

FACTSHEET

eTankE

SMART SOLUTION 11: ALTERNATIVE FUEL DRIVEN VEHICLES



SUSTAINABLE
URBAN
MOBILITY



- Installing a charging infrastructure enables the market for plug-in hybrid-electric and electric vehicles to develop.
- Leads to lower carbon emissions and better air quality
- Promotion of plug-in hybrid-electric and electric vehicles

Cologne

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What is the solution?

RheinEnergie will implement charging stations for the use by Cambio, Ampido and as public charging stations.

How does it work?

The goal of the solution is to promote the replacement of fossil fuelled vehicles. The charging infrastructure enables the tenants to charge their electric vehicles. In cooperation with KVB, the car-sharing company Cambio and the carpark-sharing company Ampido, tenants will be offered various forms of e-mobility. This offer renders the use of a private car unnecessary.

Customers are required to register at tanKE (<https://www.tanke.info/>) to use the charging stations. To start or stop the charging process you have to send a text message via mobile phone. The only costs at this point are the cost of an ordinary text, which depends on users' choice of mobile phone contract.

As a registered driver, you are able to fill your vehicle at "Tanke" branded charging stations with green electricity from renewable sources. The charging time depends on the vehicle type. The Renault Zoe, for example, needs 1 hour to be fully charged, but other types could take longer. During an introductory period, charging is provided free of charge.

Integration with other smart solution

The load management will be realised with the Siedlungsmanagement software (Solution 4). The Siedlungsmanagement system will also collect data about the public and private (E.g. cambio) charging

stations. To help improve the system over time, the booking plan of the cars is essential to obtain a good forecast of the demand for electricity by electric cars.



Expected Impact

The eTanKE charging point is the infrastructure which enables the effective usage of electric vehicles provided as part of a car hire scheme by Cambio. This leads to positive impacts as the vehicles can be charged quickly and easily in the vicinity of the apartments using local energy.

Potential for replication

In general this system of charging infrastructure can also be developed and implemented in other cities. Before the charging stations can be put in operation a lot of network planning and adaptation is required, which takes 4 to 6 months. Costs differ according to the current status of the electricity grid. A good charging infrastructure is the prerequisite for a better integration of E-mobility.