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Questions on MESSAGEix-TRADE parameters

Note: I can only disaggregate the following MESSAGE-represented commodities:

* oil (commodity = crudeoil)
* coal (commodity = coal)
* loil (commodity = lightoil)
* foil (commodity = fueloil)
* LNG (commodity = LNG)

**bound\_activity\_lo and bound\_activity\_up**

* I am using two approaches to re-building parameters for trade technologies:
  + Expand the existing parameter in MESSAGE
    - For example, if the original technology = ‘oil\_exp’, then the new technology will be ‘oil\_exp\_weu’
    - Based on % of oil exports going to WEU from the node\_loc in trade data
  + Completely rebuild the parameter using trade data without relying on MESSAGE parameter
  + I use the first one for exports and the second one for imports
    - Because imports are not disaggregated (all coming from the same place, R14\_GLB)
* Why are these parameters missing for gas\_exp\_eeu when they exist for gas\_imp to R14\_EEU?
* Do we need future (e.g. 2020) values? If so, how should we calculate these values?

**output**

* How are year\_vtg and year\_act set?

**capacity\_factor**

* Is it ok that CF = 1 for all trade technologies?

**ref\_activity**

* How should we build ref\_activity?

**relation\_activity**

* What is PE\_total\_engineering?