

Seminar on Energy and Climate Change

EVALUATION:

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

Communication | Final Product | Industry | 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)?

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Suggestion of script for development:

- 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, march 27)
- Coaching session to each group, on the work development
- 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 must send 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:

3 July 2020, friday, 14:00h, ICS (tbd)