



## MACRO ENERGIE

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Lecturers: **Jean-Pierre CLOAREC**

| Lecturers : 28.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

### Objectives

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The development model of today's societies is based on energy consumption that is not sustainable in the long term. This course therefore aims to enable engineers to acquire a global vision of the energy system, which is indispensable both to the understanding of the current context and the challenges that future generations will have to face. The course provides fundamental knowledge on geopolitical, economic and technical aspects of various energy sectors and their deployment or shutdown at the international and local level.

**Keywords :** Geopolitics of energy; primary, secondary and final energy, energy balance, energy chains; energy-climate; energy-development; international, national, local scales

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### Programme

### Learning outcomes

### Independent study

Objectifs :

Méthodes :

### Core texts

### Assessment