Agent-based energy systems modelling: MUSE

LECTURE 5 QUIZZES

5.1. Energy technologies

1. What is not an energy technology?
   1. **Coal**
   2. Heat pump
   3. Solar panels
2. Is it possible to aggregate multiple technology assets into one technology?
   1. **Yes**
   2. No
   3. Sometimes

5.2. Technoeconomic characteristics

What is a type of cost modelled in MUSE?

* 1. Capital costs
  2. Variable costs
  3. **Both of the above**

1. What is one of the reasons we don’t model technoeconomic characteristics?
   1. **To parametrize existing capacity**
   2. To parametrize agent objectives
   3. To observe competition between technologies

5.3. Input and output commodities

Can a technology have multiple input commodities?

* 1. Always
  2. No
  3. **Yes, depending on the technology**

1. What do the CommIn and CommOut files do together?
   1. **Parametrise efficiency of a technology**
   2. Specify technoeconomic data
   3. Specify demand data

5.4. Interpolation and future years

1. What happens if we have no future technoeconomic data?
   1. Interpolate
   2. **Flat-forward extension**
   3. The model crashes
2. What will be the demand assumed by MUSE in 2030 if there is a demand in 2020 of 5PJ and 10PJ in 2040?
   1. **7.5**
   2. 5
   3. 20