Major
Energy Management

The Major **Energy Management** aims to provide students with a **systemic view on the evolutionary trends that are dramatically reshaping the energy sector**, with reference to the transition from a fossil-based one to a zero-carbon one.

Students will learn how to analyze, understand and assess strategic decisions on energy production and consumption, and their implications for the long-term competitiveness of companies

Energy Management Lab (ING-IND/17 and 35)	**10**
Management of Energy (ING-IND/35)	5
Fundamentals of Energy Technologies (ING-IND/10) Circular Economy Business Models (ING-IND/35) Technology Risk Governance (ING-IND/17) Strategic Innovation (ING-IND/35) Diritto dell'Energia (IUS/10)	10

Laboratory
Digital Business Innovation Lab

Expected Learning Outcomes

A student that has successfully attended the course is expected to:
- Know the **fundamental principles of energy use** and **efficiency**.
- Understand and interpret the i**mpact of energy efficient technologies** and services on **economic and environmental performance of companies**.
- Be able to identify and apply appropriate **methods and tools for economic evaluation of investments** in renewable energy, energy efficiency and smart grid technologies.
- Be able to identify and apply appropriate **methods and tools for the assessment of energy efficiency measures**.
- Be able to understand **the impact of emerging societal, technological, economical and regulatory trends** on the companies **business models** in the energy value chain.

Learning Experience

The Lab leverages the following complementary teaching methodologies:

- **Traditional lectures**, providing theoretical background
- **Group work on exercises** (to apply knowledge, methods and tools acquired)
- Group work on a company problem– **project work** supported by companies (to apply knowledge, methods and tools acquired)
- **Seminars** with company guest speakers

Professors
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Examples of involved companies (in the past years)
Alperia Bartucci, Be Charge, Falck Renewables, Siemens