

## **Clean Vehicles, Better Fuels and more Efficient Work Travels in the Municipality**

Gothenburg is a leading city in Sweden concerning our long term projects to reduce the emissions from road traffic and introduce new technologies and clean vehicles. We have participated in the national development of standards and incentives for clean vehicles during the last decade. We have also participated in a project to develop standards for social and environmental demands on renewable and fossil fuels.

In the central part of the city there is a low emission zone for heavy duty vehicles.

Several projects in the city focus on low emission vehicles and energy efficient technologies. We have a local fleet of electric hybrids and renewable methane buses and waste collectors. The diesel vehicles are often fuelled with renewable FAME, and during the last two years a test fleet of waste collectors are fuelled a 100 percent renewable HVO. This is achieved by public procurement.

In the last three years the City has participated in a project to test hybrid electric buses in regular traffic. They are charged at the end points, run to 80 percent on electricity, and use supplementary diesel engines when going uphill (see other action). In June 2015, the first fully electric buses were introduced and are now running in regular traffic in the project ElectriCity (see other action).

When procuring different kind of goods and services, the city also demands that the suppliers use especially efficient cars and renewable fuels.

In a project called “Elmob”, the city participates in developing electric driven car sharing, electric cycle pools and electric taxis. During 2015, two electric driven taxis will be used in regular routes and a new concept is developed with combined electric car and electric bicycle rental is tested.

The municipal fleet of light vehicles consists of more than 90 per cent “clean vehicles” according to the national definition. The share of electric vehicles is increasing and the energy consumption of new cars is lowered.

More of the municipal fleet of cars will gradually be included in a communal car sharing pool. This way, the vehicles will be used more efficiently. The travel policy of the city also prescribes that employees shall use municipal cars when available for work travels. This way, the work travels are carried out in better and safer cars, and at the same time we make it easier for employees to avoid driving their privately owned cars to work, since the cars are no longer needed for work travels. Starting in 2014, a system of intelligent speed adaption is introduced in all municipal vehicles to decrease the fuel consumption and increase the traffic safety.

Gothenburg is one of the partners in a national initiative among municipalities to speed up the transition towards electric vehicles. Five per cent of the cars in the municipal fleet are electric, we

have more than 100 charging stations and during 2015, the municipal energy company Göteborg Energi installs five fast chargers as a complement to commercial chargers already installed. New business models are developed by Göteborg Energi and the municipal Parking Company to offer charging in garages and parking places.

*More information:*

The municipal work for clean vehicles:

[http://goteborg.se/wps/wcm/connect/56df040d-3044-43fc-80bc-f80929ca8ae8/Promote\\_Clean\\_Vehicles\\_in\\_Gothenburg.pdf?MOD=AJPERES](http://goteborg.se/wps/wcm/connect/56df040d-3044-43fc-80bc-f80929ca8ae8/Promote_Clean_Vehicles_in_Gothenburg.pdf?MOD=AJPERES)

Low Emission Zone:

<http://urbanaccessregulations.eu/countries-mainmenu-147/sweden-mainmenu-248/goteborg>

Electric charging in Gothenburg (automatic translation):

[http://translate.google.com/translate?hl=en&sl=sv&tl=en&u=http://www.goteborgenergi.se/Privat/Projekt\\_och\\_etableringar/Laddning\\_for\\_eldrivna\\_fordon](http://translate.google.com/translate?hl=en&sl=sv&tl=en&u=http://www.goteborgenergi.se/Privat/Projekt_och_etableringar/Laddning_for_eldrivna_fordon)

The project Elmob (automatic translation):

<http://translate.google.com/translate?hl=en&sl=sv&tl=en&u=https://www.viktorias.se/elmob>