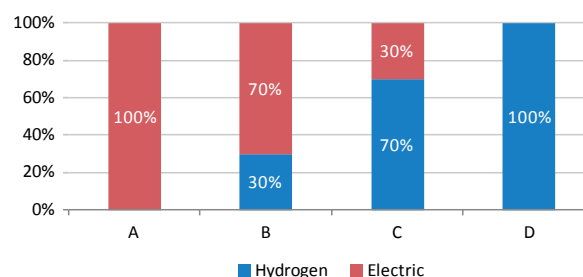


# Choice of zero emission vehicle technology

The 'Shift to zero emission transport' option allows users to specify the proportion of zero emission cars in the vehicle fleet. Under the choice of zero emission vehicle technology, Options A to D allow the user to choose the proportion of those zero emission vehicles that would be either fully electric, or using hydrogen fuel cells. In practice other technologies such as 'hybrid' electric-hydrogen cars (hydrogen fuel cell range extender) could exist, using all-electric for short journeys and hydrogen for long journeys. However, the Low Carbon Navigator currently only models fully battery electric or hydrogen fuel cell vehicles.

**Figure 1 Zero emission vehicle technology options**



Source: Authors.

## **Option A**

Option A assumes that by 2050, 100% of domestic vehicles will be fully electric and there will be 0% hydrogen fuel cell vehicles.

## **Option B**

Option B assumes by 2050, 70% of vehicles will be fully electric and 30% will have hydrogen fuel cell vehicles.

## **Option C**

Option C assumes by 2050, 30% of vehicles will be fully electric and 70% of vehicles will have hydrogen fuel cells.

## **Option D**

Option D assumes in 2050, all domestic vehicles will be powered by hydrogen fuel cells.