What follows is an explanation of the data in each folder, all of which could be added to the Data Portal for this project:

* **cambium\_data**: contains an 8760 of the marginal grid conditions that are used to calculate the emissions and operating cost reductions. Note that these *do not reflect actual reductions as they do not account for building load reductions*. These are just inputs.
  + naming convention “cambium\_grid\_data\_‘*full state name*’\_‘*cambium variable*’.csv”
  + Lower 48 states are covered and the 2 cambium grid variables are co2\_rate\_lrmer for the long-run marginal grid emissions and grid value for short run marginal operating costs.
* **choropleth\_bill\_savings**: contains png’s of choropleths (maps) showing the median annual customer bill reductions by state for each measure focus.
  + naming convention “choropleth\_billsavings\_‘*measure’*.png”
  + Lower 48 states are covered
* **choropleth\_grid\_impacts**: contains png’s of choropleths (maps) showing the annual grid impact caused by load reductions by state for each measure focus and the two cambium vars.
  + naming convention “choropleth\_singlebuilding\_ ‘*measure’*\_*‘cambium measure’*.png”
  + Lower 48 states are covered, the 2 cambium grid variables are co2\_rate\_lrmer for the long-run marginal grid emissions and grid value for short run marginal operating costs.
* **load\_patterns**: contains 8760 of the load reductions that are used to calculate the emissions and operating cost reductions and customer bill reductions. Note that these *do not reflect actual impacts as they do not account for grid conditions or retail tariffs reductions*. These are just inputs.
  + naming convention “annual\_load\_pattern\_*‘EMM region’*\_*‘measure’*.csv”
  + 22 EMM regions are covered and 3 measures plus a baseline are included
* **plots\_seasonal\_state\_focus\_load\_diff\_cambium\_values**: contains png’s that show for a standard week by season the load reductions and the marginal grid conditions in the state.
  + Naming convention “sidebyside\_load\_cambium\_*‘measure’*\_*‘state’*\_*‘cambium variable’*\_ *‘season’*.png”
  + Lower 48 states are covered, the 2 cambium grid variables are co2\_rate\_lrmer for the long-run marginal grid emissions and grid value for short run marginal operating costs. Four seasons are covered 3 measures are covered
* **plots\_seasonal\_state\_focus\_load\_patterns**: contains png’s that show for a standard week by season the baseline and implemented measure load patterns in the state
  + Naming convention “normalized\_load\_*‘measure’*\_*‘state’*\_*‘season’*.png”
  + Lower 48 states are covered, four seasons are covered, 3 measures are covered
* **table\_bill\_savings**: contains csv’s of the minimum, median and maximum customer bill reductions by state. Also includes the tariffs code (for URDB) used for calculating the baseline and implemented measure customer bills. Also includes the load reduction across the scenarios. ***A second set of csv’s*** in the folder include by measure, EMM region, state the percentage reduction in customer bills and customer load associated with the median outcome in the first set of csv’s
  + naming convention
    - first set: “report\_annual\_bill\_savings\_with\_tariffs\_by\_state\_total\_*‘measure’*.csv”
    - second set: “state\_median\_bill\_percentage\_reductions\_*‘measure’*.csv”
  + Lower 48 states are covered, 3 measures are covered
* **table\_grid\_impacts**: contains csv’s of the operating cost and emission reductions by state.
  + Naming convention: “report\_annual\_grid\_impacts\_by\_state\_top\_*‘measure’*\_*‘cambium variable’*.csv”
  + Lower 48 states are covered, 3 measures are covered, 2 cambium variables covered
* table\_state\_summary: contains data necessary to replicate the state summary tables found in the report
  + naming convention: “state\_summaries\_*‘state’*.csv”