

Master REST
Course on “New Energies and New Markets” (NENM)
Jean-Pierre Ponsard
Academic year 2013-2014
Amphi Sauvy

Web site: <http://rest.ponsard.net/>

Objective, organization and evaluation:

- The course provides the main economic tools to analyze the role of government regulations and of the strategies of firms with respect to climate change and renewable energies.
- The first three sessions will introduce the conceptual framework
- The following six sessions will consist of detailed case studies
 - o A professional will be invited to discuss the technological, regulatory and market issues associated to each case study
 - o In preparation to this discussion a selected team of students will make a short preview of the issues based on available references (20 minutes)
 - o After the session the selected team of students will write a 10-15 pages joint term paper including
 - an abstract
 - the stakes
 - the potential for technological evolution
 - the public policies
 - the firms’ strategies
 - a global assessment
 - the references
 - o The scheduled dates for the case studies are subject to change depending on availability of the professionals
- **Evaluation of the students**
 - o $\frac{3}{4}$ on the term paper due on March 3rd
 - o $\frac{1}{4}$ on a quiz which will take place on Feb 18th

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Program (morning 9.00-12.00, afternoon 14.00-17.00)

1. Dec 3 Morning: **Session 1**
 - The economics of climate change: setting the stage
 - The tragedy of the Commons: General equilibrium, welfare and externalities

2. **Dec 10: Sessions 2 and 3**
 - a. Morning: The economics of emission trading schemes and some pending issues
 - b. Afternoon: The Porter hypothesis and firm strategies

3. **Jan 7: Sessions 4 and 5**
 - a. Morning: Case studies SO₂ and Ozone hole
 - b. Afternoon: Case study Smart grid

4. **Jan 14: Sessions 6**
 - a. Morning: Case study Hydrogen and the fuel cell vehicle

5. **Jan 21: Sessions 7 and 8**
 - a. Morning: Case study Solar
 - b. Afternoon: Case study Green cities

6. **Feb 4 morning: Session 9**
 - a. Morning: Case study Assessing the potential of a start up in Renewable Energy

7. **Feb 18 afternoon : Exam**