Agent-based energy systems modelling: MUSE

LECTURE 2 QUIZZES

2.1. MUSE (ModUlar energy system Simulation Environment)

MUSE is what type of model?

1. **Bottom-up**
2. Top-down
3. Inverted

What is a disadvantage of MUSE?

1. Modelling of heterogeneous agents
2. Flexibility
3. **Complexity of the internal workings 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

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

Does MUSE assume that agents can predict the future perfectly?

1. Yes
2. **No**
3. In some cases

2.4. Key MUSE components

What is a key component in MUSE?

1. Agents
2. Sectors
3. **Both of the above**

What can’t be a sector in MUSE?

1. Residential sector
2. **Carbon market**
3. Industrial sector