

Master in Global Energy Transition and Governance

Academic Year 2017/2018



I. Academic year 2017-2018

The programme took place in two locations (Berlin and Nice). The programme is composed of 537 hours of teaching and a series of workshops, visits, field trips and other events.

First term in Nice, from October 17, 2017 to January 7, 2018 at the Institut Européen · European Institute, CIFE;

Second term in Berlin, from January 8 to April 4, 2018 at the Studentendorf Schlachtensee, in Berlin;

Third term in Nice, from April 5 to May 4, 2018 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 (100 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”

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

Jean-François Di Meglio, Director Asia Center
Seminar on populism and energy policies in Asia
Asian energy challenges

Ferenc Fodor, EDF R&D
Seminar on populism and energy policies in Hungary / Latin America / Russia

Prof. Sébastien Velut, Professor at the University Paris 3 Sorbonne Nouvelle, Director of the Institute of Latin American Studies
Seminar: populism and energy politics in Latin America
Latin American energy challenges

Dr Marc-Antoine Eyl-Mezzega, Director Energy, IFRI
Seminar on populism and energy policy in Russia
Russian energy challenges

Prof. Eric Verdeil, Professor at Sciences Po, Senior Research Fellow, CERI-Sciences Po
Seminar on populism and energy policy in the Middle East countries
Energy challenges in the Middle East

Dr Marc Valéri, Associate Professor, University of Exeter
Seminar on populism and energy policy in Arab countries
Energy challenges in Arab countries

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

Roberto Cantoni, PhD, Assistant Professor, Ausburg University
History of shale gas
Energy transition in North 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*" (64 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. Philippe Charlez, Energy Expert, Total

Shale gas and oil

Mr. Alexander Gusev, Project scientist at the Institute for Advanced Sustainability Studies (IASS) in Potsdam, Germany

Transforming the EU electricity market (emobility, digitalisation, renewables)

Mr Jean-Christophe Clément, Project manager, Capénergies

A business case: presentation of the solar business case by the students

Mr Long Lam, Managing Consultant at ECOFYS

Carbon markets

3. **Clean energy transitions in the European Union**, directed by Dr Gilles Lepasant, Senior researcher at CNRS, Géographie-Cités (Paris) (59 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

Laurent Jammes, YBL Consulting

Hydrogen: at the heart of energy transition in territories

Andrew Georgiou, Political Affairs Manager

E. ON

Anna Jarosz, Head of Unit

European Commission, DG Competition

Cyril Dewaleyne, Energy and Climate Change Programme Manager; Unit NEAR B2- Regional Programmes Neighbourhood South

European Commission, DG Neighbourhood and Enlargement Negotiations

Kristina Jankovich (ENER B.2)

European Commission, DG Energy, Market Design

Jan Steinkohl (ENER C.1)

European Commission, DG Energy, Renewable Energy

Timothee Noel (ENER C.3)

European Commission, DG Energy, Energy Efficiency

Jeffery Piper (ENER A.3)

European Commission, DG Energy, International Aspect of the EU Energy Policy

Benjamin Wilhelm, Public Affairs Advisor – Political Communication

Wind Europe

Joachim Balke, Member of Cabinet of the Commissioner for Climate Action and Energy Miguel Arias Cañete

European Commission, DG Energy / DG Climate Action

Jérémie Zeitoun, Energy Policy Advisor to MEP Claude Turmes, The Greens/EFA

European Parliament

Edward James Smith, Energy Attaché

The Permanent Representation of Denmark to the EU

Emmanuel Tuchscherer, Director for European Affairs

Engie

4. **Local energy governance**, directed by Dr Rachel Guyet, Research fellow at CERI-SciencesPo (86 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

Maxime Cacciutolo, MEDNICE Project, City of Nice

Efficiency in public building: towards a Med Community

Energy efficiency in public building: the challenge of a local governance

Laurent Jammes, YBL Consulting

Hydrogen: at the heart of energy transition in territories

Dr Victor Osu, Researcher Robert Gordon University, Aberdeen

How and to what extent has energy governance affected the broader context towards access to energy delivery: a case for transition management?

Dr. phil Jan Beermann, Environmental Policy Research Centre (FFU), Freie Universität Berlin

Acceptance of renewable energy deployment in the German population

Jasper Eitze, Coordinator, Energy, Climate and Environmental Policy; Team Political Dialogue and Analysis

Konrad-Adenauer-Stiftung: Position on the Energiewende

Katharina Goergens, Senatsverwaltung für Wirtschaft, Energie und Betriebe Berlin, III A 14 – Referat Energie

The Berlin experiences in the energy policy

Dr Andreas Wieg, Head of Department, DGRV (German energy cooperative federation)

The movement of the German Energy Cooperatives in the Energy Transition

Ms Amy Gray, Senior Sustainable Development Officer

The development of the energy strategy of Aberdeen

Ms Franca Diechtl, Project Director, International Cooperation

Deutsche Energie - Agentur GmbH (dena)

Dr. Stephan Krieger, Sonderbeauftragter Internationale Beziehungen

Bundesverband der Energie - und Wasserwirtschaft (BDEW)

Mr Jean-Christophe Clément, Project manager, Capénergies

Presentation of smart and flex grid projects: an introduction

The elaboration of a business plan for a solar project

Mr Xavier Carlioz, Energy sector manager, Chamber of commerce and industry, Nice Côte d'Azur

The construction of energy sector at regional level

5. **Project Cycle Management**, directed by Mr Emre Gür, CIFE representative in Istanbul (20 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 (13,5 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. Smart decision, by Cornelius Schaub, Co-founder and CEO, Decision Institute; Head of Consulting and Business Development, PHINEO (7 hours)

The ability to make effective decisions, design comprehensible decision processes and to understand and manage risk on issues in business and policy is a crucial skill for executives / managers. More than 25 years of applications in decision and risk analysis have shown that building up decision capability enables you to:

- establish strategic priorities in programs and make more effective use of resources,
- better deal with conflicting objectives,
- effectively combine rational thinking and gut feeling in your decision making,
- manage risk and uncertainty effectively,
- gain commitment to the effective implementation of decisions by including internal and external stakeholders systematically in the decision process, and
- communicate more effectively with stakeholders about decisions and risks.

This course cuts across several of the most important decision areas which managers across sectors face: allocate scarce program or project budgets in different business units or policy areas; make trade-offs between financial/economic, ecologic and social objectives; evaluate strategic options taking into account conflicting objectives; decide when confronted with uncertainties...

8. Methodological workshops, directed by Prof. François Bafail, CNRS Senior Research Fellow, Dr Rachel Guyet, Research fellow, CERI-SciencesPo (79,5 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 15**. The theses were defended on **June 27, 28 and 29, 2018**.

9. Professional coaching (45 hours)

The Energy master programme offers some job support in two forms:

- 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.
- a professional coaching to help students create the start-up in the energy sector they plan to organise

Ms Margot Chevignard, Professional Coach

Job support – collective workshop & individual coaching

Mr Christian Guicherd, Responsible for entrepreneurship projects for Grenoble engineer schools

Coaching for the creation of a start-up

10. Languages courses with other Master programmes

French (Nice)

Ms Anne Topenot, *Alumna, promotion 2004/2005*(13.5 hours)

Ms Roxanne Berry, *French teacher* (9 hours)

Ms Noémie Longin, *CIFE trainee 2017* (12 hours)

German (Berlin) (23 hours)

Ms Lea Freudenberg, *CIFE trainee 2018*

III. Other workshops, events and field visits

Workshops

Mr Lukas Bieber, Consultant, CONCILIUS AG (2 hours)

The political engineering in the context of general elections in Germany

Mr Steve Bi, Research Assistant, Potsdam Institute for Climate Impact Research (3 hours)

Transport policies in the energy transition

Field visits and study trips

One study trip to the EEX in Leipzig (February 13-14, 2018)



Visit of Feldheim, a 100% renewable energy village (March 1, 2018)



One study trip to Brussels (March 19-23, 2018)



Visit of the Reichstag glass dome, Berlin (March 26, 2018)



Visit of TenneT Virtual Vision, Berlin (March 27, 2018)



Visit of the Tricastin nuclear power plant (April 19, 2018)



Visit of the positive energy site Les Aqueducs Sophia Antipolis and meeting Mr Christophe Brun, Development Director, Valenergies (April 25, 2018)