Agent-based energy systems modelling: MUSE

LECTURE 5 QUIZZES

5.1. Energy demands in energy systems modelling

Can energy demand vary over time?

1. **Yes**
2. No
3. Rarely

What is a major purpose that MUSE is used for?

1. Predict the future
2. **Capacity expansion planning**
3. Prevent spending on energy infrastructure

5.2. Energy demands in modelling

What is not required when defining an energy demand?

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

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

5.3. Energy demand in MUSE

Which of the following isn’t 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

What is not a service demand?

1. Lighting
2. Driving
3. **LPG production**

5.4. Demand examples and units

Is it advisable to approximate the demand for an entire year in MUSE?

1. **Yes**
2. No
3. Only sometimes

Is there a difference between power and energy?

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