

**Master in Global Energy  
Transition and Governance**

**Academic Year 2021/2022**



**ANNUAL REPORT**





# 1 OVERVIEW

The 2021/2022 programme of CIFE's Master in Global Energy Transition and Governance was composed of a diverse group of 17 students from 13 different nationalities. The itinerant programme offered students intensive courses in Nice and Berlin over three terms extending from 5 October 2021 to 30 June 2022. Afterwards, students were given the option of continuing their training with an internship of 2.5 to 3 months. The following table represents the timetable of the programme:

Dates	Location
05/10/2021 – 17/12/2021	<b>NICE</b> Centre international de formation européenne (CIFE)
12/01/2022 – 25/03/2022	<b>BERLIN</b>
28/03/2022 – 31/03/2022	<b>VIRTUAL STUDY TRIP</b>
04/04/2022 – 11/05/2022	<b>NICE</b> Centre international de formation européenne (CIFE)
03/05/2022 – 04/05/2022	<b>STUDY TRIP TO AIX-EN-PROVENCE</b>
30/06/2022	<b>End of the Academic Year &amp; Graduation Ceremony</b>
Until 30/09/2022	<b>Optional Internship</b>

The objective of the Master was 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, economics, sociology and geography.

The overall understanding of the complexity of the current energy transformations in the world required a multidisciplinary approach. It was 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 with multilateral negotiation rounds.

The subjects treated were inevitably influenced by the consequences on the energy transition process as a result of the two recent major crises: the Covid-19 pandemic and the Russian invasion of Ukraine.

The conclusion of the programme was based on the defence of a Master's thesis in June.



# 2 ORGANISATION OF THE PROGRAMME

## THE MODULES

The curriculum was composed of four academic modules related to the subject of energy transition and three professional skills and research modules:

### ACADEMIC MODULES

- A** International Energy Governance and Conflicts
- B** Economic Energy Governance and Markets
- C** Governance of Clean Energy Transitions in the European Union
- D** Cities and Citizens in the Energy Transition Process

### PROFESSIONAL SKILLS AND RESEARCH MODULES

- E** Negotiation Skills
- F** Project Cycle Management
- G** Research

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

## ACADEMIC MODULES

### A International Energy Governance and Conflicts (78 ½ hours)

**Module Director:** François BAFOIL *CNRS Senior Research Fellow, CERI Sciences Po*

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. Particular attention was given to the recent events provoked by the Russian invasion of Ukraine.

### TRIMESTER 1: NICE (31 hours)

**François BAFOIL**

- International Energy Governance and Conflicts

**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 Region

### TRIMESTER 2: BERLIN (25 ½ hours)

**François BAFOIL**

- International Energy Governance and Conflicts

**Roberto CANTONI** *Research Fellow, University of Sussex*

- The Challenges of the Nuclear Energyeconomic

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

- Eurasian Energy Market and Policy Dynamics: Perspectives After the Paris Agreement on Climate and COP26

**Marc VALERI** *Associate Professor at the University of Exeter*

- Energy Challenges in Persian Gulf Monarchies

**Sébastien VELUT** *Professor at the University of Paris 3 – Sorbonne, Director of the Institute of Latin American Studies*

- Energy Challenges in Latin America

### TRIMESTER 3: NICE (22 hours)

**François BAFOIL**

- International Energy Governance and Conflicts

**Roberto CANTONI**

- Energy Transition in Africa and Climate Justice

**George TZOGOPOULOS**

- The Energy Challenges in China



## B Economic Energy Governance and Markets (60 hours)

**Module Director:** Laurent **BAECHLER** *Director of the MAEIS European Integration and Global Studies*

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 Energy Governance and Markets

**Philippe CHARLEZ** *Energy Expert at Total*

- Energy, Growth and Climate

### TRIMESTER 2: BERLIN (22 hours)

**Laurent BAECHLER**

- Economic Energy Governance and Markets

**Cristiano FRANCESE** *Project Manager and Senior Energy Consultant, EON*

- Digitalisation and New Business Models

**Alexander GUSEV** *Senior Data Engineer at ClusterReply*

- EU Gas and Electricity Markets in Transition

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

- EEX Berlin – Electricity, CO<sub>2</sub> and Hydrogen

**Roman ZYUZEV** *Senior Professional at EEX*

- EEX Berlin – Electricity, CO<sub>2</sub> and Hydrogen

### TRIMESTER 3: NICE (20 hours)

**Laurent BAECHLER**

- Economic Energy Governance and Markets
- Oral Presentations

**Lina LI** *Senior Manager, Adelphi*

- Emissions Trading System (ETS) and Carbon Markets

## C Clean Energy Transitions in the European Union (45½ 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 (27 hours)

**Gilles LEPESANT**

- Governance of Clean Energy Transitions in the European Union

**Julie METTA** *PhD Candidate at KU Leuven*

- The Climate Fresk
- Circular Economy

**Matthias WAECHTER** *Director General, CIFE*

- Political System of the European Union

### TRIMESTER 2: BERLIN (14 hours)

**Gilles LEPESANT**

- Governance of Clean Energy Transitions in the European Union

### TRIMESTER 3: NICE (4½ hours)

**Laurent JAMMES** *CNRS-INSU, Scientific Deputy Director, Industrial Relations*

- The Hydrogen Economy





## D Cities and Citizens in the Energy Transition Process (102 hours)

**Module Director:** Rachel GUYET *Director of the Master in Global Energy Transition*

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 (40 hours)

**Rachel GUYET**

- Cities and Citizens in the Energy Transition Process
- Just Transition Preparation Time
- Just Transition Workshop: World Cafe
- The COP26 of the Cities
- Just Transition Workshop

**Marwan EL RHAYTI** *CEO, Planet +*

- The Challenges of the French Solar Energy Market
- Visit to a Solar Installation

**Marlies HESSELMAN** *University of Groningen*

**Tracy LEDGER** *University of the Witwatersrand of Johannesburg*

**Eric VERDEIL** *CERI Sciences Po*

- Workshop: Covid-19 and Economic, Social and Energy Vulnerabilities

### TRIMESTER 2: BERLIN (46 ½ hours)

**Rachel GUYET**

- Cities and Citizens in the Energy Transition Process
- Drafting a Local Energy Strategy
- 24-Hour Challenge to Draft a Local Energy Strategy

**Lukas BIEBER** *BDEW, Unit Manager Grid, Regulation and Mobility*

- The Grid Challenges for an Integrated Energy Transition in Germany

**Franca DIECHTL** *Project Director, International Cooperation, DENA Deutsche Energieagentur*

- Stromsparcheck and Participation of Vulnerable Citizens in the Energy Transition

**Severin HORVAIS** *Coordinator Platform Energy Renovation, ALEC SQY*

- The Role of a Local Energy Agency: A Mismatch between a Standardised Energy Transition Policy and the Concrete Implementation

**Laura KIRCHHOFF** *Berliner Energieagentur, Federation of Energy and Climate Protection Agencies in Germany*

- Stromsparcheck and Participation of Vulnerable Citizens in the Energy Transition

**Robert LENK** *Berlin Smart City, Project Manager at Innovation Smart Cities*

- The Challenges of Berlin Smart City

**Patricia MALERZ** *Berlin Senate*

- Energy Transition Strategy of the Senate of Berlin: The Role of Solar

**Morgan MOUTON** *Lab'URBA (UPEC-UGE)*

- Energy Poverty and New Energy Usages in Asia

**Erik MUNDINGER** *Umweltbank, Treasury & Sustainability*

- Sustainable Finance and the EU Green Deal

**Olaf ZIEMANN** *50 Hertz*

- The Challenges of TSOs and DSOs in the German Energy Transition

### TRIMESTER 3: NICE (15 ½ hours)

**Rachel GUYET**

- Just Transition, Gas Prices and Vulnerable Consumers: What Role for the Cities
- Cities and Citizens in the Energy Transition Process

**Quentin BOULANGER**

- Cities: Social Consequences of International Energy Project Mismanagement – Simulation Game

**Jean-Christophe CLÉMENT** *Director of the Innovation, Marketing and Communication Department – Dalkia*

- Smart Buildings for Smart Grids and Smart Cities
- Visit of IMREDD

**Christophe GAY** *Co-Director, Forum Vies Mobiles*

**Tom DUBOIS** *Research Promotion, Communications and Public Relations Officer, Forum Vies Mobiles*

- What Lifestyles for Tomorrow?

**Dirk VANSINTJAN** *Chair, REScoop.eu*

- The Challenges of Renewable Energy Communities in Europe



## PROFESSIONAL SKILLS AND RESEARCH MODULES

### E Negotiation Skills (12 hours)

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 of key importance to know how to negotiate and understand the individual issues and interests of each actor around the negotiation table. In this workshop students learnt how to fix objectives and alternatives to create the basis of a good negotiation strategy. They learnt how to plan strategies by individual issues.

#### TRIMESTER 2: BERLIN (6 hours)

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

- Negotiation Techniques

#### TRIMESTER 3: NICE (6 hours)

**Rachel GUYET and Mark YOUNG**

- Negotiation Simulation Game

### F Project Cycle Management (20 hours)

Students learnt how to tackle an energy-related problem and find creative and realistic solutions. They developed a plan to put the solutions into action and they identified stakeholders, assessed potential risks and learnt how to apply for funding, as only an appropriate budget will allow project owners to hire staff, purchase equipment and get their project up and running. By the end of this course, students had learnt how to plan an impact-driven project in the energy sector.

#### TRIMESTER 2: BERLIN (20 hours)

**Mechthild BAUMANN** *Project Consultant*

- Project Cycle Management



### G Research (55 hours)

The individual research work is a highly important element of the Master programme. At the beginning of the year the students received a list with topics proposed by the faculty from which they could choose their topic. The students could also propose a subject of their own choice to the CIFE teaching team. The methodological part of the course was 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 research question, theories used, concluding remarks. Collective workshops or individual discussions were organised regularly to monitor progress and support the research.

#### TRIMESTER 1: NICE (32 hours)

**Rachel GUYET**

- Individual Meetings
- Oral Presentation and Skills Presentation
- Methodology: Presentation Skills
- Thesis Methodology

**François BAFOIL**

- Individual Thesis Meetings

#### TRIMESTER 2: BERLIN (18 ½ hours)

**François BAFOIL, Laurent BAECHLER, Rachel GUYET, Gilles LEPESANT and David DESFOSSES**

- Individual Thesis Meetings
- Thesis: Individual Presentation

#### TRIMESTER 3: NICE (4 ½ hours)

**Rachel GUYET**

- Individual Meetings





## 3 INTERMODULAR COURSES

### Conferences and Speeches

- Opening Speech of the Academic Year: Values Matter in Europe and in the World by **Herman VAN ROMPUY** *President of CIFE, President Emeritus of the European Council and Former Prime Minister of Belgium*
- Inaugural Speech: Climate Justice and Inequalities by **Lidija EYL ZIVCIC** *Senior Expert, Focus*
- The 19th Annual Energy Forum: Europe and the Energy Transition in the New Global Context: Hydrogen and Nuclear – Competing or Complementary Energies?

### Language Courses

- French (Nice) with **Anne TOPENOT** *Communication Coach and Manager of Speaking Academy*
- French (Berlin) with **Katja SCHWARZBACH** *Language Tutor*
- German (Berlin) with **Katja SCHWARZBACH**

### Career Coaching and Networking

- Intercultural Workshop with **Nina FRAUENFELD** *Executive Director, SuccessAcross*
- Professional Coaching: Writing a CV with **Nina FRAUENFELD**
- Individual Career Coaching Sessions with **Nina FRAUENFELD**
- Motivation Letter: Job Search with **Rachel GUYET**
- Advocacy and Public Affairs: A Toolbox with **Marine CORNELIS** *Executive Director, Next Energy Consumer*
- Networking Meeting with the Graduates of the 2020/21 Programme
- Mentoring Programme

## 4 STUDY TRIP AND OTHER VISITS

### Virtual Study Trip to Brussels

A virtual study trip to Brussels was held from 28 to 31 March 2022. The following talks took place:

**Joachim BALKE** *Head of Unit at DG Energy*

- Trilogue European Commission, Council, Parliament in the Area of Trans-European Interconnections

**Jorgo CHATZIMARKAKIS** *Hydrogen Europe, CEO*

- Renewable Energy Communities and REDII

**Naomi CHEVILLARD** *Senior Policy Advisor, Solar Power Europe*

- The Role of Solar in the EU Energy and Climate Policy

**Ellen DE VOCHT** *Political and Regulatory Affairs Officer, EEX*

- The Political Dimension of EU-ETS

**Bernd KUEPKER** *Directorate General for Energy, Unit C.2 - Decarbonisation and Sustainability of Energy Sources, European Commission*

- The EU Hydrogen Policy

**Petya PISHMISHEVA** *Capacity Building Officer, Covenant of Mayors*

- Overview and Presentations

**Pierre TARDIEU** *Chief Policy Officer, Wind Europe*

- The Role of Wind in the EU Energy and Climate Policy

**Adela TESAROVA** *Head of Unit Consumers, Local Initiatives, Just Transition, European Commission*

- EU-Africa Cooperation

**Kai TULLIUS** *Policy Officer, European Commission*

- E-Mobility

**Emmanuel TUSCHERER** *Regulatory Affairs Officer, ENGIE*

- The EU Energy Transition Seen by the Utility

### Other Study Trips and Visits

**NICE** (TRIMESTER 1)

- Visit to a Solar Installation in Mouans-Sartoux on 19 November 2021 with **Marwan EL RHAYTI** *CEO, Planet +*

**BERLIN**

- Visit to the 100 % Renewable Village in Feldheim on 23 February 2022
- Visit to a Mine in Welzow on 24 February 2022







#### NICE (TRIMESTER 3)

- Visit to the Tricastin Nuclear Power Plant on 12 April 2022
- Visit to Monaco: Mission for Energy Transition on 28 April 2022 with **Isabelle CURAU-BLOCH**
- Visit to Monaco: EVER Fair in Monaco on 28 April 2022
- Visit to IMREDD (Institut méditerranéen du risque de l'environnement et du développement durable) on 29 April 2022 with **Jean-Christophe CLÉMENT**
- Study trip to Aix-en-Provence on 3 and 4 May 2022 with the following visits:
  - Energy Show Room, Aix-en-Provence
  - Yvon Morandat Pole, Gardanne
  - ITER Project, Saint-Paul-lez-Durance

### Meetings with International Experts

**Daniel CROW and Toru MUTA** Senior Energy Analysts at International Energy Agency (IEA)

- World Energy Outlook Scenarios

**Nadeem GOUSSOUS** IRENA

- An Overview of IRENA

**Laura GUTIERREZ** GIZ

- GIZ: International Cooperation Development

**Sebastian STERL** IRENA

- Energy Planning: The Case of Africa

## 5 MASTER'S THESIS RESEARCH TOPICS

**Benjamin ADAMS** (Canada)

*Canada's Disparity of Development: The Impacts of Hydro-Reliance on Rural and Remote Communities*

Thesis supervisor: Rachel GUYET

**Nadir BALIK** (Turkey)

*Liberalisation of Electricity Transmission Operators*

Thesis supervisor: Laurent BAECHLER

**Martin BALLER** (Germany)

*Energiewende 2.0: Shaping Germany's Hydrogen Transition. A Case Study of the Northern German Hydrogen Strategy*

Thesis supervisor: Gilles LEPESANT

**Quentin COSME** (France)

*Transition nucléaire – géopolitique des prochaines générations ?*

Thesis supervisor: François BAFOIL

**Gaetano DOÇI** (Albania)

*Opportunities and Obstacles of Western Balkans to Go Renewable*

Thesis supervisor: François BAFOIL

**Nazim Çinar DUVARYAPAR** (Turkey)

*European Oil Majors on the Pathway to Energy Transition*

Thesis supervisor: Laurent BAECHLER

**Nina HIJMANS** (The Netherlands)

*A Small Country with Great Ambitions: Analysing the Chilean Green Hydrogen Transition*

Thesis supervisor: François BAFOIL

**Gerald KINUTHIA** (Kenya)

*Productive Energy Use (PEU) Evaluation for Mini-Grid Systems in SSA: A Case Study for Kenya*

Thesis supervisor: François BAFOIL

**Marie MANGOUA** (Côte d'Ivoire)

*The Conflicts and Cooperation in the Institutionalisation of Supra-Regional Energy Policy: An Evaluation of Ecowas. What Challenges Does the Ecowas Face with Its Integration of Energy Policies?*

Thesis supervisor: Gilles LEPESANT

**Manuel MORENO CEPEDA** (Colombia)

*Triple Bottom Line and the Just Transition for Business: An Interconnected Framework*

Thesis supervisor: Rachel GUYET

**Alice Emmanuel OLUWOLE** (Nigeria)

*Oil Exploration in Nigeria: How Women in Oil Communities Are Left Behind*

Thesis supervisor: Rachel GUYET



**Federica PECORARO SCANIO** (Italy)

*Renewable Energy Communities in Italy: An Adequate Enabling Framework?*

Thesis supervisor: Rachel GUYET

**Natasha REID KETTLE** (Canada)

*How Canada Can Unlock Demand-Side Potential through Residential Demand Response*

Thesis supervisor: David DESFOSES and Rachel GUYET

**Julia SZABÓ** (Hungary)

*Energy Poverty and Energy System Transformation in the Western Balkans: Challenges and Opportunities in Serbia. Is Energy Transition a Way to Mitigate Energy Poverty in Serbia?*

Thesis supervisor: Rachel GUYET

**Louise XAVIER** (France)

*How Do the Government and the Different Stakeholders in Martinique Shape Its Energy Transition?*

Thesis supervisor: Gilles LEPESANT

**Danni XU** (China)

*Energy Resilience After the Pandemic from the Demand and Supply Side in China*

Thesis supervisor: François BAFOIL

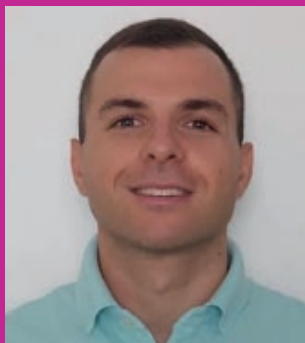
**Fausto ZACCARO** (Italy)

*Balancing Competitiveness and Deep Decarbonisation: The Disagreements Surrounding the Carbon Border Adjustment Mechanism*

Thesis supervisor: Gilles LEPESANT







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