

Master in Global Energy

Transition and Governance

Academic Year 2019/2020



ANNUAL REPORT



1 OVERVIEW

The 2019/2020 programme of CIFE's Master in Global Energy Transition and Governance was composed of a diverse group of 13 students from 11 different nationalities. The itinerant programme offered students intensive courses in Nice and Berlin over three terms extending from 8 October 2019 to 26 June 2020. Afterwards, students were given the option of continuing their training with an internship of 3 to 6 months. The following table represents the timetable of the programme:

Dates	Location
08/10/2019 – 12/12/2019	NICE Institut Européen • European Institute
06/01/2020 – 27/03/2020	BERLIN* Studentendorf Schlachtensee
30/03/2020 – 03/04/2020	STUDY TRIP** (Brussels)
06/04/2020 – 26/06/2020	NICE* Institut Européen • European Institute
26/06/2020	End of the academic year & graduation ceremony
After the academic year	Optional Internship

The objective of the Master is to enable the students to comprehend and analyse:

- 1) International energy governance, the various political changes in different states and the numerous conflicts addressing energy management, supply and distribution;
- 2) The EU's energy challenges and governance both in terms of fossil and renewable energies;
- 3) The transformations of national energy strategies towards low carbon economies;
- 4) Energy market evolutions; and
- 5) Regional and local low-carbon energy strategies.

These issues are at the crossroads 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 practice, as well as a simulation game based on an energy conflict. The simulation game aims to define 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.

* Due to the Covid-19 pandemic, classes were held online from mid-March and throughout the whole final trimester. Most students therefore had to return home from Berlin in mid-March and were unable to travel to Nice for the final trimester.

** The study trip to Brussels also had to be cancelled for the same reasons. However, we are very grateful that the experts we were supposed to meet in person in Brussels agreed to hold their presentations virtually. We missed the flavour of Brussels but nonetheless had insightful discussions with the experts of European energy policy.

2 ORGANISATION OF THE PROGRAMME

THE MODULES

The curriculum was composed of five compulsory modules:

- A** International Energy Governance and Conflicts
- B** Economic Governance of Energy
- C** Governance of Clean Energy Transitions in the European Union
- D** Local Energy Governance
- E** Professional Skills and Methodology

The speakers were European academics, practitioners and experts in specific fields of energy. Various teaching methods and course formats were applied within each module.

A International Energy Governance and Conflicts (73 hours)

Module Director: François BAFOIL *CNRS Head of Research*

Energy management, its availability, transport and distribution raise the core question of the role and importance of the nation state in relation to 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 to national sovereignty, we questioned to what extent democratic regimes are more efficient than the authoritarian regimes. Is the nationalisation policy more efficient than the privatisation one? Are supranational regulations more efficient than 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.

TRIMESTER 1: NICE (29 ½ hours)

François BAFOIL

- International Energy Governance and Conflicts
- Business Models (with Rachel GUYET)

Quentin BOULANGER *Energy Consultant*

- The Geopolitical and Local Challenges of the Energy Community

George TZOGOPOULOS *Begin Sadat Centre for Strategic Studies (BESA) Research Associate, Lecturer at the Democritus University of Thrace, Senior Research Fellow at CIFE*

- The New Energy Landscape in the Eastern Mediterranean

Matthias WAECHTER *Director General of CIFE, Director of IE-EI*

- International History of the 20th Century

TRIMESTER 2: BERLIN (24 ½ hours)

François BAFOIL

- International Energy Governance and Conflicts
- Business Models (with Rachel GUYET)
- Nuclear Accidents: Three Mile Island, Chernobyl and Fukushima
- Energy Conflicts in the Middle East

Marc-Antoine EYL-MEZZEGA *Director of Energy Centre IFRI*

- Eurasian Energy Market and Policy Dynamics: Trends Since 1990 and Perspectives After the Paris Agreement on Climate

Cristiano FRANCESE *Proposal Manager at E.ON*

- Digitalisation in the Energy Industry and Business Model

Marc VALÉRI *Associate Professor at the University of Exeter*

- Energy Challenges in Arab Countries

TRIMESTER 3: ONLINE (12 hours)

François BAFOIL

- South East Asia
- Conclusions on the Business Models (with Rachel GUYET)

Roberto CANTONI *PhD, Assistant Professor at Augsburg University*

- Short History of Nuclear Energy
- Renewable Energies in Africa

Jean-François DI MEGLIO *Director of Asia Centre*

- Chinese Energy Challenges in the Face of the Consequences of the Health Crisis

Bernd WEBER *Director of Industry, Energy, Environment at the Wirtschaftsrat der CDU e.V.*

- The Impacts of Covid-19 on the German Energy Transition



B Economic Governance of Energy (45 ½ hours)

Module Director: Laurent BAECHLER *Director of the MAEIS European Integration and Global Studies, Chief Editor of L'Europe en Formation*

The aim of this course was 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 could 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 was 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 liberalised markets, from centralised to decentralised markets.

All these points were illustrated by current examples of energy trends and policies at national and international levels. Finally, a focus was 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.

TRIMESTER 1: NICE (18 hours)

Laurent BAECHLER

- Economic Governance of Energy

Philippe CHARLEZ *Energy Expert at Total*

- Energy Transition and Shale Gas

TRIMESTER 2: BERLIN (12 ½ hours)

Laurent BAECHLER

- Economic Governance of Energy

Alexander GUSEV *Project Consultant at Mayato GmbH*

- Transforming the EU Electricity Market (E-Mobility, Digitalisation, Renewables)

Daniel WRAGGE *Director of Political and Regulatory Affairs at EEX*

- EEX and Energy Trading (with Laurent BAECHLER)



TRIMESTER 3: ONLINE (15 hours)

Laurent BAECHLER

- Economic Governance of Energy
- Oral Presentations

Long LAM *Managing Consultant at Navigant*

- Carbon Markets

C Governance of Clean Energy Transitions in the European Union (53 hours)

Module Director: Gilles LEPESANT *Senior Researcher at CNRS, Géographie-Cités, Paris*

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 debated 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 focused on the support provided by the European Union to the clean energy transition. It highlighted factors that influence the definition and the implementation of EU priorities regarding energy transition, thus helping to understand political economic factors that both inhibit and accelerate clean energy transitions in Europe. It discussed 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 race towards a low-carbon energy sector in Europe.

TRIMESTER 1: NICE (20 hours)

Gilles LEPESANT

- Governance of Clean Energy Transitions in the European Union

Matthias WAECHTER *Director General of CIFE, Director of IE·EI*

- The Political System of the European Union



TRIMESTER 2: BERLIN (21 hours)

Gilles LEPESANT

- Governance of Clean Energy Transitions in the European Union

TRIMESTER 3: ONLINE (12 hours)

Laurent JAMMES YBL Consulting

- The Hydrogen Economy
- The Possible Role of Subsurface Engineering Sectors in the Ecological Transition: The Issue of “Social Acceptability”

Virtual Study Trip to Brussels (see Section 4)

D Local Energy Governance (59 ½ hours)

Module Director: Rachel GUYET *Director of the Master in Global Energy Transition and Governance, Research Fellow at CERI-Sciences Po*

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 dealt with the new challenges faced by the local actors to deliver a range of adequate services in the framework of energy transition. It also addressed 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 fuel poor people. This question was also a key to understanding how energy transition enables poor remote populations to gain access to electricity in emerging countries, thus considering the social dimension of energy transition both in developed as well as in emerging countries.

TRIMESTER 1: NICE (18 ½ hours)

Rachel GUYET

- Local Energy Governance
- Business Models (with François BAFOIL)

TRIMESTER 2: BERLIN (29 hours)

Rachel GUYET

- Local Energy Governance
- Analysis of a Local Energy Strategy
- Drafting a Local Energy Strategy
- Business Models (with François BAFOIL)

Lukas BIEBER *BDEW (German Association of Energy and Water Industries)*

- Introduction to the German Association of Energy and Water Industries (BDEW): Insights from the Grid Department

Franca DIECHTL *Project Director at Deutsche Energie – Agentur GmbH (dena)*

- The Challenges of the German Energy Transition from the Perspective of an Independent Energy Body

Jasper EITZE *Coordinator of Energy, Climate and Environmental Policy at Konrad Adenauer Stiftung*

- A Perspective on the German Energy Transition

Cristiano FRANCHESE *Proposal Manager at E.ON*

- Group Discussion with a Business Model Expert

Katharina GOERGENS *Senate of Berlin, Department of Economy, Energy and Companies*

- The Solar Energy Policy of the Senate of Berlin

Simon HEINKE *Project Manager at DGRV (Federation of German Energy Cooperatives)*

- The Role of Energy Communities in the German Energy Transition

Christophe RINKE *Bürgerenergie*

- Presentation of the Bürgerenergie Berlin

Daniela SETTON *IASS*

- Social Sustainability Barometer of the German Energy Transition

Olaf ZIEMANN *50 Hertz, TSO*

- Grid Operation and Management in the Times of Energy Transition

Winter School (See Section 4)

TRIMESTER 3: ONLINE (12 hours)

Rachel GUYET

- Energy Poverty: What Are We Talking About?
- Final Presentations and Discussions (with François BAFOIL)

Jean-Christophe CLÉMENT *Director of Smart Solutions at Dalkia Smart Building*

- Regulations and Technologies of Smart Grid Systems and Local Smart Grid Projects
- Business Case Study

Online Workshop: Energy Poverty and the Energy Transition with:

Neil CLAPPERTON *Grampian Housing Association*

Marie-Maud GÉRARD *GERES*

Florian HANKE *Viadrina University*





E Professional Skills Workshops (68 ¼ hours)

Module Director: Rachel GUYET *Director of the Master in Global Energy Transition and Governance, Research Fellow at CERI-Sciences Po*

The Project Cycle Management Course was 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 focused on Project Cycle Management and the Logical Framework Approach, which is one of the management methods widely used at the planning, implementing and evaluating stages of most projects. Some important concepts for project formulation such as participatory development, ownership by stakeholders, institutional development, gender issues, environmental aspects and appropriate technology were discussed.

TRIMESTER 1: NICE (32 hours)

Rachel GUYET

- Presentation of the Module
- Methodology: Oral Presentation and Papers
- Methodology: Thesis
- Skills Presentation

Nina FRAUENFELD *Executive Director, SuccessAcross*

- Intercultural Team-Building Workshop
- Tips for Job Search

TRIMESTER 2: BERLIN (29 ¾ hours)

Rachel GUYET

- Skills Presentation

Nina FRAUENFELD

- Individual Career Coaching Session

Mehmet Emre GÜR

- Project Cycle Management

Mark YOUNG *Negotiation Trainer, President of Rational Games, Inc.*

- Negotiation Techniques

TRIMESTER 3: ONLINE (6 ½ hours)

Mark YOUNG

- Negotiation Simulation Game

3 INTERMODULAR COURSES

Conferences

- Opening Speech of the Academic Year: The EU and the World in the Storm by **Herman VAN ROMPUY** *President of CIFE, Former President of the European Council and Former Prime Minister of Belgium*
- The 17th Annual Energy Forum: Energy Transition and European Financing
- NATO Conference: The Importance of the South: NATO and Questions of Security

Language Courses

- French (Nice) with **Anne TOPENOT** *Communication and Leadership Trainer*
- French (Berlin) with **Katja SCHWARZBACH** *Language Tutor*
- German (Berlin) with **Katja SCHWARZBACH**

Other

- Thesis Methodology and Individual Thesis Meetings throughout the year



4 STUDY TRIP AND OTHER VISITS

Study Trip to Brussels

A study trip to Brussels from 30 March to 3 April 2020 was planned. Yet, due to the outbreak of the Covid-19 pandemic in Europe in March 2020, the study trip unfortunately had to be cancelled. However, we are very grateful that the experts we were supposed to meet in person in Brussels agreed to hold their presentations virtually. We missed the flavour of Brussels but nonetheless had insightful discussions with the experts of European energy policy. The following talks took place:

Joachim BALKE *Head of Unit at DG Energy*
Energy Cross-Border Infrastructures in the EU

Naomi CHEVILLARD *Policy Advisor at Solar Power Europe*
The role of Solar Power Europe to promote the sector at EU level

Cyril DEWALEYNE *Desk Officer at DG NEAR European Commission*
Cooperation with Southern Neighbourhood Countries in the Fields of Climate Change and Energy

Divia HOBSON *Strategic Analyst at Joule Assets Europe*
Alternative Financing Solutions for Renewable Energy and Energy Efficiency Projects

Niels LADEFOGED *Administrator at DG Energy*
Energy Efficiency Policies in the EU and Denmark

Stela NENOVA *Policy Senior Specialist at Stela Nenova*
The Role of ENTSO-E and the Challenges of the European Energy Market

Petya PISHMISHEVA *Capacity Building Officer at Covenant of Mayors*
Approach to Develop a Sustainable Strategy at City Level, at EU Level and in the World

Bogdan POPESCU *Energy Attaché at the Permanent Representation of France to the EU*
Perspectives and Challenges of the Clean Energy Package for France

Pierre TARDIEU *Chief Policy Officer at Pierre Tardieu*
Policy Outlook for Wind Energy

Dirk VANSINTJAN *President at REScoop.eu*
The Role of Cooperatives in the European Energy Transition

Jérémie ZEITOUN *Energy Attaché at the Permanent Representation of Luxembourg*
Clean Energy Package

Other Visits

NICE

- Guided tour of the Museum of Fine Arts in Nice on 27 November 2019
- Visit to Energy Transition Department in Monaco on 2 December 2019

BERLIN

- Guided tour of the Staatsbibliothek with **Christina RODE** on 8 January 2020
- City Tour of Berlin on 8 January 2020
- Visit of the Dome of the Reichstag on 8 January 2020
- Winter School: Just Transition and Energy Vulnerabilities in Germany with students from Babes Bolyai University of Cluj from 28 January to 1 February 2020
 - World Café
 - Meeting with Berliner Energieagentur
 - Meeting with IGBCE (Mining Trade Union)
 - Field Visit to Feldheim
 - Field Visit to Lausitz Mine
 - Meeting with Weltzow Local Authority
- Tennet Visit of Tennet 3D Showroom on 28 February 2020



5 MASTER'S THESIS RESEARCH TOPICS

Ayman ARIBOU (Morocco)

Rethinking Energy Programmes in Sub-Saharan Africa: Energy Emancipation

Iris-Laure BOISSIERE (France / United States)

Hydrogen in France

Daniel CHARRO (Ecuador)

Energy Transition in Oil Driven Economies: The Case Study of Ecuador to Evaluate Potential Strategies through the World Energy Trilemma Index

Wanze CHEN (China)

China and OBOR as Part of a New Global Energy Strategy

Sebastian CURINAO (Chile)

Energy 2050: An Assessment of the Chilean Energy Policy

Tugçe DEMIRSÖZ (Turkey / Cyprus)

The Natural Gas's Effect on Cyprus's Balancing Powers: A Way Forward

Giacomo FRANCO (Italy)

The Governance of Nuclear Phase-Out in Europe: Italy, Germany and France: A Comparison

Axelle GALLERAND (France)

Transport Poverty: From Finding Definitions and Representation to Local Actions in European Cities

Mirkelam Ensar KARATAS (Turkey)

Modelling Energy Access in Africa

Karn KEDAR (India)

Evaluation of India's Policy Options of the Chinese Impact on the Indian Solar Market in the Period of 2019–2024

Mohamed OUNI (Tunisia)

The Blockchain from the Energy Perspective

Fabio PASSARO (Italy)

Lobbying in Brussels: Recent Trends and Changes within the Energy Sector

Alexsandra SOLHEIM (United States)

The Politics and Economics of American-European Energy Relations: A Case Study of Iberdrola





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