

SEMINAR ENERGY & CLIMATE CHANGE 2021

EVALUATION:

Challenge: Within the scope of your personal interests, select an economic activity:

Examples: Fashion | Communication | Food and Beverage | Industry | Health services | Mobility | Other

Assuming Portugal (or your country) by 2030, will be in the midst of a pathway to achieve a carbon neutral economy by 2050 (as stated in the Paris Agreement) or earlier, how do you envisage the selected activity will picture in that time horizon (2030)?

Team work | Think out of the box | Innovate

What is the challenge for the activity? Who are the challenge owners? What do you envisage the activity must/should deliver in the future?

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Suggestion of script to develop the team work:

- ❖ firstly, **formulate (and detail) the problem** as far as you are able;
- ❖ **characterize the activity at present** [for example, production / import technologies | type of markets and consumers | competition from other markets? | energy consumption profile | indicators of carbon intensity]
- ❖ **envisage the activity up to 2030** [technological options | product change - green | change of consumers | energy consumption profile | indicators of carbon intensity]
- ❖ **systematize opportunities for the mitigation** of the selected activities (identify needs of R & D, act on consumption preferences, the product value chain, among others)
- ❖ **identify and anticipate constraints and barriers** to the desired mitigation, and explain how to overcome them.

Tips: Start now; try to be objective and quantify what is possible; do not try to be exhaustive (you can not do it within just one course); explore examples that already exist in other countries; be creative.

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EVALUATION CRITERIA [points/100], the goal of the exercise is to promote:

1. Your ability to reason about the problem, in a structured and integrated way (for example, within the value chain of the activity, including the international dimension if applicable); [25]
2. Consistency and creativity in the scenario design in 2030 taking into account the expectations of a 450 ppm scenario (aggressive reduction of GHG emissions); [20]
3. Show knowledge about technological mitigation options, in particular regarding the energy component; [20]
4. Demonstrate robustness of analysis and arguments, focusing on aspects of cost effectiveness, carbon economics, competitiveness, among others. Demonstrate ability to synthesize information and data processing; [20]
5. Evidence of group work and cooperation [7.5]
6. Clear and concise presentation [7.5]

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How the work will be developed?

- Groups of 3 students (please send me an email with the group members until end of march)
- Coaching session to each group, on the work development (one class dedicated to this, end of may)
- **Oral presentation**: 30 min/group [15 min for oral presentation + 15 min Q&A]
- **Deliverable**: at the day before the oral presentation at maximum, students will send to me the **presentation by email**. Presentation in pdf format: maximum 10 slides + word document with 3 pages at maximum (only if needed for complementary information).

Oral presentation:

25 June 2021, friday, 14:00h, ICS (tbd)