In cooperation with the mobility operator Greenway, electrified Citroen Jumper Vans are used to transport parcels from a distribution centre in Perg (federal district of Lower Austria) to business costumers around the town of Perg.

**Benefits**

- Financial: Electric mobility in a competitive price range: No additional subsidies to finance a „prestige project“.
- First on the market: huge marketing opportunity and advantage in case of stricter environmental legislation.
- No noise emissions or exhaust fumes – silent delivery for residential areas.
- The E-Van is well received by the drivers because of the lack of noise and the good usability.

**Starting point/objectives/motivation:**

The different delivery routes have to be analysed to assess their suitability for electrified vans.

The ideal route is characterized by
- a high number of stops,
- low driving distances between the stops and
- a short distance between the distribution centre and the start of the delivery route.

These characteristics are necessary because of the lower range of E-Vans in comparison to conventional power trains. At the moment, the Greenway Vans are managing a range up to 180 km. Short distances between stops are not detrimental to the electric power train, in contrast to conventional engines.

**Solution**

A twofold approach was used:
1. A first E-Van is used for a specified route, which suitability was confirmed in a two weeks lasting test in January. Starting in June, this first route is permanently served by an electrified van.
2. At the same time, all remaining 15 delivery vans are equipped with a GPS-Sensor to monitor their daily routes. After the monitoring time of 6 weeks, all suitable delivery routes will be identified

→ A change to electrified vans on all suitable routes is the main target of the project.
The higher initial costs of electric vehicles are avoided by the Greenway-business model. For a fixed monthly price, Greenway guarantees a certain amount of electrically driven kilometres. The costs are comparable with a leased conventional vehicle and because of the extremely low fuel prices, the TCO-numbers are very good.

The financial performance depends on the coordination of the logistics concept with the range of the van. Optimizing the amount of driven kilometres, while keeping in mind the limitations of the range is the key.

The use of electric cars was inhibited by their small range in the past. In spite of recent developments, this argument is still deadly for all ambitions for CO2 free transportation. Therefore it is crucial to assess the suitability of possible routes to persuade delivery personal of the growing usability of electric power trains.

The growing importance of emissions reduced transportation modes in the face of smog and global warming and the strong development of electric power trains and battery technologies are the motivations to invest into electric transportation modes.