

FLORENCE SCHOOL OF REGULATION  
Training on Energy Regulation



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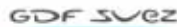
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## INTRODUCTION

The FSR Training aims at providing general introductory and advanced specialist training for the staff of regulatory institutions and for officials in the utilities industry sector on regulatory policies, methods and procedures. Moreover, it provides a forum for policy decision makers, regulators, business managers and researchers from different sectors and different countries to discuss regulatory concepts, practices and policies. It gives an opportunity to disseminate best practices, anticipate new challenges, and develop a common 'regulatory language' or 'regulatory culture' and norms of accountability and democratic legitimacy.

The FSR Training Courses and Seminars offer is increasing every year. Since 2004, nearly 700 participants have taken part in our courses. Over the years, the geographical reach has expanded from EU countries to include participants from South-East Europe, Mediterranean countries, Africa, Latin America and Asia. In addition to receiving very positive feedback on the content of the courses, participants also appreciated the opportunity to develop a lasting network with colleagues from other countries and cultures.

For further information on FSR please visit us at [www.florence-school.eu](http://www.florence-school.eu)

## ANNUAL TRAINING ON THE REGULATION OF ENERGY UTILITIES



### Description

This training is composed of residential and e-learning parts:

- First week in Florence, Italy: intensive introduction to course topics, presentation of participants, meeting the instructors, social events to stimulate networking among participants.
- 7-month e-Learning using a user-friendly and highly interactive platform, discussing topics daily, submission of activities weekly, supervision and feedback from instructors.
- Second week in Florence, Italy: analysis of case studies, market game simulation, discussion of major issues, award of certificates in a final farewell ceremony.

### Topics

Monopolistic and competitive activities • electricity wholesale markets • electricity transmission • gas wholesale and retail markets • gas network regulation • electricity distribution • quality of energy supply • electricity retail markets • tariff design • regulatory authorities and legal procedures • regulation of environmental issues in energy systems

### Instructors

S.Ascoli (FSR) • C.Batlle (Comillas) • E.Bonafé (FSR) • D.Cagney (CER, Ireland) • A.Correlje (Clingendael) • J.de Jong (Clingendael) • L.de Vries (Deft) • E.Fumagalli (Politecnico di Milano) • T.Gómez (Comillas) • R.Hakvoort (Delft) • C.Lock (Ofgem, UK) • M.Marzo (Barcelona University) • I.Pérez-Arriaga (FSR) • A.Pototschnig (ACER) • R.Prieto (CNE, Spain) • P.Ranci (FSR) • T.Reeves (CER, Ireland) • M. Rivier (Comillas) • J.Rivier (Iberdrola) • J.Vasconcelos (Newes) • M.Ventosa (Comillas)

<b>Target</b>	Staff of regulatory authorities and energy utilities willing to gain both a broader and more in-depth understanding of the electricity and gas sectors.
<b>Eligible</b>	National regulatory authorities worldwide European and international institutions FSR donors
<b>Next session</b>	10 October 2011 – June 2012
<b>Registration</b>	1 June – 10 September 2011 <a href="http://www.florence-school.eu">www.florence-school.eu</a> >Training > Energy >Annual
<b>Fee</b>	€ 4,500
<b>Course Director</b>	Ignacio Pérez-Arriaga FSR Training Director
<b>Contact</b>	Ernesto.Bonafe@eui.eu FSR Training Coordinator

## **SPECIALISED TRAINING** **ON THE REGULATION OF GAS MARKETS**



<b>Description</b>	This training deals with specific regulatory issues in gas markets. During the five working days, the morning is devoted to introducing the main principles of a particular key regulatory topic, followed by a related real-life case study discussed in the afternoon. The pool of teachers includes academics, practitioners and regulators. Participants are expected to leave Florence having established a good network of contacts with other participants and the instructors.
<b>Topics</b>	International and EU policies in gas markets • market functioning and design • EU regulation on security of supply • regulation of gas pipelines in Europe and the US • 10-year development plan • open seasons • storage • storage in Germany and Italy • storage during a supply crisis • LNG pricing, markets in Europe, and outlook • LNG in Spain
<b>Instructors</b>	S.Ascoli (FSR) • R.Carnevalini (AEEG, Italy) • J.de Jong (Clingendael) • S.Dewald (Wingas) • B.Esnault (CRE, France) • C.Fabrizio (GME) • M.Hafner (FEEM) • P.Heather (Oxford Energy Institute) • P. Kaderjak (Budapest University) • C.Lapuerta (Brattle Group) • D.Ledesma (Oxford Energy Institute) • J.Makholm (NERA) • C.Poillion (GDF Suez) • R.Prieto (CNE, Spain) • F.J.Rubio (Gas Natural) • M.Schmölzter (E-Control, Austria) • M.Visser (GTS)

<b>Target</b>	Staff of regulatory authorities and energy utilities interested in gaining a broader and more in-depth understanding of the gas sector.
<b>Eligible</b>	National regulatory authorities worldwide European and international institutions FSR donors
<b>Next session</b>	March 2012
<b>Registration</b>	January 2012 <a href="http://www.florence-school.eu">www.florence-school.eu</a> > Training > Energy > Specialised
<b>Fee</b>	€ 2,800
<b>Course Director</b>	Sergio Ascari FSR Gas Advisor
<b>Contact</b>	<a href="mailto:Ernesto.Bonafe@eui.eu">Ernesto.Bonafe@eui.eu</a> FSR Training Coordinator

## **MEDREG TRAINING** **ON THE REGULATION OF ELECTRICITY MARKETS**



<b>Description</b>	This 5-day training session tackles the main regulatory issues for a secure, sustainable and efficient energy supply from the perspective of the Mediterranean Partner Countries.
<b>Topics</b>	Rationale to liberalise and regulate energy markets • energy liberalisation and regulation in the EU and in the Mediterranean region • national regulatory authorities • financing clean technologies • renewable energy sources and energy efficiency in the Mediterranean region • wholesale electricity markets • network regulation • quality of service • consumer protection • regional markets • interconnections • investments • Mediterranean Solar Plan
<b>Instructors</b>	C.Artizzu (AEEG Italy) • M.Celozzi (Terna)• B.De Filpo (AEEG Italy) • H.El-Salmawy (Egyptera)• E.Fumagalli (Politecnico di Milano) • B.Gallèpe (MedReg) • C.Gence-Creux (ACER) • J-M.Glachant (FSR) (MEDREG) • L.Olmos (FSR) • P.Ranci (FSR) • J.M.Rodríguez (REE) • A.Rubino (FSR) • M.Saguan (Microeconomics) • J.M.Unsi3n (CNE Spain) • H.Weigt (FSR)

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**Eligible** Staff of regulatory authorities of Mediterranean Partner Countries (MPC): Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, the Palestinian Authority and Tunisia.

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**Information** [www.florence-school.eu](http://www.florence-school.eu) > Training > Energy > MEDREG

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**Course Director** Jean-Michel Glachant FSR Director

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**Contact** [Ernesto.Bonafe@eui.eu](mailto:Ernesto.Bonafe@eui.eu) FSR Training Coordinator

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*This project is financed by the European Union*

## **SUMMER SCHOOL** **ON ENERGY POLICY AND EU LAW**

<b>Description</b>	This 5-day training course is designed to develop a sound knowledge of recent developments in EU energy law coupled with a better understanding of the economic principles underlying rules and legal procedures.
<b>Topics</b>	Lisbon Treaty • market coupling and the internal market • energy and private law • boundaries between competition and regulatory law • ACER • ENTSOs • Third Package Implementation • NRAs • EU Infrastructure Package • security of gas supply • competition • state aid • support schemes to promote RES • smart grids and distributed generation • EU ETS legal perspectives
<b>Instructors</b>	C.Banet (Oslo University) • G.Downie (Shepherd and Wedderburn) • L.Hancher (Tillburg University) • D.Hesseling (NMa) • N.Horstmann (BNetzA) • A.Johnston (Oxford University) • G.Monti (EUI) • B. Pérez de las Heras (Deusto University) • V.Rious (Microeconomix) • F.Salerno (Cleary Gotlieb) • F.Sclafani (AEEG)

<b>Target</b>	Staff of energy regulatory authorities, international organisations, utilities and law firms wishing to keep up-to-date on EU energy law.
<b>Eligible</b>	All interested parties
<b>Next edition</b>	June 2012
<b>Registration</b>	March 2012 <a href="http://www.florence-school.eu">www.florence-school.eu</a> > Training > Energy > EU Law
<b>Fee</b>	€ 2,800 (regulators, FSR donors) € 3,800 (other companies) € 800 (PhD researchers)
<b>Course Director</b>	Leigh Hancher / Adrien de Hauteclocque (Coordinator FSR Energy Policy and Law Area)
<b>Contact</b>	<a href="mailto:Ernesto.Bonafe@eui.eu">Ernesto.Bonafe@eui.eu</a> FSR Training Coordinator

## SUMMER SCHOOL ON THE REGULATION OF ENERGY UTILITIES



- Description** This 5-day training starts from basic introductory material but it also aims to cover the major subjects of energy regulation in depth. The course also provides an opportunity to establish contacts between participants, and with the instructors, most of whom are academics or members of regulatory bodies or energy companies.
- Topics** Theory and principles of regulation • restructuring of the power industry • traditional regulation • quality of service • competitive activities • price coupling of regions • electricity transmission and distribution networks • gas markets • gas networks and infrastructure • US and EU gas systems • wholesale market and power exchanges • RES support mechanism • environmental issues • retail energy markets • retail markets and market monitoring in the US • the UK market • the Brazilian electricity market
- Instructors** S.Ascoli (FSR) • C.Batlle (Comillas/MIT) • L.A.Barroso (PSR) • M.C.Christie (Virginia State Corporation Commission) • Jean-Francois Conil-Lacoste (EuroPEX) • J.De Jong (Clingendael) • R.Hakvoort (Delft University) • C.Lapuerta (Battelle Group) • G.Majstrovic (Hrovje Pozar) • A.Pototschnig (ACER) • P.Ranci (FSR) • G.Shuttleworth (Nera) • P.Sweatman (Climate Strategy) • S.Thomas (University of Greenwich)

<b>Target</b>	Staff of regulatory authorities and energy utilities wishing to gain a broader and more in-depth understanding of the electricity and gas sector.
<b>Eligible</b>	National regulatory authorities worldwide European and international institutions FSR donors All other interested parties (subject to the availability of places)
<b>Next edition</b>	June 2012
<b>Registration</b>	March 2012 <a href="http://www.florence-school.eu">www.florence-school.eu</a> > Training > Energy > Utilities
<b>Fee</b>	€ 2,800
<b>Course Director</b>	Carlos Batlle Comillas University/MIT
<b>Contact</b>	Ernesto.Bonafe@eui.eu FSR Training Coordinator

## TRAINING À LA CARTE

### Description

The Training à la Carte is an ad hoc course, designed to meet the specific needs of any regulatory institution or company regarding all regulatory issues as well as the logistics aspects.

### Contact

Ernesto.Bonafe@eui.eu FSR Training Coordinator



### Recent ad hoc trainings

#### **FSR Training Session at the MEDREG Institutional and Electricity Ad Hoc Working Groups**

Athens, 18 April 2011

- Public service obligations and renewable energy sources
- Service quality regulation



#### **FSR Training Course for the European Commission, DG Information Society and Media**

Brussels, 25 November and 9 December 2010

- Overview of the electric power system: physical, functional and regulatory
- The internal market in electricity and the third package
- Smart grids: A regulatory perspective



### **FSR Training Course for Cyprus Energy Regulatory Authority (CERA)**

Nicosia, 26-27 April 2010

- The Third Energy Package
- Regulation of network tariffs
- Efficient design for balancing markets
- The EU Green Package: The ETS and RES Regimes



### **FSR and the Algerian Petroleum Institute Training Programme in collaboration with CREG (Agence de Régulation de l'Electricité et du Gaz).**

Boumerdès, November 2009 - April 2010

- Les réformes du secteur électrique
- Conduite, gestion prévisionnelle et investissement de la production électrique
- Gestion du transport d'électricité
- Planification et tarification pour le transport d'électricité
- Conduite et planification du réseau de distribution d'électricité



Autorità per l'energia elettrica e il gas

### **FSR Training for Italian Regulatory Authority for Electricity and GAS (AEEG)**

Milan, April-May 2009

- Energy regulators in Europe
- Regulation of monopoly infrastructure in Europe
- Regulation of liberalised markets in Europe
- Consumer protection, environment and security of supply related issues in Europe

## EXECUTIVE SEMINAR

<b>Description</b>	This event aims to present a professional overview of current issues and future trends in the field of special interest of the high level participants. The concept of the executive seminar is to combine presentations with open discussions and the exchange of ideas between the organisers, speakers, and 15 to 20 participants.
<b>Target</b>	High-level participants from regulatory authorities FSR energy donors European Commission
<b>Next session</b>	To Be Confirmed
<b>Seminar Director</b>	Jean-Michel Glachant, FSR Director
<b>Contact</b>	Magdalena Moś - <a href="mailto:Magdalena.Mos@eui.eu">Magdalena.Mos@eui.eu</a> , Coordinator of the FSR Energy Executive Seminars.
<b>Website</b>	<a href="http://www.florence-school.eu">www.florence-school.eu</a> > Policy Events > Energy Policy Events > Executive Seminars

The first Executive Seminar entitled **“Regulation of electricity systems with high penetration of generation based on Renewable Energy Sources (RES)”** took place on 6-8 April 2011 in Florence. The scientific organisers of this event were Jorge Vasconcelos and Jean-Michel Glachant. To see further information on this event, please visit the FSR Executive Seminar website.



## OUR PEOPLE



**Jean-Michel Glachant** is **Director of the Florence School of Regulation** and **Holder of the Loyola de Palacio Chair**.

Jean-Michel is or has been an advisor to DG TREN, DG COMP, DG RESEARCH and DG ENERGY at the European Commission and to the French Energy Regulatory Commission (CRE). He is or was coordinator or scientific advisor of several European research projects such as THINK, SESSA, CESSA, Reliance, EU-DEEP, RefGov, TradeWind, Secure, Optimate. He is research partner of the CEEPR at the MIT in the US, of the EPRG at Cambridge University, and of the EEL at the University of Leuven. Jean - Michel Glachant is chief-editor of "EEEP: Economics of Energy and Environmental Policy", the new journal of the International Association for Energy Economics. At Paris Sud he founded a European Masters degree "Erasmus Mundus" entitled EMIN (Economics and Management of Network Industries).

Jean-Michel Glachant is Professor in Economics. He was appointed full Professor in Economics at La Sorbonne in 1999. In autumn 2000 he moved to University Paris Sud where he became Head of the Department of Economics. He is Director of FSR since 2008.

**Ignacio J. Pérez-Arriaga** is **Director of Energy Training** at the Florence School of Regulation.

He is Professor of Electrical Engineering at UPC, and founded its Instituto de Investigación Tecnológica, of which he served as Director for 11 years. He has also been Vice Rector for Research at UPC, and currently holds the BP Chair on Sustainable Development. He served for 5 years as Commissioner at the Spanish Electricity Regulatory Commission, and since November 2007 he has been an Independent Member of the Single Electricity Market Committee of Ireland.

He has worked in power system dynamic analysis, the monitoring and diagnosis of power system devices and systems, intelligent computer design of industrial systems, planning and operation of electric generation and networks, regulation and restructuring of the power industry, and the sustainability of national and global energy models. He has been a consultant for governmental agencies on electric utilities in more than 30 countries. Dr. Pérez-Arriaga is a Member of the Spanish National Academy of Engineering and a Fellow of the IEEE. He has published more than 150 papers and

supervised more than 20 doctoral theses on the aforementioned topics. He is a permanent visiting professor at MIT, at the Center for Energy and Environmental Policy Research (CEEPR), where he teaches a graduate course on power system regulation, engineering and economics. He is a review editor of the 5th Assessment Report of the Intergovernmental Panel on Climate Change (IPCC).

He received the MS and PhD degrees in Electrical Engineering from MIT, and the Electrical Engineer Bachelors degree from the Universidad Pontificia Comillas (UPC) in Madrid, Spain.

**Sergio Ascari** is **Gas Advisor** at the Florence School of Regulation.

From 1982 until 1994 he was research assistant, research director and lecturer in Energy and Environmental Economics at the Institute of Energy Economics at Bocconi University, Milan and at the University of Pavia. Between 1997 and 2006 he worked at the Italian Regulatory Authority for Electricity where he was in charge of Gas Tariffs, Environmental Affairs and later of International Co-operation. He has worked ex-

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tensively for the promotion and harmonisation of energy Regulation, notably in the Czech Republic, Lithuania, Turkey, and Ukraine. From 2007 to 2009 he was Gas Expert in the Regulatory Section of the Energy Community Secretariat in Vienna. Since January 2009 he is a Senior Consultant with REF (Ricerche per l'Economia e la Finanza), Milan, Italy and collaborates on several national and international research and assistance projects, mainly in the gas sector.

Sergio graduated in Economics at the University of Pavia and holds a M.Sc. (Econ.) from the University of York.

**Carlos Batlle** is **Associate Research Professor** in the Institute for Research in Technology (IIT) of the Universidad Pontificia Comillas in Madrid and is currently **Visiting Scholar** at the Center for Energy and Environmental Policy Research (CEEPR) and at the Massachusetts Institute of Technology (MIT).

He has headed more than 20 research projects and has taken part in many others. He has worked and lectured extensively on the operation, planning and risk management of electric generation and networks, and particularly on regulatory is-

ssues concerning electric power systems, with a special focus on market design and regulation for wholesale and retail electricity markets. In this latter topic he has been a consultant for governments, international institutions, industrial associations, and utilities in more than 15 countries, with a special focus on Latin American power systems. He has published more than 20 papers in national and international journals and conference proceedings. He is professor of Electric Power Systems Regulation and Electricity markets at the Universidad Pontificia Comillas's Masters degree in the Electric Power Industry (Erasmus Mundus), and is a member of the Training Programme for European Energy Regulators at the Florence School of Regulation within the European University Institute in Florence.

He obtained his Electrical Engineering degree from the School of Engineering (ICAI) of the Universidad Pontificia de Comillas, Madrid, Spain, after having spent his final year at the École Polytechnique Fédéral de Lausanne (EPFL), Switzerland, where he submitted his diploma dissertation in artificial intelligence. He received his doctoral degree in September 2002 for the thesis "A strategic production costing model for electricity generation risk analysis".

**Leigh Hancher** is **Scientific Advisor of the EU Energy Law and Policy stream** at Florence School of Regulation Energy.

She is a professor of European law at the University of Tilburg and is also attached to the Amsterdam office of Allen & Overy as Counsel. Her research interests are energy market regulation, EU state aids and energy market governance.

Leigh has been a Professor since 1991, initially at the Erasmus University, Rotterdam. In 1996 she was Visiting Professor in "Natural Resources Law" at the University of Calgary, Canada. She has broad experience in energy regulation issues at the European and national levels. Her expertise as well as her academic research is focused on the changing role of the government in stimulating the liberalisation of traditionally heavily regulated sectors.

Leigh studied law at the Universities of Glasgow and Sheffield, and at the EU. In 1989 she obtained, with distinctions, her doctorate in law at the University of Leiden.

**Ernesto Bonafé** is **Coordinator of Training Courses** for the staff of energy regulators and utilities at the Florence School of Regulation.

His research interests cover the institutional system and legal order of the energy sector in the EU and the Mediterranean region. He holds a PhD from the Law Department of the European University Institute, Florence, Italy, and an LLM in EU law from the Université Libre de Bruxelles, Belgium. He obtained his bachelor Law Degree at the Universidad de Valencia, Spain, which included one academic year at the Université de Savoie, France.

He worked as legal collaborator in law firms in Valencia (Asiain Asesores) and Brussels (Lallemand & Legros), and had internship at the European Commission, the European Parliament, and the European Court of Justice.

**Adrien de Hauteclocque** is a **Referendaire** of Judge M. van der Woude at the General Court of the European Union, Luxembourg and **Course Advisor Summer School on Energy Policy and EU law.**

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He is a referendaire of Judge M. van der Woude at the General Court of the European Union, Luxembourg. His research interests include EU competition and state aid law, competition policy in network industries and the law & economics of electricity regulation. Before moving to the EU institutions, Adrien pursued his academic career at the University of Manchester and at the European University Institute where he founded the "EU Energy Law & Policy" Area of the Florence School of Regulation. He is a regular speaker in international conferences and has published numerous academic articles and book chapters.

Adrien obtained his PhD in law from the University of Manchester (UK) and holds a M.Sc. in Management from EM Lyon (France) and a M.Sc. in Economic Policy from Strathclyde University (UK).

**Magdalena Moś** is **Coordinator of the Executive Seminars** organised by the Florence School of Regulation.

She is particularly interested in research on professional adult education, hybrid education and e-learning. Prior to her cur-

rent position, in 2009-2010, she worked as a Research Assistant at the University of Perugia, where she was involved in several EU-funded research projects on adult education, e-learning and intercultural communication. In addition, she was responsible for the organisation of academic events and training sessions, during which she was also facilitating sessions and presenting papers. She joined the Florence School of Regulation in January 2011. In 2008 she received a scholarship funded by the Italian Ministry of Foreign Affairs for her Masters thesis research project on the promotion prospects of graduates in European Union countries based on the examples of Poland and Italy.

She conducted her research at the University of Perugia and obtained her Masters degree in Social Pedagogy from the Silesian University in Poland. During her Bachelors degree studies she was also a visiting student at the Faculty of Education, University of Perugia and the University of Minho, in Braga, Portugal.



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## FLORENCE SCHOOL OF REGULATION

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website at <http://fsr.eui.eu>

or contact

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<http://www.florence-school.eu>

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