Agent-based energy systems modelling: MUSE

LECTURE 2 QUIZZES

2.1. MUSE (ModUlar energy system Simulation Environment)

1. MUSE is what type of model?
   1. **Bottom-up**
   2. Top-down
   3. Sideways
2. What is not a benefit of MUSE?
   1. Modelling of heterogeneous agents
   2. Flexibility
   3. **Complexity of the model**

2.2. How MUSE works

How does MUSE model the environment?

* 1. **Through a carbon budget**
  2. With climate modelling
  3. It doesn’t

1. What don’t agents consider when making investment decisions?
   1. Search space (the technologies available)
   2. Their objectives
   3. **Other agent decisions**

2.3. Benefits of an Agent-Based Approach

Is it easy to predict energy prices in the long-term future?

* 1. Yes
  2. **No**
  3. Sometimes

1. Does MUSE assume that agents can predict the future perfectly?
   1. Yes
   2. **No**
   3. In some cases

2.4. Key MUSE components

1. What is not a key component in MUSE?
   1. Agents
   2. Sectors
   3. **Investment speed**
2. What is not an example of what could be a sector in MUSE?
   1. Residential sector
   2. **Carbon market**
   3. Industrial sector