

ANNUAL REPORT 2023

Florence School of Regulation



The mission of the Florence School of Regulation is to develop and spread ideas that can improve policy and regulation. 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.

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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.



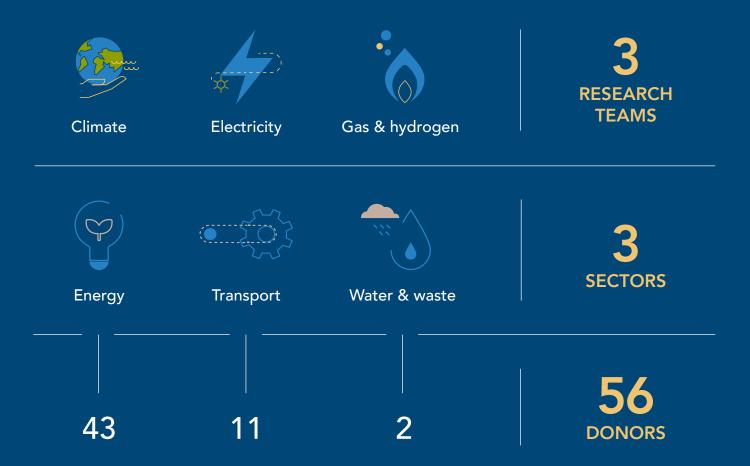
ISS RUMBERS

The school



The FSR is a unique combination of a university research group, a think tank and an executive education institute, working to improve policy and regulation in Europe and worldwide.

We are a global community of professionals coming from top universities, policy-making and regulatory institutions in 12 different countries, sharing the goal of bridging the gap between academia and practice through an interdisciplinary approach.



Executive education

Our executive education portfolio is continuously improved ensuring it is up to date with the latest policy and regulatory developments for climate, energy, transport, water and waste.

Our courses are divided into three levels: highlights, fundamentals and specialised; and two categories: class and community. We also offer tailor-made training courses designed to meet the specific needs and requirements of the requesting organisation.



PARTICIPANTS' CURRENT EMPLOYMENT



1	Energy companies 2% DSO (Distribution System Operator) 13% TSO (Transmission System Operator)	282
2	Academia	109
3	Regulatory authority	100
4	EU institutions/body/agency	91
5	Development organisation	65
6	Governmental organisation	56
7	Other	90

PARTICIPANTS' GENDER BALANCE



PARTICIPANTS' BACKGROUND

Engineering	380			40.5%
Economics	192		20.5%	
Law	164		17.5%	
Political science	127		13.5%	
Other	75	8%	6	

YEARS OF EXPERIENCE

42%	36%	22%
395	336	205
more than 5 years	2-5 years	1 year or less

Events

Our events bring together experts from across the world to deliver high-level workshops and conferences on the main trends in the fields of energy, climate, transport, water and waste, and are a great way of collecting input to push our research agenda forward.

The FSR online series (FSR Insights, FSR Talks and FSR Debates) are a weekly appointment for our global audience. They are freely accessible upon registration or via livestream on our social media channels.

70TOTAL EVENTS

5264
TOTAL PARTICIPANTS



PARTICIPANTS

1426



ONLINE EVENTS

PARTICIPANTS

3721



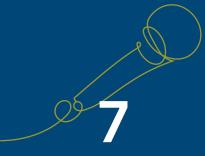
FSR debates

PARTICIPANTS 2008



FSR insights

PARTICIPANTS 659



FSR talks

PARTICIPANTS 525

Research

Our applied research speaks to the needs of policy makers and practitioners, and much of the knowledge is coproduced through our training courses and policy events.



TOP PUBLICATION IN 2023

3053 views | 2577 downloads

'Reforming the EU internal electricity market in the middle of a huge energy crisis'

FSR Working Paper by Jean-Michel Glachant



PUBLICATIONS

1	Book	1
2	Book chapters	3
3	Journal Articles	20
4	Policy Briefs	14
5	Technical Reports	9
6	Policy Papers	4
7	Other	4



CLIMATE

Energy communities	climate policies	EU ETS
Carbon markets	СВАМ	Net zero



ELECTRICITY

Electricity market reform	Flexibility markets	Energy communities	
Incentive regulation	Long term contracts	Data sharing	



GAS

Energy security	Storage	Hydrogen
Decarbonization	Methane emissions	Supply chains



TRANSPORT

Intermodality	Transport investments	Sustainability
infrastructure management	European transport-related	Trans-european network

Dissemination activities

At the heart of the energy transition, we share ideas to support regulators, policymakers, and industries in addressing climate change and shaping a sustainable future for all.

The FSR's online team, composed of communications, web and multimedia specialists, contributed to mainstreaming our research outcomes by designing and producing new formats and engaging content tailored to our audiences.



BLOG POSTS

48



PODCASTS

18



EVENT RECORDINGS

37



VIDEOS

27



NEWSLETTERS

42

600,000

WEBSITE VIEWS

19,000

NEWSLETTER SUBSCRIBERS

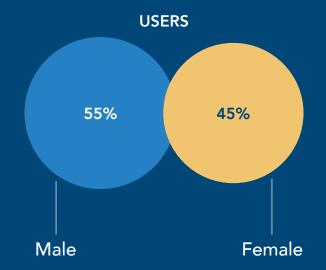


Trending topics

EU electricity markets

EU Electricity market reform

REPowerEU



Lights on women





WEBSITE

24,139 page views

3,300 unique users

It's such a great time to be in the energy sector! There's such a huge opportunity to step into the challenge of addressing climate change and how we can navigate our way forward. I see that the opportunity for women comes in multiple different ways. There's the trying to advance women participation in those areas of the sector that are more traditionally dominated by men – engineering and electricians. We also need this really broad variety of skills: understanding how to work with households or small business and create new services. Third area of opportunity is the complex problem solving and the way in which having diverse groups of people tackling problems is more likely to get a good outcome.

Anna Collyer, Chair of the Australian Energy Market Commission on her advice to young women aspiring to pursue a career in the energy sector.

LUCE AWARDS

The LUCE Awards, created to champion women's pivotal roles in the Green Transition, was held for the first time in 2023 and celebrated the achievements of two outstanding female professionals. The Legacy Women award was given to Clara Poletti, ARERA Commissioner and Chair of the Board of Regulators of ACER. Onlinye Anene-Nzelu, Head of Mini-Grids at Engie Energy Access in Nigeria, won in the Emerging Talent category.

DONORS AND PARTNERS

Lights on Women donors: Landwärme, Edison, GIE

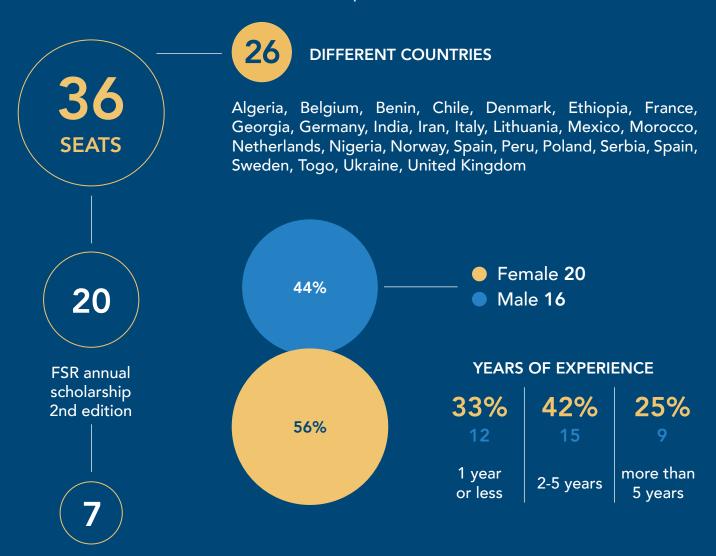
LUCE Awards donors: Landwärme, Edison

Partners: gEneSys, ICER (including Women in Energy), CEER, EC DG ENER Equality Platform

for the energy sector

Scholarships

Diversity, equity and inclusion are not just words. Our scholarships programme aims to make FSR courses more accessible for students and professionals worldwide.



CURRENT EMPLOYMENT

Academia	15			42%
Energy companies*	8		28%	
Development organisation	8		22%	
Regulatory authority	3	8%		

Ana Aguado

7th edition

Lights on women

5th edition

^{*}of which 6% are from TSO (Transmission System Operator)

Research projects

The FSR's current ongoing research initiatives include large-scale European research and innovation consortium projects, service contracts and private/ad-hoc studies, many of which are co or fully funded by the EU.

Name of project	Partners	Countries	Years	Areas of research
CAPABLE	10	11	3	climate policies
EDDIE	15	8	3	energy consumers data sharing, digitalisation
Energy Communities Repository	5	4	2	energy consumers data sharing, digitalisation
INC	13	3	6	network codes, efficiency of electricity trade
InnWater	12	7	3	governance, economics, environment
Int:net	13	6	3	energy consumers data sharing law and regulation
LIFE COASE	-	1	3	emissions trading schemes, climate
OneNet	72	15	4	energy consumers data sharing law and regulation
POWEREG	3	2	4	decentralized electricity system, grid management
Promoting Innovative TSO Solutions	1	2	1	incentive regulation, TSOs, electricity networks
SEAO2-CDR	14	7	4	climate mitigation, climate policy, governance frameworks
SPES	11	10	3	sustainable human development
LNGnet	3	4	3	LNG, gas market, security of supply
WAREG	-	1	1	energy neutrality targets, wastewater

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 on climate, energy, transport, and water and waste. We believe that this can only be achieved by combining the academic rigour of a research group with the engagement and impact of a think tank. We engage with practice via applied research, policy dialogues, and executive education. We are also fortunate to have colleagues with exceptional

track records as civil servants in regulatory agencies and European Institutions among our faculty.

2023 was the moment of truth for the EU Green Deal in the run up to the EU elections in the summer of 2024. We provided input to many of the legislative files that have been adopted, and we also started to think about what priorities the next European Commission could work on. One example is our policy



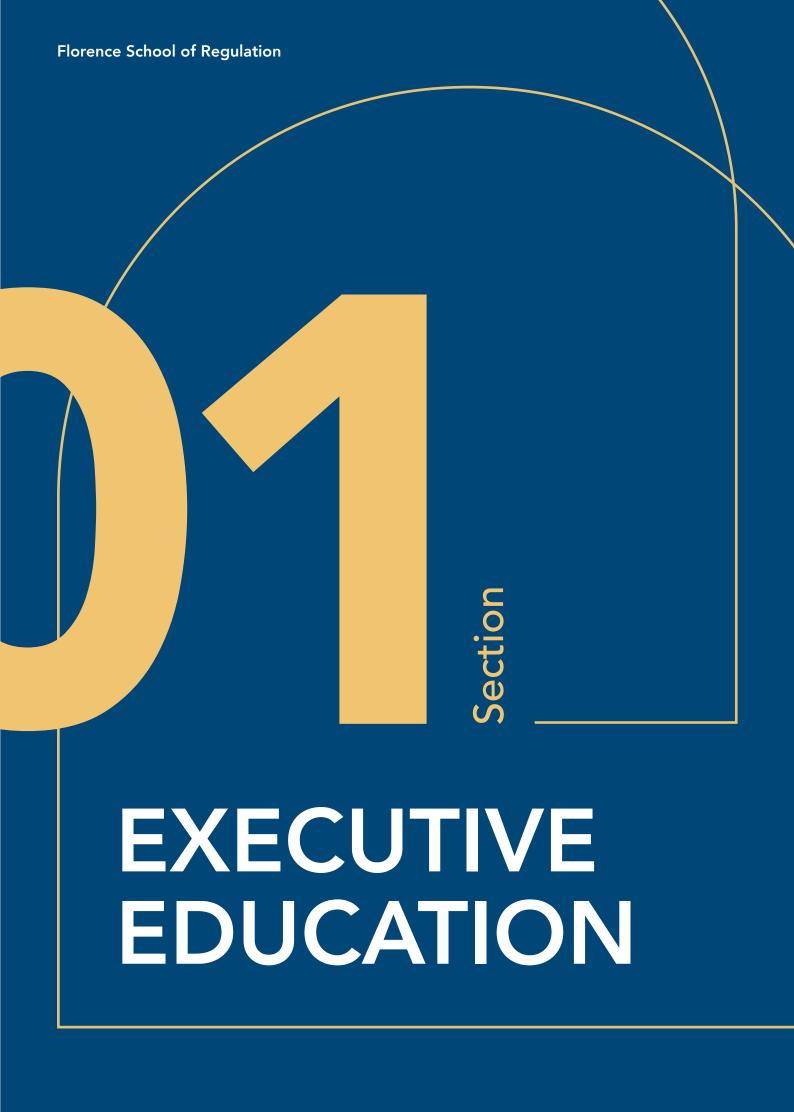
brief "Energy Policy Ideas for the Next Commission: From Targets to Investments", which has been a collective effort by the experts in our school. We also established an advisory board with representatives from EU institutions and the regulatory community. We are honoured that several senior officials from DG Energy, DG Climate, DG Reform, as well as high-level representatives of ACER are already members of the board.

We also renewed our commitment to remain active beyond Europe. More than half of the countries in the world were represented in our executive education courses. We also have two sister schools that are becoming independent entities. The African School of Regulation is preparing to move from Florence to Accra in Ghana in the next months. Our Indian office (still referred to as FSR Global) also evolved into a self-sustained and independently managed entity. We are proud of what they have achieved and will continue to collaborate. We also look forward to new international adventures.

We welcomed many researchers in Florence. New colleagues have been integrated in the team, we enjoyed interacting with our visitors, and we also organised two successful summer schools for researchers (i.e., the School on Economics and Policy of Trade and Climate Change and the Loyola Autumn Research School). The first PhD financed via the Loyola Chair also started last year. And we created our own research development framework to guide researchers from rigour to impact.

2023 marked also the first LUCE Awards, a very special initiative under our gender mainstreaming project Lights on Women. With the LUCE Awards, the FSR attributes a special recognition to two outstanding female professionals for their work. We believe in the importance of role models!

We consistently train more than a thousand professionals every year. We also continue to combine public (online) events with more than three thousand participants with exclusive invitation-only workshops for our donors. We piloted our first alumni day to allow the participants in our courses over the years to reunite and refresh their knowledge. This was a good warmup for this year when we will celebrate our school's 20th anniversary. We have initiated the FSR anniversary campaign, FSR 20more, dedicated to reflecting on the school's most significant milestones.



Executive education

Our courses are designed and continuously updated to meet the educational needs of professionals in the fields of energy, climate, water and transport. 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, policymaking, and industry.

We offer different types of training courses: Online (Class and Community), Residential, Blended (online & residential) 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.



TAILOR MADE TRAINING

Capacity building for regulators in Asia to support increased and sustainable power system connectivity – Tailor made training for UN-ESCAP

18-31 January 2023 | Online Training

Tailormade Training for umlaut "Market Coupling in the EU Internal Electricity Market"

30 January 2023 | Online Training

LNG Market Structure, Organisation and Arrangements

4-9 February 2023 | Residential training, Bali, Indonesia

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

27 March 2023 & 16 October 2023 | Residential Training

Tailormade Training for JAO "Flow-based capacity calculation and allocation"

12-18 April 2023 | Online Training

Gas Market Design, Structure and Regulation

23-25 May 2023 | Residential Training, Cape Town, South Africa

Tailor Made Training for TAQA on electricity markets

10-26 October 2023

Decarbonisation, Gases and Lng for Energy Experts From East Asia

17-29 October 2023 | Residential Training, New Delhi, India

Tailormade Training for UN ESCAP "Capacity building course for energy regulators in the Central Asia region"

7 November 2023 | Residential Training, Uzbekistan

Gas Market Design, Structure and Regulation

12-14 December 2023 | Residential Training, Ho Chi Min, Vietnam

COMMUNITY COURSES

EU Gas Network Codes

8 February - 30 March 2023 | Online

The Regulation of the Power Sector

21 March - 13 July 2023 | Online

The EU Green Deal

18 April - 4 July 2023 | Online

Regulation for Sustainable Development Goal 7

9 May - 30 October 2023 | Online

Evolution of Electricity Markets in Europe

19 September – 16 November 2023 | Online

CLASS COURSES

Annual Training on the Regulation of Energy Utilities

3 October 2022 – 24 May 2023, 6-7 July 2023 | Online Training & Residential event

Executive Course to Master Electricity Markets

9 May - 12 June 2023 | Blended training

Clean Molecules for the Energy Transition

12 June - 30 June 2023 | Online training

Summer School on Regulation of Energy Utilities

3-7 July 2023 | Residential training

Summer School on Transport Regulation

10-14 July 2023 | Residential training

Master, PhD and Post-doctoral School on Economics and policy of trade and climate change

2-5 October 2023 | Residential training

Loyola Autumn Research School (LARS)

4-6 October 2023 | Residential Training

Regulation and Integration of Renewable Energy

11-13 October 2023 | Residential Training

Specialised Training on the Regulation of Gas Markets

30 October – 26 November 2023 | Online training

REMIT and its implementation

28-29 November 2023 | Residential training, Bruges, Belgium



Events

The Florence School of Regulation continued delivering meaningful and innovative insights into the most topical issues revolving around climate, energy, transport, water and waste, tackling regulation and policy through a multidisciplinary approach.



EVENTS

The EU reviews its Electricity Market Design: What changes for what purposes?

19 January 2023 | Conference | Residential, Brussels

The long-term component of a future-proof electricity market design 20 January 2023 | Conference | Hybrid, Florence

11th Florence Intermodal Forum | Aviation and Multimodal Digital Mobility Services in the EU

11 February 2023 | Forum | Residential, Florence

Performance Review Commission: In Search of Flagships for Air Traffic Management Transformation

22 February 2023 | Workshop | Residential, Brussels

Regulatory Sandboxes for the Energy Transition

17 March 2023 | Workshop | Hybrid, Florence

LNGnet Annual Workshop

22-24 March 2023 | Workshop | Hybrid, Hamburg

19th Florence Air Forum | Financing Air Traffic Management: is there a need for a new approach?

27-28 March 2023 | Forum | Residential, Florence

Customer engagement in flexibility markets: a Portuguese perspective

2 May 2023 | Workshop | Online

EUI Climate Week - Carbon leakage, border measures and carbon clubs

3 May | Workshop | Florence

Luce Awards

16 May 2023 | Event | Hybrid, Florence

Workshop on Ex-Ante Assessments of Emissions Trading

5 June 2023 | Workshop | Residential, Florence

Policy Advisory Council

14 June 2023 | Workshop | Residential, Florence

Energy Policy priorities for the next Commission and the implications for the FSR activities

15 June 2023 | Workshop | Residential, Florence

02. SectionEvents

Open Day

15 June 2023 | Event | Residential, Florence

Energy infrastructure "fit for 55"

16 June 2023 | Workshop | Residential, Florence

Future Electricity Tariffs

21-22 June 2023 | Workshop | Residential, Florence

OneNet project general assembly

26-27 June 2023 | Conference | Hybrid, Florence

Barriers and enablers for the uptake of citizen and renewable energy communities - Energy Communities Repository

5 July | Workshop | Residential, Brussels

Climate, Energy, and Environmental Justices and Transitions: rethinking global environmental law

6 July 2023 | Conference | Online

International Conference on Ex-Post Evaluation of Emission Trading 20 June 2023 | Conference | Online

Breaking the Barrier: Exploring Obstacles to Customer Engagement in Flexibility Markets

9 May 2023 | Workshop| Online

Ask the Commission | Count Emissions

20 September 2023 | Event | Online

Net Zero Carbon Market Policy Dialogue 2023

21 September 2023 | Workshop | Residential, Florence

Technical workshop on ETS impact indicators

26 September 2023 | Event | Online

23rd Florence Rail Forum | New Rules for Better Rail Capacity Management?

29th September 2023 | Forum | Residential, Florence

From energy targets to investments: ideas for the next European Commission

20 October 2023 | Workshop | Residential, Florence

FSR Alumni Day

27 October 2023 | Event | Residential, Florence

02. SectionEvents

12th Florence Intermodal Forum | Transport Infrastructure Investments 27 October 2023 | Conference | Residential, Florence

Performance Review Commission | In search of flagships for ATM transformation. Continuing the journey

21 November 2023 | Workshop | Residential, Brussels

Webinar and Q&A: Legal frameworks, drivers and barriers for energy communities - Energy Communities Repository

23 November | Webinar | Online

Incentive regulation to promote efficiency and innovation: a consultation

24 November 2023 | Event | Online

FSR Climate Annual Conference 2023

27 and 28 November 2023 | Conference | Residential, Florence

The Evolving Voluntary Carbon Market: Reconciling the paradox between innovation and supervision

3 December 2023 | Workshop | Hybrid, Dubai (COP28)

Policy Advisory Council

4 and 5 December 2023 | Workshop | Residential, Florence

Towards a climate-neutral economy: the role of carbon pricing in moving the industry closer to net-zero by 2050

9 December | Event | Hybrid, Dubai (COP28)

From energy neutrality to climate neutrality in the sanitation sector: stakes, requirements and current practices at EU, national and local levels

6 December 2023 | Conference | Residential, Brussels

An Overview of Recent Energy Case Law from the CJEU

12 December 2023 | Event | Online

ONLINE SERIES

Courts, Regulators, and the Scrutiny of Economic Evidence 3 January 2023 | FSR Insights

Meeting Africa's Energy and Climate Goals

18 January 2023 | FSR Talks

02. SectionEvents25

Fit for 55 in approval phase: the new shape of the EU energy policy 25 January 2023 | FSR Debates

Electricity self-consumption for the energy transition

1 February 2023 | FSR Debates

Are contracts-for-differences here to stay?

8 February 2023 | FSR Insights

A deep dive on renewable hydrogen and industrial policy going into 2023: The US, EU, & beyond

22 February 2023 | FSR Debates

Between two crucial winters: the outlook for gas markets in Europe 8 March 2023 | FSR Debates

Financing the energy transition: an Indian perspective

15 March 2023 | FSR Talks

The Methane Alert and Response System: a new tool for addressing climate emergency

22 March 2023 | FSR Debates

Experience with emergency gas measures: price cap, storage and saving regulations

29 March 2023 | FSR Insights

EDRs: Electricity Distribution's Revolutions

19 April 2023 | FSR Talk

How to make the best use of EU's natural gas network in the energy transition

26 April 2023 | FSR Debates

The role and design of Contracts for Difference for a future-proof Electricity Market Design

4 May 2023 | FSR Debates

The role of climate change perceptions in climate adaptation 7 May 2023 | FSR Insights

EU electricity market design reform: check-in before boarding 17 May 2023 | FSR Talks

02. Section | Events

The Energy Market Design Proposal: risking re-regulating the Internal Market?

24 May 2023 | FSR Talks

Pipelines or ships, that is the EU hydrogen question

31 May 2023 | FSR Insights

The EU energy platform: an insurance against energy market challenges?

7 June 2023 | FSR Debates

EU doubles down on energy and climate

14 June 2023 | FSR Talks

Carbon Capture and Storage – capturing the momentum

21 June 2023 | FSR Debate

The revision of REMIT: making it future-proof

28 June 2023 | FSR Debates

The EU energy platform: an insurance against energy market challenges?

6 July 2023 | FSR Debates

Locational marginal prices for electricity in Europe? The untold story 13 September 2023 | FSR Insights

REDIII: from ambitious targets to necessary actions

20 September 2023 | FSR Debates

National policies coping with energy crisis and climate targets: the case of Italy

27 September 2023 | FSR Debates

Law in the EU's Circular Energy System: Biowaste, Biogas and biofuel

11 October 2023 | FSR Insights

Scaling hydrogen shipping while reducing emissions: what are the solutions?

18 October 2023 | FSR Debates

The new role of distribution system operators

25 October 2023 | FSR Debates

02. Section | Events

Electricity Transmission in the US energy transition: issues and lessons for Europe

8 November 2023 | FSR Talks

Critical Raw Materials, Industrial Policy, and the Energy Transition 15 November 2023 | FSR Debates

Implementing equality and inclusion in workplaces

29 November 2023 | FSR Debates

02. Section | Events 28



Research

The Florence School of Regulation continued delivering meaningful and innovative insights into the most topical issues revolving around climate, energy, transport, water and waste, tackling regulation and policy through a multidisciplinary approach.



BOOKS

Law in the EU's Circular Energy System

Biofuel, Biowaste and Biogas

De Almeida L.

Edward Elgar Publishing, ISBN (Print), 978 1 80220 586 2, Dec 2023, pp. 160-181

BOOK CHAPTERS

Carbon pricing and social acceptability: using EU ETS auction revenues for social expenditures in a changing world

Borghesi S., Ferrari A.

Christian GOLLIER and Dominic ROHNER (eds), Peace not pollution: how going green can tackle climate change and toxic politics, London: CEPR Press, 2023, pp. 41-48

Methane emission in a circular economy

Olczak M., Piebalgs A.

In Law in the EU"s Circular Energy System, Edward Elgar Publishing, ISBN (Print), 978 1 80220 586 2, Dec 2023, pp. 160-181

Renewable support schemes and Guarantees of Origin applied to renewable energy regulation

Pototschnig A., Conti I.

In Law in the EU"s Circular Energy System, Edward Elgar Publishing, ISBN (Print), 978 1 80220 586 2, Dec 2023, pp. 239-260

JOURNAL ARTICLES

The market stability reserve in the EU emissions trading system: a critical review

Borghesi S., Pahle M., Perino G., Quemin S., Willner M.

Annual Review of Resource Economics, 2023, Vol. 15, No. 1, pp. 131-152

Reforming the EU internal electricity market will not suffice to deliver EU aims

Glachant J.M.

Oxford Energy Forum, 2023, No. 136, pp. 43-45

Beyond individual active customers: citizens and renewable energy communities in the European Union

Rossetto N.

IEEE Power and Energy Magazine, 2023, Vol. 21, No. 4, pp. 36-44

The international dimension of the EU emissions trading system: bringing the pieces together

Verde S., Borghesi S.

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

Five shades of green: heterogeneous environmental attitudes in an evolutionary game model

Antoci A., Borghesi S., Galdi G.

Journal of Evolutionary Economics, 2023, Vol. 33, pp. 1345-1363

Can the EU ETS and Its Revenues Tackle the Impact of High Carbon Prices?

Borghesi, S., Ferrari, A.

CESifo, Munich, EconPol Forum, 24(6), 28-31.

A Bumpy Road to Solidarity: Existing and New Complexities Sesini M., Piebalgs A.

OGEL, ISSN 1875-418X, July 2023, www.ogel.org

The economics of demand-side flexibility in distribution grids Nouicer, A., Meeus L., Delarue E.

The Energy Journal, 44(1), 215-244.

From "Fit and Forget" to "Flex or Regret" in Distribution Grids: Dealing with Congestion in European Distribution Grids

Beckstedde E., Meeus L.

IEEE Power and Energy Magazine, vol. 21, no. 4, pp. 45-52, July-Aug. 2023

A bilevel model to study inc-dec games at the TSO-DSO interface Beckstedde E., Meeus L., Delarue E.

IEEE Transactions on Energy Markets, Policy and Regulation, vol 1., issue 4, Dec. 2023, pp. 430-440

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

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

Energy Policy, Vol. 173, 2023.

Signaling future or historical distribution grid costs via tariffs? A welfare analysis of long-run incremental cost pricing

Govaerts, N., Bruninx, K., Le Cadre, H., Meeus, L., Delarue, E.,

Utilities Policy, Vol. 82, 2023.

Regulatory sandboxes: Do they speed up innovation in energy?

Beckstedde, E., Correa Ramírez, M., Cossent, R., Vanschoenwinkel, J., Meeus, L.,

Energy Policy, Vol. 180, 2023.

An energy system model to study the impact of combining carbon pricing with direct support for renewable gases

Roach M., Meeus L.

Ecological Economics, Vol. 210, 107855

The decarbonisation of maritime transport: navigating between a global and EU approach

Piebalgs A., Olczak M.

OIES Energy Insight, 141

Energy transition and transatlantic relations: A new chapter

Piebalgs A.

Baltic Rim Economies, Issue 4

Towards an interoperability roadmap for the energy transition

V Reif, TI Strasser, J Jimeno, M Farre, O Genest

Elektrotechnik und Informationstechnik, 2023

Mobility data spaces

Lapenkova I., Finger M.

Network industries quarterly, 2023, Vol. 25, No. 2

Regulating digitalization in Türkiye

Dalgic, D. E., Finger, M.

Network industries quarterly, 2023, Vol. 25, No. 1

ATM financing

Finger M.

Network industries quarterly, Vol. 25, No. 3

POLICY BRIEFS AND POLICY PAPERS

Energy policy ideas for the next European Commission: from targets to investments

Meeus L., Conti I., E Almeida L., Glachant J.M., Hancher L., Münchmeyer M., Piebalgs A., Pototschnig A.

EUI, RSC, Policy Brief, 2023/12

Aviation and multimodal digital mobility services in the EU

Montero-Pascual J., Finger M., De Abreu Duarte F.M.

EUI, RSC, Policy Brief, 2023/11

Financing air traffic management: is there a need for a new approach?

Montero-Pascual J., Finger M., Montero Santos L.

EUI, RSC, Policy Brief, 2023/10

The net-zero industry act and the reform of the Green Deal State aid rules: A convincing reaction to the Inflation Reduction Act?

Jones C.

EUI, RSC, Policy Brief, 2023/08

Electricity market reform : what is (not) in the European Commission proposal

Meeus L.

EUI, RSC, Policy Brief, 2023/07

Performance review commission: in search of flagships for Air Traffic Management Transformation

Finger M., Serafimova T.

EUI, RSC, Policy Brief, 2023/06

Electricity and infrastructure managers: is there a need for regulation?

Finger M., Montero-Pascual J., Serafimova T.

EUI, RSC, Policy Brief, 2023/03

Creating a common European mobility data space

Montero-Pascual J., Finger M., De Abreu Duarte M.

EUI, RSC, Policy Brief, 2023/02

The EU can reduce global methane emissions by jointly purchasing gas

Piebalgs A., Olczak M.

EUI, RSC, Policy Brief, 2023/01

Le triple défi de la réforme du marché européen de l'électricité

Bureaua, D., Glachant J.M., Schubert K.

RSC, Policy Paper, 2023/73

The appeal procedure in the application of the EU energy law – experience from ACER's board of appeal 2016-2021

Ollier J.Y., Piebalgs A.

EUI, RSC, Policy Paper, 2023/06

Are pipelines and ships an 'either or' decision for Europe's hydrogen economy?: planning import lines for hydrogen and derivatives

Kneebone J.T., Piebalgs A.

EUI, RSC, Policy Paper, 2023/03, Florence School of Regulation

Unlocking and supporting renewable gas in Europe: Policy insights from a comparative analysis

Sesini M., Creti A., Massol O.

Chaire Économie du Climat, 2023 - 07, April 2023

The future regulatory framework applicable to carbon capture and storage infrastructure - issues for discussion

Jones C.

EUI, RSC, Policy Brief, 2023/23

Comparison of Ex-Ante Modelling Assessments of Emissions Trading - 2023

Osorio S., Raude M., Ferrari A., Heinrich L., Borghesi S.

EUI, RSC, Project Policy Brief – LIFE COASE

State-of-play in international carbon markets in 2023

Doda. B., Wildgrube. T., Raude M., Ferrari A., Heinrich L., Borghesi S.

EUI, RSC, Project Policy Brief - LIFE COASE

Ex-Post Evaluation of Emissions Trading in 2023: Focus on Distributional and Competitiveness Effects

Ekins P., Raude M., Ferrari A., Heinrich L., Borghesi S.

EUI, RSC, Project Policy Brief – LIFE COASE

New rules for better rail capacity management

Montero-Pascual J., Finger M., Enrich N. G.

EUI, RSC, Policy Brief, 2023/16

TECHNICAL REPORTS

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Au-delà de la crise : repenser le marché électrique européen Glachant, J.M.

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A Green Deal for water and sanitation utilities to rejuvenate the service delivery and financing model

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INTERREACE D9.14: report on the foundations for the adoption of new Network Codes 2

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D11.5 Customer engagement strategies recommendations

Stampatori, D., Rossetto, N., Willeghems G., Kessels K., Lacerda M., Corceiro B., Galeano J. A., Jakovljevic D., Ritzek J., Pappa S., Janssen R., Zoulias E.

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D3.4 Regulatory and Demo Assessment of proposed integrated markets

Reif V., Valarezo O., San Roman T. G., Chaves-Ávila J. P., Lacerda M., Corceiro B., Gandhi S., Willeghems G., Sanjab A.

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D3.3 Recommendations for Consumer-Centric Products and Efficient Market Design

Sanjab A., Marques L., Ananduta W., Gerard H., Bindu S., Troncia M., Chaves-Ávila J.P., Rossetto N., Reif Valerie, Stampatori D., Lacerda M.

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Impacts and evolution of emissions trading systems: insights from research and regulation -

Report from the Net Zero Carbon Market Policy Dialogue 2023

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OTHER

The "winds of change": the SPES framework on sustainable human development

Biggeri M., Cammeo J., Ferrannini A., Francescutto A, Lodi L.

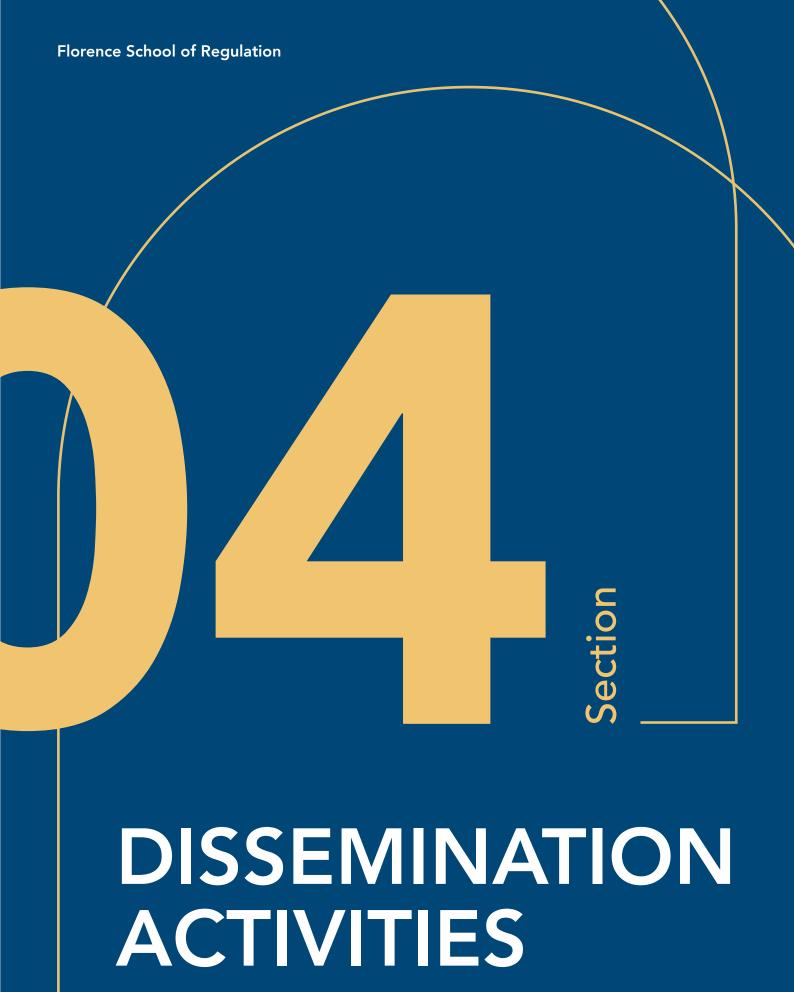
Gas supply: how has the concept of solidarity evolved in the EU? Sesini M.

03. Section | Research

Hydrogen funding flows in the European Union 2023 **Kneebone J.**

A summary of the proposal for a reform of the EU electricity market Meeus L. and Nicolai S.

03. Section | Research 38



Dissemination activities

At the heart of the energy transition, we share ideas to support regulators, policymakers, and industries in addressing climate change and shaping a sustainable future for all.

The FSR's online team, composed of communications, web, multimedia, and training officers, contributed to mainstreaming our research outcomes by designing and producing new formats and engaging content tailored to our audiences.



Videos

PROMOTIONAL VIDEO

FSR Annual Scholarships

FSR Online Series Season 4

Alberto Pototschnig - Portrait Alumni day

Ignacio Pérez Arriaga - Portrait Alumni day

Join the FSR Alumni day in Florence!

Regulation and integration of renewable energy

Loyola Autumn Research School (LARS)

Open Africa Power in Florence

Clean Molecules for the Energy Transition

EU Green Deal online course

Executive course to master Electricity Markets

Best wishes and more! See you in 2024 | #FSR20more

EVENTS RECORDING

(Online, Residential, Hybrid) Third GRIFOn Workshop

Critical Raw Materials, Industrial Policy, and the Energy Transition

Electricity Transmission in the US energy transition: issues and lessons for Europe

The new role of distribution system operators

Scaling hydrogen shipping while reducing emissions: what are the solutions?

Law in the EU's Circular Energy System: Biowaste, Biogas and biofuel

National policies coping with energy crisis and climate targets: the case of Italy

REDIII: from ambitious targets to necessary actions

Locational Marginal Prices (LMPs) for Electricity in Europe? The Untold Story

The role of climate change perceptions in climate adaptation

An Overview of Recent Energy Case Law from the CJEU

The revision of REMIT: making it future-proof

Carbon Capture and Storage – capturing the momentum

EU doubles down on energy and climate

The EU energy platform: an insurance against energy market challenges?

Pipelines or ships, that is the EU hydrogen question

The Energy Market Design Proposal: risking re-regulating the Internal Market?

EU electricity market design reform: check-in before boarding

LUCE Awards

Breaking the Barrier: Exploring Obstacles to Customer Engagement in Flexibility Markets

Customer engagement in flexibility markets: a Portuguese perspective

How to make the best use of EU's natural gas network in the energy transition

EDRs: Electricity Distribution's Revolutions

The role and design of Contracts for Difference for a future-proof Electricity Market Design

Experience with emergency gas measures: price cap, storage and saving regulations

The Methane Alert and Response System: a new tool for addressing climate emergency

Financing the energy transition

Between two crucial winters: the outlook for gas markets in Europe

Courts, Regulators, and the Scrutiny of Economic Evidence

A deep dive on renewable hydrogen and industrial policy going into 2023: The US, EU, & beyond

Are Contracts-for-Differences here to stay?

Electricity self-consumption for the energy transition

#FSRDebate | Fit for 55 in approval phase: the new shape of the EU energy policy

FSR Talk: Meeting Africa's Energy and Climate Goals

An Overview of Recent Energy Case Law from the CJEU

Critical Raw Materials, Industrial Policy, and the Energy Transition

Implementing Equality and Inclusion in Workplaces: Benefits and Limits of Gender Policies

INTERVIEWS

The W Factor - Episode 2 with Anna Collyer

The first FSR Alumni Day

Highlights from the Net Zero Carbon Market Policy Dialogue 2023

School on Economics and policy of trade and climate change 2023 at EUI - Participants

School on Economics and policy of trade and climate change 2023 at EUI - Instructors

Meet the LUCE Awards winners

The W factor - Episode 1 with Ditte Juul Jørgensen (Director-General of DG ENER)

FSR 20th Anniversary | Pippo Ranci | #FSR20more

FSR 20th Anniversary | Leigh Hancher | #FSR20more

COP28 Simone Borghesi takeaways

Advance Artificial Intelligence into modelling | Marzia Sesini

VIDEO LECTURES

Energy System Integration | Golnoush Soroush

Video lecture | Electricity markets in EU

OTHER TYPES OF VIDEOS

OneNet Open call | Alexis Kyriacou: Wisewire

OneNet Open call | Miguel Carvalho: Watt is

FSR presentation for donors

FSR meets IEA | Erasmus Plus Reel

OneNet Open call | Omar Aynur: RUNADMTS by Presify Analytic Software Inc.

OneNet Open call | Maria Atanasova: GEOGRID by Software Company

Donors Bulletin June 16th 2023

LIFE COASE - Project presentation

Daniele Stampatori - Florence School of Regulation

Ferdinando Bosco - Engineering - Work Package 5

Ewelina Makuła - PSE - Polish Demo

PODCASTS

Radio COASE Ep 4 | State-of-play of the UK Emissions Trading Scheme with Hannah Lewis and Sam Reed

Europe's Energy Solidarity Regulatory Odyssey: A Candid Chat with Marzia Sesini and Andris Piebalgs

Radio COASE Ep 3 | Clean technology investments and the EU ETS with Suzana Carp

Radio COASE Ep 2 | The social implications of carbon pricing with Prof. Ottmar Edenhofer

OneNet series: Reference IT Implementation for OneNet (WP6)

Radio COASE Ep1 | Overview Of ETS Trends In 2023 with Stefano De Clara

Climate ambition & the energy crisis: the EU ETS at a crossroads | Milan Elkerbout (CEPS)

An engineers take on European hydrogen policy: Ronnie Belmans

Decline of Russia's gas empire

Europe and the challenges of a just energy transition I Carlos Batlle

OneNet series: Flexibility markets and the power of the algorithm

OneNet series: Open IT Architecture for OneNet (WP5)

OneNet series: Products and services definition in support of OneNet (WP2)

OneNet series: Data for the energy transition

Transport 4 Future Ep 4 | Discussing the Latest Mobility Patterns in European Cities

ENTSOG's Patricia Orglerova On Their New 'H2 Infrastructure Map' For Europe

The Brains Behind the Bank: Johanna Schiele on Renewable Hydrogen Auctions in Europe

Impressions from COP28: can the conference live up to the global expectations?

Topic of the month

Inclusive or exclusive? Green hydrogen in the international sphere

The Green Hydrogen Economy: insights from India Jan 10, 2023

Building new knowledge on electricity market design and regulation Foundations for the adoption of new EU electricity network codes and other market rules

Feb 3, 2023

How to design markets for the provision of electricity system services and enhance consumer engagement?

Feb 9, 2023

Establishing an interoperability community for an integrated energy system

Feb 16, 2023

A European distributed data-sharing infrastructure for enabling innovative energy services

Feb 27, 2023

Women in the energy transition

Building an EU Equality platform for the energy sector

Mar 10, 2023

A "glass half full": the increasing role of women in the clean energy transition

Mar 20, 2023

Energy and Transport regulation, links between the sectors

Regulatory Impetus to Enable Electric Vehicles Adoption

Apr 18, 2023

The necessary evolution of electricity contracting in railways

Apr 24, 2023

Building Energy Security in Times of Uncertainty

Crisis as a Challenge for the EU's Treaty Framework for Energy Security

May 5, 2023

Counteracting the energy crisis: new emergency measures adopted by the EU

May 12, 2023

Retail competition and electromobility

May 22, 2023

From Resilience to Solidarity: Shaping the Energy Security of Europe May 22, 2023

Is emissions trading fit for Europe's net zero objective?

There is LIFE after LIFE: origin and objectives of the new LIFE COASE project

Jun 5, 2023

Is the reformed Emissions Trading System fit for the new EU climate ambition?

Jun 12, 2023

Carbon Border Adjustment Mechanism: raising climate ambitions and ensuring fair competition

Jun 20, 2023

Emissions trading 2.0: The Social Climate Fund and Europe's just transition

Jun 26, 2023

Energising Engagement. Unleashing Customer Potential in the Power Sector

Electricity consumers entering a new universe

Sep 4, 2023

New offers are here for European consumers, why are they not choosing them?

Sep 11, 2023

Flexibility from consumers: four set of barriers to overcome

Sep 19, 2023

'Back to School: A Journey into FSR Training'

20 years of the FSR. 22 years of FSR Training

Oct 18, 2023

10 themes to watch in 2024

Nov 6, 2023

Evolution of Electricity Markets in Europe: an online course success

story

Nov 13, 2023

Gathering regulators worldwide to rethink the governance

Nov 20, 2023

Inside COP28

COP28: takeaways of Prof. Simone Borghesi

Dec 19, 2023

COP28 and international carbon markets: what to expect?

Dec 11, 2023

The methane opportunity and imperative ahead of COP28

Dec 4, 2023

Can the stakes of COP28 live up to the expectations of civil society?

Nov 28, 2023

EVENT HIGHLIGHTS

Overview of Recent Energy Case Law from the CJEU: highlights from the event

Jan 10, 2023

Balancing Flexibility and Interoperability in the Digitalisation of the European Energy Market

Jan 12, 2023

Energy prosumption: barriers and solutions

Feb 27, 2023

Looking at the costs of the energy transition from an Indian perspective Mar 21, 2023

Lessons learned from the crisis: insights on three newly introduced EU emergency gas measures

Apr 4, 2023

EU gas markets: spring has arrived, but how do we prepare for next winter?

Apr 5, 2023

Energy transition and sustainable development – leaving no woman behind?

May 29, 2023

An electricity market design reform to support a well-functioning, interconnected electricity system

Jun 6, 2023

Italy's energy transition: managing the energy crisis and shaping the future

Oct 10, 2023

Impacts and evolution of emissions trading systems: insights from science and regulation

Oct 13, 2023

New challenges for DSOs in the energy transition

Nov 13, 2023

COVER THE BASICS

Security of Supply: Gas

Jan 31, 2023

Contracts-for-Difference

Apr 12, 2023

INTERVIEWS AND NEWS

India's green hydrogen challenge

February 10, 2023 | Indian Express

Power market reform approaching a snag?

March 22, 2023 | Politico

Nuclear energy in Italy's energy mix

May 11, 2023 | Rai Radio 1

Riforma del mercato dell'elettricità: cosa non c'è nella proposta

May 15, 2023 | Euractiv

Electricity Market Design – creating the stimulus for competitive Offshore Wind within the internal energy market

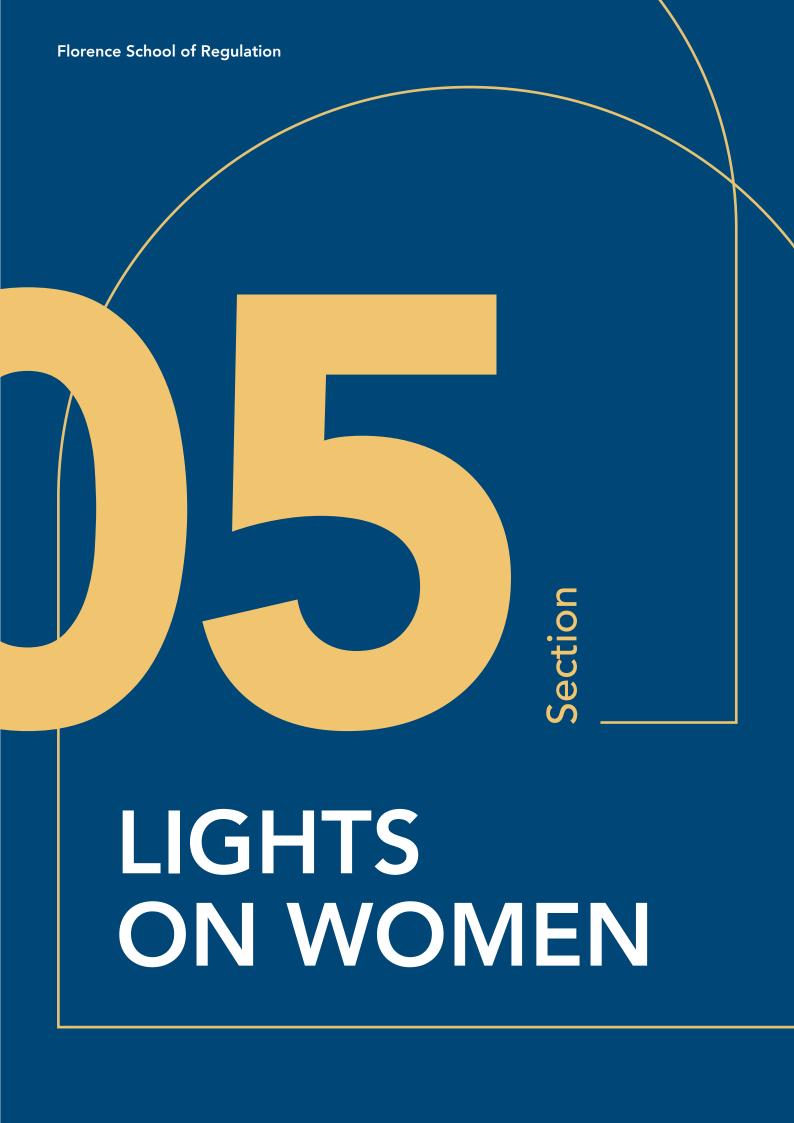
September 7, 2023 | Energypost

Polluters Got \$400 Million of Free Carbon Allowances Thanks to Market Loophole

November 15, 2023 | Wall Street Journal

Can the Mediterranean become Europe's energy powerhouse?

November 20, 2023 | The Economist



Highlights

LUCE Awards 2023

The LUCE Awards, created to champion women's pivotal roles in the Green Transition, was held for the first time in 2023, on 16 May, and celebrated the achievements of two outstanding female professionals. The Legacy Women award was given to Clara Poletti, ARERA Commissioner and Chair of the Board of Regulators of ACER. Onlyinge Anene-Nzelu, Head of Mini-Grids at Engie Energy Access in Nigeria, won in the Emerging Talent category.

European Sustainable Energy Week

On 21 June, FSR Lights on Women co-hosted a policy session at the European Sustainable Energy Week in Brussels, jointly with the EU Commission's EIGE (EU Institute for Gender Equality) and Eurofound (EU Foundation for the Improvement of Living and Working Conditions), titled *Stepping up: gender and intersectional perspectives towards a socially fair Just Transition*.

Shoktikonna

FSR was invited by the EEAS (European External Action Service) to contribute to Shoktikonna ("Power Women") – a grassroots-led project to empower young women involved in the green energy transition in Bangladesh. FSR provided two free online lectures to a group of about 60 young female engineers in Bangladesh who had been selected for this project.



ONLINE ARTICLES AND INTERVIEWS

Building an EU Equality platform for the energy sector

Joana Simao Costa

A "glass half full": the increasing role of women in the clean energy transition

Anna Sobczak

Women in energy: Interview with Andrea Lenauer (ICER)

Andrea Lenauer

Women's Energy: between regulation and leadership

Highlights from the event "L'Energia delle Donne: tra regolazione e leadership"

Empowering Africa: The Crucial Role of Women in the Just Energy Transition

Carol Ofafa

THE W FACTOR

Episode 1 with Ditte Juul Jørgensen, Director-General of DG ENER

Episode 2 with Anna Collyer, Chair of the Australian Energy Market Commission

EVENTS

LUCE Awards 2023

16 May 2023 | FSR | Hybrid, Florence

Stepping up: gender and intersectional perspectives towards a socially fair Just Transition

21 June 2023 | EUSEW | Residential, Brussels

L'Energia delle Donne: tra regolazione e leadership

10 November 2023 | Edison | Residential, Milan

Implementing equality and inclusion in workplaces: benefits and

limits of gender policies

29 November 2023 | FSR Debate | Online

EVENTS

Third meeting of the Equality Platform for the energy sector

20 April 2023 | Hybrid, Brussels

Fourth meeting of the Equality Platform for the energy sector

26 September 2023 | Hybrid, Brussels



SCHOLARSHIPS

Scholarships

5th 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 5th 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 5th Lights on Women Scholarship recipients come from 9 different countries, across four 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.

7th Ana Aguado Scholarship

This scholarship is a tribute to the late Secretary-General at EDSO, Ana Aguado, and is organized in collaboration with 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: "Energy prices have skyrocketed since mid-2021. Governments in Europe and beyond have mostly come to the rescue of their energy consumers by introducing emergency measures and allocating billions of euros. Please briefly illustrate one of the measures adopted by a country of your choice to protect consumers, and discuss their possible disadvantage".

2nd 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 20 scholarships for 12 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.



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

CAPABLE

ClimAte Policy AcceptaBiLity Economic framework January 2023 – December 2025

EDDIE

EDDIE - European Distributed Data Infrastructure for Energy January 2023 – December 2025

Energy Communities Repository

Energy Communities Repository Initiative April 2022 – April 2024

INC

Implementing network codes
June 2020 – June 2026

InnWater

Promoting social INNovation to renew multi-level and cross sector WATER governance

March 2023 - February 2026

Int:net

Interoperability Network for the Energy Transition May 2022 – April 2025

LIFE COASE

Collaborative observatory for assessment of the EU ETS January 2023 – December 2025

LNGnet

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

January 2021 - July 2024

OneNet

One network for Europe

October 2020 - March 2024

07. Section | Research projects

POWEREG

Regulating Power in Norway: Decentralization or Centralization? June 2020 – June 2024

Promoting innovative TSO solutions

1. Benefit-based incentive regulation to promote efficiency and innovation in addressing system needs

A report on benefit-based remuneration of efficient infrastructure investments for the European Union Agency for the Cooperation of Energy Regulators

April 2023-June 2023

2. Benefit-based remuneration of efficient infrastructure investments

A follow-up report on benefit-based remuneration of efficient infrastructure investments for the European Union Agency for the Cooperation of Energy Regulators

September 2023 - March 2024

SEAO2-CDR

Strategies for the Evaluation and Assessment of Ocean based Carbon Dioxide Removal

June 2023 - May 2027

SPES

Sustainability Performances, Evidence and Scenarios February 2023 – January 2026

WAREG

Reaching energy neutrality in urban wastewater treatment in the EU: the role of water regulators

October 2023 to June 2024

Legal and economic analysis of long-term contracts in the European energy sector

November 2023 – April 2024

Leonardo Meeus

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