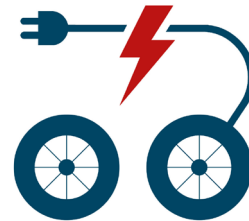


Incidents with alternative fuel vehicles

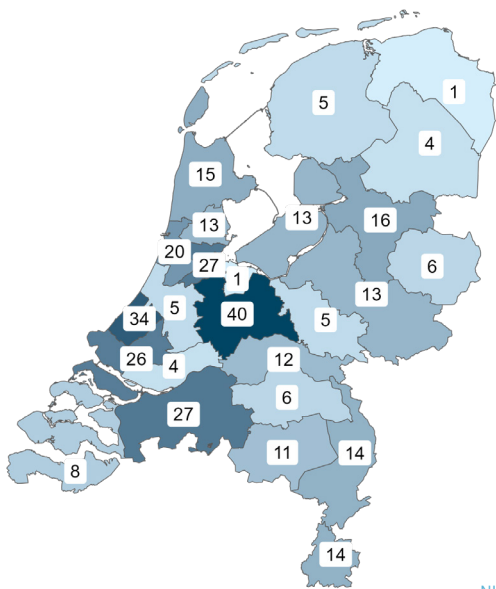
Annual report 2024

This factsheet provides a picture of the number and type of incidents involving alternative fuel vehicles (AFV). Other characteristics are also considered, such as the type of propulsion, the type of AFV, the resources used and the number of victims.

The figures are related to incidents in the Netherlands where the fire brigade was deployed.



Number of AFV incidents per safety region



NIPV | 2024



Incidents in the Netherlands

Number of incidents

356

135 accidents
221 fire

NIPV | 2024

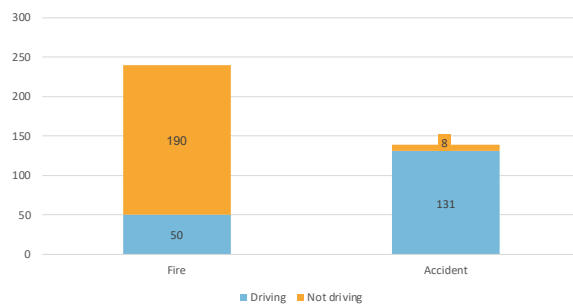
Number of vehicles

382

141 accidents
241 fire

NIPV | 2024

Type of incident

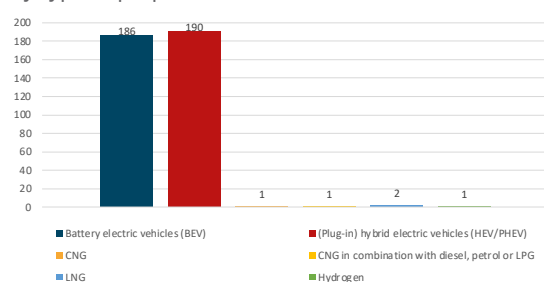


NIPV | 2024



AFV propulsion

Number of vehicles involved in incidents, by type of propulsion

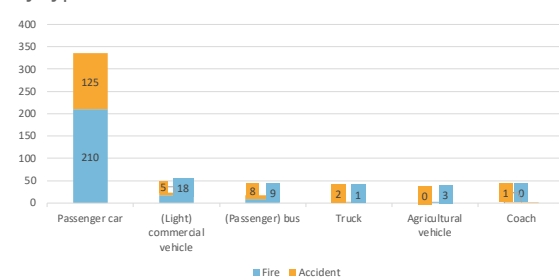


NIPV | 2024



Type of vehicle

Number of vehicles involved in incidents, by type of vehicle

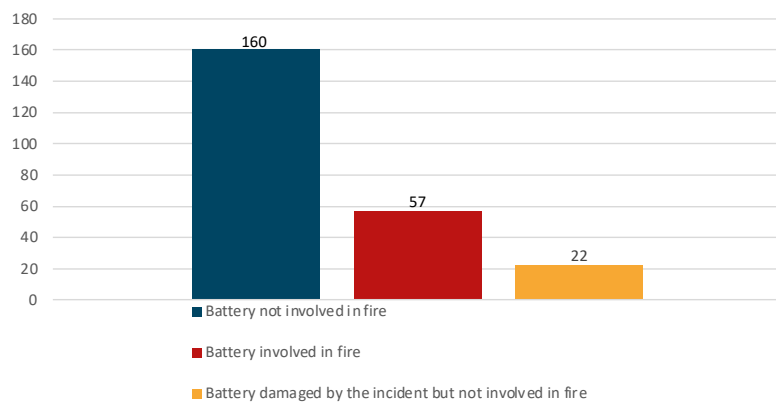


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Fire*

AFV with battery involved in fire

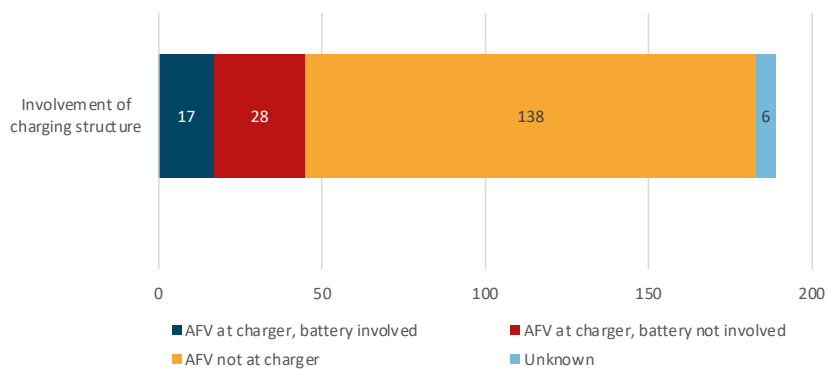


NIPV | 2024



Charging*

AFV at charge



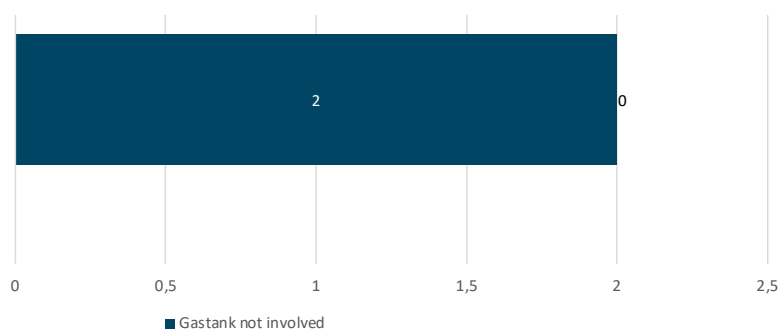
NIPV | 2024

* For the 190 vehicles that could have been on the charger counts that they had to be parked, were involved in the fire and were a BEV, (P)HEV or FCEV.



Gastank

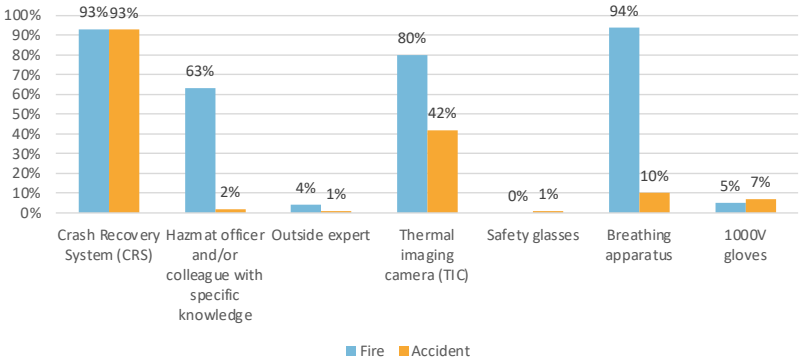
AFV with gastank



NIPV | 2024



Used resources

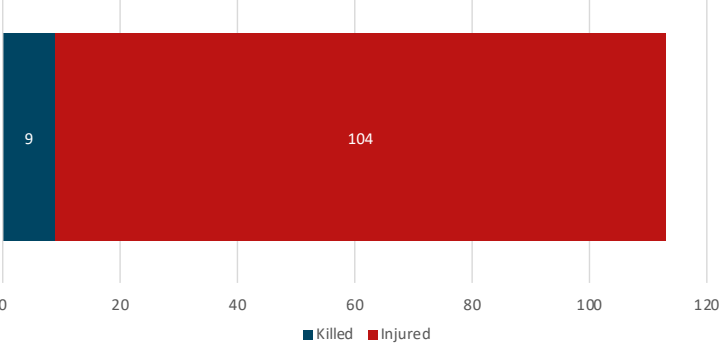


NIPV | 2024



Casualties*

Casualties at accidents with AFV



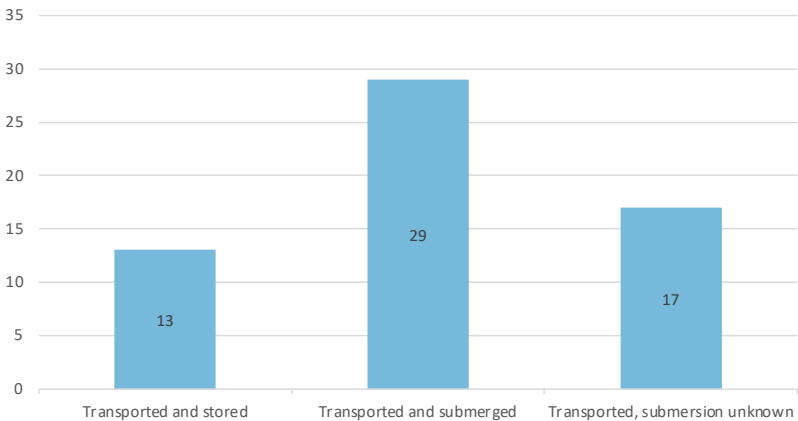
NIPV | 2024

* 76 of the 356 incidents resulted in casualties. None of the incidents resulted in injury to fire brigade personnel.



Submerging container

Use of submerging container



NIPV | 2024

More information

This factsheet is based upon the Annual report 2024 Incidents with alternative fuel vehicles (NIPV, 2025). The publication can be downloaded at www.nipv.nl

For the dashboard Incidents with alternative fuel vehicles see: <https://kerncijfers.nipv.nl/mosaic/kerncijfers-veiligheidsregio-s/incidenten-met-alternatief-aangedreven-voertuigen>

Professorship of Energy and Transport Safety: nipv.nl/lectoraat-energie-en-transportveiligheid/

Netherlands Institute for Public Safety,
April 2025