**Project Summary**

Our project seeks to develop a model to predict the volume of greenhouse gasses emitted by manufacturing industries and households per capita among different provinces of Canada.

To develop our models, we pulled and tidied data from 4 datasets containing information from statistical surveys hosted by Statistics Canada. We developed linear regression models to predict the amount of greenhouse gas emissions by households, durable, and non-durable industries. We also developed a linear regression model to predict the greenhouse gas emissions of durable and non-durable manufacturing industries using province, year, and durable as predictors. Durable is a binary variable classifying industries as manufacturers of durable or non-durable goods.

Both linear models were constructed using Ridge linear model from sklearn in Python with a tuned hyperparameter alpha