



TRAINING COURSE

FSR ANNUAL TRAINING ON THE REGULATION OF ENERGY UTILITIES 2018-19 | BLOCK I

Course Director: **Ignacio Pérez-Arriaga** | Florence School of Regulation/Robert Schuman Centre for Advanced Studies/European University Institute; Comillas University and MIT

Training Coordinator: **Mara Rădulescu** | Florence School of Regulation/Robert Schuman Centre for Advanced Studies/European University Institute

Refettorio

Badia Fiesolana, Via dei Roccettini, 9 - San Domenico di Fiesole

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1 - 5 OCTOBER 2018

■ INTRODUCTION

The FSR Annual Training consists of three components. It starts with a five-day residential block that covers all major regulatory topics and establishes the basis of networking among the course participants. This first block is the introduction to the in-depth training which is provided by a seven-month e-learning process, known as the second block. The course is completed with a second residential week, or third block, mostly devoted to the discussion of applied case studies, the presentation of further topics of interest, and a final one-day workshop on energy and sustainability. The workshop ends the annual training with the presentation of diplomas to the participants.

All participants are expected to complete the three training components. Since the topics presented during the first residential week will be revisited in depth in the second and third blocks, the emphasis in most presentations will be on the context and background for each topic, highlighting the major issues and the main existing approaches, leaving ample time for discussion and without attempting an extensive coverage of the topic. During the week the course participants will work on case studies in small teams and each team will deliver their opinions and conclusions on the chosen topics.

■ PROGRAMME

1 OCTOBER

- 08.15 - 08.30 *Coffee and registration*
- 08.30 - 09.00 Welcome and presentation of the course; preliminary introductions of the course participants
Ignacio Pérez-Arriaga | Florence School of Regulation; Comillas Pontifical University and MIT
Mara Rădulescu | Florence School of Regulation
- 09.00 - 10.15 Lesson 1.A
Gas systems: Structure, organisation & functioning
Rocío Prieto | National Markets and Competition Commission (CNMC)
- 10.15 - 10.45 *Coffee break*
- 10.45 - 11.45 Getting to know each other - networking activity
- 11.45 - 13.00 Lesson 1.B
Electric power systems: Structure, organisation & functioning
Rocío Prieto | National Markets and Competition Commission (CNMC)
- 13.00 - 13.15 Presentation of the case studies and organisation of the teams
- 13.15 - 14.30 *Lunch*
- 14.30 - 15.45 Lesson 14.A
Legal issues in energy regulatory commissions
Denis Cagney | Commission for Energy Regulation (CER)
- 15.45 - 16.45 Case studies discussed over coffee
- 16.45 - 18.00 Lesson 2.A
Regulation and competition: History, theory and the regulator's function
Pippo Ranci | Florence School of Regulation
- 18.00 - 19.00 *Welcome cocktail*

2 OCTOBER

- 09.00 - 10.15 Lesson 4
Regulatory economics: Monopolistic activities. Approaches to price control
Rudi Hakvoort | TU Delft and D-cision B.V.
- 10.15 - 10.45 *Coffee break*
- 10.45 - 12.00 Lesson 5
Regulatory economics: Competitive activities
Rudi Hakvoort | TU Delft and D-cision B.V.
- 12.00 - 13.15 Getting to know each other - networking activity
- 13.15 - 14.30 *Lunch*

- 14.30 - 15.45 Lesson 2.B
Models of regulation. Restructuring of the electric power industry. Basic policies and features. Regulatory institutions
Jacques de Jong | Clingendael International Energy Programme (CIEP)
- 15.45 - 16.45 Case studies discussed over coffee
- 16.45 - 18.00 Lesson 2.C
Models of regulation. Restructuring of the gas power industry. Basic policies and features. Regulatory institutions
Jacques de Jong | Clingendael International Energy Programme (CIEP)
- 18.30 *Guided tour of Florence*

3 OCTOBER

- 09.00 - 10.15 Lesson 3
Traditional regulation of electric utilities
Ignacio Pérez-Arriaga | Florence School of Regulation; Comillas Pontifical University and MIT
- 10.15 - 10.45 *Coffee break*
- 10.45 - 12.00 Lesson 10
Electricity distribution
Ignacio Pérez-Arriaga | Florence School of Regulation; Comillas Pontifical University and MIT
- 12.00 - 13.15 Lesson 7
Electricity transmission
Ignacio Pérez-Arriaga | Florence School of Regulation; Comillas Pontifical University and MIT
- 13.15 - 14.30 *Lunch*
- 14.30 - 15.45 Lesson 6
Electricity markets. The wholesale electricity market
Alberto Pototschnig | Florence School of Regulation and ACER
- 15.45 - 16.45 Case studies discussed over coffee
- 16.45 - 18.00 Lesson 12
Electricity markets. The retail market
Ignacio Pérez-Arriaga | Florence School of Regulation; Comillas Pontifical University and MIT
- 20.00 *Event dinner in downtown Florence*

4 OCTOBER

- 09.00 - 10.15 Lesson 8
Gas markets. The wholesale market
Aad Correljé | Clingendael International Energy Programme (CIEP) and TU Delft

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| 10.15 - 10.45 | <i>Coffee break</i> |
| 10.45 - 12.00 | Lesson 8 Gas markets. The retail market. Aad Correljé Clingendael International Energy Programme (CIEP) and TU Delft |
| 12.00 - 13.00 | Lesson 9 Gas networks Sergio Ascari Florence School of Regulation and REF-E |
| 13.00 - 14.30 | <i>Lunch</i> |
| 14.30 - 15.45 | Lesson 9 Gas networks Sergio Ascari Florence School of Regulation and REF-E |
| 15.45 - 16.45 | Case studies discussed over coffee |
| 16.45 - 18.00 | Lesson 11 Quality of service in electricity and gas Elena Fumagalli Politecnico di Milano |

5 OCTOBER

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| 09.00 - 10.15 | Lesson 13 Electricity tariff design Ignacio Pérez-Arriaga Florence School of Regulation; Comillas Pontifical University and MIT |
| 10.15 - 10.30 | <i>Coffee break</i> |
| 10.30 - 11.45 | Lesson 15 Environmental issues in energy systems Ignacio Pérez-Arriaga Florence School of Regulation; Comillas Pontifical University and MIT |
| 11.45 - 12.15 | Introduction to the E-learning platform Mara Rădulescu Florence School of Regulation |
| 12.15 - 14.00 | Conclusions of case studies. Course evaluation and feedback |
| 14.00 | <i>Lunch</i> |