



COMILLAS

UNIVERSIDAD PONTIFICIA

ICAI

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CIHS

GUÍA DOCENTE

2025 - 2026

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

DATOS ESPECÍFICOS DE LA ASIGNATURA

Contextualización de la asignatura

Aportación al perfil profesional de la titulación

Global Risk Management track

Competencias - Objetivos

Competencias

SC3 Ability to identify and work with multiple actors and institutions to address uncertainty in the global security landscape in an adaptive manner.

SC4 A systemic understanding and identification of interconnected security challenges.

SC6 Applied theoretical knowledge needed by any international security professional working in different security areas.

SC9 Ability to manage new security threats through the identification of opportunities for change and the adoption of related policies.

Resultados de Aprendizaje

The purpose of the course is twofold:

(i) to provide the student with the tools to access the source 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 on data and scientific evidence - in order to manage risks and seize the opportunities that entail.



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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.

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.

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

METODOLOGÍA DOCENTE

Aspectos metodológicos generales de la asignatura

- Master classes.
- Case method, Individual and team work.
- Guest speakers (public and private sectors) – TBC.



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- 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%

Calificaciones

In order to be able to attend the ordinary exam, it is required not to have missed more than one third of the classes without justification. If this requirement is not met, the student may miss the ordinary and extraordinary exams (art. 93.1 of the General Regulations).

Incurring in serious academic misconduct, such as plagiarism of previously published materials or copying in their exam or other evaluated activity, or not respecting the basic rules of coexistence may lead to the opening of a disciplinary proceeding and the loss of two convocations.

The use of AI to create complete works or relevant parts, without citing the source or the tool or without being expressly allowed in the description of the work, will be considered plagiarism and regulated according to the General Regulations of the University.

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.



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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.