

# A macroeconomic contribution: Extended environmental input–output analysis

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## Abstract

An environmentally extended Input–Output (IO) model is used to estimate the impact of the increased use of electric cars (EV) on production, Gross Value Added, employment, and greenhouse gas emissions. The year taken as a reference is 2030 and the analysis is carried out for a sample of 29 countries that include the EU 28 and Norway. The reference databases for the IO model correspond to 2014 and the four sectors mainly impacted by the introduction of EV are coking plants and oil refining, the manufacture of motor vehicles, commerce and repair of motor vehicles, and the supply of electric power. The results vary significantly between countries although the greatest impacts appear in those located in Eastern Europe.