

Course Title	Energy and Climate Change Economics
Course Level	Graduate / Undergraduate
Domain	Economics / Management / Social Sciences/ ...
Language	English
Nb. Face to Face Hours	36 (4,5 hrs. sessions)
E-learning Support	Mycourse yes / No
ECTS	3 or 6

Course Title

Energy and Climate Change Economics

Professor

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Contact Information

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Language

English

Overview

Climate change issues have received increasing attention over the past years, with a large impact on the energy systems.

The energy system is responsible for a significant part of human activity related CO2 emissions. In most countries, the energy systems are in the midst of an in depth transformation. In this context, this course examines:

- Economic theory, empirical perspectives, and political economy of energy supply and demand, both for fossil fuel and renewable sources of energy.
- Public policies affecting energy markets including taxation, price regulation and deregulation, energy efficiency, and control of CO2 emissions.
- A specific attention will be given to the climate change negotiation and its impact following the Paris Accord. The course will cover theoretical and practical issues such as emission permits and the problems of displacing fossil fuels with new energy technologies.

Prerequisites

No prerequisite

Course Objectives

The objective of the course is to provide students with an understanding of the key issues associated with climate change, as well as the current transformation of our energy systems in order to reduce carbon emissions.

Mode of Assessment

Group presentation plus exam

Course Schedule (8 weeks)

1	Introduction: economic highlights on the “low carbon” energy transition
2	The energy system: outlook and scenarios for fossil fuels
3	The energy system: outlook for low carbon technologies (renewables, nuclear, etc.)
4	Climate change: Impact, costs, mitigation and adaptation
5	The international climate negotiation
6	The economic toolbox: carbon pricing, support for clean technologies
7	Focus on power sector transformation; Challenges associated with RES integration
8	Impact on competitiveness - costs implications + Exam

Bibliography

To be distributed in the first course.

MyCourse

This course is on MyCourse : **No**

Grading

The numerical grade distribution will dictate the final grade.

Class participation: Active class participation – this is what makes classes lively and instructive. Come on time and prepared. Class participation is based on quality of comments, not quantity.

Group presentation: students will be assigned a group and will have to prepare a presentation.

Exam policy: In the exam, students will not be allowed to bring any document (except if allowed by the lecturer). Unexcused absences from exams or failure to submit cases will result in zero grades in the calculation of numerical averages. Exams are collected at the end of examination periods.

Academic integrity

Be aware of the rules in Université Paris Dauphine about plagiarism and cheating during exams. All work turned in for this course must be your own work, or that of your own group. Working as part of a group implies that you are an active participant and fully contributed to the output produced by that group.