

# 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

<b>Energy Management Lab (ING-IND/17 and 35)</b>	<b>10</b>
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



# Energy Management 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 **impact 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.

## Professors

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Prof. Alessandra Neri (alessandra.neri@polimi.it)

## 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

## Examples of involved companies (in the past years)

Alperia Bartucci, Be Charge, Falck Renewables, Siemens