

## **Master in Global Energy Transition and Governance**

**Academic Year 2018/2019**



## **I. Academic year 2017-2018**

The programme took place in two locations (Berlin and Nice). The programme is composed of 479 hours of teaching and a series of workshops, visits, field trips and other events.

First term in Nice, from October 17, 2018 to January 7, 2019 at the Institut Européen · European Institute, CIFE;

Second term in Berlin, from January 8 to April 5, 2019 at the Studentendorf Schlachtensee, in Berlin;

Third term in Nice, from April 6 to May 14, 2019 at the Institut Européen · European Institute, CIFE;

The defence of the thesis took place at CIFE premises in Nice.

The objective of the Master is to enable the students to comprehend and analyse 1. The international energy governance, the various political changes in different states and the numerous conflicts addressing energy management, supply, and distribution 2. The EU energy challenges and governance both in terms of fossil and renewable energies, 3. The transformations of the national energy strategies towards low carbon economies, 4. The energy market evolutions, and 5. The regional and local low carbon energy strategies. These issues are at the cross-roads of different disciplines of social sciences: political economy, economy, sociology and geography.

The overall understanding of the complexity of the current energy transformations in the world requires a multidisciplinary approach. It is complemented by seminars, workshops and field visits with academic and professional experts in order to link theories and practices. The Master is concluded by one simulation game based on the game prepared by the students of the previous year. The simulation game aims at defining a local energy transition with the different local stakeholders. The conclusion of the programme is based on the defence of a Master's thesis in June.

## **II. Organisation of the programme**

The curriculum is composed of five teaching modules. University teachers, namely from French, German and British universities, experts from International and European organisations as well as researchers contribute to our programme.

### **1. International Energy governance and conflicts**, directed by Prof. François Bafail, CNRS Head of Research (83 hours)

Energy management, its availability, transport and distribution raise the core question of the role and importance of the nation state in relationship with its economic, political or social partners, be they public or private, at the national or the international level. The concern is indeed about the security of supply and to this extent, the core question addresses the nature of the rule: one single rule, rule by law and rule of law. Is one type of rule more efficient than another one to manage the energy sector? To organise the firms? To develop the market? To distribute the resulting profits? And finally to solve the conflicts? In other words, in order to manage the conflicts which are all resulting from issues linked with national sovereignty, we will question to what extent democratic regimes are more efficient than the authoritarian regimes. Is the nationalisation policy more efficient than the privatisation one? Are the supranational regulations more efficient than the national ones? These different questions legitimate the approach in terms of political economy which questions the economic interests of different social groups which support or challenge different political regimes.

**Prof. François Bafail**, CNRS Head of Research, Director of module  
“Energy geopolitics and conflicts”

**Jean-François Di Meglio**, Director Asia Center  
Asian energy challenges

**George Tzogopoulos**, Lecturer in Energy International Relations at the Democritus University of Thrace  
The impact of energy discoveries in Eastern Mediterranean for world politics – Conflicts and negotiations

**Prof. Sébastien Velut**, Professor at the University Paris 3 Sorbonne Nouvelle, Director of the Institute of Latin American Studies  
Latin American energy challenges

**Dr Marc-Antoine Eyl-Mezzega**, Director Energy Centre IFRI  
Russian energy challenges

**Dr Bernd Weber**, Director Industry, Energy, Environment, Wirtschaftsrat der CDU e.V.  
EU Neighbourhood Policy - East and South of the EU

**Dr Marc Valéri**, Associate Professor, University of Exeter  
Energy challenges in Arab countries

**Prof. Eric Verdeil**, Professor, Senior Research Fellow, CERI-Sciences Po  
Energy challenges in the Middle East

**Roberto Cantoni**, PhD, Assistant Professor, Ausburg University  
Renewable energies in Africa

2. **Economic governance of energy**, Dr Laurent BAECHLER, CIFE, Director of the MAEIS (Master), Anglophone branch and Editor-in-chief of “*L’Europe En Formation*” (46 hours)

The aim of this course is to help students understand the logics at work in energy markets, involving demand, supply and price determinants, as well as market structures, so that they can figure out the conditions in which energy transitions such as a switch from fossil fuels to renewables can take place. Another fundamental dimension of this course is the analysis of the objectives and instruments of energy policies aiming at the regulation of energy markets, with a view to understand how governments try to control or orientate market trends in order to facilitate transitions from fossil fuels to renewables, from protected to liberalized markets, from centralized to decentralized markets. All these points will be illustrated by current examples of energy trends and policies at national and international levels. Finally, a focus will be put on the articulation between energy and climate policies, as one of the ultimate goals of energy transition strategies, above energy security and competitiveness, is climate protection.

**Dr Laurent Baechler**, CIFE, Director of the MAEIS (Master), Anglophone branch, Director of the module  
Markets and Regulation and the Economics of Energy Transition

**Mr. Alexander Gusev**, Project Consultant at Mayato GmbH  
Transforming the EU electricity market (emobility, digitalisation, renewables)

**Mr Jean-Christophe Clément**, Director Solutions Smart, Dalkia Smart Building  
Business case

**Mr. Philippe Charlez**, Energy Expert, Total  
Shale gas and oil

**Mr Long Lam**, Managing Consultant at Navigant

**3. Clean energy transitions in the European Union**, directed by Dr Gilles Lepasant, Senior researcher at CNRS, Géographie-Cités (Paris) (70,5 hours)

Energy has been among the most rapidly developing EU areas in recent years, with crucial impacts on utilities, cities, regions, networks and national regulations. The course will debate the factors that drive energy policy decisions in Europe and how security as well as economic and environmental challenges are intertwined in the fabric of the EU energy policy. It will focus on the support provided by the European Union to the clean energy transition. It will highlight factors that influence the definition and the implementation of EU priorities regarding energy transition, thus helping to understand political economy factors that both inhibit and accelerate clean energy transitions in Europe. It will discuss the drivers of the EU's sustainability agenda as well as the political, economic, social and technological challenges that need to be tackled in the course towards a low-carbon energy sector in Europe.

**Dr Gilles Lepasant**, Senior researcher at CNRS, Géographie-Cités (Paris), Director of the module  
The challenges of the EU clean energy transition policy

**Dr Matthias Waechter**, General Director of CIFE  
The political system of the EU

**Gabrielle Heyvaert**, Policy officer  
Confrontations Europe

**Gaspar Demur**, Assistant to the Director General  
European Commission, DG Energy

**Christian Baer**, Secretary General  
Europex

**Dirk Vansintjan**, President  
REScoop.eu

**Emmanuel Tuchscherer**, Director for European Affairs  
Engie

**Jérémie Zeitoun**, Energy Policy Advisor, The Greens  
European Parliament

**Cyril Dewaleyne**, Desk officer  
European Commission DG NEAR

**Guilio Volpi**, Policy coordinator  
European Commission DG Energy

**Eva Chamizo Llatas**, Director of European Affairs, Head of the Brussels Office  
Iberdrola

**Giustino Piccolo**, Project Manager  
Covenant of Mayors

**Joachim Balke**, Member of Cabinet of the Commissioner for Climate Action and Energy  
European Commission, Cabinet of the Commissioner

**Bogdan Popescu**, Energy Attaché  
Permanent Representation of France to the EU

**Laurent Jammes**, YBL Consulting

The hydrogen economy

The possible role of subsurface engineering sectors in the ecological transition - the issue of « social acceptability"»

4. **Local energy governance**, directed by Dr Rachel Guyet, Research fellow at CERI-SciencesPo  
(74 hours)

Energy transition means deep social, political and economic transformations that affect local territories in Europe. The role they can play highly depends on the sectoral and political governance system of each European country. The course deals with the new challenges faced by the local actors to deliver a range of adequate services in the framework of energy transition. It also addresses the way decision processes are made at different levels of governance. Finally energy transition also questions the capacity of local actors to find a way to share the benefits of energy transition with all the communities, including the fuel poor people. This question is also a key to understand how energy transition enables poor remote populations to get access to electricity in emerging countries, thus considering the social dimension of energy transition both in developed as well as in emerging countries.

**Dr Rachel Guyet**, Research fellow at CERI-SciencesPo, Director of module

The tension lines of the energy transition at local level: challenges and opportunities

The social dimension of energy transition

**Ms Franca Diechtl**, Project Director Deutsche Energie - Agentur GmbH (dena)

The role of dena and the challenges of energy transition in Germany

**Mr Olaf Ziemann**

50Hertz, TSO

**Ms Katja Trippel**, Freelance reporter on climate and environmental issues

**Ms Margit Renatus**, Architect in charge of the renovation project

**Mr Markus Hirschmüller**, Architect of the Passivhaus

Visit of the Stadtquartier Friesenstraße (energy efficiency and renewable heating systems)

**Mr Jasper Eitze**, Coordinator of Energy, Climate and Environmental Policy

Konrad-Adenauer-Stiftung: Position on the Energiewende

**Mr Benjamin Dannemann**

DGRV, the role of energy cooperatives and citizens in the German energy transition

**Katharina Goergens**, Berlin Senate, department of economy, energy and companies

Berlin energy transition strategy

**Mr Jean-Christophe Clément**, Director Solutions Smart, Dalkia Smart Building

Regulations and technologies of smart grid systems

Show Room Nice Smart Valley, Enedis

Schneider Horizon (smart grid, building)

National and local smart grids projects and replicability

Business case

**Mr Xavier Carlioz**, Energy sector manager, Chamber of commerce and industry, Nice Côte d'Azur  
How to support local energy dynamics?

**Mr Maxime Cacciutolo**, MEDNICE Project, City of Nice, Euromed Cities Network  
EU funding for local energy or climate projects

5. **Project Cycle Management**, directed by Mr Emre Gür, CIFE representative in Istanbul (23 hours)

The Project Cycle Management Course is designed to provide students with a practical knowledge of the management methods, skills and tools for projects and programmes of International Institutions, NGOs or similar bodies. We mainly focus on Project Cycle Management and Logical Framework Approach which is one of the management methods widely used at the planning, implementing and evaluating stages of most of projects. Some important concepts for project formulation such as participatory development, ownership by stakeholders, institutional development, gender issues, environmental aspects and appropriate technology are discussed.

**Mr Emre Gür, CIFE representative in Istanbul**

Getting to EU and international funding

Principles from Project Management

Case study implementation

6. **Negotiation techniques and simulation game**, directed by Mark Young, President of Rational Games (11 hours)

This course is divided into two parts. The first one introduces the techniques of negotiation. Considering the fact that the energy sector is faced with an increasing number of stakeholders involved in the elaboration of energy strategies and policies, it is a key to know how to negotiate and to understand the individual issues and interests of each actor around the negotiation table. In this workshop students will learn how to fix objectives and alternatives to create the basis of a good negotiation strategy. They will learn how to plan strategies by individual issues.

The second part aims at implementing the techniques acquired in a simulation game. This year simulation game is based on the game prepared by the cohort of Energy students of the academic year 2016-2017. Considering, the increasing number of cities and towns in the world get involved into the elaboration of their local energy transition strategy, the students of last year have prepared a simulation game based on a multistakeholder negotiation at local level in order to reach a compromise on the content of a local energy strategy.

**Mark Young, President of Rational Games**

Introduction to the negotiation techniques

Together with Dr Rachel Guyet for the simulation game

7. **Methodological workshops**, directed by Prof. François Bafoil, CNRS Senior Research Fellow, Dr Rachel Guyet, Research fellow, CERI-SciencesPo (111,25 hours)

The individual research work is a highly important element of the Master's programme. Students should devote the time which is free of classes to their research. The research for the Master theses is coordinated by the supervisors. At the beginning of the year the students receive a list with topics

proposed by the faculty from which they can choose their topic. The students can also propose a subject of their own choice to the teachers, who then decide whether they can advise the student on the topic or not. As soon as the subject is defined, each student gets assigned to a supervisor, who accompanies the work throughout the year and regularly on the basis of collective workshops and individual meetings. Supervisors will be at the disposal of the students during the writing of the thesis in the summer. The methodological part of the course will be organised in workshops 1. For the supervisors to deliver the methodological tools necessary 2. For the students to present the progress they made on their work on The thesis must have a length of around **17,000 words** (excluding the bibliography and the appendixes). The working language allowed is English. It was delivered by email to the supervisors on **June 12**. The theses were defended on **June 18, 19 and 20, 2019**.

#### 8. **Professional coaching** (23 hours)

The Energy master programme offers some job support in the form of a professional coaching to help students better define their career project and get the adequate tools to organise their job research more efficiently (resume, letter of motivation, job boards etc.). This takes place in the form of collective workshop and individual coaching.

**Ms Margot Chevignard**, Professional Coach  
Job support – collective workshop & individual coaching

#### 9. **Languages courses**

French (Nice)

**Ms Anne Topenot**, *Alumna, promotion 2004/2005* (4 hours)

**Ms Noémie Longin**, *Student services Manager* (16 hours)

German (Berlin) (14 hours)

**Ms Katja Schwarzbach**, *Language trainer German / French*

### III. **Other workshops, events and field visits**

#### *Workshops*

**Mr Lukas Bieber**, Consultant, CONCILIUS AG (2 hours)  
Public affairs in the energy sector

**Ms Jelena Vasic**, European Commission DG Connect (1,5 hours)  
Digital Single Market

*Field visits and study trips*

**Visit of Monaco National Pact of energy transition + meeting with 3 start ups: solar PV, electric boats and energy efficiency (November 30, 2018)**



**Visit of TenneT Virtual Vision, Berlin (January 9, 2019)**





**One study trip to Cluj, Romania (February 18-22, 2019)**



**One study trip to the EEX in Leipzig (February 27-28, 2019)**



**Visit of Feldheim, a 100% renewable energy village (March 6, 2019)**



**Visit of Euref-Campus (March 27, 2019)**



**One study trip to Brussels (April 1-5, 2019)**



**Visit of the Reichstag glass dome, Berlin (March 26, 2019)**



**Visit of the Show Room Nice Smart Valley, Enedis (April 18, 2019)**



**Visit of Schneider Horizon (smart grid, building) in Carros (April 18, 2019)**

**Visit of the Tricastin nuclear power plant (April 25, 2019)**

