Introduction of “clean” cars in Sweden: an analysis of policies and their effects

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Abstract

In Sweden there is a tradition of buying large, powerful and heavy cars with high fuel consumption and CO$_2$ emissions. It is the heaviest car fleet in Europe. Major measures have been taken in order to accelerate the introduction of “clean” cars in the fleet. In response to these measures, there has been a fast and significant change in the shares of different fuel types towards higher use of alternative fuels. In this talk I present the measures and an analysis of the effects.

A recently started project aims at developing a dynamic model of the car fleet based on registry data. I present the data and some preliminary modeling ideas as well as a review of relevant literature.

This talk is to a large extent based on work by Staffan Algers and Muriel Beser Hugosson, both working at the Royal Institute of Technology.