Agent-based energy systems modelling: MUSE

LECTURE 4 QUIZZES

4.1. Timeslicing in energy systems modelling

1. What is not a benefit of using representative days?
   1. Helps to speed up a model
   2. Increases accuracy of a model
   3. **Models renewables perfectly**
2. Do we have to model entire days in MUSE?
   1. Yes
   2. Never
   3. **No, it depends on the complexity of the model**

4.2. Technologies by timeslice

Would solar photovoltaics benefit from timeslicing its supply?

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

1. Would a gas power plant technology benefit from timeslicing?
   1. Always
   2. Never
   3. **In some circumstances**

4.3. Different energy demands by timeslice

Can MUSE model energy service demand by timeslice?

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

1. Can we model different energy service demands separately in MUSE?
   1. **Yes**
   2. No
   3. Sometimes

4.4. Timeslicing and climate policy

1. Is it best to focus on only creating a model which runs fast and reducing the number of timeslices?
   1. Yes
   2. **No**
   3. Only sometimes
2. 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