

Automotive Deployment Option Projection Tool (ADOPT) Model (National Renewable Energy Laboratory)

Objectives

Estimate the petroleum use impacts of alternative technologies and policies. Estimate future vehicle market share based on infrastructure constraints, consumer preferences, and vehicle attributes. Analyze policy options by considering factors such as vehicle incentives and energy prices.

Key Attributes & Strengths

The model validates in many relevant dimensions with historical vehicle sales data and captures market penetration more realistically by competing advanced technologies with all current makes and models. The model also captures key aspects to light duty fuel use including changes to vehicle travel with age and scrap rates with age.

Platform, Requirements & Availability

Easy to use interface in Microsoft Excel environment (provides access to assumptions, inputs, and outputs). Planned to be made freely available to the public.

