Agent-based energy systems modelling: MUSE

LECTURE 3 QUIZZES

3.1. Energy demands in energy systems modelling

1. Can energy demand vary over time?
   1. **Yes**
   2. No
   3. Rarely
2. What is a major purpose that MUSE is used for?
   1. Predict the future
   2. **Capacity expansion planning**
   3. Stop spending on energy infrastructure

3.2. Energy demands in modelling

What is not required when defining an energy demand?

* 1. **Demand at every single second**
  2. The energy carrier which the demand arises for
  3. The variability of the demand within a year

1. Why do we consider scenario analysis?
   1. Because we know what will happen in the future
   2. **Because the future is very uncertain**
   3. Because the past tells us enough about the future

3.3. Energy demand in MUSE

What is not a way that we can input energy demand in MUSE?

* 1. By setting an exogenous energy demand
  2. **Endogenously**
  3. By correlation, such as with GDP or population growth

1. What is not a service demand?
   1. Lighting
   2. Driving
   3. **LPG production**

3.4. Demand examples and units

1. Is it advisable to approximate the demand of an entire year in MUSE?
   1. **Yes**
   2. No
   3. Only sometimes
2. Is there a difference between power and energy?
   1. **Yes**
   2. No
   3. Sometimes