



Energy, Environment and Climate Change: Research for policy ECP77323

Year	2
ECTS Credits	5
Contact Hours	16 hours of lectures and 7 hours of tutorials
Pre-Requisite	Nil
Semester	1
Module Leader and Lecturer	Dr Miguel Angel Tovar, Philip Carthy, Niall Farrell
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Module Outline:

This module aims to provide students with practical insights into designing and implementing research projects that answer pressing policy questions across the fields of energy, environment and climate. The course will be based around 5 policy applications (i.e. 5 published research papers/topics). By the end of the module students will be able to use their knowledge of economic theory and analytical methods to investigate quantitative issues surrounding the associated policy questions.

Topics covered include:

- Environment: non-market valuation (e.g. water quality, ecosystem services)
- Energy: electricity market modelling, renewable integration, consumer preferences. Energy demand modelling and distributional effects of environmental policies regarding energy consumption
- Climate: Climate policy assessment, carbon taxation, economic impact, transitional impacts

Module Learning Outcomes:

On successful completion of this module, students should be able to:

MLO11.1 Evaluate research approaches/methods used in energy, environment and climate policy evaluation;

MLO11.2 Assess strength of quantitative research findings in energy, environment and climate policy;

MLO11.3 Appraise associated policy conclusions.

Assessment:

Continuous assessment [100%] – Students will submit three essays/reports evaluating strengths and weaknesses of the methods/applications covered.

Recommended Reading List:

Nil