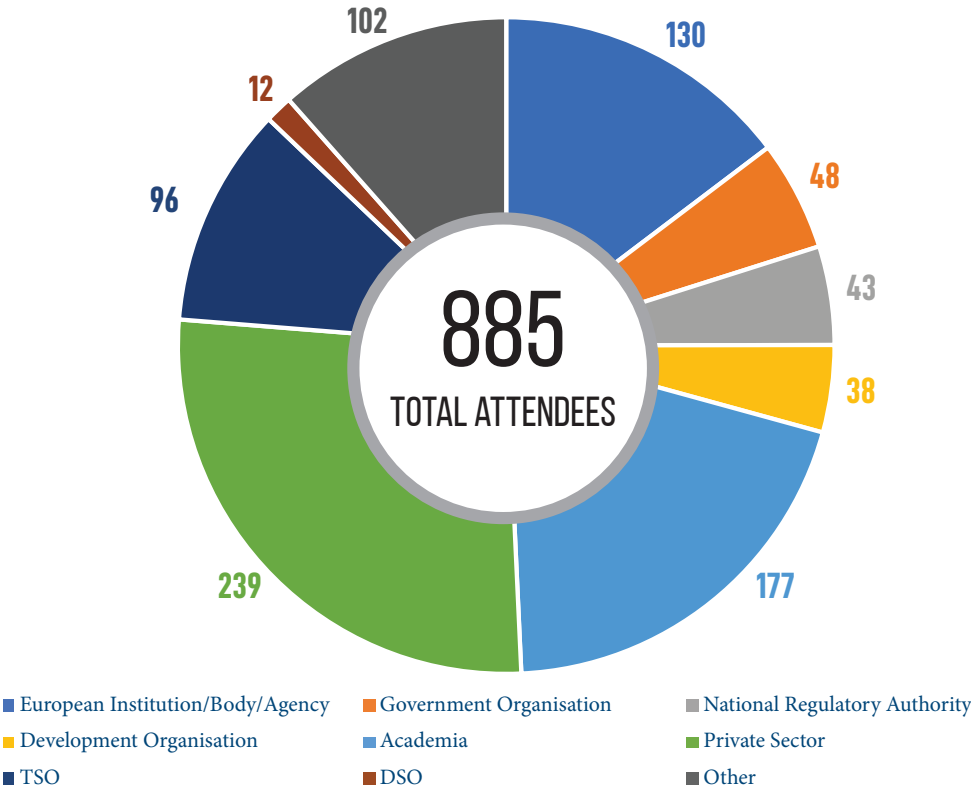
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POLICY EVENTS

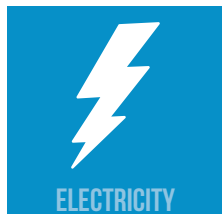
POLICY DIALOGUE

In Florence, in Brussels, and online.

FSR Energy & Climate offers a vast range of opportunities for open discussion on energy regulation, EU energy and climate policy and law. These events provide a platform for innovative discussion and practice-sharing, and offer opportunities for close interaction with the key stakeholders of the energy industry at various locations across Europe.



POLICY EVENTS



Zonal vs Nodal Pricing for the Electricity Markets

25/01/2019 | Florence | FSR Regulatory Policy Workshop

The Workshop aimed at mapping out the main pros and cons of implementing a nodal market structure for the electricity sector in Europe, referring to the relevant international experience. Firstly, the experience with the implementation of nodal pricing for the electricity market (including its impact on market price and basis risk hedging and liquidity) was reviewed. The second session used the results of the first one to discuss the benefits of moving the EU electricity market design towards a nodal price structure, as well as the associated challenges.

New business models in the electricity sector and developments behind the meter

14-15/02/2019 | Florence | Workshop

This two-day workshop investigated how the various players are adapting their business models to the new risks and opportunities posed by decarbonisation and digitalisation. It also looked at the new actors that are emerging within the electricity sector or are entering it from other industries.

Towards Multilateral Electricity Trade in Southeast Asia

27/02/2019 | Florence | Seminar

This seminar presented the policy debates surrounding the development of multilateral electricity trade in Southeast Asia from the perspective of ASEAN policymakers, power sector stakeholders, and international consultants. It explored the applicability of international experiences on these countries without fully built-out infrastructures and at varying stages of market liberalisation.

Organised by FSR and STG



Zonal vs Nodal Pricing for the Electricity Markets,
Florence | January 2019

POLICY EVENTS



InnoGrid2020+ Conference – the innovative power conference

13-14/05/2019 | Florence | Conference

This year's conference focused on 'Connecting Physics and Digits: Power Platforms on the Rise', investigating innovation strategies dos and don'ts, today's rising power platforms, as well as on debating the need of support from regulation, policy and financing. The interactive breakout sessions and networking exhibition provided acquaintance with pilots and projects on key matters such as active system management, sector coupling and storage, advanced grid resilience and innovations for the physical grid.

Organised by ENTSO-E, EDSO for Smart Grids in cooperation with the FSR

Shaping the EU Framework towards 2030 and beyond

01/07/2019 | Florence | Executive Workshop

The Florence School of Regulation collaborated with Terna to discuss some of the upcoming challenges in energy policy and regulation in areas where electricity grids are questioned. This year's Executive Workshop investigated the European energy policy path towards 2030-2050, starting from the existing electricity market design and grid codes, and the Clean Energy Package. The event begun investigating the energy transition and the 2030 horizon, in particular whether the Clean Energy Package is an adequate tool to tackle the upcoming challenges. The session then examined the 2050 horizon, debating how networks can enable the transition from a low carbon to a zero-carbon electricity system; as well the optimal mix of measures to be adopted to achieve a fully decarbonised system.

Organised by FSR & Terna



Shaping the EU Framework towards 2030 and beyond,
Florence | May 2019

POLICY EVENTS



Digital Energy Marketplaces

17/09/2019 | Florence | Workshop

The various sessions of the workshop will explore how distributed ledger technologies like the blockchain can effectively transform the energy industry and enable new forms of interaction among the actors of the supply chain. The possible emergence and the organisation of new platforms and contractual arrangements will be investigated. Finally, the workshop will address the governance and regulatory issues that the adoption of these new technologies raises.

Organised by FSR, European Commission and The Alliance for Internet of Things Innovation (AIOTI)

Energy Innovation Bootcamp

26/11/2019 | Florence | Bootcamp

Energy transitions imply disruptive innovation. The 2nd Energy Innovation Bootcamp aims to bring together young scholars to discuss industry adaptation to technological and institutional change. The perspective of industries as complex and evolving systems opens the discussion to topics on industrial dynamics, networks, interactions, and heterogeneity. In the context of energy transitions, we ask how the industry evolves and how it induces innovation. That is an opportunity to bring together a broad view on technological and institutional aspects, and cross-fertilize those streams in a co-evolutionary perspective.

Joint Event: FSR, Young Scholars Initiative (YSI)



POLICY EVENTS



[The European Energy Transition: a year ahead of the twenties](#)

23/02/2019 | Brussels | Book and Online Course Launch

This event investigated the most important issues related to energy for the next few years. The event also coincided with the launch of the book 'The European Energy Transit

Joint Event: FSR, Bruegel and the Jacques Delors Foundation

[Local Governance for Transnational Energy Transition](#)

25/02/2019 | Florence | Workshop

The objective of the workshop was to discuss the theory and practice of new energy local governance models. The event also launched a proposal for translating into appropriate legal language all the relevant technical, economic and institutional aspects at the core of the new energy governance in the EU, and for providing the training structure needed to all decision-makers and stakeholders involved.

Organised by FSR & the School of Transnational Governance

[FSR Global Forum – World Energy Transition](#)

25 – 28/03/2019 | Florence | Forum

The first FSR Global Forum provided a platform for multi-stakeholder engagement to facilitate transnational knowledge exchange, and to foster practice-oriented solutions on key aspects of the world energy transition. The topical issues addressed had a special focus on Latin America, Africa and Asia. It brought together 100 representatives from government agencies, regulatory bodies, energy companies, energy utilities, development organisations and academics from across the world. The Forum developed around 12 sessions and benefited from highly interactive discussions and an ad-hoc App to digitally map the key insights of each session.



FSR Global Forum
Florence | March 2019

POLICY EVENTS



[The Geopolitics of Energy Transformation – Impact on Europe](#)

16/04/2019 | Florence | Workshop

The Global Commission on the Geopolitics of Energy Transformation initiated by International Renewable Energy Agency's (IRENA's) Director-General Adnan Z. Amin has produced a Report analysing the geopolitical implications of the global energy transformation. The Report highlights the vital need to prepare proactively for the new energy age and its geopolitical consequences. Responding to this call, the workshop focused on the opportunities, risks and initiatives to be taken by the EU in this era of the energy transformation.

[Policy Advisory Council – FSR Energy](#)

09-10/05/2019 | Florence | Policy Advisory Council

The Policy Advisory Council discussed the most topical regulatory and policy issues, as well as debating the relevance and robustness of the latest FSR research findings. Among the debated topics: new business models in the electricity sector, flexibility procurement for distribution grids, the future of RES communities, gas methane emissions and the future developments of the FSR Gas and Global areas.

The meeting gathered renowned academics, experts from the FSR-Energy Major Donors, the European Commission, the Agency for the Cooperation of Energy Regulators (ACER) and National Regulatory Authorities.

[Digital Platforms – The New Network Industries? How to regulate them?](#)

20-21/06/2019 | Florence | Conference

The Conference on the Regulation of Infrastructures is the annual event that brings together all the Areas of the Florence School of Regulation. This 8th edition aimed to identify the key challenges set by the digitalisation of traditional network industries; debate different regulatory approaches to platforms and determine benefit scenarios for consumers.

Joint Event: FSR Energy, Transport, Communications & Media, Water Areas



The Geopolitics of Energy Transformation – Impact on Europe,
Florence | April 2019

POLICY EVENTS



What's in it for all of us? The new role(s) of consumers

28/06/2019 | Florence | FSR Regulatory Policy Workshop

The Workshop explored how the latest policy and regulatory developments promoting “consumers’ empowerment”, as defined by the “New Deal” and the Clean Energy Package, will assign new roles and provide new opportunities to consumers. The Workshop also assessed any risk of exclusions for vulnerable consumers and the impact of empowered consumers on the market and the implications for market and system operations.

FSR European Energy Policy and Law Conference

12/09/2019 | Brussels | Conference

The next Commission will play a decisive role with respect to the future of European energy policy. It will need to ensure the successful implementation of the current

Commission’s legacy; delivering on highly ambitious renewables and energy efficiency targets, completing the infrastructure linking all Member States to multiple gas sources, and finalising the detailed regulatory changes following from the gas and electricity Network Codes. This event is aimed to discuss these issues and to draw some first conclusions on what should be the next Commission’s energy priorities.

Energy as a punitive measure

14/10/2019 | Florence | Research Seminar

In this FSR Research Seminar, Prof. Itay Fischhendler of Hebrew University of Jerusalem will present the findings of the article “Energy as a Rewarding and Punitive Foreign Policy Instrument: The Case of Israeli-Palestinian Relations” (Febr. 2019), the use of energy as a punitive or rewarding measure to advance foreign policy ends in conflict situations will be explored. In particular, the conflict zone of Gaza will be analysed from an energy geopolitical perspective, examining the interplay between the history of regional energy sanctions, the emerging renewable energy revolution and the adaptation of local communities.



FSR European Energy Policy and Law Conference,
Brussels | September 2019

POLICY EVENTS



RES Aggregators as Enablers of Prosumers and Active Market Participation

11/02/2019 | Brussels | Seminar

This seminar has been organised in cooperation with the EU - funded BestRES project, and focused on the business models for renewable energy aggregation, providing an overview of the business models and legal framework available to aggregators acting in future markets. The workshop provided also a set of national and European enabling conditions identified during the BestRES project for the uptake of RES aggregation's business models to support policy-makers in elaborating strategies and ease the transition towards cleaner sources of energy.

A Revision of Hydropower Concessions

13/06/2019 | Florence | Lecture

Professor Henrik Bjernebye, University of Oslo and visiting fellow of the Energy Union Law Area at the Florence School of Regulation, gave a lecture on his research undertaken at the FSR. The presentation firstly provided a brief overview of the Norwegian licensing system and then discussed the legal requirements for the revision of hydropower concessions.

Competition Law and the Energy Sector

25/06/2019 | Brussels | Workshop

This yearly FSR Energy Union Law workshop, organised in collaboration with Cleary Gottlieb Steen & Hamilton, brought together key players in the field to analyse and debate the role of competition law according to the newest developments across the EU energy sector. This edition opened by considering a wish list for the new Commission before turning to three key themes surrounding competition law policy and the energy transition.

Organised by FSR in cooperation with Cleary Gottlieb Steen & Hamilton



9th FSR & BNetzA Forum on the Legal Issues of Energy Regulation,
Florence | October 2018

POLICY EVENTS



7th Vienna Forum on European Energy Law

9-20/09/2019 | Vienna | Forum

This 7th edition of the Vienna Forum brought together representatives from EU institutions, academics, and representatives from regulatory authorities alongside members of industry, energy-focused law firms and consultancies to exchange knowledge and share practices on how to tackle the latest EU energy issues and explore the opportunities for integrated energy policies from both a legal and economic perspective.

Joint Event: FSR & Energy Community Secretariat

Regulating the Renewable Power Sector

09/10/2019 | Florence | Workshop

The workshop brought together policy-makers and experts in the field to address recent developments in the regulation of the renewable energy sector, with a particular emphasis on the Norwegian versus EU approach to the issue. The topics discussed included the new renewable energy directive, the implementation of the recent EU governance regulation on climate and energy action, the services directive and the sustainable financing of renewables. The workshop primarily focussed on these measures from a legal and economic perspective.



6th Vienna Forum on European Energy Law,
Vienna | September 2018

POLICY EVENTS



[The Management of Hydropower in the Energy Union](#)

10/10/2019 | Florence | Workshop

This workshop analysed and discussed the current state of hydropower regulation from the perspectives of national resource management, EU market design, and investor protection. It considered recent domestic reforms as far as these have been prompted by EU legal requirements.

Joint event: by FSR & the University of Oslo

[11th FSR-BNetzA Forum on the Legal Issues of Energy Regulation](#)

15/11/2019 | Brussels | Forum

For the 11th edition of this collaboration, we will look beyond the Clean Energy Package to the next priorities in energy regulation and consider how the incoming Commission may shape the energy landscape. We will examine the role of digitalisation in empowering the consumer, the system integration of renewables, and regulatory design.

Joint event: by FSR & BNetzA



FSR European Energy Policy and Law Conference
Brussels | September 2019

POLICY EVENTS



Gas as an integral part of the EU decarbonisation strategy: which sources, challenges and perspectives

18/02/2019 | Florence | FSR Gas Policy Workshop

Despite the adoption of the Paris Agreement and, more recently, of the Katowice Rulebook, the IEA expects that oil, gas, shale gas and coal will continue to provide a great share of the global energy supply. Moreover, in several non-EU countries the consumption of conventional fuels, including natural gas, is expected to increase in the next years. In this context, the workshop discussed the role and long-term prospects for conventional gas, as well investigating what the next Commission should do in order to ensure that decarbonisation occurs in a cost-effective way.

Joint Event: FSR and GIE

Sector Coupling 2.0: Power to Gas in the EU Decarbonisation Strategy

17/05/2019 | Florence | FSR Regulatory Policy Workshop

The Workshop reviewed the power-to-gas technological landscape, identifying the potentials for the different technologies and their future economic viability. It also discussed how power-to-gas could enable sector coupling, and deliver benefits in terms of greater temporal and geographical flexibility of the energy system. The regulatory and market design implications of such developments were also explored.



Sector Coupling 2.0: Power to Gas in the EU Decarbonisation Strategy
Florence | May 2019

POLICY EVENTS



Which energy storage for the flexibility needs of a multi-energy system?

27/05/2019 Florence | FSR Gas Policy Workshop

What is the appropriate regulatory and market design to support the integration of higher shares of renewable energy with minimum curtailment and at optimised system cost? How to assess externalities related to the system and insurance values in a cross-sectoral flexibility market to unlock the full potential of large-scale storage? These and other related issues were debated in this event, that concluded by issuing policy recommendations.

Joint Event: FSR and GIE

How many gas markets?

15/11/2019 | Florence | FSR Regulatory Policy Workshop

This Workshop will explore the future technological and market landscape for gases, used as energy media and as feedstock for industrial processes. Starting from a future-proof taxonomy, it will assess to which extent different gases will be able to share the same infrastructure, and under which conditions (e.g. retrofitting). It will then go on to identify the implications for market design.



Which energy storage for the flexibility needs of a multi-energy system?
Florence | May 2019

POLICY EVENTS



Third Carbon Market Workshop

21/03/2019 | Florence | Workshop

This workshop brought together academia, stakeholders and senior policy makers from different carbon markets worldwide, in a unique process for a fruitful exchange on carbon market integration. The workshop, jointly organised with the DG Climate Action of the European Commission, is part of the so called 'Florence process' aimed to stimulate the on-going debate on carbon markets amongst international policymakers and experts. The event was a follow-up of the LIFE SIDE project, completed in December 2018, aimed at supporting policymakers with the implementation of the EU ETS.

Trust in the Single Market? The case of the EU Emissions Trading System

02/05/2019 | Florence | Side Event at the 2019 State of the Union

FSR Climate, together with the Policy Outreach Committee of EAERE and in collaboration with the School of Transnational Governance of the European University Institute, organised this session to promote a more integrated dialogue between academia and the policy world, providing advice and support to EU policy makers and institutions in designing policy interventions. The event intended to continue the policy dialogue carried out by FSR Climate under the LIFE SIDE project (co-funded by the LIFE Programme of the European Union).

Joint Event: FSR and the European Association of Environmental and Resource Economists (EAERE) Type of event: Side Event at the 2019 State of the Union



Trust in the Single Market? The case of the EU Emissions Trading System
Florence | May 2019

POLICY EVENTS



[Banking on Climate: a path to Responsibility and Sustainability](#)

15/10/2019 | Florence | Seminar

This seminar aims at highlighting the points of strength and weakness of the Principles for Responsible Banking and their alignment with the Paris Climate Agreement objectives, and at discussing about their potential impact on the transition to a low-carbon economy. The Principles provide the framework for a sustainable banking system, and help the industry to demonstrate how it makes a positive contribution to society.

Joint Event: FSR and Fondazione Finanza Etica

[Integrating Climate Risks into Macro-Economic Models](#)

30/10/2019 | Florence | Roundtable

The feedback loops between the various components (Energy system, land use, climate and macro-economy) of the Integrated Assessment Models (IAM) are often poorly captured and the complexity of these models can make them hard to use for forecasting and policy analysis purposes over shorter-term horizons. As such, a number of economists see a need for new research as to how to integrate climate considerations into more traditional macro-economic models. The questions raised by this issue will be addressed during the roundtable.

Joint Event: FSR and Florence School of Banking & Finance

[FSR Climate Annual Conference 2019](#)

28-29/11/2019 | Florence | Conference

The 5th Annual Conference on the Economic Assessment of European Climate Policies will cover the main climate-related existing policies, at EU, national and subnational levels and will include plenary sessions on Energy efficiency, Renewable policies, Environmental taxation, and Emissions trading.



Climate change: Global day of action
Firenze | March 2019

03

RESEARCH

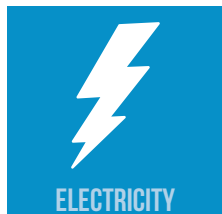
RESEARCH

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



■ Books ■ Booklets ■ Book Chapters ■ Journal Articles ■ Research Reports ■ Working Papers ■ Policy Briefs ■ Online Monthly Editorials

RESEARCH BOOKS



Blockchain meets Energy

Authors: Hermosilla Astorga Diego A., Paredes Juan, Peter Viktor, Rosado Rivial Moisés, Soto Sepúlveda Eduardo

Publishers: German-Mexican Energy Partnership (EP) and Florence School of Regulation (FSR) (45 pp.)

Imperfect Markets and Imperfect Regulation: An Introduction to the Microeconomics and Political Economy of Power

Authors: Thomas-Olivier Léautier

Publishers: MIT Press (416 pp.)

TSO-DSO Coordination for Acquiring Ancillary Services from Distribution Grids

Authors: Gianluca Migliavacca, Marco Rossi, Carlos Madina, Ivana Kockar, Seppo Horsmanheimo, Guillaume Leclercq



Sustainable Consumption: The Right to a Healthy Environment

Editors: Amaral Junior Alberto do, de Almeida Lucila, Klein Vieira Luciane

Publisher: Springer (475 pp.)



The ACER Experience

Chapter 11, pp. 175-210

Author: Pototschnig Alberto

Book: European Energy Studies Volume XIV | [The European Energy Transition: Actors, Factors, Sectors](#)

Editor: Nies Susanne

Publisher: Claeys & Casteels Law Publishing

Training for the Energy Transition: Community Learning at Florence School of Regulation

Chapter 30, pp. 463-475

Author: Meeus Leonardo, Glachant Jean-Michel

Book: European Energy Studies Volume XIV | [The European Energy Transition: Actors, Factors, Sectors](#)

Editor: Nies Susanne

Publisher: Claeys & Casteels Law Publishing

In Search of a Grand Theory of European Private Law: Social Justice, Access Justice, Societal Justice and Energy Markets

Author: de Almeida Lucila, Esposito Fabrizio

Book: [The Transformation of Economic Law: Essays in Honour of Hans-W. Micklitz](#)

Editors: de Almeida Lucila, Cantero Gamito Marta, Djurovic Mateja, Purnhagen Kai Peter

Publisher: Hart Publishing

Institutional Co-operation in Private Law beyond the Hague Convention and towards Standard Bodies

Authors: de Almeida Lucila, Cantero Gamito Marta, Micklitz Hans-W.

Book: [Research Handbook on the European Union Engagement with International Organization](#)

Editors: Wessel Ramses A., Odermatt Jed

Publisher: Edward Elgar Publishing

Auction Design to Procure Energy efficiency Measures as Distributed Energy Resource

Authors: de Barros Correia Tiago, Moreira Pinto Gabriel, da Silva Oliveira Vitor Hugo

Book: [Sustainable Consumption: the right to a healthy environment](#)

Editors: Amaral Junior Alberto do, de Almeida Lucila, Klein Vieira Luciane

Publisher: Springer

RESEARCH BOOK CHAPTERS



Introduction: Sustainable Consumption and the Law

Authors: Amaral Junior Alberto do, de Almeida Lucila, Klein Vieira Luciane

Book: [Sustainable Consumption: the right to a healthy environment](#)

Editors: Amaral Junior Alberto do, de Almeida Lucila, Klein Vieira Luciane

Publisher: Springer

Looking Back to Looking Forward: A Future Research Agenda for Sustainable Consumption, Law and Development

Authors: Amaral Junior Alberto do, de Almeida Lucila, Klein Vieira Luciane

Book: [Sustainable Consumption: the right to a healthy environment](#)

Editors: Amaral Junior Alberto do, de Almeida Lucila, Klein Vieira Luciane

Publisher: Springer



Conclusions. TSO-DSO Interactions and Ancillary Services in Electricity Transmission and Distribution Networks

Authors: Migliavacca Gianluigi, Conti Ilaria

Book: TSO-DSO Interactions and Ancillary Services in Electricity Transmission and Distribution Networks - Modelling, Analysis, and Case-Studies

Editors: Migliavacca Gianluigi

Publisher: Springer (to be published in October 2019)



Climate Change Mitigation

Authors: Alloisio Isabella, Borghesi Simone

Book: [Encyclopedia of the UN Sustainable Development Goals](#)

Editor: Leal Filho Walter

Publisher: Springer



Energia | [La digitalizzazione alle porte del settore elettrico](#)

Authors: Glachant Jean-Michel, Rossetto Nicolò

Vol. 40, n. 2, pp. 62-67

The Electricity Journal | [Reliability options: Can they deliver on their promises?](#)

Authors: Bhagwat Pradyumna C., Meeus Leonardo

Vol. 32, December 2019, Issue 10, 106667, available online



Energy Policy | [The European union energy transition: Key priorities for the next five years](#)

Authors: Tagliapietra Simone, Zachmann Georg, Edenhofer Ottmar, Glachant Jean-Michel, Linares Pedro, Loeschel Andreas

Vol. 132, September 2019, pp. 950-954

Competition and Regulation in Network Industries (CRNI) | [The early years of the energy regulator in Italy](#)

Author: Ranci Pippo

Vol. 20, Issue 3 (September 2019), pp. 250-257

Oil, Gas & Energy Law (OGEL) | [Private Energy Law in the Clean Energy Package: Rights, Remedies, and Procedures](#)

Author: de Almeida Lucila

[Special issue on The Energy Union in the Next Decade](#)

Vol. 17, Ed. 3 (2019), pp. 1-20

European Energy and Environmental Law | [SoS Back-and-Forth? Minimum v. Exhaustive Harmonization of the Right to be Protected Customers in Gas Supply Crises: “Eni and Others”](#)

Author: de Almeida Lucila

Vol. 28, Ed. 3, May/June, pp. 92-100

Competition and Regulation in Network Industries (CRNI) | [Energy Regulation in Europe: The Politics of regulation and regulatory policy revisited](#)

Author: Vasconcelos Jorge

Vol. 20, Issue 3, 1 September 2019, pp. 240-24

Energy Economics | [The effect of price regulation on energy imbalances: a DiD Design](#)

Authors: Clò Stefano, Fumagalli Elena

Vol. 81, June 2019, pp. 754-764



Oil, Gas & Energy Law (OGEL) | [State Aid to the Nuclear Power Sector: The General Court's Ruling on the UK Reactor at Hinkley Point C](#)

Author: Hancher Leigh

Vol 17, No 2 (2019), pp. 1-16

Journal of Energy & Natural Resources Law | [A common EU framework regulating import pipelines for gas? Exploring the Commission's proposal to amend the 2009 Gas Directive](#)

Author: Hancher Leigh, Marhold Ana

Vol 37, No 3 (2019), pp. 289-303



Politics and Governance | [What to Expect from the 2020 Gas Package](#)

Authors: Olczak Maria, Piebalgs Andris

Vol 7, No 1 (2019), pp. 165–169

Energy Policy | A European Journey to a common biomethane market

Authors: Sabbagh Amirkhizi Tara, Skovsgaard Nielsen Lise, Olczak Maria, Conti Ilaria
(not published yet)

Climate Policy | Electrons meet molecules: Europe's game-changing policy challenges

Authors: Bressand Albert, Jepma Catrinus, Piebalgs Andris
(not published yet)



Energy Economics | [Installation entries and exits in the EU ETS: patterns and the delay effect of closure provisions](#)

Authors: Graf Christoph, Jong Thijs, Verde Stefano F.

Vol. 78, 2019, pp. 508-524

Ecological Economics | [The impact of the EU Emissions Trading System on low-carbon technological change: The empirical evidence](#)

Authors: Teixidó Jordi, Verde Stefano F, Nicolli Francesco

Vol. 164, October 2019, 106347, pp. 1-13

Metroeconomica | [Emission permits and the dynamics of clean and dirty firms in an evolutionary competition model](#)

Authors: Antoci Angelo, Borghesi Simone, Iannucci Gianluca, Russu Paolo

Vol. 70, No. 3, pp. 476-487

Sustainability | [Revising emission responsibilities through consumption-based accounting: a European and post-Brexit perspective](#)

Authors: Borghesi Simone, Caro Dario, Fezzigna Paola

Vol. 11, No. 2 (488), pp. 1-13

Climate Policy | [Free allocation rules in the EU emissions trading system: what does the empirical literature show?](#)

Authors: Verde Stefano F, Teixidó Jordi, Marcantonini Claudio, Labandeira Xavier

Vol. 19, 2019, Issue 4, pp. 439-452

Structural change and economic dynamics | [Land use and pollution in a two-sector evolutionary model](#)

Authors: Antoci Angelo, Borghesi Simone, Iannucci Gianluca, Ticci Elisa

Vol. 50, 2019, pp. 114-125

PLoS ONE | [With or without U\(K\): a pre-Brexit network analysis of the EU ETS](#)

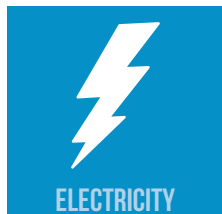
Authors: Borghesi Simone, Flori Andrea

Vol. 14, 2019, No. 9, pp. 1-17

Ecological Indicators | [Enriching the Italian genuine saving with water and soil depletion: national trends and regional differences](#)

Authors: Biasi Paola, Ferrini Silvia, Borghesi Simone, Rocchi Benedetto, Di Matteo Massimo

Vol. 107, 2019, 105573, pp. 1-12



[New business models in electricity: the heavy, the light, and the ghost](#)

Authors: Rossetto Nicolò, Dos Reis Piero Carlo, Glachant Jean-Michel

[The European Union Energy Transition: Key Priorities for the Next Five Years](#)

Authors: Tagliapietra Simone, Zachmann Georg, Edenhofer Ottmar, Glachant Jean-Michel, Linares Pedro, Loeschel Andreas

[Business Models in an Evolving Industry: the view of a former practitioner](#)

Author: Lavoine Olivier

Charging up India's Electric Vehicles

Authors: Bhagwat Pradyumna, Yemane Hadush Samson, Ravi Kumar Bhagwat Swetha
(not published yet)



[Energy Priorities for the Von der Leyen Commission](#)

Authors: Glachant Jean-Michel, Jones Christopher, Piebalgs Andris



[How far Should the new EU Methane Strategy go?](#)

Authors: Olczak Maria, Piebalgs Andris

Regulatory framework to mitigate methane emissions in North America. The lessons learned for Europe

Authors: Olczak Maria, Piebalgs Andris
(not published yet)



[Carbon Pricing, Decarbonisation, Digitalization: The Future and the Challenges of the EU Climate & Energy Policy](#)

Authors: Borghesi Simone, Glachant Jean-Michel



FSR Global Forum Report

Authors: Pérez-Arriaga Ignacio J., Glachant Jean-Michel, Lovengreen Alessi Pia, Bhagwat Pradyumna, Bhagwat Swetha, Yemane Hadush Samson, Montesano Giuseppe, Papa Carlo, Rossetto Nicoló



The EU electricity network codes (2019 ed.)

Authors: Schittekatte Tim, Reif Valerie, Meeus Leonardo

D7.4 economic framework for a meshed offshore grid | PROMOTioN April 2019

Authors: Bhagwat Pradyumna, Schittekatte Tim, Lind Leandro, Keyaerts Nico, Meeus Leonardo

D2.4 Completed Regulatory Framework | INTERRFACE July 2019

Authors: Schittekatte Tim, Reif Valerie, Nouicer Athir, Meeus Leonardo

Charging up India's Electric Vehicles – Infrastructure deployment and power system integration

Authors: Bhagwat Pradyumna, Yemane Hadush Samson, Bhagwat Swetha

The EU clean energy package (2019 ed.)

Authors: Nouicer Athir, Meeus Leonardo



A comparative study of renewable energy and electricity access policies and regulatory frameworks in the Indian Ocean Islands:

The case of Mauritius, Seychelles, Madagascar and Comoros

Authors: Yemane Hadush Samson, Ravi Kumar Bhagwat Swetha



[Competing architectures for regulatory and competition law governance](#)

Authors: Alexiadis Peter, da Silva Pereira Neto Caio Mário

The EU Electricity Network Codes and Guidelines: A Legal Perspective

Authors: Hancher Leigh, Kehoe Anne-Marie, Rumpf Julius
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Governance of the EU Energy and Climate Transition: 2020 – 2030

Authors: Hancher Leigh, Kehoe Anne-Marie
(not published yet)



[Towards an Efficient and Sustainable Tariff Methodology for the European Gas Transmission Network](#)

Authors: Cervigni Guido, Conti Ilaria, Glachant Jean-Michel, Tesio Enrico, Volpato Francesco



[The EU's NDC after the Talanoa Dialogue](#)

Authors: Alloisio Isabella, Borghesi Simone, Marcu Andrei, Nicolli Francesco, Stoefs Wijnand, Vangenechten Domien

[A Literature-based Assessment of the EU ETS](#)

Authors: Alloisio Isabella, Borghesi Simone, Labandeira Xavier, Marcantonini Claudio, Nicolli Francesco, Teixidó Figueras Jordi, Verde Stefano, Zhu Tong



[Spillover effects of distribution grid tariffs in the internal electricity market: an argument for harmonization?](#)

Authors: Govaerts Niels, Bruninx Kenneth, Le Cadre Hélène, Meeus Leonardo, Delarue Erik

[Flexibility markets: Q&A with project pioneers](#)

Authors: Schittekatte Tim, Meeus Leonardo

[New business models in the electricity sector](#)

Author: Glachant Jean-Michel



[Energy transition challenges and development priorities for the Greek energy sector in the coming decade](#)

Authors: Vasilakos Nikolaos

[The welfare and price effects of sector coupling with power-to-gas](#)

Authors: Meeus Leonardo, Roach Martin



[Assessment of the Current Regulatory Framework for Hydropower Remuneration in Brazil](#)

Authors: Bhagwat Pradyumna, Goulart F. Mach

[Reliability Options: Can They Deliver on Their Promises?](#)

Authors: Bhagwat Pradyumna, Meeus Leonardo



[PhD Thesis | Distribution network tariff design and active consumers: a regulatory impact analysis](#)

Author: Schittekatte Tim

[Foreword | in Sioshansi F. \(ed.\), Consumer, Prosumer, Prosumager. How service innovations will disrupt utility business model, Academic Press – Elsevier, London, pp. xxvii-xxxiv](#)

Author: Glachant Jean-Michel

[Book Review in EEEP, Volume 8, No. 1, March 2019 | The Economics of Renewable Energy](#)

Author: Mario Ragwitz

[Book Review in EEEP, Volume 8, No. 1, March 2019 | Electricity Network Regulation in the EU. The Challenges ahead for Transmission and Distribution](#)

Author: Jorge Vasconcelos



[Economia and Management | TAP, una priorità per l'Europa. E per l'Italia?, SDA Bocconi, No. 4, 2019](#)

Author: Conti Ilaria

[RiEnergia | Gas rinnovabili: cosa sono e perché saranno fondamentali nella transizione energetica English version: Renewable gas – a new hope of energy transition?](#)

Author: Olczak Maria

[WysokieNapiecie.pl | Bruksela szykuje nowy pakiet gazowy. Będzie istotny dla Polski](#)

Author: Olczak Maria



[REMAP | The Clean Energy Package: Compromise on Provisions for Capacity Remuneration Mechanisms \(September 2019\)](#)

Insight Report No. 5 (2019), Fridtjof Nansen Institute and Thema Consulting Group

Authors: Hancher Leigh, Eikeland Per Ove, Tennbakk Berit

[EURACTIV | Exploring the Limits of EU's Unbelievable Behaviour on Nord Stream II \(June 2019\)](#)

First published on 29.5.2019

Authors: Talus Kim, Hancher Leigh



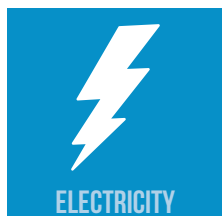
[RiEnergia | Il nesso acqua-energia: fondamentale per il clima](#)

Author: Alloisio Isabella

04

ONLINE ACTIVITIES

ONLINE ACTIVITIES DEBATES & WEBINARS



[Looking for flexibility in the electricity sector: insights from two EU-funded projects | Online Debate](#)

12/04/2019

The growing penetration of renewable energy sources in the European generation mix is changing the context upon which power markets and system operation were established and operated in the 1990s. This transformation requires that new sources of flexibility are incentivised and optimised; therefore, the market architecture that emerged in Europe 30 years ago may not be the most suitable to do the job anymore.

This online debate addressed how flexibility can be promoted and rewarded efficiently and effectively in an electricity system that features a growing share of renewables.

[Imperfect Markets and Imperfect Regulation | Online event](#)

19/09/2019

The power industry is essential in the fight against climate change. In this online talk, we will look at the microeconomics underlying power markets and the tensions between microeconomics and political economy, together with Thomas-Olivier Léautier (Toulouse School of Economics).



[Convergence between digitalisation and decentralisation | Online Debate](#)

09/04/2019

Starting from IRENA's report on innovation: "Innovation Landscape for a Renewable-Powered Future: Solutions to integrate variable renewables", speakers and audience of this online debate engaged in a collaborative conversation focusing on the role of distributed ledger technologies in achieving network convergence.

ONLINE ACTIVITIES DEBATES & WEBINARS



[Energy Regulation in Times of Disruptive Innovation | Online Debate](#)

04/03/2019

Innovation is not only affecting the technological side but also the economics of the electricity industry, the business models and potentially the whole organization of the sector.

Higher (pro-active) participation of consumers and decreasing scale economies (in generation or/and storage) will change the role of network and traditional organization of the sector (centralized with flows from generation to consumers). To benefit from the opportunities of the transformation it is imperative to adapt regulations and policy accordingly. The first online debate leading up to the FSR Global Forum discussed the topic of energy regulation in times of disruptive innovation.

[Sustainable Consumption in the World Energy Transition | Online Debate](#)

18/03/2019

The European Parliament and the Council are discussing the European Commission's proposals presented in November 2016 on the energy and climate targets for the next decade. This online debate discussed three of the most contentious issues: RES target level for 2030 – how ambitious shall Europe be? Integration of RES into the electricity market – is priority dispatch still needed? Is the current market design providing fair treatment to RES? Cross-border participation in support schemes – do Member States think beyond narrow national interests when promoting the deployment of RES? These and other questions were addressed by a high-level panel made up of academics, representatives of the institutions and professional practitioners including Nicolò Rossetto, (Research Associate, FSR), Mario Ragwitz (Professor, Fraunhofer ISI), Alberto Pototschnig, (Director, ACER) and Dirk Hendricks (Senior Policy Advisor, EREF).

[Decrypting Sustainable Finance | Online Seminar](#)

02/04/2019

After introducing the sustainability challenges, the seminar showed how investors and bankers can steer funding to sustainable companies and projects without sacrificing return and thus speeding up the transition to a sustainable economy. The seminar also analysed the Sustainable Development Goals as a strategy for a better world and provided evidence that environmental, social, and governance factors matter, describing in detail how to incorporate these factors in the corporate and financial sectors.



[The GB Capacity Market Standstill: What is Happening and Why? | Online Debate](#)

17/04/2019

This webinar debated the reasoning of the GC, assessing the repercussions of the judgment and the current state of the market, and considered the next steps for the EC and the GB power market.

ONLINE ACTIVITIES DEBATES & WEBINARS



[EU Common Rules for Gas Import Pipelines – the Amendment to the Gas Directive | Webinar](#)

28/02/2019

In this webinar, Professor Kim Talus reviewed the latest developments on the Commission's proposed amendment to the 2009 Gas Directive, which extended the Third Energy Package to include gas import pipelines, following the agreement of 12 February 2019, reached at the conclusion of the trilogues.

[Is gas infrastructure ready for sector coupling? | Online debate](#)

24/09/2019

The online debate will tackle regulatory and technical challenges related to the gas infrastructure, which are expected to arise with the increase in the use of renewable and decarbonised gases in Europe.

[European gas challenges through the developments in the Baltics | Online debate](#)

03/10/2019

The Baltic region is making significant progress in developing a functioning regional natural gas market, expanding and integrating the related infrastructure, and ensuring the security of supply.

[A common terminology for gases | Online debate](#)

11/09/2019

Sector coupling is meant to accelerate the decarbonisation of the EU energy sector and gas sector will be playing a key role in the process. However, recent discussions, studies and existing pilot projects led us from a rather uniform world of one commodity (natural gas) to the uncharted territory of the heterogeneous low-carbon and decarbonised gases. Biogas, biomethane, green, blue and grey hydrogen, synthetic methane could be produced through different processes and from different substrates, which rises the questions on their environmental and climate impact.

[Carbon Pricing in Europe: The Economic Framework for Compensation | Webinar](#)

17/09/2019

Under the 2030 Climate and Energy Framework, the European Union has committed to EU-wide targets for the period 2021-2030 in the context of a long-term strategy to achieve a climate-neutral economy by 2050. Among these targets is a 40% cut in greenhouse gas emissions. The EU emissions trading system (EU ETS) is the cornerstone of the EU's policy to combat climate change. It is the world's first major carbon market and remains its largest. To safeguard the competitiveness of industries covered by the EU ETS, the European Commission has developed a framework to provide compensation for the sectors and sub-sectors deemed to be exposed to a risk of carbon leakage

ONLINE ACTIVITIES DEBATES & WEBINARS



[Providing Energy Access in 2019 and the Road Ahead | Online Debate](#)

11/03/2019

Universal access to clean and modern energy is one of the top energy challenges of our time. Significant progress has been achieved in the past years. However, based on the current trajectory, the IEA estimates that around 674 million inhabitants will continue to lack access to electricity in 2030. It is therefore imperative to 'think big', involve all the relevant stakeholders and remove barriers to massive electrification business models. The 2nd online debate leading up to the FSR Global Forum discussed the main barriers to massive electrification business models and how to remove them.

[Sustainable Consumption in the World Energy Transition | Online Debate](#)

18/03/2019

The accomplishment of the world energy transition for a low-carbon economy imposes challenges on public authorities, but also civil society and consumers. Besides the universal access to clean and affordable energy, consumers and industrial customers are means to the energy transition when they respond and engage in consumption patterns to consume less and better energy, self-generate, or become prosumers. These goals are at the core of the United Nation SDG #12, which trickle the issue of Sustainable Consumption.



[Highlights from Katowice – COP24 | Online Seminar](#)

12/02/2019

The Paris Agreement undoubtedly represents a milestone in the fight against climate change. It sets the framework for the long-term global common action against climate change by all nations. The coming period will tell whether its goals, structure and rules are sufficient to keep the global temperature rise well below 1,5C as required by the IPCC. COP24 in Katowice defined several details of the Paris Agreement operational rules, including on NDCs, transparency, global stocktake and compliance. This seminar addressed some of the highlights of COP24, including what is left for the next COPs, in consideration of the urgent need to increase ambition and strengthen countries' commitments.

[Three Priorities for EU Climate Action in the Coming Five Years | Online Debate](#)

3/05/2019

What should the top priorities for European Climate Policy be within the changing political landscape (European Parliament elections, renewal of both the European Commission's President and the European Council's full-time President, Brexit...)? What are the issues to be tackled next by the incoming EU leaders, and how might the UK retain its leadership role for climate action from outside the European Union?

In this online debate Baroness Worthington and Professor Delbeke, two senior policy-makers and academics with many years of experience in designing climate policies shared their "wish list" of the three top priorities for the EU's Climate action for the next 5 years.

ONLINE ACTIVITIES VIDEOS



Online debate recording | [Is gas infrastructure ready for sector coupling](#)

FSR Online Talks recording | [Imperfect Markets and Imperfect Regulation](#)

Intreview: Tomas Gomez Roman | [Unlocking flexibility at the distribution level: local markets and other options](#)

Online debate recording | [Imperfect Markets and Imperfect Regulation](#)

Ana Aguado scholarship | [An interview with the two winners of the 2019 edition](#)

Topic of the month: Nicolò Rossetto | [New business models in a changing power industry](#)

Online debate recording | [Looking for flexibility in the electricity sector: insights from two EU-funded projects](#)

Online debate recording | [Convergence between digitalisation and decentralisation](#)

Electricity Network Regulation in the EU | [Book Launch](#)



Interview: Christopher Jones & Alberto Pototschnig | [Changing Electricity and Gas Market Design: the view of ACER](#)

Interview: Christopher Jones & Florian Ermacora | [Energy Priorities for the next EU Energy Commissioner](#)

Interview: Andris Piebalgs & Peter Kaderják | [Energy priorities for European Commission: the Hungarian perspective](#)

Interview: Andris Piebalgs & Paula Abreau Marques | [Renewable energy: moving from the 20% to the 32% target](#)

Interview: Jean-Michel Glachant & Georg Zachmann | [How to design a strong climate policy that remains fair - recommendations to the new Commission](#)

Topic of the Month with Valerie Reif | [The Clean Energy Package and the future of network codes](#)

Interview: Jean-Michel Glachant & Hervé Laffaye | [Shaping the EU framework towards 2030 and beyond](#)

Interview: Jean-Michel Glachant & Francesco la Camera | [The Role of a School in the new Energy Landscape](#)

Interview: Jean-Michel Glachant & Michelle Hallack | [Energy Regulation in Latin America: differences and similarities \(at #ELAAEE19\)](#)

Interview: Miguel Vazquez & Alberto Pototschnig | [Innovation in the energy sector: a regulatory perspective](#)

Insights from Annegret Grobel | [Regulatory Challenges of Distribution Networks with DERs](#)

ONLINE ACTIVITIES VIDEOS



Online Course Promo | [Regulatory Delivery](#)

Online debate recording | [Energy Regulation in Times of Disruptive Innovation](#)

Online Course Promo FSR & ENTSO-e | [The European Energy Transition: Actors, Factors, Sectors](#)

Livestreaming session FSR & School of Transnational Governance | [Changing Models, Changing Roles](#)

Livestreaming session FSR & School of Transnational Governance | [Proposal: a new partnership for a new Energy Governance](#)

Livestreaming session FSR & School of Transnational Governance | [Governance of the local energy related connectedness](#)

Livestreaming session FSR & School of Transnational Governance | [Energy Governance - New EU Regulation, existing city solutions](#)

Thomas-Olivier Léautier | [New book “Imperfect Markets and Imperfect Regulation”](#)

Interview: Ilaria Conti & Klaus-Dieter Borchardt | [New role at the EU Commission, old and new challenges ahead](#)

Interview: Leonardo Meeus & Klaus-Dieter Borchardt | [Approval of the EU Clean Energy Package](#)



Online webinar recording | [The GB Capacity Market Standstill: What is Happening and Why?](#)

Online webinar recording | [EU Common Rules for Gas Import Pipelines – the Amendment to the Gas Directive](#)

ONLINE ACTIVITIES VIDEOS



Online Debate recording: [European gas challenges through the developments in Baltics](#)

Webinar recording | [Carbon pricing in Europe - The Economic Framework for Compensation](#)

Interview: Maria Olczak & Marie Pierre Fauconnier | [The New Gas Package: the DSO's perspective](#)

Online debate recording | [A common terminology for gases](#)

Interview: Ilaria Conti & Michael Schmöltzer | [Storage in the energy transition: which concerns, which perspectives?](#)

Interview: Andris Piebalgs & Michael Bradshaw | [The Geopolitics of Energy Transformation: what role for G20](#)

Interview: Andris Piebalgs & Daniel J. Scholten | [The Geopolitics of Energy Transformation: the European perspective](#)

Topic of the month: Andris Piebalgs | [Addressing Methane Emissions: challenges and opportunities](#)

Interview: Ilaria Conti & Klaus-Dieter Borchardt | [From the latest Madrid Forum to the next Gas Package](#)



Testimonial video | [FSR welcomes Open Africa Power initiative participants](#)

Interview: Swetha RaviKumar Bhagwat & Anthony Monganeli Mehlwana | [The role of capacity building for Agenda 2063 and SDG7 in Africa](#)

Interview: Pradyumna Bhagwat & Anand Kumar | [Current regulatory challenges and experiences in Gujarat, India](#)

Interview: Lucila de Almeida & Anthony Monganeli Mehlwana | [Regulatory Delivery in the African States](#)

Interview: Samson Hadush & Mohammed Shamshakir Mukoon | [Energy transition and network resilience in Mauritius](#)

Interview: Jean-Michel Glachant & Megan Richards | [Role of the EU in the global energy transition](#)

Interview: Ignacio Perez-Arriaga & Anthon Eberhard | [Next steps in the energy transition in Sub-Saharan Africa](#)

Insights from the FSR Global Forum from Abhishek Jain | [Making rural energy access a reality](#)

Online debate recording | [Providing Energy Access in 2019 and the Road Ahead](#)

Global Forum | [Wrap up video](#)

ONLINE ACTIVITIES VIDEOS



Interview: Nicolò Rossetto & Marc van Stiphout | [Exploring Digital Marketplaces for Energy](#)



Online debate recording | [Three Priorities for EU Climate Action in the Coming Five Years](#)

Jos Delbeke: Online Course Promo | [Climate Governance – Sharing the European Experience](#)

Workshop overview | [Third Carbon Market Workshop](#)

Executive Training Seminar | [Global Quest for Investment Finance for the Low Carbon Economy](#)

Interview: Simone Borghesi & Benito Müller | [Outcomes of the Katowice - COP24](#)

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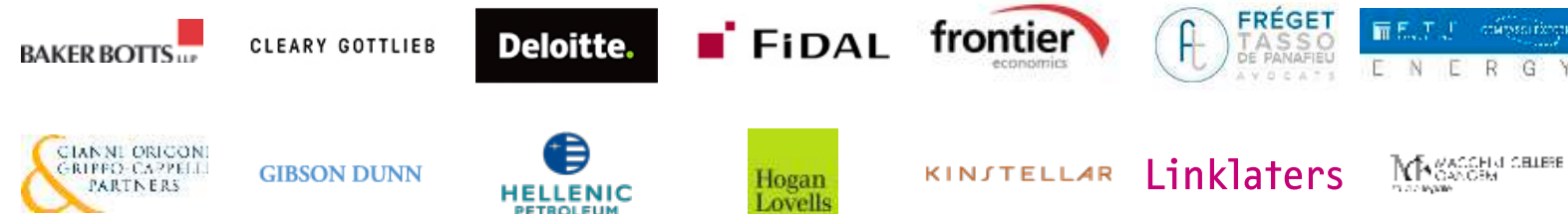
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