

Venue: Brussels

Date: 18.05.2017

## Focus Group:           **Designing and comparing energy transition pathways**

### Introduction:

One of the focuses of EMP-E is the modelling of transformation pathways to a sustainable EU energy system. In literature, transformation pathways are often summarised by narratives, i.e. qualitative and internally consistent storylines of possible futures of the 'world' with regard to e.g. its political, social, economic, technological and environmental dimensions. In order for models to deliver quantitative insights on the transformation pathways, the qualitative landscape depicted by the narratives must be turned into sound modelling assumptions.

Such exercise becomes particularly complicated in the case of integrated assessments, where a high number of models, possibly run by different institutions and focusing on different sectors, is involved (i.e. not only the energy system per se, but also its links with the macroeconomic setting, consumers' behaviour, technology learning and innovation processes, costs of emissions and externalities, Life Cycle use and availability of resources, water resources, etc...).

### Objective of the focus group:

- To exchange about how the pathway design process is/was carried out in different EU-focused energy system modelling exercises;
- To identify and discuss relevant drivers and game changers for the energy transition pathways;
- Possibly, to identify one pathway of interest for different modelling exercises.

### Key questions for discussion:

- How to ensure we are investigating plausible transformation pathways for the EU energy system?
- How to ensure that the *quantitative* modelling assumptions reflect univocally and comprehensively the *qualitative* storylines behind the pathways?

### Work plan:

- **13:00-13:45** Short introduction on the pathway definition process by REEEM and other participants (tbd);
- **13:45-14:15** Round table on relevant drivers;
- **14:15-14:45** Round table on relevant narratives.

### Contact:

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