

Master in Global Energy Transition and Governance



2018/2019

**ACADEMIC
REPORT**

I. Academic year 2018-2019

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
Carbon markets

3. Clean energy transitions in the European Union, directed by Dr Gilles Lepesant, 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 Lepesant, 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 Carlloz, 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 Bafail, 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 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)

