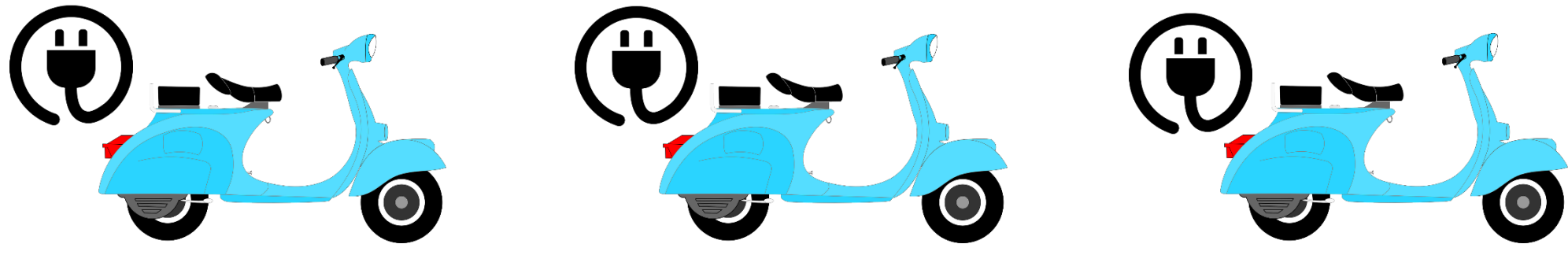




Demand-driven charging infrastructure development for electric motorcycles and scooters

Barcelona Chamber of Commerce



Cambra de Comerç de Barcelona

In Brief:

- **Best practices in policy and a demand-driven approach to electric charging infrastructure development by Amsterdam City will be applied for the deployment of charging poles for electric motorcycles in Barcelona.**
- **This will enhance the public charging infrastructure role-out in accordance with the actual demand of users and eventually increase electric motorcycle usage. Thus, a more sustainable urban mobility model will be achieved.**

Background

- A publicly available network of electrical vehicle charging points is necessary to **raise confidence in electric driving and increase the demand.**
- There are already 247 public charging points for motorcycles; 174 located in public parkings and 108 located on public roads.
- The **Electric Mobility Strategy of the Barcelona City Council** foresees to further reinforce the charging infrastructure (for electric cars and motorcycles likewise) with the objective to increase the number of electric motorcycles in the city up to 24.000 by 2024. This would correspond to a share of 8% of the total number of motorcycles currently present.
- In a future scenario, public charging facilities furthermore will **offer great opportunities to achieve other sustainability targets**, including (temporary) storage and use of sustainable energy.

Learnings and Best Practices

- Amsterdam disposes of one of the **world's most dense networks of public charging infrastructure** (2.800 public charging points in 2018). The city took a **pro-active approach** to overcome the “chicken-egg situation” between the presence of EVs and charging infrastructure.
- Through an **innovative long-term procurement process** (for 1.000 new charging points in 2011) Amsterdam has achieved a very **rapid expansion at low cost** while ensuring **interoperability** and a maximum chargeable price by the supplier.
- (New) EV owners can make an **online request for the installation of a charging pole**, where they need one. Charging points are only installed for EV drivers who cannot park on their own premises. At the same time, no additional parking permits are issued for non-EVs.
- Due to a **multiple stakeholder approach to implementation**, the whole process from the request to the installation of a new charging pole takes a maximum of 2 months.
- Thereby the **city guarantees the availability of charging facilities for all electric drivers at affordable rates**, according to the real demand and without delays.
- Barcelona got inspired by this successful demand-driven approach and intends to apply it to grow the charging infrastructure for motorcycles in the city and reach a more sustainable urban mobility model.



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