



Energy Regulation Training

Morocco

31 October-1 November 2017

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1. Introduction of the Florence School of Regulation

Since its creation the Florence School of Regulation (FSR), directed by Jean-Michel Glachant, has been established as a centre of excellence for independent discussion and dissemination of knowledge in the fields of European energy regulation and policy. It soon became a unique and relevant forum for academics, regulators, policy-makers and industry professionals. Through applied research, policy debate and innovative training, it aims at improving the quality of regulatory policy in crucial sectors of the European economy.

For over a decade, the school has been providing leading training courses such as the Summer School on Regulation of Energy Utilities, The Annual Training on the Regulation of Energy Utilities and the FSR-CEER Fundamentals of Energy Regulation. Today, FSR Energy & Climate also offers a wide range of online formats and customised trainings with the support of an International Faculty of Academics and of a dedicated facilitation team. In this respect, the FSR already collaborated with and designed courses for numerous institutions and organisations such as the CEER, MEDREG, ENTSO-E, JRC, Vlerick Business School, EMIN, ERDF, the Brazilian Regulatory Authority and Indian Ocean Commission. All FSR courses are designed to offer real interaction and a personalised learning experience.

The FSR gained comprehensive and broad expertise especially in the fields of electricity and gas markets in Europe. In the past five years the school organised two hundred residential training days and trained around six thousand participants representing diverse institutional energy stakeholders with the support of professors from top universities around the world and as well as high-level experts in energy regulation and policy making: Jean-Michel Glachant, Ignacio Pérez-Arriaga, Pippo Ranci, Carlos Battle, Alberto Pototschnig, Thomas-Olivier Léautier, Fabien Roques, Leonardo Meeus, Mario Ragwitz, Leigh Hancker, Sergio Ascari and Ilaria Conti.

2. Instructors' Resumes

Jean-Michel Glachant



Jean-Michel Glachant is the **Director of the Florence School of Regulation** and **Holder of the Loyola de Palacio Chair** at the European University Institute (EUI).

He took his Master's degree and Ph.D. in economics at La Sorbonne in France.

He is/has been advisor of DG TREN, DG COMP & DG RESEARCH at the European Commission and of the French Energy Regulatory Commission (CRE).

He is or has been coordinator or scientific advisor of several European research projects (SESSA, CESSA, Reliance, EU-DEEP, RefGov, TradeWind, Secure, Optimate, THINK, Towards 2030,

Promotion). He is a research partner in the CEEPR at MIT (USA), and the EPRG at Cambridge University.

His main research interests are the building of a common European energy policy (security of supply, renewable energy, and climate change policy), the achievement of the European energy internal market (design, regulation and competition policy), the industrial organization and market strategy of energy companies.

He is editor-in-chief of *EEEP: Economics of Energy & Environmental Policy* (an IAEE journal) and a member of the Council of the International Association for Energy Economics. He is also on the editorial board of the journals *Competition and Regulation in Network Industries*, *European Energy*, *Latin-American Economic Review*, *Annals of Public and Cooperative Economics*, and *Revue d'Economie Industrielle*.

Glachant is member of the "EU-Russia Gas Advisory Council" of former European Energy Commissioner Oettinger. He has recently published the books "Building Competitive Gas Markets in the EU" (Edward Elgar, 2013); "the Manufacturing of the Markets" (Cambridge University Press, 2014).

He is extensively tweeting [@JMGlachant](https://twitter.com/JMGlachant) (circa 28K tweets).

Pippo Ranci



Pippo Ranci is Professor of Economic Policy at the Università Cattolica in Milan. His research interests are in regulation and industrial and energy policy.

Until 2008 Pippo was director of the Florence School of Regulation at the European University Institute in Florence.

Before that, he was president of the Italian regulatory authority for electricity and gas for seven years (1996 – 2003), co-founder and vice-president of the Council of

European Energy Regulators (2000-2003), and often a consultant to the Italian government (1972-1993).

He has advised the SESSA project on energy (in the “Scientific Support to Policies” series) promoted by the European Commission and in addition about 30 European Universities plus

a number of industrial stakeholders. He has also worked in non-

profit organisations, setting up the Italian partner in the Johns Hopkins Comparative Non-profit Sector Project (1989-1994).

Jorge Vasconcelos



Jorge Vasconcelos is Chairman of NEWES, New Energy Solutions, a company acting in the field of renewable energy and energy efficiency in Europe.

Consultant to several international organizations and national authorities. Invited Professor at the Technical University of Lisbon.

Alternate member of the Administrative Board of ACER nominated by the European Parliament.

First chairman of the Portuguese Energy Regulatory Authority. Founder and first chairman of the Council of European Energy Regulators. First chairman of the European Regulators’ Group for Electricity and Gas. Co-founder of the Ibero-American Association of Energy Regulatory Authorities.

Founder and member of the Executive Committee of the Florence School of Regulation. Member of several national and international advisory committees on energy matters, including the 2011 EC Advisory Committee on the Energy Roadmap 2050. He graduated in power systems from Porto University and got the Dr.-Ing. degree from the University of Erlangen-Nuremberg.



Mahmoud Ezzaki



Mr. Mahmoud EZZAKI is a graduate from Ecole Polytechnique (class of 2010) and École des Ponts ParisTech. Mahmoud is an engineer at EDF and has worked in the energy sector for 4 years. Mahmoud is involved in cross border capacities exchange mechanisms for trading in day-ahead and intra-day markets in Central Western Europe (France, BENELUX, Germany & Austria).

His work is related to the study and the forecasting of capacity constraints and the impact of renewables insertion in continental Europe. Mahmoud is deeply involved within EDF in the monitoring of network codes related to market designs from their development by the ENTSO-E until their adoption by the European Commission and their

implementation.

Pradyumna Bhagwat



Pradyumna Bhagwat received his Ph.D. in November 2016 at the Delft University of Technology (jointly with KTH-Royal Institute of Technology, Stockholm and the Universidad Pontificia Comillas, Madrid) as part of the Erasmus Mundus Joint Doctorate in Sustainable Energy Technologies and Strategies (SETS) Program. He was also a recipient of the Erasmus Mundus Joint Doctoral Fellowship during this period (2012-2016). His doctoral thesis is titled “Security of supply during the energy transition: The role of capacity mechanisms”. As part of this program he also spent time as a visiting researcher at the Universidad Pontificia Comillas (IIT) in Madrid and at the Johns Hopkins University, Baltimore USA.

Pradyumna has obtained a Bachelors in Mechanical Engineering from the University of Mumbai (2009). Subsequently, he completed the

Erasmus Mundus – European Joint Masters in Management and Engineering of Environment and Energy (ME3) Program in 2011. As part of this program, he studied at the Universidad Politecnica de Madrid (UPM –ETSII), Ecole des Mines de Nantes and KTH-Royal Institute of Technology, Stockholm. At the end of the program he was awarded a M.Sc. degree by each of these universities. Pradyumna conducted his Master’s thesis at Alstom Power AB in Växjö Sweden where he continued to work as a Research Engineer for a brief period after completion of his master’s degree. He gained further industry experience by working as Assistant Manager – Energy Efficiency at IL&FS Environmental Infrastructure & Services Ltd. in New Delhi, India.

Pradyumna’s research has been published as peer-reviewed journal articles, conference papers and as working papers. He has presented his work at various academic events and also to non-academic audiences.

Apostolos Gkizas



Apostolos Gkizas is a graduated Electrical engineer with specialization in Electrical Power Systems. He has attended the postgraduate interdisciplinary studies program in the field of Energy Production and Management in the National Technical University of Athens (NTUA). Additionally, he has attended the “Annual Training on the Regulation of Energy Utilities” organized by the Florence School of Regulation.

Since 2013, he has been working in the RES Department of the Greek Regulatory Authority for Energy (RAE) and among others he is in charge of the evaluation of applications for granting Production Licenses to Wind Farms and the monitoring of their development. Also, he is dealing with RES connection issues to the electricity network and penetration problems especially on the non - interconnected islands.

Moreover, he participated in Working Groups targeting at the reformation of the Greek RES Market in accordance with the “EU State Aid Guidelines for Environment & Energy 2014-2020” and setting out the legal framework for the development of Small Wind Turbines. The last two years he has worked in parallel as an Expert in the context of the EU Twinning Project with Egypt aiming at the support of the Egyptian Energy Agency (EgyptERA) in the fields of RES & Cogeneration Units Licensing and Transmission Planning & Performance.

Prior to his occupation by the Energy Regulator, he has gathered almost 8 years working experience in the development of renewable energy works (mainly wind farms and photovoltaic stations) participating among others in the development of Greenfield projects, the licensing of existing ones, the acquisition of other projects/companies. In this direction, he has faced a broad range of the common obstacles regarding the development of this kind of projects which include first and foremost planning and licensing barriers, technical difficulties, legal framework gaps and lack of community acceptance.

Also, he worked in the construction and operation of a thermal gas fired power plant in Lavrion, Attica and in the Greek Distribution Network Operator, in the department of Construction and Maintenance of Distribution Networks.

Samson Yemane Hadush



Samson Yemane Hadush is a post-doctoral researcher at the Energy Centre of Vlerick Business School, based in Brussels. His work focuses on the policy, regulatory, social and business dimensions of the energy sector. He obtained a PhD from the electrical engineering department of KU Leuven in Belgium. In 2007, he was awarded the Erasmus Mundus scholarship to study Economics and Management of Network Industries, a joint master program offered by the University of Comillas in Spain, TU Delft in the Netherlands and Paris Sud XI in France. He served as a research assistant at the Florence School of Regulation in Italy. TU Delft in the Netherlands and Paris Sud XI in France.

He served as a research assistant at the Florence School of Regulation in Italy. He remains active at Mekelle University in Ethiopia, where he did his undergraduate studies. He is a member of the International Association for Energy Economics, African Renewable Energy Alliance & the expert board of the African Diaspora Network in Europe. He is very passionate about renewable energy and actively follows the developments in the African energy sector and the 'sustainable energy for all' movement. Currently, he is leading the activities of the Energy Centre of Vlerick Business School and the African Diaspora Network in Europe on renewable energy for Africa.

3. Program of the Training

Day 1, October 31, 2017: Electricity Regulation and Markets

Morning:

- 09:00-09:30 **Welcome and general introduction to the program**
Jean-Michel Glachant | Florence School of Regulation
- 09:30-11:00 **Regulation – Goals and Models (1.1)**
Pippo Ranci | Florence School of Regulation
- 11:00-11:30 *Coffee Break*
- 11:30-13:00 **Regulation – Goals and Models (1.2)**
Pippo Ranci | Florence School of Regulation
- 13:00-14:00 *Lunch*

Afternoon:

- 14:00-15:30 **Energy Markets (1.3)**
Jean-Michel Glachant | Florence School of Regulation
- 15:30-16:00 *Coffee Break*
- 16:00-17:30 **Country Case Portugal (1.4)**
Jorge Vasconcelos | New Energy Solutions (NEWES)



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Day 2, November 1, 2017: Integrating Renewables and Grid Tariffs

Morning:

09:30-11:00 **Integrating Renewables & Storage into System Operation (2.1)**

Samson Yemane Hadush | Vlerick Business School

11:00-11:30 *Coffee Break*

11:30-13:00 **Integrating Renewables & Storage into System Operation (2.2)**

Mahmoud Ezzaki | EDF

13:00-14:00 *Lunch*

Afternoon:

14:00-15:30 **Distribution Grid - Investment, Planning and Tariffs (2.3)**

Pradyumna Bhagwat | Florence School of Regulation

15:30-16:00 *Coffee Break*

16:00-17:30 **Country Case Greece: RES Integration in the Greek Electricity System –
Recommendations for Mediterranean Non-EU Countries**

Apostolos Gkizas | RAE and (MEDREG)



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