README for “Technology Lock-In and Costs of Delayed Climate Policy” Replication.

This paper is primarily written using restricted-access microdata from the U.S. Census Bureau. Researchers seeking to replicate the paper’s results should first apply for access to the Annual Survey of Manufactures, the Census of Manufacturing, Manufacturing Energy Consumption Survey, and the ASM Fuel Trailers for the years 1976-2011. Application details are available here.

The first step in the replication is to obtain access to the Census data sets above. The second step is to clean the public data that should be merged with the Census data. These public data sets are in the public_data folder. The researcher should run the scripts in the public_code folder to process the public data sets, beginning with the cleaning files in the specified numerical order and following with the analysis files in the specified numerical order in either R or STATA.

With all of the data sets in-hand, the researcher should run the programs in the Census_programs folder in the Census secure environment. First, the data folder labeled public_data/user_provided_data should be brought into the Census project folder. Next, the research should run the scripts in STATA in the cleaning folder in the specified numerical order to process the Census data. Subsequently, run the scripts in STATA in the analysis folder on the cleaned data to generate the tables and figures in the text.

Code to replicate the simulations in the paper is in the folder simulations_programs. These scripts run in Python.