



Climate and Energy Decision Making Sponsored Seminar

Michela Catenacci

Senior Researcher,
FEEM



Presenting on:

Elicitation of expert judgments to assess the uncertain effect of RD&D investments on technological change in solar, biofuel and battery technologies: critical factors and lessons learned

April 19th, 2011
12 noon

(Lunch served at 11:50 am)

129 Baker Conference Room

Seminar Abstract: Innovation in the energy sector is considered essential for the development and the deployment of more efficient generation technologies, whose demand is bound to increase alongside the growing concern for environmental issues and to ensure energy security. In the ICA-RUS project we investigate several technologies for the transport and power sectors, among which Solar Photovoltaic (PV) and Concentrated Solar Power (CSP), Biofuels and Batteries for electric vehicles, in order to understand if they will become commercial and competitive choices in future decades. With the aim to characterise the uncertain relationship between RD&D effort and technological change, we surveyed experts. By structuring an ad hoc elicitation protocol, we carried out a systematic process for collection and elaboration of qualitative and quantitative estimates from the experts. This talk will discuss and compare the structures and main findings of the different elicitation processes. We identify what are the critical factors shaping some of the results, such as the complexity and maturity of each technology, the experts' background and expertise, and the involvement of the institutions in the development of the technologies.

Speaker Bio: Michela Catenacci holds a PhD in Analysis and Governance of Sustainable Development (University of Venice). She is currently Senior Researcher at FEEM. Her expertise includes decision making under uncertainty, Bayesian network approach, expert judgment elicitation and climate change mitigation and adaptation policies.

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