Agent-based energy systems modelling: MUSE

LECTURE 7 QUIZZES

7.1. Timeslicing in energy systems modelling

Which of these is not true of representative days?

1. Speeds up the model
2. Increases accuracy of a model
3. **Models renewables perfectly**

Do we have to model entire days in MUSE?

1. Yes
2. Never
3. **No, it depends on the complexity of the model**

7.2. Technologies by timeslice

Would solar photovoltaics benefit from timeslicing its supply?

1. **Always**
2. Never
3. In some circumstances

Would a gas power plant benefit from timeslicing?

1. Always
2. Never
3. **In some circumstances**

7.3. Different energy demands by timeslice

Can MUSE model energy service demand by timeslice?

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

Can we model different energy service demands separately in MUSE?

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

7.4. Timeslicing and climate policy

Is it best to focus on only creating a model which runs fast and reducing the number of timeslices?

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

What could happen if we underestimate the number of timeslices for an energy system?

1. **Investments will be skewed**
2. Nothing
3. The model will take a long time to run