



COMILLAS

UNIVERSIDAD PONTIFICIA

ICAI

ICADE

CIHS

GUÍA DOCENTE
2024 - 2025

FICHA TÉCNICA DE LA ASIGNATURA

Datos de la asignatura	
Nombre completo	Managing Energy Insecurity: Dilemmas and Opportunities
Código	E000013480
Impartido en	Master in International Security Management [Primer Curso]
Nivel	Master
Cuatrimestre	Semestral
Créditos	5,0 ECTS
Carácter	Optativa
Departamento / Área	Departamento de Relaciones Internacionales
Responsable	Ileana Daniela Serban
Descriptor	Global Risk Management track

Datos del profesorado	
Profesor	
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DATOS ESPECÍFICOS DE LA ASIGNATURA

Contextualización de la asignatura
Aportación al perfil profesional de la titulación
Global Risk Management track

Competencias - Objetivos
Competencias
The purpose of the course is twofold: (i) to provide the student with the tools to access the sources and conduct a critical analysis of an edgy and polarised subject such as the energy transition; (ii) to be able to reason, defend and advocate for a line of thinking - always based in data and science - in order to manage risks and seize the opportunities that entail.
Skills



- Research: identify adequate and appropriate tools and sources of information for the subject; particular focus on data processing and analysis.
- Analytical and critical reasoning - oriented to the interaction and results required in a professional environment.
- Written and oral presentation - individual and team work.

Resultados de Aprendizaje

Knowledge - Understand and discern the concepts and key drivers related to

- Energy sources and uses - energy security and sustainability (mid and long-term)
- Policy articulation: energy emergency response and energy poverty (short term)
- Interaction of energy and geopolitics - multilateralism in the 21st century.

BLOQUES TEMÁTICOS Y CONTENIDOS

Contenidos – Bloques Temáticos

SECTION I – Modules (M)

1. Introduction - energy systems, key concepts.
2. Coal, Oil & Natural Gas within the energy transition.
3. Renewables and storage.
4. Nuclear – a safe and sustainable option?
5. Green hydrogen.
6. Transport – electrification and biofuels.
7. Carbon capture, markets and emissions trading schemes (ETS).
8. Energy Emergency Response Plans.

SECTION II – Challenges and opportunities.

1. Energy Poverty.
2. Energy Transition - Technology, Regulation & Taxation, Markets.
3. EU energy, industry and employment.
4. West vs 'Global South', sovereign vs multilateral, rural vs urban.

METODOLOGÍA DOCENTE

Aspectos metodológicos generales de la asignatura

- Master classes.
- Case method, Individual and team work.
- Guest speakers (public and private sectors) – TBC.
- Practical exercises per module and a final work exercise.

EVALUACIÓN Y CRITERIOS DE CALIFICACIÓN

Activities

Weight (%)



Attendance and proactive participation, ongoing (multiple choice) tests	50%
Final written Report	25%
Report Presentation	25%

BIBLIOGRAFÍA Y RECURSOS

Bibliografía Básica

References

- Yergin, D. (2020). *The new map: Energy, climate, and the clash of nations*. Penguin UK.
- O'Sullivan, M. L. (2017). *Windfall: How the new energy abundance upends global politics and strengthens America's power*. Simon and Schuster.
- Smil, V. (2022). *2050. Por qué un mundo sin emisiones es casi imposible*. Arpa Editores.
- Ashford, E. (2022). *Oil, the state, and war: The foreign policies of petrostates*. Georgetown University Press.
- European Commission. (2024, September). *The Future of European Competitiveness* (Report by Mario Draghi). Retrieved from https://commission.europa.eu/topics/strengthening-european-competitiveness/eu-competitiveness-looking-ahead_en
- European Commission. (2024, April). *Much more than a market* (Report by Enrico Letta). Retrieved from <https://european-research-area.ec.europa.eu/documents/letta-report-much-more-market-april-2024>
- International Energy Agency (IEA). (2023). *World Energy Balances: Overview*. IEA Publications. <https://www.iea.org/reports/world-energy-balances-overview>
- BP. (2024). *Energy Outlook 2024*. Retrieved January 23, 2025, from <https://www.bp.com/en/global/corporate/energy-economics/energy-outlook.html>
- Francis. (2015). *Laudato Si': On care for our common home*. Vatican City: Libreria Editrice Vaticana. Retrieved from https://www.vatican.va/content/francesco/en/encyclicals/documents/papa-francesco_20150524_enciclica-laudato-si.html
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- Cremades, J. (2013). *La energía secuestrada: Desmontando los mitos del fundamentalismo energético*. Pearson Educación, SA.
- Furfari, S. (2023). *Energy insecurity: The organised destruction of the EU's competitiveness*. SAMFI.
- European Commission. (n.d.). *Support for the preparation of Social Climate Plans*. European Commission - DG Reform. Retrieved from https://reform-support.ec.europa.eu/what-we-do/green-transition/support-preparation-social-climate-plans_en

Bibliografía Complementaria

Additional references will be given to each module.