



Invitation to a Workshop on Social Costs of Electricity Generation Brussels, 18 February 2008

The first workshop of the EC funded project CASES (Cost Assessment for Sustainable Energy Markets) will focus on **internal (private) and external costs of electricity generation and supply in and outside the European Union**. The methodology to estimate internal and external costs, and the results of applying this methodology will be presented and discussed.

The costs of electricity generation and distribution are the most important criteria shaping decisions within the electricity system. However, the influence on the environment and human health due to climate change, air pollution, emissions to water and soil, and in addition security of energy supply should also be adequately taken into account. This includes impacts from the whole life cycle of electricity supply and not only the operation of a power plant. Thus results from an LCI (Life Cycle Inventory) assessment have to be used. To be able to compare the different impacts of different technologies and systems, the impacts (risks, damage) have to be transformed in a common unit. The 'ExternE' methodology is used to weight the, mostly site depended, impacts according to the preferences of the society. As result damage costs, which are mostly external costs are obtained. The sum of the 'private' costs and external costs are the so called social costs. For example, the social costs of an innovative renewable technology may be competitive or even smaller than the social costs of a conventional fossil fuelled technology, even if private costs are higher. The technological progress offers solutions for the challenge of a more sustainable energy supply. The comparison of internal and external cost can help to identify the technologies mix to be aspired.

The stakeholder workshop will include

- ϕ Internal cost assessment techniques and results
- ϕ LCI assessment techniques and results
- ϕ Damage costs / external cost assessment techniques and results
- ϕ Energy supply externalities
- ϕ How to use internal and external costs to achieve a more "sustainable development".

The agenda for the workshop is attached. We would appreciate your attendance. Please confirm your intention to participate with a short email to Philipp.Preiss@ier.uni-stuttgart.de indicating whether you also plan to attend the dinner buffet after the meeting.

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Venue: Representation of Baden-Württemberg to the EU
Rue Belliard 60-62, phone: +32.2.741.77.11
B-1040 Brussels, Belgium

Agenda:

Monday, 18 February

13:00 – 15:00 First Session (external costs)

- Introduction and overview
- LCI (life cycle inventory) data for electricity generation
- External costs of technologies for electricity generation
- Externalities of energy supply

15:00 – 15:30 Coffee Break

15:30 – 17:00 Second Session (private and full costs)

- Costs of electricity generation and supply with different technologies
- Full costs of electricity generation in the EU and non-EU countries
- Final discussion

17:30 Dinner Buffet in the „Schwarzwaldstube“

Contact:

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Baden-Württemberg

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